Kami Mining Project

Champion Kami Partner Inc.

Wabush, NL

Annex 2: Aquatic Baseline Reports

Environmental Impact Statement

July 2025

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REPORT

2024 Surface Water Baseline Report

Kami Iron Ore Mine Project

Submitted to:

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May 2025

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Champion Iron Mines Ltd.

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Executive Summary

The Kamistiatusset (Kami) Iron Ore Mine Project (the Project) is a proposed iron ore mine in Newfoundland and Labrador. The Project site is located approximately seven kilometres southwest of the Town of Wabush, ten kilometres south of the Town of Labrador City, and five kilometres northeast of Ville de Fermont, Québec.

The Project was originally proposed by the Alderon Iron Ore Corporation (Alderon) and underwent a provincial and federal environmental impact assessment from 2011 to 2013, including a comprehensive baseline program that was completed in 2011 and 2012. The Project was released from the provincial and federal EA process in 2014. In 2021, Champion Iron Mines Ltd. (Champion) completed the acquisition of the Project from Alderon.

Building off the previously completed baseline field program, WSP Canada Inc. (WSP) was retained by Champion Iron Mines (Champion) to complete a surface water baseline program to provide context from which Project environmental effects to fish and fish habitat could be evaluated.

Previous sampling programs took place in 2011 and 2012 (Stantec). The purpose of the 2023 sampling program was to characterize baseline conditions according to the new Project footprint prior to any future mine development on the property. Results of the 2011, 2012 and 2023 baseline studies will be used to support the environmental assessment of the Project and will assist in evaluating effects to surface water.

The 2023-2024 surface water study was conducted to collect information on the surface water quality and quantity to characterize the baseline conditions in the watersheds within the Project Site. The Project Site encompasses several sub-watersheds of the Churchill River, including Mills Lake, Long Lake, Riordan Lake, Waldorf River, Pike Lake, Wabush Lake, and several unnamed streams and lakes. The hydrological assessment included:

- Review of previous hydrological baseline studies and assessments;
- Climate and precipitation review (Wabush Lake Airport);
- Water column profiling (6 lakes in 2023 (August and October) and 2024 (June and August), as well as at select locations in 2023 (June) and 2024 (March));
- Water level and stream flow monitoring (6 lakes and 12 watercourse stations); and
- Water and sediment quality sampling at 25 stream and lake sampling stations, in 2023 (June, August and October) and 2024 (March, June and August).

Review of Previous Assessments

The Stantec 2011-2012 baseline study evaluated the surface water within the local drainage of the project. Stantec's study area excluded Molar Lake, Daviault Lake, and Duley Lake Park, which have been included as part of WSP's Project Site. The components of Stantec's study included:

- A Regional Hydrological Information Review;
- A Climate and Precipitation Assessment;
- A Water Balance Assessment;
- Hydrological Monitoring which included 7 gauging stations; and
- Empirical Hydrological Modelling.

Climate and Precipitation Review

The climate data for this site was gathered from an Environment and Climate Change Canada (ECCC) weather station at Wabush Airport and analyzed for monthly and seasonal trends. Freezing temperatures and snowfall persisted from January 2023 to mid-April 2023 at the start of the year and from the end of October 2023 through December 2023. The results of water level and flow monitoring showed increasing water levels in April 2024 that peaked in May 2024, indicating a response to spring freshet and steadily increasing temperatures in April 2024. Total precipitation in 2023 was 556.1 mm which is 13% below the 638 mm average of the preceding 5 years. During the monitoring period (i.e., June 2023 to August 2024), the monthly precipitation varied between 65.4 and 114.1 mm, with August 2023 having the most precipitation and July 2023 having the least.

Water Column Profiling

Lake Column profiles were completed at Long Lake, Pike Lake, Daviault Lake, Mills Lake, Molar Lake, and Riordan Lake. Lake column profiling was conducted at all lake basin stations in August 2023, October 2023, June 2024 and August 2024, as well as for select locations in June 2023 and March 2024.

The pH conditions at all lake basin stations in July 2023, August 2023, October 2023, March 2024, June 2024 and August 2024 were generally near neutral throughout the water column and demonstrated minor variations over depth and season, with the exception of three lakes where relatively higher and lower than neutral pH was observed in August 2024.

Temperature profiles at each station in June of 2023 and 2024 were characterized by slight warming zone in the upper layer of the lakes. Temperature profiles at each lake basin station in August of 2023 and 2024 were observed to be well stratified and included a marked thermocline through the intermediate layers. Water column profile measurements at each of the lake basin stations in October 2023 were well mixed and thermally stratified conditions were no longer present.

All water column profiles showed relatively stable electrical conductivity and dissolved oxygen with depth.

Water Level and Flow Monitoring

The Project Site generally drains to the northeast through a series of wetlands, lakes and streams which are all part of the Churchill River Watershed. To evaluate seasonal lake level regimes for key surface waterbodies (lakes) in the Project Site, water level monitoring was undertaken at six lake stations located on Daviault Lake, Long Lake, Mills Lake, Molar Lake, Pike Lake and Riordan Lake.

In 2023, water levels were generally observed to gradually decrease from June to August (spring to summer), gradually increase from August to October (summer to fall) correlating with rain events and then gradually decrease in winter months. In 2024, the water levels were observed to continue to gradually decrease from January to March and then increase from April to a peak in May. In May, a sudden increase in water levels was observed that persist throughout the month of May and declined relatively sharply from end-May to mid-June.

The water levels, at two lakes (Long Lake and Mills Lake), generally reported a marked response to rain events. At Molar Lake, water level records showed unusual sudden fluctuations, similar to that of a pumped system with rapid withdrawal and release setup, and coupled with a general increase of lake level trend towards the fall 2023 followed by decrease of lake level trend towards spring 2024 before March 2024. Note that the water level fluctuations were observed higher from August 2023 to October 2023 compared to the rest of the recording period. At Pike Lake, water levels showed an unusual steady increase in the lake level after mid-August 2023 and appeared to continue to rise till the end of May 2024, which is not typical of hydrologic responses to rainfall events. Two beaver dams were observed during the October 2023 visit located upstream near the outlet at Pike Lake, and another large

beaver dam (compared to previous visits) was also observed in August 2024, which likely were the cause of the increased water levels.

Twelve additional monitoring stations in the Project Site were installed to monitor for both water levels and flows. These stations were installed at watercourses and lake outlets in the Project Site. These stations were undertaken to evaluate the seasonal water level and flow regimes. Manual flows were measured three times each in the 2023 (June, August, and October) and 2024 (March, June, August) campaigns, and, where applicable, were used to develop stage-discharge rating curves in order to generate flow hydrographs using the continuous water level records. The results of water level and flow monitoring are summarized below.

Similar to the lake outlet water levels, stream water levels were generally observed to gradually decrease from June 2023 to August 2023 and then, gradually increase from August 2023 to early fall 2023 followed by gradual decrease in the winter months of 2023 and 2024 (November to March). In 2024, the water levels were observed to generally increase from April to early-May. In May, a sudden increase in water levels were observed that persist throughout the month of May and started to drop relatively sharply from end-May to mid-June.

Flow and/or water level hydrographs at the watercourse and lake outlet stations were in correlation with rain events generating moderate to high flows.

The majority of the watercourse station water levels exhibited a marked, but gradual response to major rain events. Only three watercourse stations exhibited rapid and flashy hydrologic response to precipitation events characterized by higher peaks with steep rising and falling limbs.

In 2023, manual flows were observed to be higher in August, following an event response, while in 2024 manual flows were observed to be higher in June following the spring freshet. The 2023 measured flows ranged from 41 L/s (recorded in the June at an unnamed tributary discharging to Long Lake from southeast) to 19,551 L/s (recorded in the August at the downstream of Long Lake Outlet). The 2024 measured flows ranged from 14 L/s (recorded in the August at an unnamed tributary discharging to Long Lake from the southeast) to 7,076 L/s (recorded in the August at downstream of Long Lake Outlet).

Water and Sediment Quality

Water quality monitoring was necessary to document any potential points of environmental degradation due to existing natural or historic activities. For the purposes of assessing the in-situ and lab water quality and sediment quality results, comparison was made to the Canadian Council of Ministers of the Environment (CCME) Water Quality Guidelines for the Protection of Aquatic Life – Freshwater (CCME 1999a) and CCME Sediment Quality Guidelines for the Protection of Aquatic Life Freshwater and Marine ISQG/PEL (CCME 1999b).

Water and sediment quality sampling was conducted at 25 and 23 watercourses and waterbodies (lakes) stations, respectively, in the Project Site. Samples were collected during sampling events in 2023 (June, August, and October) and 2024 (March, June and August). Samples were analyzed for several parameters including general chemistry, anions and nutrients, metals, radionuclides, and polycyclic aromatic hydrocarbons (PAHs). The results of the surface water and sediment quality aspects of the field and laboratory investigations demonstrated that, with some exceptions, the stations located in watercourses and lakes were below the relevant water and sediment quality guidelines. Only a few water quality samples reported slight exceedances of the CCME guidelines for a small group of metals (i.e., aluminum, iron, manganese, lead, and copper), noting that the phosphorous was observed to exceed ultra-oligotrophic conditions and the observed concentrations ranged from ultra-oligotrophic to meso-eutrophic conditions. The sediment quality results were also noted to be below CCME guidelines, noting that the observed concentrations of some metals (i.e., arsenic, cadmium, chromium, copper, lead, mercury, and zinc) were elevated at certain locations.

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1.0 INTRODUCTION

The Kamistiatusset (Kami) Iron Ore Mine Project (the Project) is a proposed iron ore mine in Newfoundland and Labrador. The Project site is located entirely in Labrador, approximately 7 km southwest of the Town of Wabush, 10 km south of the Town of Labrador City, and five km northeast of Ville de Fermont, Québec (Figure 1-1).

The Project was originally proposed by the Alderon Iron Ore Corporation (Alderon) and underwent a provincial and federal environmental impact assessment from 2011 to 2013, including a comprehensive baseline program that was completed in 2011 and 2012. The Project was released from the provincial and federal EA process in 2014. In 2021, Champion Iron Limited (through its subsidiary 12364042 Canada Inc, herein referred to as Champion) completed the acquisition of the Project from Alderon.

Champion is proposing several improvements to the Project design proposed by Alderon through the previous EIS. These proposed improvements include optimizations to the Project's water management strategy and modernization of the proposed ore handling, conveyance, and processing. Champion's objective for the Kami Project is to produce high purity (>67.5%) iron concentrate, which can be used as direct reduction pellet feed for electric arc furnaces in the green steel supply chain.

Champion submitted a Project Registration document to the NL Department of Environment and Climate Change (the Department) in April 2024 to restart the EA process for the Project. On June 13, 2024, the Minister issued a Decision Letter to Champion concluding that an EIS would be required for the Project. EIS Guidelines were issued for the Project on December 19, 2024, that includes requirements for baseline studies.

To support the EIS process, Champion has commissioned the services of WSP Canada Inc. (WSP) to complete a comprehensive baseline field program that documents the existing natural and socio-economic environments in the anticipated area of the Project, and this surface water baseline report represents a component of the comprehensive baseline program. The surface water baseline study was undertaken to provide context from which effects to fish and fish habitat could be evaluated and inform the development of mitigation measures and follow-up effect monitoring programs in the EIS. Champion is planning to submit the EIS to the Newfoundland and Labrador Environmental Assessment Division of the Department of Environment and Climate Change in 2025.

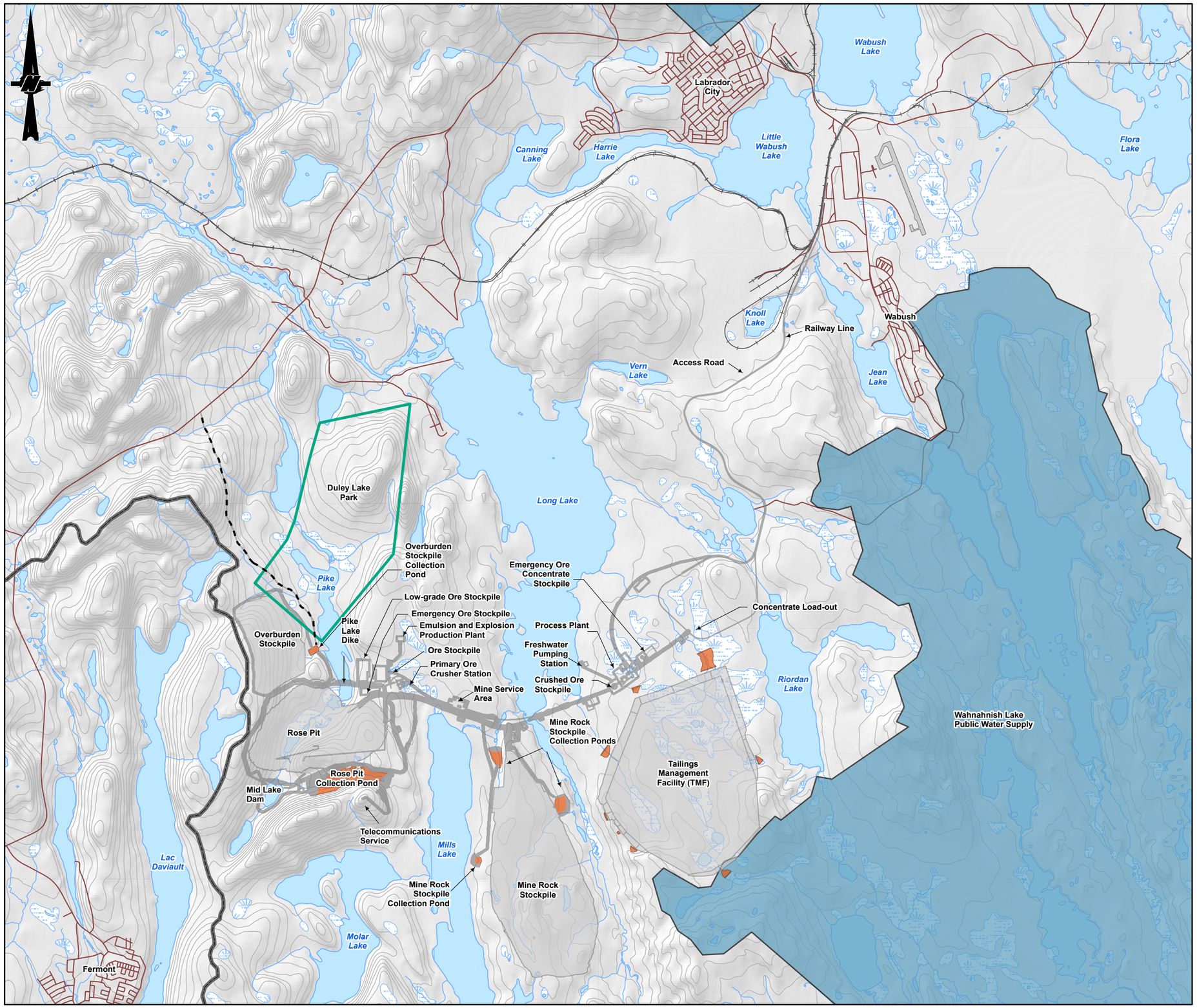
1.1 Overview of the Kami Iron Ore Mine

Figure 1-1 outlines some of the main components of the Project site, including:

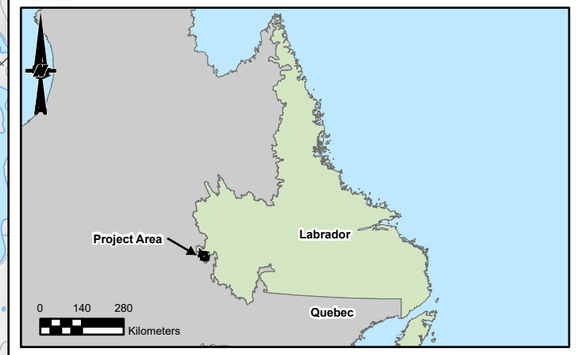
- Open Pit (Rose Pit);
- Mine rock stockpile;
- Ore stockpiles (operational and reserve);
- Tailings management facility (TMF);
- Overburden stockpile;
- Processing infrastructure, including crushing and concentrating; and
- Ancillary infrastructure to support the mine and process plant.

1.2 Drainage

The drainage pattern within the vicinity of the Kami Project is directed north and east through a network of watercourses, lakes and wetlands that are part of the Churchill River watershed headwaters (Figure 1-2). The west portion of the proposed Project site drains into Pike Lake, which then is collected by several lakes and streams connected to the Walsh River and discharging into Long Lake from the north. The south portion of the proposed Project site follows an in-line lake pattern in the following order: Molar Lake, Mills Lake, and Long Lake. The Waldorf River and several streams from the south and southeast drain into Long Lake. One of these streams in the east connects Riordan Lake into Long Lake. Finally, Long Lake drains into Canning Lake and Harrie Lake on the northwest.



KEY MAP



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Legend

PROJECT DATA

- Proposed Project Infrastructure
- Proposed Sediment Pond
- Potential Access Road

BASEMAP INFORMATION

- Road
- Railway
- Watercourse
- Contour
- Duley Lake Park
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

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NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE

PROJECT LOCATION AND SITE LAYOUT

CONSULTANT

wsp

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APPROVED	--

PROJECT NO.	CONTROL	REV.	FIGURE
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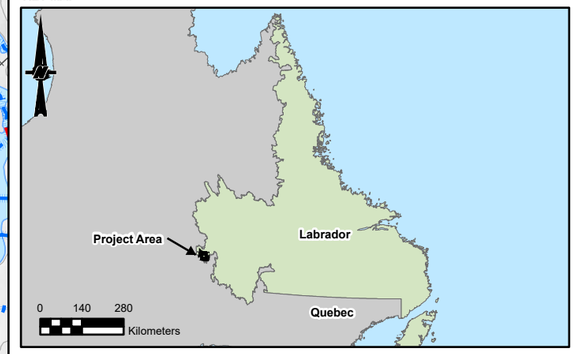
Labrador City
Wabush Lake
Little Wabush Lake
Flora Lake
Camming Lake
Harrie Lake
Knolly Lake
Railway Line
Wabush
Access Road
Vern Lake
Jean Lake
Duley Lake Park
Long Lake
Overburden Stockpile Collection Pond
Pike Lake
Emergency Ore Concentrate Stockpile
Low-grade Ore Stockpile
Emergency Ore Stockpile
Concentrate Load-out
Pike Lake Dike
Emulsion and Explosion Production Plant
Process Plant
Overburden Stockpile
Ore Stockpile
Freshwater Pumping Station
Primary Ore Crusher Station
Crushed Ore Stockpile
Mine Service Area
Riordan Lake
Rose Pit
Mine Rock Stockpile Collection Ponds
Wahnahnish Lake Public Water Supply
Rose Pit Collection Pond
Tailings Management Facility (TMF)
Mid Lake Dam
Telecommunications Service
Mills Lake
Lac Davault
Mine Rock Stockpile Collection Pond
Mine Rock Stockpile
Molar Lake
Fermont

KEY MAP



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Legend

- Flow Direction Line

PROJECT DATA

- Proposed Project Infrastructure
- Proposed Sediment Pond
- Potential Access Road

BASEMAP INFORMATION

- Road
- Railway
- Watercourse
- Contour
- Duley Lake Park
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

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NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

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CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE

SITE LOCATION MAP - WATER FLOW DIRECTION

CONSULTANT

wsp

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2.0 RATIONALE AND OBJECTIVES

2.1 Rationale

The 2023-2024 surface water baseline program was carried out to gain a better understanding of the baseline hydrological and water quality conditions of waterbodies (i.e., lakes and ponds) and watercourses (i.e., rivers and streams) within the proposed Kami Project site and within downstream and upstream waterbodies and watercourses within the local watersheds. Completing the 2023-2024 surface water baseline program will allow for the characterization of baseline and prediction of potential surface water effects arising from the proposed mining operations.

2.2 Objectives

The principal objective of the 2023-2024 surface water baseline investigations within the vicinity of the Kami Project was to characterize the flow regime and water quality at key surface water stations in the local watershed to determine the existing physical and chemical effects on receiving surface water features. The 2023-2024 baseline program followed up from previous studies completed for the Project during 2011-2012 by Stantec.

The specific study objectives were as follows:

1) Establish typical meteorology conditions within the vicinity of the Kami Project to determine the climatic controls on stream flow.

2) Develop a detailed understanding of flow rates and associated seasonal fluctuations at key surface water locations to evaluate the relative proportions of surface water flow volumes.

3) Characterize the seasonal patterns in water column profiles at Daviault Lake, Long Lake, Mills Lake, Molar Lake, Pike Lake, and Riordan Lake to evaluate the potential for lake stratification and/or turnover.

4) Assess the spatial and seasonal variability of water quality at key surface water locations.

5) Evaluate the potential influence that sources of metals and radionuclides from the surrounding watersheds have on the physical and chemical behaviour of key receiving waters.

To achieve these objectives, the baseline field program examined, implemented, assessed or compared:

- Precipitation records;
- Regional hydrological information;
- Continuous hydrometric monitoring stations;
- Lake water column profiling;
- In-situ and lab water quality sampling;
- Results of previous assessments (i.e., Stantec, 2012).

2.3 Issues

A small number of issues were encountered through completion of the 2023-2024 surface water baseline program. The issues were as follows:

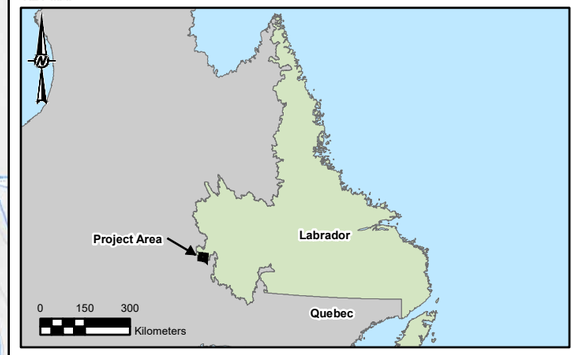
- **Environmental conditions**: High water depths and flows were observed at some watercourses, while high winds were observed at one lake, resulting in unsafe conditions to conduct activities on or near water. Additionally, beaver activity between field visits challenged stage-discharge relationships and made some watercourses not wadable. These issues were generally encountered during the August and October of 2023 and June of 2024.
- **Laboratory**: A portion of the water samples collected in the October(fall) of 2023 were lost at the laboratory and complete water quality analyses of parameters could not be conducted. Regular communication with the laboratory was later established to ensure that all samples were received and analyzed accordingly.
- **Technical Issues**: Due to poor GPS signal reception, water levels at watercourse station WC-05 (located on Waldorf River – reporting to Long Lake from the south) could not be tied to sea level elevations.

3.0 STUDY AREA

The study area for the 2023-2024 surface water baseline program sampling locations encompass the waterbodies and watercourses immediately adjacent and downstream of the proposed Kami Project. Sampling locations were selected to be similar to the locations previously sampled by Stantec (Stantec 2012) in support of the previous EIS to support a comparison of existing conditions. Additional sampling stations were added in 2023 to develop a more comprehensive understanding of local and regional hydrological and water quality conditions. Sampling locations are presented in Figure 3-1.

WC-09
LL-01
WC-10
WC15
Wabush
LL-03
WC14
WC-08
Long Lake
LL-02
WC13
Duley Lake Park
WC-02
PL-01
WC-07
WC-16
WC-11
RL-01
PL-02
Overburden Stockpile
Pike Lake
WC-01
Riordan Lake
WC-06
RL-02
Rose Pit
MIL-01
WC-04
MIL-02
Tailings Management Facility
Rose Pit Sedimentation Pond
Lac Daviault
WC-05
Mills Lake
MOL-01
DL-02
WC-03
Mine Rock Stockpile
Molar Lake
Fermont
MOL-02
MIL-03
DL-01
WC-12

KEY MAP



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LEGEND

- Rain Gauge Station

SAMPLE LOCATIONS

- Watercourse Station
- Lake Level Station
- Lake Basin Station

PROJECT DATA

- Proposed Infrastructure
- Proposed Infrastructure
- Proposed Sedimentation Pond

Railway Options (Approx.)

- Option C1
- Option A2

BASEMAP INFORMATION

- Duley Lake Park
- Existing Railway
- River/Stream
- Existing Road
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary

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NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
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CLIENT
CHAMPION IRON MINES

PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 SURFACE WATER SAMPLING LOCATIONS

CONSULTANT

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REVIEWED	MS
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
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4.0 METHODS

4.1 Meteorology

Historical temperature and precipitation records were obtained from the nearest Environment and Climate Change Canada (ECCC) meteorological station at Wabush Airport. These records were used to evaluate monthly climate trends for the region. The ECCC weather station is described in Table 4-1 below and was selected based on the proximity to the site (approximately 14 km northeast).

Table 4-1: ECCC Meteorological Station Information

Station Name	Climate ID	Period of Record	Elevation (masl)
WABUSH A	8504177	1960 to 2023	551.40

4.2 Water Quantity

4.2.1 Drainage Patterns and Catchment Areas

As part of the visual inspections carried out during the field campaigns, defined surface water features (i.e., channels and/or areas of diffuse flows), culvert crossings and local topography were located and documented using a hand-held GPS, field sketches and photographs.

4.2.2 Lake Water Level Stations

Water level monitoring was undertaken at lake stations listed in Table 4-2 below and presented on Figure 3-1 to evaluate seasonal lake level regimes for key surface water stations within the vicinity of the Kami Project. Water level monitoring had previously been undertaken in 2011 through 2012 (Stantec 2012) at two lake stations (Mills Lake and Long Lake) only. The historic results were reviewed and compared with the 2023-2024 results at stations located in proximity of historic stations. For detailed information, refer to Appendix F.

Table 4-2: Water Level Stations

Station ID	UTM Coordinates[(a)] Northing/ Easting	Description	Period of Record
DL-01	5850710/ 628351	Daviault Lake – downstream portion near the outlet	June 2023 to August 2024
LL-01[(b)]	5863619/ 635536	Long Lake – downstream portion near the outlet	June 2023 to August 2024
MIL-01[(b)]	5855772/ 635414	Mills Lake – downstream portion near the outlet	June 2023 to August 2024
MOL-01	5853371/ 634007	Molar Lake – downstream portion near the outlet	August 2023 to August 2024
PL-01	5858813/ 632936	Pike Lake – downstream portion near the outlet	June 2023 to August 2024
RL-01	5858318/ 641130	Riordan Lake – downstream portion near the outlet	August 2023 to August 2024

Notes:

(a) UTM coordinates based on NAD83 Zone 19.

(b) Lake water levels were also measured from October 2011 to May 2012. Note that the locations of 2011-2012 and 2023-2024 lake water level monitoring stations were not the same. Location coordinates of 2011-2012 monitoring stations are provided in Appendix F.

Water levels were recorded at each of the monitoring stations using Van Essan DIVER water level dataloggers (i.e., non-vented pressure transducer loggers). The water level records were compensated for atmospheric pressure (via a DIVER Barologger).

The loggers were generally installed on steel posts (T-Posts) set into the channel bed, ideally in a pool upstream of a riffle or channel control. The typical installation of a water level monitoring station is shown in Appendix A,

Photograph 7. The loggers were attached to the T-Posts by a carabiner and eye bolt to remain at a fixed location above the channel bed. A removable polyvinyl chloride (PVC) casing was fitted over the DIVER loggers and locked to the T-Post to prevent both water level disturbance (by turbulence and wind action) and vandalism.

In most cases, the loggers were installed during the first field campaign in June 2023. However, the monitoring stations at Molar Lake (MOL-01) and Riordan Lake (RL-01) were established in August 2023 as access to these locations was not available during the June 2023 visit. For the purposes of this report, water level data at the various stations are discussed through to August 2024 (where possible), which corresponds with the final field campaign visit in 2024.

4.2.3 Flow Measurements

Manual flow measurements were collected during 2023 and 2024 surface water monitoring field visits to develop an understanding of the seasonal variation in flows within the Project site and local and regional watersheds. Manual flow measurement were undertaken at the stations listed in Table 4-3**Error! Reference source not found.** below and presented on Figure 3-1. Measured flows were also used to develop stage-discharge rating curve relationships (see Section 4.2.5).

Manual flow measurements were estimated using the velocity-area method. Representative channel cross-sections were generally established and marked with wooden stakes at each surface water station. A typical cross section set up is shown in Appendix A, Photograph 24. A tape measure was extended the length of each cross-section during each measurement event. Stream flow velocities and corresponding water depths were collected at various intervals along the cross-section: 0.1 m to 3 m spacing depending on the width of the watercourses. At most stream flow locations, velocity and depth measurements were obtained by wading channels or from atop crossing features. Current velocities were recorded with a Hach Flow Meter Model 950.1 at 60% of the total water depth for water depths less than 0.75 m and at 20% and 80% for depths greater than 0.75 m.

Manual flows had previously been undertaken in October 2011 (Stantec 2012) at five stream stations (located at selected streams). The historic results were reviewed and, where applicable, compared with 2023-2024 manual flow measurements at stations located in proximity of historic stations. All historic stations were found located in proximity of 2023-2024 manual stations except one historic station located at a small headwater watershed draining into Molar Lake. Table 4-3 provides details about stations located in proximity of historic stations. For detailed information, refer to Appendix F.

Table 4-3: Manual Flow Measurement Stations

Station ID	UTM Coordinates[a] Northing/ Easting	Description	Flow Measurement Event
WC-01[b]	5856192/ 632810	Unnamed stream – reporting to Pike Lake from the southwest	June 2023, August 2023, October 2023, March 2024, June 2024 and August 2024
WC-02[b]	5858897/ 632920	Unnamed stream – immediately downstream of Pike Lake Outlet	June 2023, August 2023, October 2023, March 2024, June 2024 and August 2024
WC-03[b]	5853179/ 634709	Unnamed stream – reporting to Mills Lake from the west	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-04	5855857/ 635378	Unnamed stream – reporting to Long Lake from the southwest	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-05	5854636/ 637507	Waldorf River – reporting to Long Lake from the south	August 2023, June 2024 and August 2024

Table 4-3: Manual Flow Measurement Stations

Station ID	UTM Coordinates[a] Northing/ Easting	Description	Flow Measurement Event
WC-06[b]	5856351/ 637511	Unnamed stream – reporting to Long Lake from the southeast	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-07	5858758/ 637921	Unnamed stream – reporting to Long Lake from the southeast	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-08	5860478/ 637962	Unnamed stream – reporting to Long Lake from the east	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-09	5863790/ 635635	Unnamed stream – immediately downstream of Long Lake Outlet	June 2023, August 2023 and August 2024
WC-10	5863449/ 632468	Walsh River - reporting to Long Lake from the northwest	June 2023 and August 2024
WC-11	5858315/ 641017	Unnamed stream – immediately downstream of Riordan Lake	October 2023, June 2024 and August 2024
WC-12	5848673/ 628202	Unnamed stream – immediately downstream of Daviault Lake	October 2023, June 2024 and August 2024
WC-13	5859809/ 640950	Proposed railway crossing – unnamed stream reporting to Elephant Head Lake from the east[a]	August 2024
WC-14	5860604/ 640077	Proposed railway crossing – unnamed stream reporting to Elephant Head Lake northwest[a]	August 2024
WC-15	5865198/ 641766	Proposed railway crossing – unnamed stream reporting Little Wabush Lake from the southeast[a]	August 2024
WC-16	5858663/ 640772	Proposed railway crossing – unnamed stream reporting to Elephant Head Lake from the southeast[a]	August 2024

Notes:

(a) UTM coordinates based on NAD83 Zone 19.

(b) Manual flows were also measured in October 2011 at a nearby historic station (Stantec 2012). Note that the locations of 2011-2012 and 2023-2024 manual flow stations were not the same. Location coordinates of 2011-2012 monitoring stations are provided in Appendix F.

4.2.4 Continuous Flow Monitoring

Continuous flow and/or water level monitoring was undertaken at the stations listed in Table 4-4 below and presented on Figure 3-1 to evaluate seasonal streamflow and lake level regimes for key surface water stations in the Project Site. Continuous water level and flow monitoring had previously been undertaken in 2011 through 2012 (Stantec 2012) at five stream stations (located at selected streams) and two lake stations (Mills Lake and Long Lake). The historic results were reviewed and, where applicable, compared with 2023-2024 water levels and flows at stations in proximity of historic stations. All historic stations were found located in proximity of 2023-2024 manual stations except one historic station located at a small headwater watershed draining into Molar Lake. Table 4-4 provides details about stations located in proximity of historic stations. For detailed information, refer to Appendix F.

Table 4-4: Continuous Flow and/or Water Level Stations

Station ID	UTM Coordinates[a] Northing/ Easting	Description	Period of Record
WC-01[b]	5856192/ 632810	Unnamed stream – reporting to Pike Lake from the southwest	June 2023 to August 2024
WC-02[b]	5858897/ 632920	Unnamed stream – immediately downstream of Pike Lake Outlet	June 2023 to August 2024
WC-03[b]	5853179/ 634709	Unnamed stream – reporting to Mills Lake from the west	June 2023 to August 2024
WC-04	5855857/ 635378	Unnamed stream – reporting to Long Lake from the southwest	June 2023 to August 2024
WC-05[c]	5854636/ 637507	Waldorf River – reporting to Long Lake from the south	June 2023 to August 2024
WC-06[b]	5856351/ 637511	Unnamed stream – reporting to Long Lake from the southeast	June 2023 to August 2024
WC-07	5858758/ 637921	Unnamed stream – reporting to Long Lake from the southeast	June 2023 to August 2024
WC-08	5860478/ 637962	Unnamed stream – reporting to Long Lake from the east	June 2023 to August 2024
WC-09	5863790/ 635635	Unnamed stream – immediately downstream of Long Lake Outlet	June 2023 to June 2024
WC-10	5863449/ 632468	Walsh River – reporting to Long Lake from the northwest	June 2023 to August 2024
WC-11[d]	5858315/ 641017	Unnamed stream – immediately downstream of Riordan Lake	August 2023 to August 2024
WC-12[e]	5848673/ 628202	Unnamed stream – immediately downstream of Daviault Lake	June 2023 to August 2024

Notes:

(a) UTM coordinates based on NAD83 Zone 19.

(b) Continuous water levels and flows were also measured from October 2011 to May 2012 at a nearby historic station (Stantec 2012). Note that the locations of 2011-2012 and 2023-2024 continuous water level and flow stations were not the same. Location coordinates of 2011-2012 monitoring stations are provided in Appendix F.

(c) GPS survey could not be completed due to lack of signal reception. The water levels at this station are tied to local benchmark.

(d) Continuous water levels were not recorded. Water level records from a nearby station RL-01 were used to develop flow hydrographs for WC-11.

(e) Continuous water levels were not recorded. Water level records from a nearby station DL-01 were used to develop flow hydrographs WC-12.

Water levels were recorded at each of the continuous flow monitoring stations using Van Essan DIVER water level dataloggers (i.e., non-vented pressure transducers) (loggers). The water level records were compensated for atmospheric pressure (via a DIVER Barologger) and combined with theoretical stage-discharge rating curves to generate continuous flow hydrographs. Details regarding the development of the various stage-discharge rating curves are provided in Section 4.2.5.

The loggers were generally installed with steel posts (T-Posts) set into the channel bed, ideally in a pool upstream of a riffle or channel control. The typical installation of a flow monitoring station is shown in Appendix A, Photograph 15. The loggers were attached to the T-Posts by carabiner and eye bolt to remain at a fixed location above the channel bed. A removable PVC casing was fitted over the DIVER loggers and locked to the T-Post to prevent both water level disturbance (by turbulence and wind action) and vandalism.

In most cases, the loggers were installed during the first field campaign in June 2023. However, the monitoring station at Riordan Lake (RL-01) was established in August 2023 as access to this location was not available during the June 2023 visit. For the purposes of this report, continuous flow and/or water level data at the various stations are discussed from installation through to mid-August, 2024 (where possible), which corresponds with the final field

campaign visit in 2024. Continuous water levels for WC-11 and WC-12 were collected at the upstream lake stations (i.e., RL-01, and DL-01). Due to the reliable outlet controls at these outlets, lake discharge was estimated by developing stage-discharge rating curves using lake water levels and manual flows collected downstream of the lake outlet.

The staff gauge at WC-09 was found damaged by ice and could not be reinstalled during June 2024 visit. As a result, water level data at this station was only available from June 08, 2023 to June 12, 2024.

4.2.5 Stage-Discharge Rating Curves

Manual flows, discussed in Section 5.4, were used to develop developed stage discharge rating curves, where applicable. The stage-discharge rating curves were obtained using the following power-law rating curve equation:

$$Q = a(y)^b$$

Where:

Q = stream flow rate (m^3/s)

y = water depth (m) calculated as $Y\text{-}Y_o$ (Y = measured water level and Y_o = water level in metres when no flow will occur (i.e., standing water level in the channel due to downstream control)

a and b = rating curve parameters (dimensionless)

As a general approach, measured flows, water levels, and channel geometry were obtained during the 2023 and 2024 field campaign visits at the various continuous flow monitoring stations and tied to elevations with respect to mean sea level using GPS survey, except at WC-05 where due to poor GPS signal reception, the water level data could not be tied to mean sea level. To estimate the rating curve parameters, an optimization technique was applied with appropriate bounds on rating curve parameters. Minimization of sum-of-square-of-error between the measured manual flows and calculated flows was used as an objective function.

During spring (June) 2024, water levels at some stations (WC-01, WC-02, WC-06, WC-07 and WC-08) were observed elevated without increase in associated flows. As a result, the flow and associated discharge did not align with the existing stage-discharge relationship. To account for such increase in water levels, additional stage-discharge relationships, to be used for spring 2024, were developed for each effected station.

Stage-discharge rating curves had previously been developed (Stantec 2012) for five stream stations (located at selected streams and outlets of Long Lake, Pike Lake and Mills Lake and Molar Lake). Stantec (2012) used Manning's equation to develop stage-discharge rating curves and the parameters of Manning's equation were determined using the hydrological monitoring results and the channel cross section profiles. For detailed information, refer to Appendix F.

4.2.6 Bathymetry and Lake Depth Surveys

Bathymetric surveys were carried out at Long Lake, Mills Lake, Pike Lake, and Riordan Lake, while lake depth surveys were conducted at Daviault Lake and Molar Lake. The bathymetric and lake depth survey data at these waterbodies were used to characterize the physical configuration of the system, as well as to identify where lake column profiling and water quality sampling would be conducted (refer to Sections 4.3.1 and 4.3.2).

In general, the bathymetric surveys were conducted with a 3 m zodiac boat that was fitted with a Lowrance sounder and Garmin GPS bulb. Data was collected along a series of transects based on the size of the water body at speeds of approximately 8 km/hr to 10 km/hr. The resulting water depth data were corrected for keel offset and, where possible, converted to elevation using local benchmarks (i.e., staff gauges) as an elevation reference. The data was

then gridded and contoured, and bathymetric maps were prepared for each lake showing water depth. Lake depth surveys were conducted by collecting a series of depth measurements for the sole purpose of locating lake basins and did not map the entire lake, as the bathymetry did.

Bathymetric data had previously been collected in 2012 (Stantec 2012) at Long Lake during March and April 2012 by drilling through ice cover and measuring depth with a weighted tape. The historic results were reviewed and, where applicable, compared with 2023-2024 bathymetry measurements. For detailed information, refer to Appendix F.

4.3 Water Quality

4.3.1 Water Column Profile Measurements

Lake column profiling was conducted at the various stations presented in Table 4-5 and on Figure 3-1 to characterize lake chemistry and physiology with depth at Daviault Lake, Long Lake, Mills Lake, Molar Lake, Pike Lake, and Riordan Lake. The selection of locations within the lakes for water column profiling included the deepest areas within the lake basins and/or sub-basins. Lake column profiling was conducted at all lake basin stations in 2023 (August and October) and 2024 (June and August), as well as at select locations in 2023 (June) and 2024 (March).

Table 4-5: Lake Column Profile Stations

Lake Basin	Station ID	UTM Coordinates[(a)] Northing/ Easting	Description	Approx. Water Depth (m)	Water Column Profile Events
Reference Lake	DL-02	5853048/ 629986	Daviault Lake – deepest location near the center	22	August 2023, October 2023, June 2024 and August 2024
Long Lake	LL-02	5859719/ 637173	Long Lake – deepest location near the center	28	June 2023, August 2023, October 2023, March 2024, June 2024 and August 2024
	LL-03	5861616/ 635757	Long Lake – second deepest location in the north	15	August 2023, October 2023, March 2024, June 2024 and August 2024
Mills Lake	MIL-02	5854958/ 635121	Mills Lake – deepest location near the north side	20	June 2023, August 2023, October 2023, June 2024 and August 2024
	MIL-03	5850640/ 635773	Mills Lake – second deepest location near the center	25	August 2023, October 2023, June 2024 and August 2024
Molar Lake	MOL-02	5850987 /632847	Molar Lake – near deepest location in the southwest	27	August 2023, October 2023, June 2024 and August 2024
Pike Lake	PL-02	5857541/ 632953	Pike Lake – deepest location near the center	9	June 2023, August 2023, October 2023, March 2024, June 2024 and August 2024
Riordan Lake	RL-02	5855616/ 641565	Riordan Lake – deepest location in the south	15	August 2023, October 2023, June 2024 and August 2024

Note: (a) UTM coordinates based on NAD83 Zone 19.

For each station, measurements of temperature, electrical conductivity (EC), pH, and dissolved oxygen (DO) were collected at 1-meter intervals throughout the water column using a Horiba Water Quality meter and YSI Multiparameter Water Quality Sonde. Water quality samples were obtained at the same time as the water column profiling measurements (Section 4.3.2).

Temperature affects physical mixing within the lake column (due to density differences of water at different temperatures). Physical mixing of a water column can occur when temperatures throughout the profile are isothermal. In comparison, thermal stratification (i.e., marked differences in near-surface and near-bed temperatures) offers resistance to lake turnover.

Electrical conductivity (EC) is a measure of the presence of ions within the water column, although the readings are non-specific (i.e., it cannot determine which ions are responsible for any observed increase). EC can affect physical mixing within the lake column since the ionic composition of water affects its density. In this assessment, the EC values are used to determine potential limitations on mixing processes within the water column, whereby chemical stratification (i.e., notable differences in near-surface and near-bed ion concentrations) provides resistance to lake turnover. EC is measured in microsiemens per centimetre (µS/cm).

Dissolved Oxygen (DO) is used as an indicator of lake turnover. Oxygen levels in the bottom waters of a lake are reduced during thermal stratification and replenished during turnover events (when oxygenated surface waters are mixed throughout the water column). Therefore, an increase in bottom water DO concentrations is an indication that turnover has occurred. DO is also used to identify potential changes in redox conditions within the lake column that accompany associated fluctuations between oxic and anoxic conditions, and, in turn, can affect metal mobility from lakebed sediments (i.e., release of metals bound to more labile sediment fractions). DO was measured in milligrams per litre (mg/L).

4.3.2 Water Quality Sampling

Water quality sampling was conducted at various watercourses and waterbodies (lake) in the Project Site. Water quality samples at the watercourse and lake basin stations were obtained by standard grab techniques using a Van Dorn discrete water sampler; at approximately 1 m below the water surface (NS = near-surface) and, where possible, approximately 1 m above the bed (NB = near-bed).

All water samples were stored in sample bottles and pre-charged (as required) with preservatives provided by the laboratory. Water quality samples were sent under chain of custody documentation to Bureau Veritas and analyzed for the following parameters:

- General parameters − pH, acidity, alkalinity, colour, electrical conductivity, hardness, dissolved organic carbon (DOC), total organic carbon, total dissolved solids (TDS), and total suspended solids;
- Anions and nutrients – ammonia, bromide, chloride, fluoride, nitrite, nitrate, nitrate plus nitrite, orthophosphate, phosphorus, reactive silica, and sulphate;
- Major cations, trace metals, and metalloids − aluminum, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, caesium, calcium, cerium, chromium, cobalt, copper, dysprosium, erbium, europium, gadolinium, gold, holmium, iridium, iron, lanthanum, lead, lithium, lutetium, magnesium, manganese, mercury, molybdenum, neodymium, nickel, palladium, phosphorus, platinum, potassium, praseodymium, rubidium, ruthenium, samarium, scandium, selenium, silicon, silver, sodium, strontium, sulfur, tellurium, terbium, thallium, thorium, thulium, tin, titanium , tungsten, uranium, vanadium, ytterbium, yttrium, zinc, and zirconium;
- Radionuclides – lead-210, polonium-210, radium-226, and thorium-230 for select locations;

- Surrogate recovery parameters – D10-Anthracene, D-14-Terphenyl, D8-Acenaphthylene, and D8-Naphthalene for select locations; and
- Polyaromatic Hydrocarbons (PAHs) – Acenaphthene, Acenaphthylene, Acridine, Anthracene, Benzo(a)anthracene, Benzo(b/j)fluoranthene, Benzo(k)fluoranthene, Benzo(g,h,i)perylene, Benzo(c)phenanthrene, Benzo(a)pyrene, Benzo(e)pyrene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, Perylene, Pyrene, and Quinoline for select locations.
- Biological Parameters – Fecal and total coliforms for Long Lake

Water quality sampling was conducted at the watercourse and lake stations described in Table 4-6 and presented on Figure 3-1. Water quality sampling had previously been undertaken by at watercourses and lake stations in 2011 through to 2012 in support of the previous EA process for the Kami Project. These historical results were reviewed and, where applicable, used for comparison purposes. In most cases, the water quality data at each of the applicable stations comprised a comprehensive suite of radionuclides, metals, anions, and general parameters. The overall results of the historical sampling results are discussed in Section 5.5.

Table 4-6: Water Quality Sampling Stations

Station ID	Description	Water Sampling Event
WC-01	Unnamed stream – reporting to Pike Lake from the southwest	June 2023, August 2023, October 2023, March 2024, June 2024 and August 2024
WC-02	Unnamed stream – immediately downstream of Pike Lake Outlet	June 2023, August 2023, October 2023, March 2024, June 2024 and August 2024
WC-03	Unnamed stream – reporting to Mills Lake from the west	June 2023, August 2023 (2), October 2023, June 2024 and August 2024
WC-04	Unnamed stream – reporting to Long Lake from the southwest	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-05	Waldorf River – reporting to Long Lake from the south	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-06	Unnamed stream – reporting to Long Lake from the southeast	June 2023, August 2023 (2), October 2023, June 2024 and August 2024
WC-07	Unnamed stream – reporting to Long Lake from the southeast	June 2023, August 2023 (2), October 2023, June 2024 and August 2024
WC-08	Unnamed stream – reporting to Long Lake from the east	June 2023, August 2023 (2), October 2023, June 2024 and August 2024
WC-09	Long Lake Outlet	June 2023, August 2023, October 2023, March 2024, June 2024 and August 2024
WC-10	Walsh River - reporting to Long Lake from the northwest	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-11	Unnamed stream – immediately downstream of Riordan Lake	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-12	Unnamed stream – immediately downstream of Daviault Lake	June 2023, August 2023, October 2023, June 2024 and August 2024
WC-13	Proposed railway crossing – unnamed stream reporting to Elephant Head Lake from the east[(a)]	October 2023 and August 2024
WC-14	Proposed railway crossing – unnamed stream reporting to Elephant Head Lake northwest[(a)]	October 2023 and August 2024

Table 4-6: Water Quality Sampling Stations

Station ID	Description	Water Sampling Event
WC-15	Proposed railway crossing – unnamed stream reporting Little Wabush Lake from the southeast[(a)]	October 2023 August 2024
WC-16	Proposed railway crossing – unnamed stream reporting to Elephant Head Lake from the southeast[(a)]	October 2023 and August 2024
DL-01	Daviault Lake – at staff gauge location	June 2024 and August 2024
DL-02	Daviault Lake – deepest location near the center	August 2023, October 2023 and June 2024, and August 2024
LL-02	Long Lake – deepest location near the center	June 2023, August 2023 (2), October 2023, March 2024, June 2024 and August 2024
LL-03	Long Lake – second deepest location in the north	August 2023, October 2023, March 2024, June 2024 and August 2024
MIL-02	Mills Lake – deepest location near the north side	June 2023, August 2023 (2), October 2023, June 2024, and August 2024
MIL-03	Mills Lake – second deepest location near the center	August 2023, October 2023, June 2024 and August 2024
MOL-02	Molar Lake – near deepest location in the southwest	August 2023, October 2023, June 2024, and August 2024
PL-02	Pike Lake – deepest location near the center	June 2023, August 2023, October 2023, March 2024, June 2024, and August 2024
RL-02	Riordan Lake – deepest location in the south	August 2023, October 2023, June 2024 and August 2024

Note: (a) Sampling was completed at this location based on an earlier design iteration of the proposed railway; and therefore, the sampling location does not align with the proposed railway alignment presented in Figure 3-1.

4.3.3 Sediment Quality Sampling

Sediment quality sampling was used to indicate the long-term water quality conditions, potential historic contaminant releases, aquatic / benthic community potential and health and the sensitivity of aquatic sediment to environmental changes. All sediment samples were stored in sample containers provided by the laboratory. Sediment samples were sent under chain of custody documentation to Bureau Veritas and analyzed for the following parameters:

- General parameters – moisture, texture (i.e., clay, sand, and silt);
- Anions and nutrients – total Kjeldahl nitrogen (TKN), nitrite, nitrate, nitrate plus nitrite, nitrogen, and total organic carbon (TOC); and
- Metals – aluminum, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, phosphorous, potassium, selenium, silver, sodium, strontium, tin, titanium, uranium, vandium, and zinc.

With few exceptions, water quality sampling was conducted at all stations in 2023 and 2024; while sediment quality sampling was conducted at selected stations in 2023 (June, August, and October), radionuclides and surrogate recovery parameters were only sampled and analyzed in August 2023.

Sediment quality sampling was conducted at the watercourse and lake stations described in Table 4-7 and presented on Figure 3-1. Sediment quality sampling had been previously undertaken at watercourses and lake stations in 2011 through to 2012 in support of the previous EA process for the Kami Project. These historical results

were reviewed and, where applicable, used for comparison purposes. In most cases, the sediment quality data at each of the applicable stations comprised a comprehensive suite of metals, anions, and general parameters. The overall results of the historical sampling results are discussed in Section 5.6.

Table 4-7: Sediment Quality Sampling Stations

Station ID	Description	Sediment Sampling Event
WC-01	Unnamed stream – reporting to Pike Lake from the southwest	June 2023, August 2023 and October 2023
WC-02	Unnamed stream – immediately downstream of Pike Lake Outlet	June 2023, August 2023 and October 2023
WC-03	Unnamed stream – reporting to Mills Lake from the west	June 2023, August 2023 and October 2023
WC-04	Unnamed stream – reporting to Long Lake from the southwest	June 2023, August 2023 and October 2023
WC-05	Waldorf River – reporting to Long Lake from the south	June 2023, August 2023 and October 2023
WC-06	Unnamed stream – reporting to Long Lake from the southeast	June 2023, August 2023 and October 2023
WC-07	Unnamed stream – reporting to Long Lake from the southeast	June 2023, August 2023 and October 2023
WC-08	Unnamed stream – reporting to Long Lake from the east	June 2023, August 2023 and October 2023
WC-09	Long Lake Outlet	June 2023, August 2023 and October 2023
WC-10	Walsh River – reporting to Long Lake from the northwest	June 2023, August 2023 and October 2023
WC-11	Unnamed stream – immediately downstream of Riordan Lake	October 2023
WC-12	Unnamed stream – immediately downstream of Daviault Lake	August 2023 and October2023
WC-13	Proposed railway crossing – unnamed stream reporting to Elephant Head Lake from the east[(a)]	October 2023
WC-14	Proposed railway crossing – unnamed stream reporting to Elephant Head Lake northwest[(a)]	October 2023
WC-15	Proposed railway crossing – unnamed stream reporting Little Wabush Lake from the southeast[(a)]	October 2023
DL-02	Daviault Lake – deepest location	August 2023 and October 2023
LL-02	Long Lake – deepest location	June 2023, August 2023 and October 2023
LL-03	Long Lake – second deepest location	August 2023 and October2023
MIL-02	Mills Lake – deepest location	June 2023, August 2023 and October 2023
MIL-03	Mills Lake – second deepest location	August 2023 and October 2023
MOL-02	Molar Lake – near deepest location	August 2023 and October 2023
PL-02	Pike Lake – deepest location	June 2023, August 2023 and October 2023
RL-02	Riordan Lake – deepest location	August 2023 and October 2023

Notes: (a) Sampling was completed at this location based on an earlier design iteration of the proposed railway; and therefore, the sampling location does not align with the proposed railway alignment presented in Figure 3-1.

4.4 Quality Assurance / Quality Control Procedures

A Quality Assurance / Quality Control program was implemented to verify that data collection, data entry, and data analysis were conducted with a high level of confidence. Quality Assurance / Quality Control of field data and data summary calculations consisted of:

- Reviewing and verifying field data on site, at the end of each day, and at the end of each field shift to maintain data quality and consistency;
- Field work in pairs to limit observational gaps;

- Transferring and backing-up field data and field photos to online databases and laptops regularly;
- Following the appropriate water quality sampling procedures and guidelines;
- Adhering to a strict chain of custody procedures when submitting samples for analysis at the laboratory;
- Water quality data checks included verifying values outside of expected ranges for each parameter; and
- Following best practices for logger installation and flow monitoring to maintain consistency and accuracy.

5.0 RESULTS

5.1 Meteorology

Mean daily temperatures and total daily precipitation at the ECCC meteorological station Wabush A are available from November 1960 to December 2023; however, the 10-year period (2014 – 2023) is presented in Table 5-1.

Table 5-1: Monthly Temperature and Precipitation Means at ECCC Wabush A (2014 to 2023)

Wabush A	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean Annual
2023 Temp (°C)	-21.7	-24.2	-10.2	-2.9	4.6	11.7	17.0	12.7	10.3	4.5	-8.8	-11.3	-1.5
10-yr Temp (°C) [(a)]	-21.7	-21.6	-14.1	-5.7	3.4	10.0	14.5	13.3	7.4	2.0	-8.4	-14.8	-3.0
5-yr Precipitation (mm)	13.3	15.5	25.2	36.6	58.1	89.1	92.8	107.1	66.3	57.5	34.2	42.2	638
10-yr Precipitation (mm)[(a)]	13.1	13.9	16.8	32.7	55.9	77.4	89.7	109.2	58.7	57.4	37.2	31.3	590

Note: (a) Mean 10-yr temperature and precipitation excluding 2014 data due to record gap for Jan to Sep and mean annual.

Average temperatures in 2023 were 1-2 °C warmer than the 10-year mean. The mean annual temperature in 2023 reflected this trend with a value of -1.5 °C compared to the 10-year mean of -3.0 °C. A comparison of 5-year mean annual precipitation with the 10-year mean annual precipitation shows 8% increase in precipitation in the recent 5-years, indicating increasing trend in annual precipitation.

Rainfall occurred on a frequent basis during the 2023-2024 investigation period. Five significant rainfall events (>15 mm in 24 hours) were recorded during period of record in 2023 (including June 28, 2023, August 9, 2023 and August 25, 2023 (26 mm, 30 mm and 21 mm, respectively), and September 6, 2023 (16 mm) and December 18, 2023 (25.5 mm)) and two were observed in 2024 (July 15, 2024 and July 18, 2024 (15.7 mm and 23.3 mm, respectively)). Monthly trends in temperature and precipitation during 2023 are presented in Table 5-2 below.

Table 5-2: 2023 Monthly Climate Trends

Month	Min Temperature (°C)	Mean Temperature (°C)	Max Temperature (°C)	Total Rain[(a)] (mm)	Total Snow[(a)] (mm)	Total Precipitation (mm)
January	-29.1	-21.7	-14.3	0	6.8	6.8
February	-32.5	-24.2	-15.8	0	9	9
March	-16.8	-10.2	-3.5	1.4	22.4	23.8
April	-9.7	-2.9	3.9	6.7	12.8	19.5
May	-2.1	4.6	11.3	33.2	0.2	33.6
June	5.1	11.7	18.3	77.6	0	77.6
July	10.9	17.0	23.0	65.4	0	65.4
August	7.8	12.7	17.6	114.1	0	114.1
September	4.6	10.3	16.0	69.8	0	69.8
October	0.8	4.5	8.1	66.8	6.5	73.3
November	-13.1	-8.8	-4.5	0	21.5	21.5
December	-16.0	-11.3	-6.5	25.5	16.4	41.9
Mean / Total	**-7.4**	**-1.5**	**4.5**	**460.5**	**95.6**	**556.1**

Note: (a) Total rainfall and total snow are estimated from total precipitation using a temperature threshold of 0ºC. When the daily temperature is > 0ºC, all precipitation is considered to be rainfall and when the temperature is ≤ 0ºC, all precipitation is considered to be snow.

With few exceptions, air temperature followed variations for the months and seasons monitored in 2023, noting the following key observations:

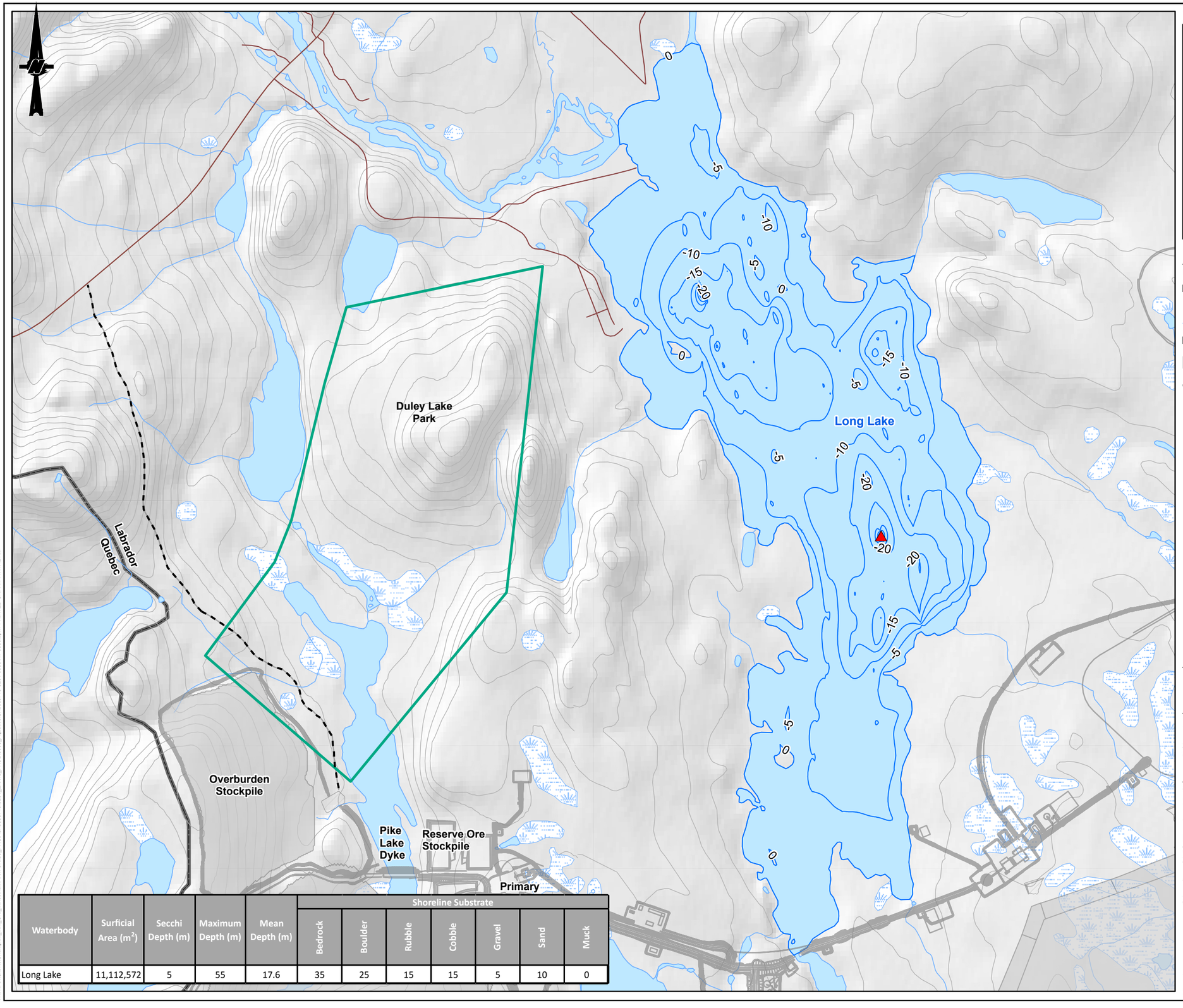
- Mean daily temperatures during spring of 2023 (June) ranged from approximately -4°C to 25°C, while corresponding mean daily temperatures in the summer of 2023 (early July 2023 to late August 2023) varied from approximately 7°C to 22°C.
- A consistent decline in mean daily air temperatures was noted from mid-September through late October 2023 (i.e., 10°C on September 15, 2023 to 0°C on October 24, 2023).
- February was the coldest month with an average temperature of -24°C and freezing temperatures persisted from January to mid-April.

5.2 Bathymetry and Lake Depth Surveys

Bathymetric mapping for Long Lake, Mills Lake, Pike Lake, and Riordan Lake is presented on Figure 5-1 through Figure 5-4. The general findings of the bathymetry surveys are as follows and form the basis of the water column profiling data.

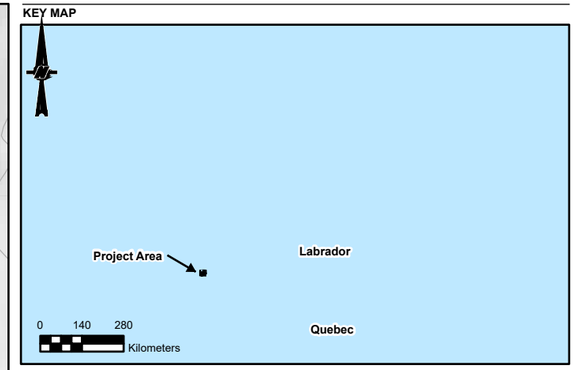
Long Lake is characterized by several basins with approximate depths between 20 m to 55 m (Figure 5-1). The deepest basin is situated near the middle of the lake, which is the location of water column profile station LL-02. The second deepest basin is located on the north-west side of the lake, which is the location of water column profile LL-03.

According to historic bathymetry results (Stantec 2012), the southern end of Long Lake is relatively shallow ranging in depth from <1 m to about 3.5 m and the lake deepens toward the north. Similar to historic results, 2023-2024 bathymetric survey results showed shallower depth (range approximately from <1 to 5 m) at southern end of the Long Lake and deeper depth towards the north. For detailed information, refer to Appendix F.



Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Shoreline Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Long Lake	11,112,572	5	55	17.6	35	25	15	15	5	10	0

KEY MAP



SCALE 1:20,000,000

LEGEND

PROJECT DATA
- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE
- Proposed Project Infrastructure
- Potential Access Road

BASEMAP INFORMATION
- Road
- Railway
- Watercourse
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Duley Lake Park

0 500 1,000 2,000
1:32,000 METRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 LONG LAKE BATHYMETRY

CONSULTANT

YYYY-MM-DD	2025-02-26
DESIGNED	----
PREPARED	GM
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	B	Figure 5-1

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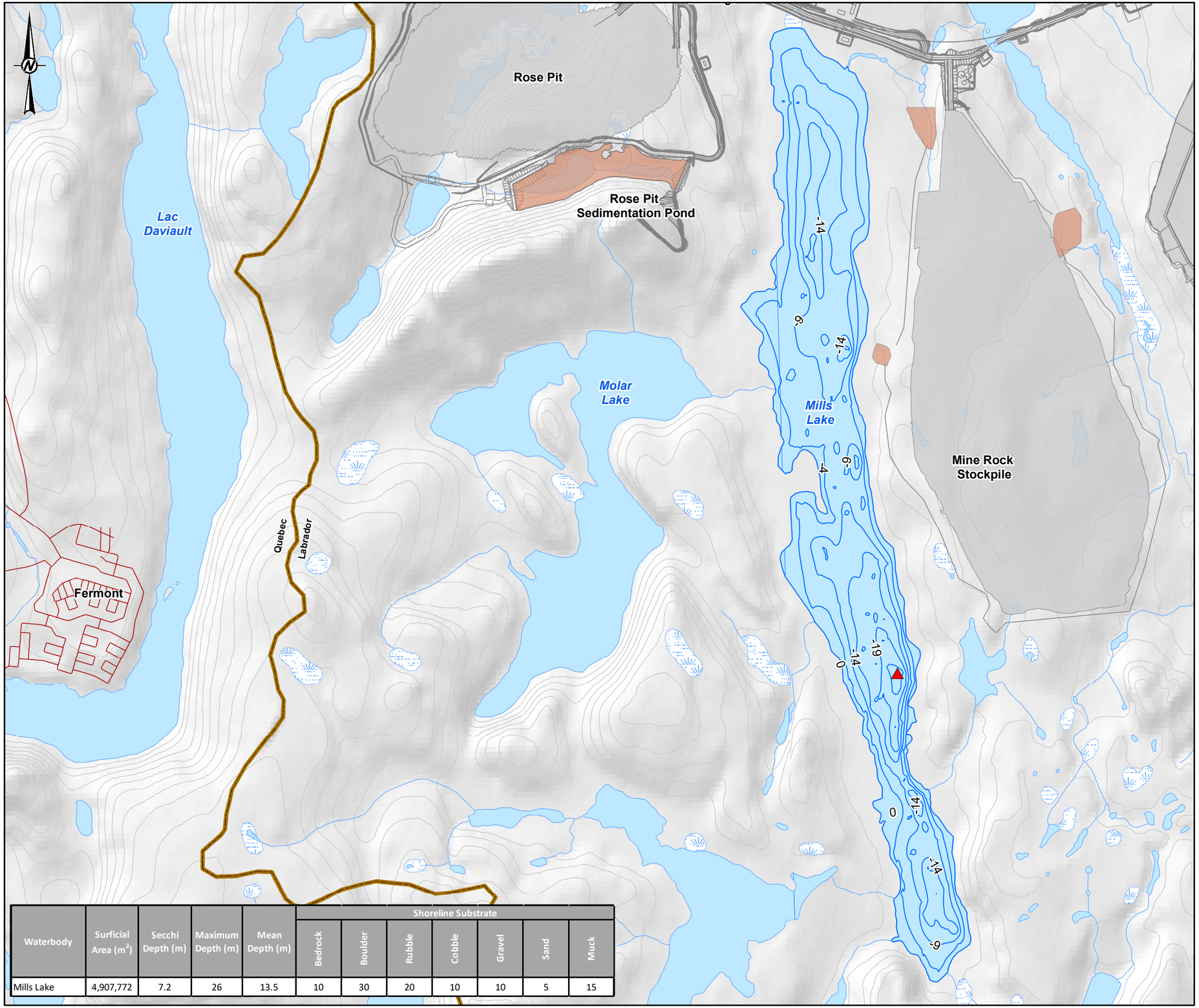
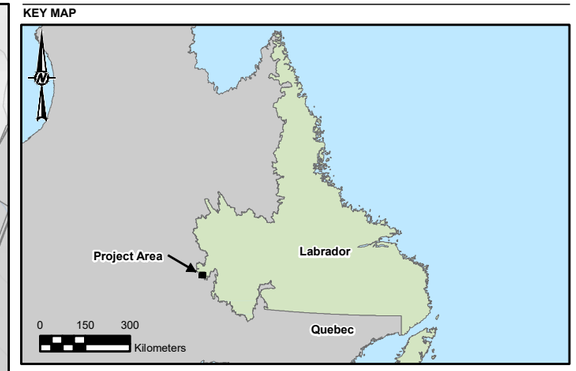


Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Shoreline Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Mills Lake	4,907,772	7.2	26	13.5	10	30	20	10	10	5	15

KEY MAP



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LEGEND

PROJECT DATA
- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE
- Proposed Infrastructure
- Project Infrastructure
- Proposed Sedimentation Pond

BASEMAP INFORMATION
- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 335 670 1,340
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NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 MILLS LAKE BATHYMETRY

CONSULTANT

YYYY-MM-DD	2024-11-04
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	A	Figure 5-2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
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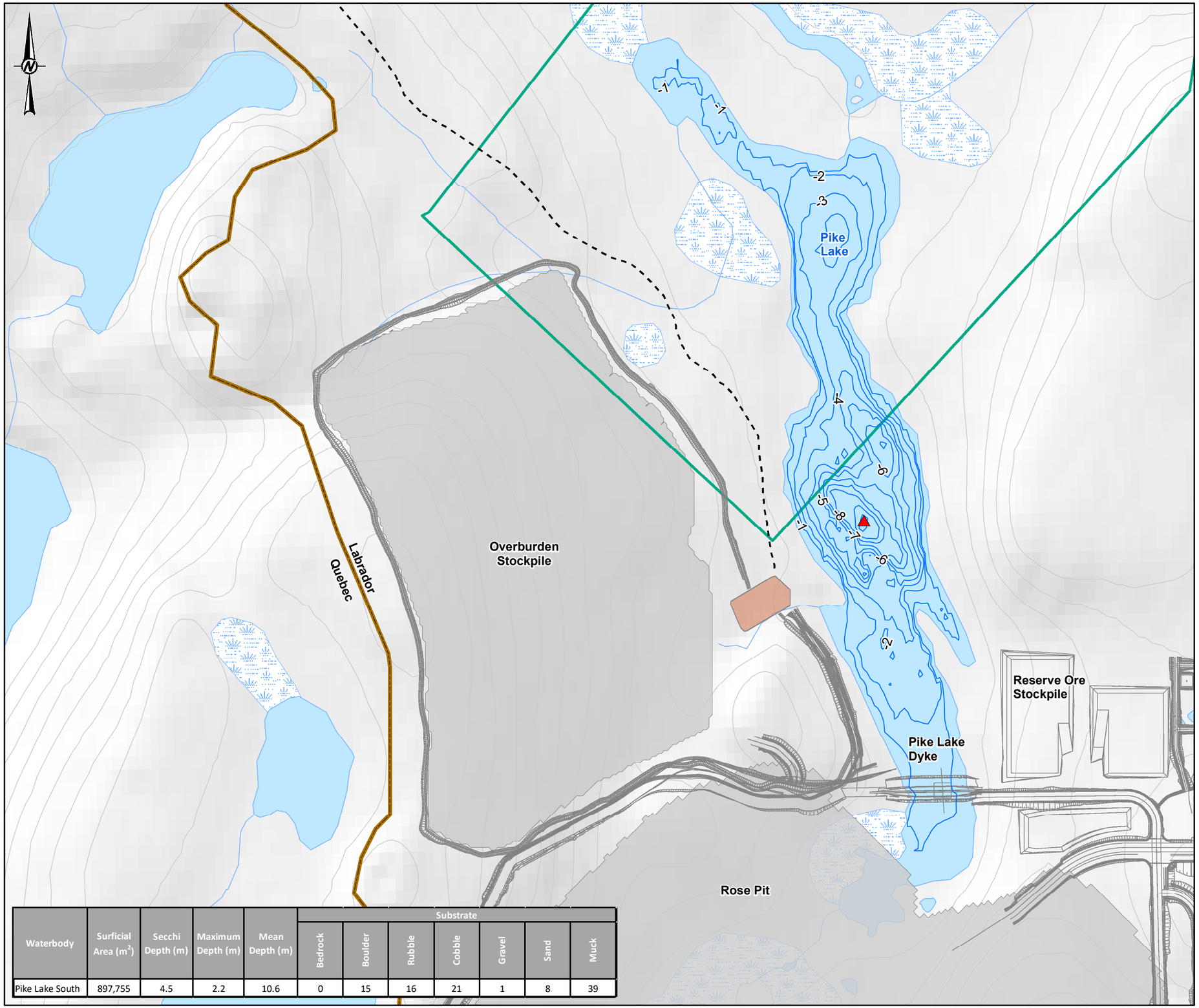
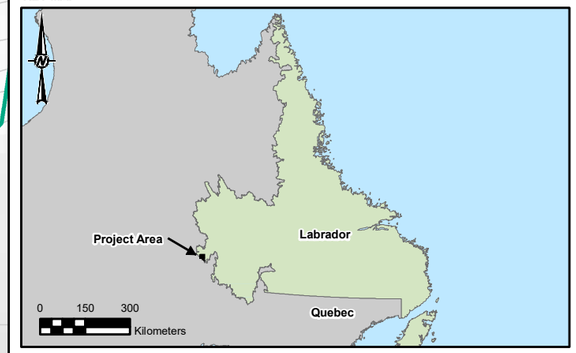


Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Pike Lake South	897,755	4.5	2.2	10.6	0	15	16	21	1	8	39

KEY MAP



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LEGEND

PROJECT DATA

- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE

- Proposed Infrastructure
- Proposed Infrastructure
- Proposed Sedimentation Pond
- Potential Access Road

BASEMAP INFORMATION

- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 137.5 275 550

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NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE PROJECT
WABUSH, NL

TITLE

2023 PIKE LAKE SOUTH BATHYMETRY

CONSULTANT

wsp

YYYY-MM-DD	2024-11-04
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	A	Figure 5-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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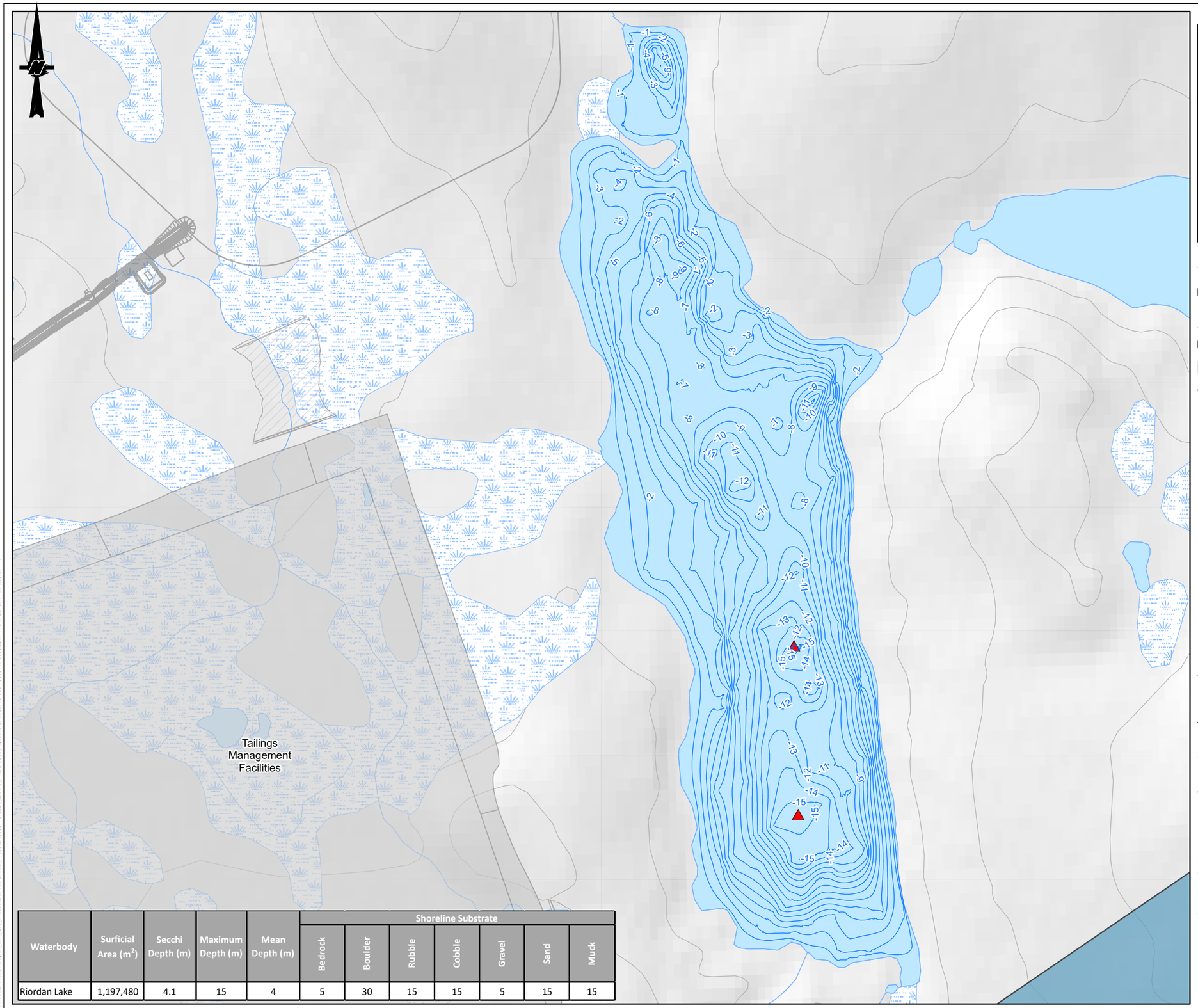
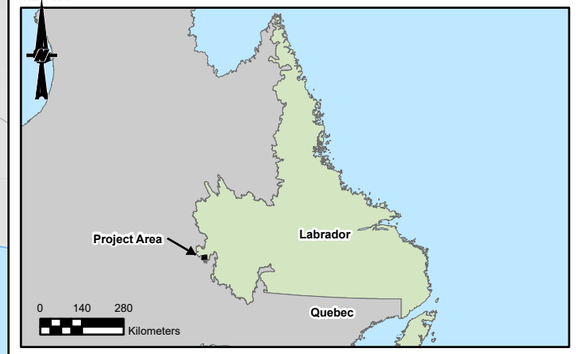


Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Shoreline Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Riordan Lake	1,197,480	4.1	15	4	5	30	15	15	5	15	15

KEY MAP



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LEGEND

PROJECT DATA
- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE
- Proposed Project Infrastructure
- Potential Access Road

BASEMAP INFORMATION
- Road
- Railway
- Watercourse
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Duley Lake Park
- Public Water Supply

0 200 400 800
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NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

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PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 RIORDAN LAKE BATHYMETRY

CONSULTANT

YYYY-MM-DD	2025-02-27
DESIGNED	----
PREPARED	GM
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	B	5-4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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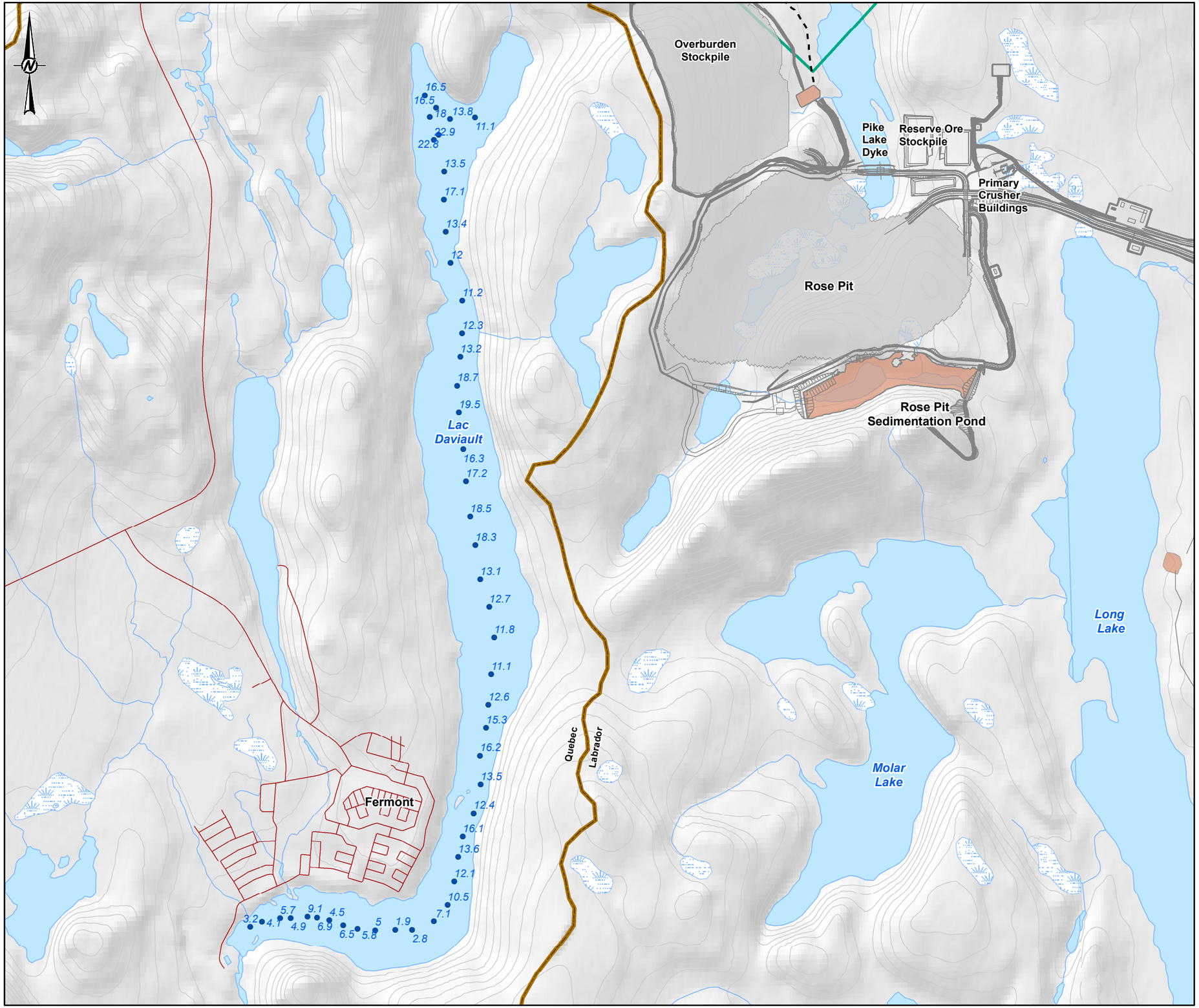
Mills Lake consists of three distinct deep basins on the respective north, central and south sides of the lake (Figure 5-2). The bathymetry of the northern and southern portions of the lake are relatively shallower depths from 9 m to 19 m, while the central portion of the lake includes several basins with an approximate maximum depth of 24 m. Water profiling stations MIL-02 and MIL-03 are located within the deepest and second deepest area of the lake.

Pike Lake is comprised of three basins on the respective north and central sides of the lake (Figure 5-3). The bathymetry of the northern portion consists of shallow depths from 1 m to 4 m, with changes in depth following relatively gradual transition from the surrounding shoreline areas to the basin. The bathymetry in the central portion of the lake includes a relatively deep basin with an approximate maximum depth of 10 m. Water profile station PL-02 is located at the deepest point of the lake.

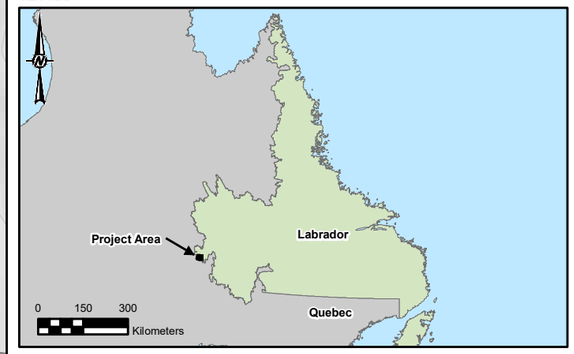
Riordan Lake is characterized by four relatively small basins with approximate maximum depths between 6 m and 14 m (Figure 5-4). The two basins to the south are comparatively deeper and located in the upstream portion of the lake, approximately 2.8 km from the outlet area. Water column profile station RL-02 is situated in one of two southern deepest basins.

Due to time constraints, lake depth surveys were completed at Daviault Lake and Molar Lake in place of bathymetry surveys. The purpose of the lake depth surveys was to find the deepest point along the center of the lake. The results of lake depth survey are presented on Figure 5-5 and Figure 5-6.

The deepest point in each lake was selected as the location for the water column profile measurements. Lake column profile station DL-02 is located at the north side of the lake, with an approximate maximum depth of 23 m; while MOL-02 is located at the south portion of the lake, with an approximate maximum depth of 28 m.



KEY MAP



SCALE 1:20,000,000

LEGEND

PROJECT DATA

- Deepest Point in Lake
- Depth Location

PROJECT INFRASTRUCTURE

- Proposed Infrastructure
- Proposed Infrastructure
- Proposed Sedimentation Pond
- Potential Access Road
- Proposed Access Road and Railway Corridor

BASEMAP INFORMATION

- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 335 670 1,340

1:32,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE PROJECT
WABUSH, NL

TITLE

2023 LAKE DAVIAULT DEPTH SURVEY

CONSULTANT

wsp

YYYY-MM-DD	2024-11-04
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	A	Figure 5-5

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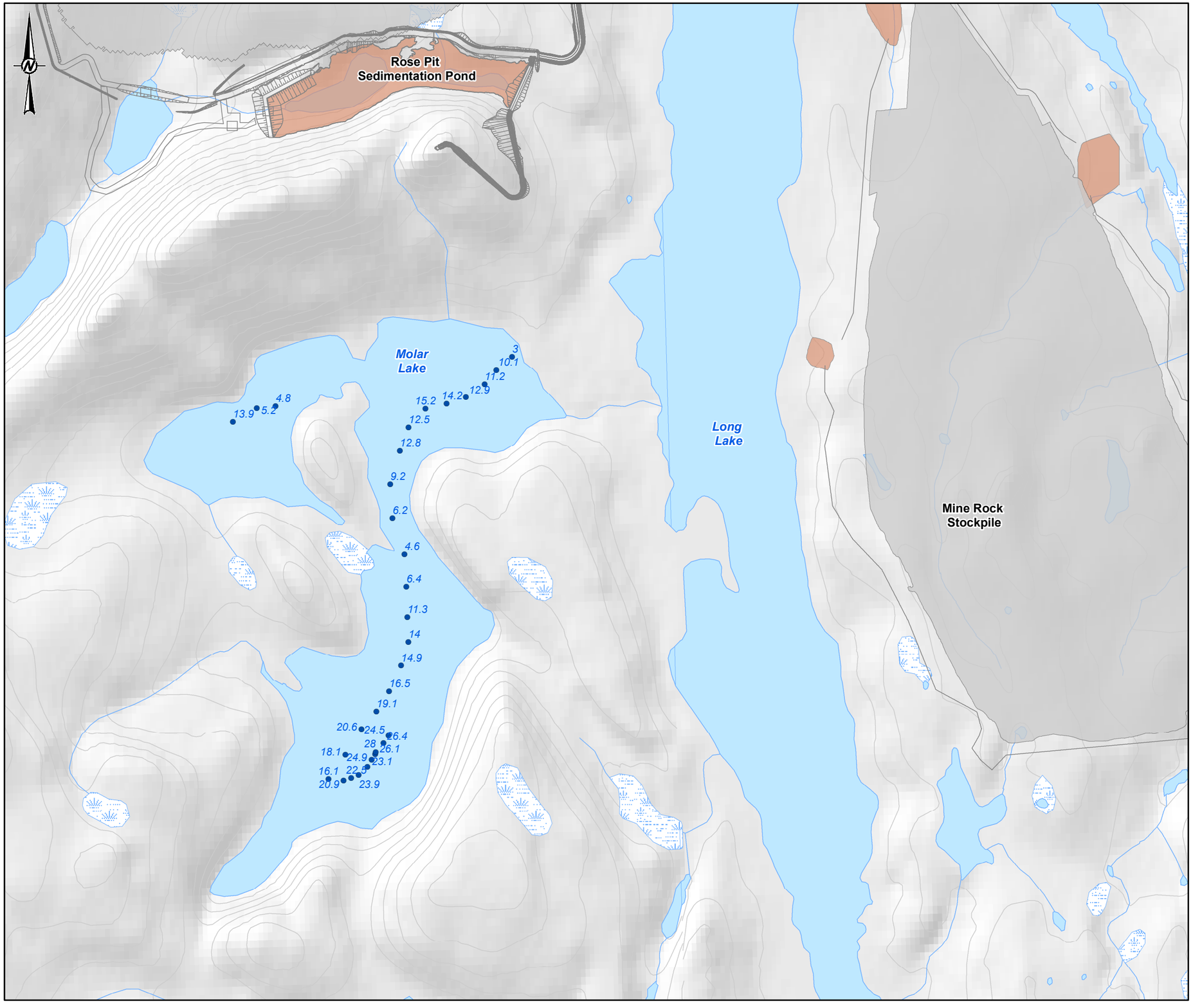
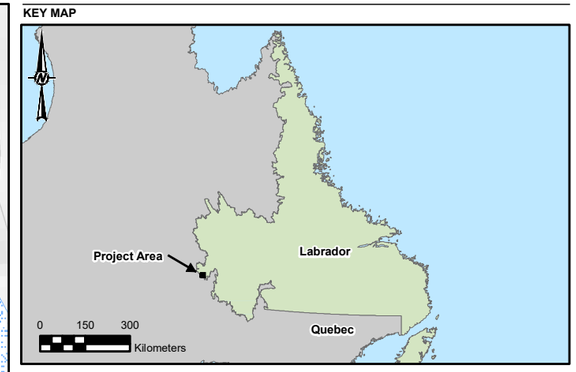


KEY MAP



SCALE 1:20,000,000

LEGEND

PROJECT DATA

- Deepest Point in Lake
- Depth Location

PROJECT INFRASTRUCTURE

- Proposed Infrastructure
- Proposed Infrastructure
- Proposed Sedimentation Pond
- Potential Access Road

BASEMAP INFORMATION

- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 225 450 900

1:21,244 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE PROJECT
WABUSH, NL

TITLE

2023 MOLAR LAKE DEPTH SURVEY

CONSULTANT

wsp

YYYY-MM-DD	2024-11-04
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	A	Figure 5-6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

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5.3 Lake Water Level Monitoring

To evaluate seasonal lake level regimes for key surface waterbodies (lakes) in the vicinity of the Kami Project, water level monitoring was undertaken at six lake stations (Daviault Lake outlet (DL-01), Long Lake outlet (LL-01), Mills Lake outlet (MIL-01), Molar Lake outlet (MOL-01), Pike Lake outlet (PL-01) and Riordan Lake outlet (RL-01). Water levels records reported herein were collected from June 2023 to August 2024, except at MOL-01 (Molar Lake) and RL-01 (Riordan Lake) where the records were available from August 2023 to August 2024 only.

Lake water level monitoring stations are listed in Table 4-2 and presented on Figure 3-1. The results of the monitoring are presented in Appendix B on the lake level hydrograph Figures B-1 to B-6. The results of water level monitoring at lake stations are as follows:

- During the period of record, the water level fluctuated 1.246 m at LL-01, 0.242m at MIL-01, 0.601 m at PL-01, 0.55 m at MOL-01, 0.86 m at DL-01 and 0.109 m at RL-01, noting that the water level records at MIL-01, RL-01 and PL-01, effected by freezing water, were not included to calculate the fluctuations.
- Due to data logger malfunction caused by freezing water, water level records at MIL-01 (from November 2023 to June 2024), RL-01 (from November 2023 to June 2024) and PL-01 (from November 2023 to February 2024), were affected. The records were characterized by data-noise and were excluded from analysis.
- In 2023, water levels were generally observed to gradually decrease from June to August, gradually increase from August to October in response to rain events and again gradually decrease in winter months.
- In 2024, the water levels were observed to gradually decrease from January to March and then increase from April and peaked in May. In May, a sudden increase in water levels was observed that persist throughout the month and started to decline relatively sharply from end-May to mid-June.
- In 2023, water level hydrographs at the lake stations were in correlation with major rain events generating higher water levels. Five main peaks were observed which appeared to correlate well with the prominent rain events discussed in Section 5.1.
- In 2024, increase in water levels in May could be attributed to spring freshest and / or beaver activity. After July 2024, water level hydrographs at the lake outlet stations showed correlation with major rain events (as discussed in Section 5.1) generating higher water levels like the trends in 2023, noting that 2024 rainfall data at Wabush Airport station did not show significant rainfall event prior to July 2024.
- The water levels at two lake stations (Long Lake and Mills Lake), generally reported a marked response to rain events. At Molar Lake, water level records showed unusual sudden fluctuations, similar to that of a pumped system with rapid withdrawal and release setup, and coupled with a general increase of lake level trend towards the fall 2023 followed by decrease of lake level trend towards spring 2024 before March 2024. Note that the water level fluctuations were observed higher from August 2023 to October 2023 compared to the rest of the recording period. At Pike Lake, water levels showed an unusual steady increase in the lake level after mid-August 2023 and appeared to continue to rise till the end of May 2024, which is not typical of hydrologic responses to rainfall events. Two beaver dams were observed during the October 2023 visit located at the outlet of Pike Lake, and a larger beaver dam (compared to previous visits) was also observed in August 2024, which likely were the cause of the increased water levels.
- Comparison of 2011-2012 historic water levels (Stantec 2012) at Mills and Long Lakes with the 2023-2024 water levels, at stations located in proximity of historic stations, showed similarity in range and / or season water level trends, noting that some deviation due to meteorological factors are generally expected in comparisons

with historic results. Like 2023-2024 water levels, historic water levels also indicated increase in water levels at lake stations due to spring freshet from mid-April to May. A station-wise comparison of water levels and flows is presented in Appendix F.

The water level monitoring results indicate that the lake stations were generally in correlation with rain events. Water levels were observed to gradually decrease from June 2023 to August 2023 (spring to summer), gradually increase from August 2023 to October 2023 (summer to fall) correlating with rain events, and then gradually decrease in winter months. Elevated water levels in May 2024 were indicative of spring freshet and / or beaver activity. The water levels at two lakes (Long Lake and Mills Lake), reported a marked response. At Molar Lake, water level records showed unusual sudden fluctuations, which are comparable to a pumped system with rapid withdrawal and release responses. At Pike Lake, water levels showed an unusual steady increase in the lake level after mid-August 2023, which likely was the caused by beaver dams, that were observed during the October 2023 and August 2024 visits, located at the outlet of Pike Lake. Water levels as high as 595.977 m and as low as 537.114 m were recorded at Molar Lake and Long Lake stations, respectively.

5.4 Flow Measurements

The manual flow measurement results are presented in Table 5-3. Manual flows were measured during each of the 2023 and 2024 field campaigns (where possible) except at railroad crossing stations (WC-13 to WC-16), where the flows were measured in August 2024 field visit only.

Table 5-3: Manual Flow Measurements (L/s)

Station ID	2023			2024		
	June (Spring)	August (Summer)	October (Fall)	March (Spring)	June (Spring)	August (Summer)
WC-01	57	150	110	44	93	44
WC-02	135	532	237	79	206	40
WC-03	110	209	164	-	391	163
WC-04	629	1,013	947	-	1,610	593
WC-05	(a)	189	(d)	-	570	138
WC-06	41	299	71	-	39	14
WC-07	244	780	302	-	101	31
WC-08	313	621	540	-	835	146
WC-09	13,802 (b)	19,551 (b)	(a)	-	(a)	7,076
WC-10	13,430 (b)	(a)	(a)	-	(a)	6,068
WC-11	(c)	(c)	230	-	532	170
WC-12	(c)	(c)	1,191	-	4,415	653
WC-13	-	-	-	-	-	8.6
WC-14	-	-	-	-	-	0.84
WC-15	-	-	-	-	-	1,953
WC-16	-	-	-	-	-	37

Notes:

(a) Data not available due to unsafe stream conditions.

(b) Flow measurements estimated with fewer than normal velocity readings.

(c) Data not available due to limited access during the monitoring event.

(d) Stagnant conditions.

The results of manual flow measurement are as follows:

- During 2023, manual flows were observed higher in August compared to June and October, noting that the August flow measurements followed major rainfall events in August.
- In 2023, measured flows ranged from 41 L/s (recorded in June at a stream discharging to Long Lake from southeast i.e., WC-06) to 19,551 L/s (recorded in August at the downstream of Long Lake outlet i.e., WC-09).
- In 2023, due to unsafe conditions (high water), manual flows could not be measured completely at WC-09 and WC-10 during each field visit (measurements from June and August were estimated with fewer than normal velocity readings due to deeper sections), and manual flows could not be measured at WC-05 during the June and October visits. The flows at WC-11 and WC-12 could not be measured during the June and August visits due to access constraints.
- In 2024, manual flows were observed higher in June compared to the March and August, noting that during March the flows were measured only at WC-01 and WC-02.
- In 2024, measured flows ranged from 14 L/s (recorded in August at a stream discharging to Long Lake from the southeast i.e., WC-06) to 7,076 L/s (recorded in August at downstream of Long Lake outlet i.e., WC-09), noting that the June flow at WC-09 which could not be measured was expected to be even higher.
- In June 2024, due to unsafe conditions (high water), manual flows could not be measured at WC-09 and WC-10.
- In 2024, manual flows were also measured at railroad crossing stations (WC-13 to WC-16). The flows ranged from 0.836 L/s at WC-14 to 1,953 L/s at WC-15.
- Comparison of 2011-2012 historic flows (Stantec 2012) with the 2023-2024 flows, at stations located in proximity of historic stations, showed that the historic flows were generally close to and / or within that range observed in 2023-2024, noting that some deviation due to meteorological factors are generally expected in comparisons with historic results. A station-wise comparison of flows is presented in Appendix F.

The manual flow readings are based on a specific point in time; hence, it is difficult to account for hydrological lag times between stations because of storage and/or time of concentration effects. The continuous flow monitoring results provide a more comprehensive evaluation of the characteristics of flow regime for the broader investigation period. However, where applicable, the manual flow rates are referenced to support observations and inferences related to water quality trends.

5.4.1 Continuous Water Level/Flow Monitoring

Twelve additional monitoring stations in the vicinity of the Project were also established to monitor both water levels and flows. These stations were installed at watercourses and lake outlets. These stations were undertaken to evaluate the seasonal water level and flow regimes. To generate flow hydrographs using the continuous water level records, stage-discharge rating curves were developed using flow measurements, noting that for some stations (WC-01, WC-02, WC-06, WC-07 and WC-08) an addition stage-discharge rating curve, to be used in spring 2024, was developed. The transition to spring 2024 stage-discharge rating curves were based on field observation and professional judgement. Stage-discharge rating curves are presented in Appendix C with associated details.

Water level and/or flow hydrographs at watercourse and lake outlet stations are presented in Appendix B on Figures B-7 through B-18. The results of water level and flow monitoring are as follows:

- Water levels records reported herein were collected from June 2023 to August 2024, except at station WC-09 where, due to a damage to staff gauge caused by ice, the records were only available from June 2023 to June 2024.
- Water level fluctuations at watercourse and lake outlet stations ranged from 0.29 m to 1.569 m. The lowest and the highest water level fluctuations were recorded at WC-04 and WC-09, respectively.
- Similar to the lake outlet water levels, stream water levels were generally observed to gradually decrease from June 2023 to August 2023 and then, gradually increase from August 2023 to early fall 2023 followed by gradual decrease in the winter months of 2023 and 2024 (November to March).
- In 2024, the water levels were observed to generally increase from April that peaked in May. In May, a sudden increase in water levels were observed that persist throughout the month and started to decline relatively sharply from end-May to mid-June.
- In 2023, flows and/or water level hydrographs at the watercourse and lake outlet stations were in correlation with rain events generating moderate to high flows.
- In 2024, increase in water levels/flows in May could be attributed to spring freshest and / or beaver activity. After July, water level hydrographs at the lake outlet stations showed correlation with major rain events generating higher water levels like the trends in 2023, noting that 2024 rainfall data at Wabush Airport station did not show significant rainfall event prior to July 2024.
- Additional stage-discharge rating curves, to be used during spring 2024, were developed for WC-01, WC-02, WC-06, WC-07 and WC-08. To generate a hydrograph for stations with two stage-discharge rating curves, the transition from normal stage-discharge rating curve to the spring 2024 stage-discharge rating curve were based on field observation and professional judgement.
- Most watercourse water levels exhibited a marked, but gradual response to major rain events. Only three watercourse stations WC-01 (stream discharging to Pike Lake from the southwest), WC-06 and WC-07 (both located on streams discharging to Long Lake from the southeast) exhibited rapid and flashy hydrologic response to precipitation events characterized by higher peaks with steep rising and falling limbs.
- As discussed above, major water level changes were observed in May 2024. The increase in water levels in May could be attributed to spring freshest and / or beaver activity. Other than May 2024, no major water level changes were observed downstream of watercourse stations (i.e., due to beaver and/or debris accumulation), with the exception of WC-03 that showed sudden minor drop in observed water level in the mid to late June 2023 and July 2024, and WC-02 that showed sudden minor drop in observed water level in the late July 2024.
- Flow hydrographs generated using stage-discharge rating curves showed that the peak flows could range from 556 L/s (estimated at WC-01) to 87,870 L/s (estimated at WC-09), noting that the peak flows were influenced by spring freshet.
- Comparison of 2011-2012 historic water levels and flows (Stantec 2012) with the 2023-2024 water levels and flows, at stream stations located in proximity of historic stations, showed similarity in range and / or season water level trends, noting that some deviation due to meteorological factors are generally expected in comparisons with historic results. Like 2023-2024 water levels, historic water levels also indicated increase in

water levels at stream stations due to spring freshet from mid-April to May. A station-wise comparison of water levels and flows is presented in Appendix F.

Watercourse station water levels correlated with rain events and were observed to gradual decrease in the June 2023 to August 2023, and then gradual increase from August 2023 to October 2023 followed by gradual decrease in the winter months of 2023 and 2024. Major water level changes were observed in May 2024 were indicative of spring freshet and / or beaver activity. Most stream station water levels exhibited a noticeable, but gradual, response to major rain events. Only three stream stations WC-01 (stream discharging to Pike Lake from the southwest), and WC-06 and WC-07 (both located on streams discharging to Long Lake from the southeast) exhibited rapid and flashy hydrologic response to rainfall events characterized by higher peaks with steep rising and falling limbs. Water levels as high as 588.18 m and as low as 536.5 m were recorded at WC-11 and WC-09, respectively.

5.4.2 Stage-Discharge Rating Curves

Stage-discharge rating curves for watercourse and lake outlet stations are presented in Appendix C, Table C-1 and Figures C-1 through C-4. Stage discharge rating curves were developed using manual flow measurements, where applicable, and were used to generate flow hydrographs from the water level records. Note that rating curves for stations with fewer than three manual flow measurements are also presented herein with lower level of confidence.

During spring (June) 2024, lake water levels were found elevated at WC-01, WC-02, WC-06, WC-07 and WC-08 without expected increase in associated flows, thus effecting the stage-discharge relationships at these stations. The overall increase in water levels was attributed to spring freshet and / or beaver activity and to account for such unexpected increase in water levels, a 2nd stage-discharge rating curve, to be used in spring 2024, was developed for each effected station.

The stage-discharge rating curves at each station generally matched well with the measured manual flows and associated water levels. At a few stations, minor variations between measured and calculated flows at low and medium flows were observed, noting that significant rain events were observed during 2023 and 2024. It is suspected that the peak runoff resulting from the significant rainfall events, could have flushed beaver dams and/or redistributed debris accumulated in the watercourses and thus, afterward, could have slightly changed the hydraulic response of some watercourses to the flows and associated water levels.

Historic stage-discharge rating curves (Stantec, 2012) were presented as figures only; no stage-discharge relationship was provided. Historic curves were developed using Manning's equation (i.e., theoretical approach) instead of measured flow data and therefore no comparison of historic stage-discharge rating curves and 2023-2024 stage-discharge rating curve was made.

5.5 Water Quality

5.5.1 Historic Water Quality Results

Historic results of water quality sampling that was previously undertaken from 2011 to 2012 (Stantec 2012) were reviewed to understand the baseline conditions of that period and if there were any significant changes. Historic water quality samples were generally collected from seven (7) stations in the vicinity of the Kami Project from October 2011 to May 2012, noting in April 2012 an additional ten (10) samples were collected. A summary of Stantec (2012) sampling events, sampling stations, water quality results and comparison with 2023-2024 water quality results is provided in Appendix F.

2011-2012 water quality results were generally observed to range and average similar to 2023-2024 water quality results, noting that 2023-2024 water quality sampling events and number of samples were greater than historic

2011-2012 sampling data. A discussion on the comparison of historic results with 2023-2024 water quality results is provided in Section 5.5.6.

Historic water quality parameters including general constituents, nutrients and metals were noted below CCME guidelines (CCME 1999a) except a few exceedances above thresholds. Specific details of exceedances are as follows:

- One pH value of 5.67 was observed in composite sample on Molar Lake, however in-situ spot pH indicated value of 7.77.
- Total cadmium exceedances of the hardness adjusted Canadian water quality guideline limits were observed at the exit of Pike Lake, south watershed in October 2011. Additional exceedances were observed in the Waldorf River, the southeast side of Long Lake, and the southwest side of Long Lake in April 2012.
- Total copper exceedance was observed on the eastern side of Mills Lake during the October 2011 sampling with a value of 2.4 µg/L, exceeding the minimum threshold of 2 µg/L.
- Total iron exceedance was observed at the exit of Pike Lake south headwater during the March 2012 sampling with a value of 493 µg/L, exceeding the threshold of 300 µg/L.

5.5.2 Water Column Profile Measurements

Water column profile measurements from the sampling rounds in 2023 (June, August and October) and 2024 (March, June and August) are presented in Appendix D on Figures D-1 through D-16 . The results of the water column profiling investigations are summarized below. Descriptions related to ‘stratification’ generally refer to water column profile conditions marked by an epilimnion (warm, less dense upper layer) and hypolimnion (cool, more dense lower area). The water column measurements of particular focus herein include temperature, electrical conductivity (EC), dissolved oxygen (DO) and pH.

Temperature

Water column profile measurements at each of the lake basin stations demonstrated steady and gradual development of thermally stratified conditions from June 2023 to August 2023, followed by the decay of thermally stratified conditions from August 2023 to October 2023. The progression of thermal stratification at each of the lake profile stations was relatively consistent with observed air temperatures trends (i.e., steady increase in air temperatures from mid-May 2023 to mid-June 2023 followed by mostly stable and warm conditions through the early to mid-August 2023, and subsequent decrease in air temperatures from mid-August 2023 through October 2023. The results of temperature profiles are as follows:

- June 2023 – Temperature profiles at each station in the spring were weakly stratified and characterized by slight warming in the upper 3 to 9 m of the water column followed by mostly isostatic conditions or a steady decreasing pattern through the intermediate layers of the water column, noting:
  - Near-surface temperatures ranged from 20°C to 21°C at Long Lake (LL-02) and Mills Lake (MIL-02), however, at Pike Lake (PL-02) it was observed elevated to 25°C.
  - Near-bed temperatures ranged from 14°C to 16°C at Long Lake (LL-02) and Mills Lake (MIL-02), however at Pike Lake (PL-02) it was observed elevated to 19°C.
- August 2023 – Thermal conditions at each lake basin station in August 2023 were well stratified and included a marked thermocline through the intermediate layers of the water column (in general between 4 and 10 m below surface), noting:

- Near-surface temperatures in the upper 3 to 4 m of the profile were relatively uniform and ranged approximately from 16°C to 17°C at Daviault Lake (DL-02), Long Lake (LL-02 and LL-03), Mills Lake (MIL-02 and MIL-03), Molar Lake (MOL-02), and Riordan Lake (RL-02), while at Pike Lake (PL-02) temperatures ranged approximately from 21°C to 24°C. This temperature difference is explained by the smaller size and shallower depth of Pike Lake compared to the rest of the lakes.
- Near-bed temperatures at depths of generally 7 m or more, where applicable and in most cases, followed a gradual decline from approximately between 16°C and 10 °C to roughly 6°C with relatively warmer near-bed water temperatures of between 8°C and 9°C at Long Lake (i.e., LL-02 and LL-03), Mills Lake (i.e., MIL-02 and MIL-03), and Pike Lake (i.e., PL-02).

- October 2023 – Observed lake column conditions at each of the sampling locations in October 2023 were indicative of physical mixing via partial or complete turnover and included near-vertical trends in each of the measured parameters for a large portion of the respective profiles, noting:
  - Near-bed and near-surface temperatures at lake stations ranged approximately from 7°C to 9°C.
  - The extent of physical mixing at the various lake basin stations in October 2023 was as follows:
  - Complete turnover in the upper layers of Daviault Lake at the time of the sampling round (Appendix D, Figure D-1), nothing that due to unsafe conditions, a shallower location was profiled.
  - Complete turnover in each lake basin station of Long Lake (LL-02 and LL-03), Mills Lake (MIL-02 and MIL-03), Molar Lake (MOL-02), Pike Lake (PL-02), and Riordan Lake (RL-02) at the time of sampling in late October 2023 (Appendix D, Figures D-2 through D-8).
- March 2024 – Temperature profiles at each station in March 2024 were weakly stratified and characterized by slight warming in the upper 2 to 3 m of the water column followed by mostly isostatic conditions or a steady increasing pattern through the intermediate layers of the water column towards the bed, noting:
  - Near-surface temperatures ranged from 0.6°C to 1.3°C at Long Lake (LL-02), 0.3°C to 1.4°C at Long Lake (LL-03), and -0.1°C to 2.1°C at Pike Lake (PL-02).
  - Near-bed temperatures ranged from 3°C to 4°C at Long Lake (LL-02), 2°C at Long Lake (LL-03), and 3°C at Pike Lake (PL-02).
- June 2024 – Temperature profiles at each station in June 2024 showed initiation of stratification. Overall, the profiles were found weakly stratified and characterized by slight warming in the upper 1 to 2 m of the water column followed by mostly isostatic conditions or a steady decreasing pattern through the upper and intermediate layers of the water column, noting:
  - Near-surface temperatures ranged from 18°C to 12°C at Long Lake (LL-02, LL-03) and Molar Lake (MOL-02), 17°C to 14°C at Riordan Lake (RL-02), 19°C to 18°C at Mills Lake (MIL-02), 15°C to 10°C at Mills Lake (MIL-03), 14°C to 8°C at Daviault Lake (DL-02) and 20°C to 19°C at Pike Lake (PL-02).
  - Near-bed temperatures ranged from 4°C to 5.5°C at Long Lake (LL-02, LL-03), Mills Lake (MIL-02, MIL-03), Molar Lake (MOL-02), Daviault Lake (DL-02), and Riordan Lake (RL-02), however at Pike Lake (PL-02) it was observed elevated to 6°C.

- August 2024 – Thermal conditions at each lake basin station in August 2024 were well stratified and included a marked thermocline through the intermediate layers of the water column (in general between 4 and 10 m below surface), noting:
  - Near-surface temperatures in the upper 3 to 4 m of the profile were relatively uniform and ranged approximately from 16°C to 18°C at Daviault Lake (DL-02), Long Lake (LL-02 and LL-03), Molar Lake (MOL-02), and Pike Lake (PL-02), while at Mills Lake (MIL-02 and MIL-03) and Riordan Lake (RL-02) temperatures ranged approximately from 18°C to 20°C. This temperature difference is explained by the smaller size of Mills Lake and Riordan Lake compared to the rest of the lakes.
  - Near-bed temperatures at depths of generally 7 m or more, where applicable and in most cases, followed a gradual decline from approximately between 17°C and 12°C to roughly 7°C with relatively warmer near-bed water temperatures of between 8°C and 10°C at Mills Lake (MIL-02), Pike Lake (PL-02), Long Lake (LL-03), and Riordan Lake (RL-02). Relative colder near-bed water temperatures of 5°C were recorded at Molar Lake (MOL-02).

Electrical conductivity

Water column profiles at lake basin stations showed increase in EC from June 2023 to August 2023 followed by decrease in EC from August 2023 to October 2023. The results of EC profiles are as follows:

- June 2023 – EC profiles at Long Lake (LL-02), and Mills Lake (MIL-02) were relatively consistent over depth and generally ranged from 52 µS/cm to 58 µS/cm, except one near-bed EC value at Pike Lake (PL-02) that spiked to 95 µS/cm.
- August 2023 – Like the June 2023, EC profiles at all stations were relatively consistent over depth and generally ranged from 50 µS/cm to 86 µS/cm, noting that a few near-bed EC values higher than the observed range were found at Pike Lake (PL-02) and Riordan Lake (RL-02). At Pike Lake (PL-02), a few near-bed EC values were found elevated and increased from 83 µS/cm at 6 m to 119 µS/cm at 9 m. Similarly, at Riordan Lake (RL-02), a few near-bed EC values were also found elevated and increased from 86 µS/cm at 12 m to 146 µS/cm at 15 m. Furthermore, at Molar Lake (MOL-02), near-bed EC value increased from 62 µS/cm at 26 m to 70 µS/cm at 27 m (i.e., a modest increase of 8 µS/cm over a depth of 1 m).
- October 2023 – EC profiles at all stations were consistent over depth and generally ranged from 50 µS/cm to 84 µS/cm, noting that a few relatively higher near-bed EC values were observed at Mills Lake (MIL-03) and Molar Lake (MOL-02). At Mills Lake (MIL-03) and Molar Lake (MOL-02), near-bed EC values increased from 71 µS/cm at 24 m to 76 µS/cm at 25 m, and 59 µS/cm at 26 m to 72 µS/cm at 27m, respectively.
- March 2024 – The EC profile at Long Lake (LL-03) was relatively consistent over depth and generally ranged from 77 µS/cm to 73 µS/cm. EC profiles at Long Lake (LL-02) and Pike Lake (PL-02) showed strong to moderate stratification, respectively. At Long Lake (LL-02), EC ranged from 77 µS/cm to 91 µS/cm near-surface (10 m below surface) and 94 µS/cm to 132 µS/cm near-bed (10 m above bed). Similarly, at Pike Lake (PL-02), EC ranged from 107 µS/cm near-surface to 141 µS/cm near-bed.
- June 2024 – The EC profile at Daviault Lake (DL-02) was relatively consistent over depth and generally ranged from 46 µS/cm to 47 µS/cm. EC profiles at Long Lake (LL-02, LL-03) and Mills Lake (MIL-02, MIL-03) were also consistent and generally ranged from 70 µS/cm to 63 µS/cm. The EC profile at Molar Lake (MOL-02) ranged from 58 µS/cm to 56 µS/cm. Similarly, at Riordan Lake (RL-02), the EC profile was consistent over depth and ranged from 77 µS/cm to 79 µS/cm. Further, at Pike Lake (PL-02), near-surface EC decreased from 53 µS/cm at 1 m to 50 µS/cm at 3 m, and at near-bed, EC increased from 52 µS/cm at 6 m to 59 µS/cm at 9 m.

- August 2024 – Like June 2024, EC profiles at all stations were relatively consistent over depth and generally ranged from 50 µS/cm to 76 µS/cm, noting that EC values ranged from 83 µS/cm to 84 µS/cm at Riordan Lake (RL-02). At Pike Lake (PL-02), a few near-bed EC values were found elevated and increased from 72 µS/cm at 6 m to 90 µS/cm at 9 m.

Dissolved Oxygen

Water column profiles at lake basin stations showed a general increase in DO values towards October 2023. DO profiles in June 2023 and October 2023 were relatively consistent across the depth, noting that a few low near-bed DO values were observed in some lakes. In August 2023, DO profiles demonstrated vertical variations and showed marked differences between the near-surface and near-bed DO values. The results of DO profiles are as follows:

- June 2023 – DO profiles at Long Lake (LL-02), Mills Lake (MIL-02) and Pike Lake (PL-02) were generally consistent across depth, noting a few near-bed DO values at Pike Lake showed decline towards the bed of the lake. DO values generally ranged from 6 mg/L to 9.8 mg/L, except two near-bed DO values at Mills Lake (MIL-02) and Pike Lake (PL-02) that were found lower than the observed range. At Mills Lake (MIL-02), near-bed DO at a depth of 20 m was 4.67 mg/L. At Pike Lake (PL-02), near-bed DO values showed decreasing trend and reduced from 8.26 mg/L at 5 m to 0.22 mg/L at 9 m.
- August 2023 – DO profiles at all stations showed a gradual decrease in DO values towards the bed of the lakes. DO values generally ranged from 5.8 mg/L to 10 mg/L, noting that a few near-bed DO values lower than the observed range and below 5.5 mg/L were found at Long Lake (LL-03), Molar Lake (MOL-02), Pike Lake (PL-02), and Riordan Lake (RL-02). At Long Lake (LL-03), near-bed DO value at a depth of 15 m was 4.39 mg/L. At Molar Lake (MOL-02), near-bed DO value at a depth of 27 m was 1.09 mg/L. At Pike Lake (PL-02), near-bed DO values showed a decreasing trend and reduced from 7.92 mg/L at 5 m to 0.21 mg/L at 9 m. At Riordan Lake (RL-02), near-bed DO values showed a decreasing trend and reduced from 6.37 mg/L at 11 m to 0.83 mg/L at 15 m.
- October 2023 – DO profiles at all stations were consistent over depth. DO values generally ranged from 7.14 mg/L to 13.25 mg/L, noting that two near-bed DO values at Mills Lake (MIL-02: 4.8 mg/L at 19 m and MIL-03: 1.74 mg/L at 25 m) were found lower than the observed range and were below 5.5 mg/L.
- March 2024 – DO profiles at all stations showed a gradual decrease in DO values towards the bed of the lakes. At Long Lake (LL-02, LL-03), DO was 13.6 mg/L near-surface and 0.5 mg/L and 8.4 mg/L near-bed, respectively. At Pike Lake (PL-02), DO was 5.4 mg/L near-surface and 1.9 mg/L near-bed.
- June 2024 – DO profiles at Long Lake (LL-02, LL-03), Daviault Lake (DL-02), Mills Lake (MIL-03), and Riordan Lake (RL-02) were generally consistent across depth, noting a few increased DO values from near-surface to mid-column of each lake. DO values generally ranged from 10.1 mg/L to 11.7 mg/L, except near-bed to mid-column DO values at each lake (LL-02, LL-03, DL-02, MIL-03, and RL-02) that were found higher than the observed range and the DO values at Pike lake (PL-02) that were found lower than the observed range. At Long Lake (LL-02, LL-03), near-surface DO at depths of 3 and 4 m were 12.1 mg/L and 12.2 mg/L, respectively. At Daviault Lake (DL-02), near-surface DO at a depth of 2 m was 11.9 mg/L. At Mills Lake (MIL-03) and Riordan Lake (RL-02), near mid-column DO was 12.4 mg/L and 12.2 mg/L, respectively. Further, at Mills Lake (MIL-02) DO ranged from 9.3 mg/L near-surface to 11.3 mg/L near-bed, with an increased DO of 12.3 mg/L mid-column at a depth of 7 to 8 m. Lastly, Pike Lake (PL-02) showed the lowest DO range, 8.6 mg/L near-surface and 5.7 mg/L near-bed, with an increased DO of 10.8 mg/L at a depth of 3 m.

- August 2024 – DO profiles at all stations showed a gradual decrease in DO values towards the bed of the lakes, except at Mills Lake (MIL-03) and Molar Lake (MOL-02). DO values generally ranged from 4.6 mg/L to 9.1 mg/L, noting that at Pike Lake (PL-02), near-bed DO values showed a decreasing trend and reduced from 4.9 mg/L at 6 m to 0.5 mg/L at 9 m. Further, DO values slightly increased at the middle of the lake column profile at Mills Lake (MIL-03) and Molar Lake (MOL-02), with values ranging from 9.0 mg/L to 9.2 mg/L and 9.1 mg/L to 9.9 mg/L, respectively.

pH

The pH conditions at all lake basin stations in 2023 (June, August and October) and 2024 (March and June) were generally near neutral throughout the water column and demonstrated minor variations over depth and season, noting that in August 2024, pH values were higher and lower than the range observed in previous field campaigns. At Molar Lake (MOL-02), pH values were elevated and ranged from 8.4 to 9.9 with higher values observed at the middle of the lake column profile. Further, like August 2023, a general decreasing trend of pH values was observed in all lakes, noting that the lowest near bed pH values of 5.5 and 5.9 were measured at Daviault Lake (DL-02) and Mills Lake (MIL-02). As such, water column measurements of pH are not discussed in detail herein.

Overall, the water column profile results from the 2023 and 2024 investigations (mid-June 2023 through August 2024), demonstrated that the reference and study lakes begin to be thermally stratified in mid-June with the upper thermal layer increasing in temperature and depth through August. Water temperatures in August 2024 were slightly higher near-surface to middle column at two lakes (Mills Lake and Riordan Lake) compared to August 2023. In addition, the lake column profile results at these same locations demonstrated instances of a complete turnover in late October 2023, and due to similarity in stratification trends a complete turnover in the lakes is also expected in October 2024. The bottom waters at each of the lake column stations (reference and study lakes) were characterized by low DO under stratified conditions.

The thermal and chemical behaviour at all reference and study lakes were relatively similar throughout the study period (as reflected by the observed patterns in temperature, EC and DO). The lake column profiles at each of the identified locations included evidence of complete physical mixing in late October 2023 and are also expected to demonstrate the same in October 2024.

Values of pH remained fairly consistent at all reference and study lakes throughout the study period, with the only exception of August 2024 where slightly elevated and low pH values were observed at three lakes (Molar Lake, Daviault Lake and Mills Lake).

5.5.3 Water Quality at Lakes

Water quality sampling was conducted to characterize existing water chemistry of the surface waters within the vicinity of the Kami Project site. Note that the fecal and total coliform sampling at Long Lake was not carried out due to challenges pertaining to sample hold time and logistics. As described in Table 4-6, water quality samples at waterbodies (lakes) were collected during 2023 and 2024 field campaigns. Water quality results at waterbodies (lakes) are presented in Appendix E in Tables E-1 through E-9. The water quality results were compared to the Canadian Council of Ministers of the Environment (CCME) Water Quality Guidelines for the Protection of Aquatic Life – Freshwater (CCME 1999a).

Daviault Lake

Near-surface (NS) and near-bed (NB) water samples were mainly collected at DL-02 for laboratory testing, noting that during June and August 2024 NS water samples were also collected at DL-01.

At DL-02, NS pH values ranged from 7.18 to 7.48 with average of 7.35, while at NB, the pH values ranged from 6.98 to 7.48 with an average of 7.22. At NS total alkalinity ($CaCO_3$) ranged from 17 mg/L to 21 mg/L with an average of 18 mg/L, while at NB it ranged from 17 mg/L to 21 mg/L with average of 18.8 mg/L. Acidity concentrations were below the RDL (< 5 mg/L) in all samples.

The NS and NB electrical conductivity values did not vary significantly and averaged 51.6 µS/cm. The NS turbidity values ranged from 0 Nephelometric Turbidity Units (NTU) to 4.33 NTU and averaged 1.45 NTU, while NB turbidity values ranged from 0 NTU to 2 NTU and averaged 0.5 NTU. Note that the turbidity was recorded higher in August 2023 compared to other sampling events. The NS and NB TDS ranged 35 mg/L to 55 mg/L with an average of 46.7 mg/L and 35 mg/L to 60 mg/L with an average of 43.3 mg/L, respectively, noting that TDS was observed higher in the summer (August) 2023. Both hardness ($CaCO_3$) and DOC did not vary significantly. The NS and NB hardness ($CaCO_3$) averaged 19 mg/L and 19.7 mg/L, respectively, while the NS and NB DOC averaged 3.5 mg/L and 3.4 mg/L, respectively.

At DL-01 (lake water level station located close to the shore of Daviault Lake), the water quality was observed similar to DL-02. The pH values ranged from 7.32 to 7.44 with an average of 7.38. Total alkalinity (CaCO3) ranged from 16 mg/L to 22 mg/L with an average of 19 mg/L. Acidity concentrations were below the RDL (< 5 mg/L) in all samples. Electrical conductivity did not vary significantly and averaged 51 µS/cm. Turbidity averaged 1.82 NTU. TDS ranged from 20 mg/L to 40 mg/L with an average of 30 mg/L, noting that TDS was observed higher in August 2024. Both hardness and DOC did not vary significantly and averaged 18 mg/L and 3.7 mg/L, respectively.

In general, the concentrations of all water quality parameters (including anions, nutrients, and metals) were below CCME guidelines except the concentrations of phosphorous. Specific details are as follows:

- June 2024 – At DL-02, NB and NS total phosphorous concentrations (ranged from 4.2 µg/L to 6.5 µg/L) exceeded CCME long term limit for ultra-oligotrophic (< 4 µg/L) conditions. At DL-01, total phosphorous concentration also exceeded CCME long term limit for ultra-oligotrophic conditions. Note that the concentrations of phosphorous (total and dissolved) in June 2024 samples were measured with a lower detection threshold (2 µg/L) compared to all previous samples.

Long Lake

Near-surface (NS) and near-bed (NB) water samples were collected at LL-02 and LL-03 for laboratory testing.

At NS the pH values ranged from 7.44 to 7.81 with an average of 7.62, while at NB, the pH values ranged from 7.19 to 7.78 with an average of 7.5. At NS total alkalinity ($CaCO_3$) ranged from 32 mg/L to 39 mg/L with an average of 35.5 mg/L, while at NB it ranged from 32 mg/L to 49 mg/L with an average of 36.5 mg/L. Acidity concentrations were below the RDL (< 5 mg/L) in all samples, except at LL-02 NB with an acidity value of 7.0 mg/L in March 2024.

The NS and NB electrical conductivity averaged 74 µS/cm and 75.8 µS/cm. Electrical conductivity did not vary significantly, except one electrical conductivity measurement of 103 µS/cm at LL-02 NB in March 2024. The NS and NB turbidity values ranged and averaged below 1 NTU. The NS and NB TDS values ranged 41 mg/L to 95 mg/L with an average of 55.6 mg/L and 20 mg/L to 75 mg/L with an average of 47.6 mg/L, respectively. The NS and NB hardness ($CaCO_3$) averaged 35.7 mg/L and 37.1 mg/L, respectively, while the NS and NB DOC averaged 3.5 mg/L and 3.2 mg/L., respectively. March 2024 results at LL-02 NB for hardness (CaCO3) were above the observed range (51 mg/L), while DOC results were below the observed range (2.8 mg/L). Samples collected in August 2023 at LL-02 NS and NB were also tested for radionuclides, surrogate recovery parameters and PAHs. The values of parameters were observed to be below the RDL.

In general, the concentrations of all water quality parameters (including general chemistry, anions and nutrients, metals, radionuclides, and PAHs) were below CCME guidelines, noting that the concentrations of some parameters (phosphorous, aluminum, iron, and manganese) were elevated. Specific details are as follows:

- June 2023 – total phosphorus concentration (9 µg/L) at LL-02 NS exceeded the CCME long-term limit for ultra-oligotrophic (< 4 µg/L) and total phosphorus concentration (25 µg/L) at LL-02 NB exceeded the CCME long-term limit for mesotrophic conditions (i.e., 10 – 20 µg/L). Metals including total aluminum, iron, and manganese at LL-02 NB also exceeded the respective CCME long-term limits with concentrations of 313 µg/L, 1,480 µg/L, and 1,110 µg/L, respectively. The field notes suggested that the sample at LL-02 NB appeared to be influenced by inadvertent disturbance of bed sediment; thus, the reported total metal concentrations should be reviewed with discretion.
- June 2024 – total phosphorous concentrations exceeded CCME long term limit for ultra-oligotrophic (< 4 µg/L) conditions at LL-02 and LL-03. At LL-02, NS and NB total phosphorous concentration were 4.6 µg/L and 5.5 µg/L respectively. At LL-03, NS total phosphorous concentration was 4.5 µg/L. Total lead was found to be in exceedance at LL-03 NS with a concentration of 1.13 µg/L.

Mills Lake

Near-surface (NS) and near-bed (NB) water samples were collected at MIL-02 and MIL-03 for laboratory testing.

At NS the pH values ranged from 7.43 to 7.71 with an average of 7.59, while at NB, the pH values ranged from 7.35 to 7.76 with an average of 7.56. At NS & NB total alkalinity ($CaCO_3$) did not vary significantly and averaged 35.1 mg/L and 35.8 mg/L, respectively. Acidity concentrations were below the RDL (< 5 mg/L) in all samples.

The NS and NB electrical conductivity values did not vary significantly and averaged 71.7 µS/cm and 73.2 µS/cm, respectively. The NS and NB turbidity values ranged and averaged below 1 NTU. The NS TDS ranged 40 mg/L to 75 mg/L with an average of 50.1 mg/L and NB TDS ranged 40 mg/L to 75 mg/L with an average of 49.7 mg/L, noting the values in June 2023 were measured higher. Both hardness ($CaCO_3$) and DOC did not vary significantly. The NS and NB hardness ($CaCO_3$) averaged 35.5 mg/L and 35.3 mg/L, respectively, while the NS and NB DOC averaged 3.1 mg/L and 3.0 mg/L, respectively.

In general, the concentrations of anions, nutrients, and metals were below CCME guidelines, noting that the concentrations of some parameters (dissolved copper and phosphorous) were elevated. Specific details are as follows:

- August 2023 – concentration of dissolved copper at MIL-02 NB was found equal to the CCME long-term limit (2 µg/L).
- June 2024 – total phosphorous concentrations (ranged 4.1 µg/L to 6.7 µg/L) exceeded CCME long term limit for ultra-oligotrophic (< 4 µg/L) conditions at MIL-02 and MIL-03.

Molar Lake

Near-surface (NS) and near-bed (NB) water samples were collected at MOL-02 for laboratory testing.

At NS the pH values ranged from 7.37 to 7.68 with an average of 7.53, while at NB, the pH values ranged from 7.20 to 7.71 with an average of 7.47. At NS and NB, total alkalinity ($CaCO_3$) did not vary significantly and averaged 30 mg/L and 29.5 mg/L, respectively. Acidity concentrations were below the RDL (< 5 mg/L) in all samples.

The NS and NB electrical conductivity values also did not vary significantly and averaged 61.2 µS/cm and 61.7 µS/cm, respectively. The NS and NB turbidity values ranged and averaged below 1 NTU. The NS TDS ranged

from 35 mg/L to 70 mg/L with an average of 35 mg/L, while the NB TDS ranged from to 40 mg/L to 55 mg/L with an average of 46.7 mg/L, noting that the NS and NB values of TDS in August 2024 were observed higher (70 mg/L and 55 mg/L, respectively). Both hardness ($CaCO_3$) and DOC did not vary significantly. The NS and NB hardness ($CaCO_3$) averaged 28.3 mg/L while the NS and NB DOC averaged 3.3 mg/L and 3.2 mg/L, respectively.

In general, the concentrations of anions, nutrients, and metals were below CCME guidelines, noting that the concentrations of some parameters (total aluminum and total phosphorous) were elevated. Specific details are as follows:

- August 2023 – total aluminum concentration of 11 µg/L at MOL-02 NB exceeded the CCME long-term limit.
- June 2024 – total phosphorus concentrations of 4.6 mg/L and 4.4 mg/L at MOL-02 NS and MOL-02 NB, respectively, exceeded the CCME long-term limit for ultra-oligotrophic (< 4 µg/L).

Pike Lake

Near-surface (NS) and near-bed (NB) water samples were collected at PL-02 for laboratory testing.

At NS, the pH values ranged from 7.25 to 7.58 with an average of 7.47, while at NB, the pH values ranged from 7.29 to 7.53 with an average of 7.38. At NS total alkalinity ($CaCO_3$) ranged from 26 mg/L to 51 mg/L with an average of 36.6 mg/L, while at NB it ranged from 27 mg/L to 62 mg/L with an average of 39.6 mg/L. Acidity concentrations were below the RDL (< 5 mg/L), except in March 2024 with NS and NB values of 7.4 mg/L ($CaCO_3$) and 8.2 mg/L ($CaCO_3$), respectively.

Electrical conductivity ranged from 56 µS/cm to 112 µS/cm with an average of 78 µS/cm, and from 56 µS/cm to 132 µS/cm with an average of 83.5 µS/cm for NS and NB, respectively. The NS and NB turbidity values averaged below 1 NTU. The NS TDS values ranged from 20 mg/L to 105 mg/L with an average of 60.8 mg/L, while the NB TDS values ranged from to 20 mg/L to 80 mg/L with an average of 57.5 mg/L. The NS hardness ($CaCO_3$) ranged from 26 mg/L to 53 mg/L with an average of 36.9 mg/L, and NB hardness ($CaCO_3$) ranged from 26 mg/L to 62 mg/L with an average of 38.5 mg/L. The NS DOC ranged from 3.4 mg/L to 6.2 mg/L with an average of 4.8 mg/L, and NB DOC ranged from 2.8 mg/L to 5.8 mg/L with an average of4.4 mg/L. Note that in March 2024, the values of general parameters were generally measured higher than the range observed in other samples.

In general, the concentrations of all water quality parameters (including general chemistry, anions, nutrients, and metals) were below CCME guidelines, noting that the concentrations of some parameters (dissolved copper, total lead, total phosphorous, and total and dissolved manganese) were elevated. Specific details are as follows:

- August 2023 – total phosphorus concentrations of 32 mg/L at PL-02 NS exceeded the CCME long-term limit for ultra-oligotrophic (< 4 µg/L) conditions. Dissolved copper and total lead concentrations were 2.2 µg/L and 3.9 µg/L, respectively at PL-02 NB – which were above the CCME long-term limit. Additionally, total and dissolved manganese exceeded the CCME guidelines, with values of 1400 µg/L and 1300 µg/L, respectively.
- June 2024 – total phosphorus concentrations of 8.8 mg/L at PL-02 NS exceeded the CCME long-term limit for ultra-oligotrophic (< 4 µg/L) conditions. At PL-02, NB total phosphorous concentration of 15.7 µg/L exceeded the CCME long-term limit for oligotrophic (4-10 µg/L) conditions.
- August 2024 – total and dissolved manganese exceeded the CCME guidelines, with values of 1050 µg/L and 854 µg/L, respectively.

Riordan Lake

Near-surface (NS) and near-bed (NB) water samples were collected at RL-02 for laboratory testing.

At NS the pH values ranged from 7.61 to 7.86 with an average of 7.78, while at NB, the pH values ranged from 7.35 to 7.87 with an average of 7.60. At NS total alkalinity ($CaCO_3$) ranged from 41 mg/L to 51 mg/L with an average of 45.5 mg/L, while at NB it ranged 40 mg/L to 44 mg/L with an average of 42.3 mg/L. Acidity concentrations were below the RDL (< 5 mg/L) in all samples.

The NS and NB electrical conductivity values did not vary significantly and averaged 86 µS/cm and 85.6 µS/cm, respectively. The NS and NB turbidity values ranged and averaged below 1 NTU. The NS TDS values ranged from 40 mg/L to 55 mg/L with an average of 45 mg/L, while the NB TDS values ranged from to 45 mg/L to 65 mg/L with an average of 55 mg/L. Both hardness ($CaCO_3$) and DOC did not vary significantly. The NS and NB hardness ($CaCO_3$) averaged 42.3 mg/L and 42, respectively, while the NS and NB DOC averaged 2.9 mg/L and 2.7 mg/L, respectively.

The concentrations of all water quality parameters (including anions, nutrients, and metals) were below CCME limits except one exceedance of total phosphorus. Specific details are as follows:

- June 2024 – concentrations of total phosphorous at RL-02 NB exceeded the CCME long-term limit for ultra-oligotrophic (< 4 µg/L) conditions with a value of 5.8 mg/L.

5.5.4 Water Quality at Watercourses

Field Results

Field measurements were taken at 12 watercourse stations (WC-01 through WC-12) during 2023 and 2024, noting that in March 2024 field measurements were limited to three (3) stations (WC-01, WC-02, and WC-09) only. The results of field measurements are presented in Appendix E in Table E-1.

In general, the water temperature of the watercourses showed seasonal variations. In 2023, water temperatures were recorded higher during June (ranging from 9.8 °C to 24.3 °C) sampling event as opposed to lower average temperatures in August (ranging from 11.9 °C to 19.5 °C) and October (ranging from 5.0 °C to 9.5°C) sampling events. In 2024, water temperatures were recorded higher during August (ranging from 9.1 °C to 22.6 °C) as opposed to lower average temperatures in June (ranging from 10 °C to 21 °C) and March (ranging from -0.3 °C to 1°C). The overall average of water temperatures of all watercourses during June and August of 2023 and 2024 did not vary significantly and ranged from 16.3 °C to 18.8 °C.

Electrical conductivity generally increased from June 2023 (ranging from 22.6 µS/cm to 105.2 µS/cm with an average of 65.3 µS/cm) to August 2023 (ranging from 26.6 µS/cm to 117.2 µS/cm with an average of 75.4 µS/cm), and then to October 2023 (ranging from 47.7 µS/cm to 134 µS/cm with an average of 85.2 µS/cm). Like 2023, electrical conductivity generally increased from June 2024 (ranging from 25.7 µS/cm to 107.7 µS/cm with an average of 67.3 µS/cm) to August 2024 (ranging from 44.7 µS/cm to 185.6 µS/cm with an average of 92.8 µS/cm). Note that the electrical conductivity recorded at selected stations in March 2024 ranged from 64.3 µS/cm to 70.6 µS/cm with an average of 68.1 µS/cm.

Dissolved oxygen ranged from 7.83 mg/L to 11.2 mg/L in June 2023, 8.62 mg/L to 9.83 mg/L in August 2023, and 10.3 mg/L to 14.5 mg/L in October 2023. In 2024, dissolved oxygen ranged 7.21 mg/L to 12.21 mg/L in June (spring) and 8.2 mg/L to 11.2 mg/L in August. Dissolved oxygen at selected stations in March 2024 ranged from 5.25 mg/L to 13.84 mg/L and recorded one dissolved oxygen value below the threshold of 5.5 mg/L at WC-02.

The pH values at each watercourse were consistently within the CCME limits. Average turbidity was 0.56 NTU, noting that the maximum (6.56 NTU) was recorded at WC-12 in June 2023, while the minimum (0 NTU) was recorded at most watercourses in October 2023 and August 2024.

Laboratory Results

Water quality samples were also sent for laboratory analysis at the twelve (12) watercourse stations (WC-01 through WC-12). The results are presented in Appendix E in Tables E-2 through E-5.

At the watercourse stations, pH values ranged from 6.96 to 8.03 and averaged 7.58. Total alkalinity ($CaCO_3$) ranged from 9.9 mg/L to 90.0 mg/L and averaged 41.2 mg/L. Acidity was below the RDL (< 5 mg/L) for all samples, except one value of 8.0 mg/L at WC-02 in March 2024.

Electrical conductivity ranged from 26 µS/cm to 191 µS/cm and averaged 85.2 µS/cm. TDS ranged from 20 mg/L to 115 mg/L and averaged 62.3 mg/L. Hardness ranged from 11 mg/L to 97 mg/L and averaged 40.7 mg/L. DOC ranged from 2.2 mg/L to 9.4 mg/L and averaged 4.2 mg/L. Turbidity ranged from 0 NTU to 6.56 NTU with an average of 0.58 NTU, noting that turbidity at most stations was observed below 1 NTU.

Samples collected in August 2023 at WC-02, WC-03, WC-09 and WC-10 were also tested for radionuclides, surrogate recovery parameters and PAHs. The values of most parameters were observed below the RDL except at WC-02 where benzo(a)pyrene, benzo(b/j)fluoranthene, benzo(g,h,i)perylene, and pyrene were observed above the RDL.

In general, the concentrations of all water quality parameters (including general chemistry, anions, nutrients, metals, radionuclides, and PAHs) were below CCME guidelines. Any exceedances of the CCME guidelines are summarized below.

- August 2023 – an exceedance of total iron was observed in WC-07. The value observed was 390 µg/L with a CCME threshold of 300 µg/L. Total lead was observed to be in exceedance at WC-09. The concentration observed was 2.4 µg/L, exceeding the CCME guideline of 1 µg/L.
- June 2024 – total phosphorus concentrations (ranged 4.4 µg/L to 13.8 µg/L) at WC-01, WC-02, WC-03, WC-04, WC-06, WC-07, WC-09, WC-10 and WC-12 exceeded the CCME long-term limit for ultra-oligotrophic (< 4 µg/L), noting that total phosphorous concentrations at WC-01, WC-02, WC-10 and WC-12 also exceeded oligotrophic (4 - 10 µg/L) conditions. Note that the concentrations of phosphorous in June 2024 samples were measured with a lower detection threshold compared to all previous samples. Total aluminum was observed to be in exceedance at WC-10. The concentration observed was 196 µg/L with the CCME threshold being 100 µg/L.

5.5.5 Water Quality at Rail Crossings

Field Results

Field measurements were taken at four rail crossing watercourse stations (WC-13 through WC-16). The results are presented in Appendix E in Table E-1, noting that measurements are available only for the 2023 October and 2024 August field campaigns.

The water temperature at the watercourses ranged from 8.4°C to 19.4°C with an average of 12.6°C. The field pH measurements ranged from 6.87 to 8.21 with an average of 7.5, which were within CCME limits. Electrical conductivity ranged from 29 to 140 with an average of 90.3 µS/cm, noting that the values of 29 µS/cm and 140 µS/cm were observed in August 2024 at WC-14 and WC-13, respectively. Dissolved oxygen ranged from 5.3 to 13.3 mg/L with an average of 10.2 mg/L, noting that dissolved oxygen below the threshold of 5.5 mg/L was

measured at WC-14 in August 2024. Average turbidity was 0.92 NTU, with the values being between 0 and 2.28 NTU.

Laboratory Results

Water samples were also sent for laboratory analysis at four rail crossing watercourse stations (WC-13 through WC-16). The results are presented in Appendix E in Tables E-4 and E-5, noting that the results are only available for the 2023 October and 2024 August field campaigns.

The lab pH results ranged from 6.52 to 7.91 with an average of 7.63, which were within CCME limits. Alkalinity ($CaCO_3$) ranged from 13 mg/L to 70 mg/L and averaged 42.4 mg/L, noting that the values of 13 µS/cm and 70 µS/cm were observed in August 2024 at WC-14 and WC-13, respectively. Acidity was below the RDL (< 5 mg/L) except one acidity value of 12 mg/L at WC-14 in August 2024. The TDS ranged from 55 mg/L to 100 mg/L with an average 66.3 mg/L, noting that value of 100 mg/L was observed at WC-13 in August 2024. The hardness ($CaCO_3$) ranged from 13 mg/L to 67 mg/L with an average of 40.3 mg/L, noting that the values of 13 µS/cm and 67 µS/cm were observed in August 2024 at WC-14 and WC-13, respectively. DOC ranged from 2.9 mg/L to 8.1 mg/L with an average of 4.6 mg/L.

The concentrations of all water quality parameters were below CCME guidelines. Any exceedances of the CCME guidelines are summarized below.

- August 2024 – total and dissolved iron exceeded the CCME guidelines at WC-14, with values of 1980 µg/L and 1020 µg/L, respectively.

5.5.6 Comparison with Historic Water Quality Results

A comparison of historic water quality results with 2023-2024 water quality results in terms of ranges and averaged values is provided in Table F-4 of Appendix F. For comparison, observed ranges and averaged values of historic results were extracted from Stantec (2012) and compared with ranges and averaged values of 2023-2024 results.

Comparison of water quality results was viewed carefully, noting the following differences:

- The number of 2023-2024 samples and sampling stations were greater than 2011-2012 samples and sampling stations.
- Detection limits of parameters tested in 2011-2012 and 2023-2024 were not always the same; especially specific 2023-2024 samples were tested with different detection limits.
- Some parameters could not be compared because those were not tested either in 2011-2012 or 2023-2024 sampling events.

Compared to water quality parameters reported in 2011-2012 (Stantec 2012), water quality parameters at lake and watercourse (stream) stations reported herein were generally found to be in similar range and / or demonstrated a similar behavior, noting some minor deviations for some parameters were observed. A brief comparison of some key parameters is as follows:

- Lab pH ranged from 6.52 to 8.03 with an average of 7.55 compared to the historic pH which ranged from 5.64 to 8.06 with an average of 7.58, noting one pH values of historic result was found below CCME threshold of 6.5.
- Total alkalinity ($CaCO_3$) ranged from 9.9 to 99 mg/L with an average of 37.5 mg/L compared to the historic range of 27 to 110 mg/L with an average of 50 mg/L.
- Acidity ranged from below RDL to 12 mg/L compared to the historic range of below RDL to 12 mg/L.

- Electrical conductivity ranged from 26 to 191 µS/cm with an average of 78.1 µS/cm compared to the historic range of 56 to 210 µS/cm with an average of 101 µS/cm.
- TDS ranged from 20 to 115 mg/L with an average of 56 mg/L compared to the historic range of 27 to 110 mg/L with an average of 55 mg/L.
- Hardness (as CaCO3) ranged from 11 to 97 mg/L with an average of 37.2 mg/L compared to the historic range of 29 to 110 mg/L with an average of 50 mg/L.
- DOC ranged from 2.2 to 9.4 mg/L with an average of 3.78 mg/L compared to the historic range of 1.5 to 20 with an average of 4.87 mg/L.
- Ammonia-N was observed mostly below RDL which was noted to be similar to historic data.
- Total phosphorous ranged from 0.002 mg/L to 0.033 mg/L with an average of 0.01 mg/L (noting that most values were noted below RDL) compared to historic range of 0.003 mg/L to 0.02 mg/L with an average of 0.01 mg/L. In both data sets, phosphorous was observed to exceed ultra-oligotrophic (< 4 µg/L) conditions.
- The concentrations of metals were mostly below CCME guidelines. A small group of metals (i.e., aluminum, iron, manganese, lead, and copper) in ten samples exceeded CCME guidelines compared to reported historic exceedance of cadmium (five samples), copper (one sample) and iron (one sample).

5.5.7 Water Quality Summary

Water quality sampling was conducted at 25 stations (lakes and watercourses) within the vicinity of the Kami Project site, except fecal and total coliforms at Long Lake. With few exceptions, water quality sampling was conducted at all stations in the 2023 and 2024 field campaigns. In addition to field measurements of basic water quality parameters, water samples were analyzed for several parameters including general chemistry, anions and nutrients, metals, radionuclides, and PAHs. The results of the surface water quality aspects of the field and laboratory investigations demonstrated the following:

- Seasonal variation in water temperatures at all stations (lakes and watercourses) was observed, noting higher temperatures in the June (spring) of 2023 and lower in the October (fall) 2023.
- Significant temperature differences in near-surface and near-bed were observed at waterbodies (lakes), generally in the August (summer) of 2023 and 2024 which indicates thermal lake stratification.
- With some exceptions, lake and watercourse stations were below the relevant water quality guidelines (CCME 1999a).
- Only ten water quality samples reported slight exceedances of the CCME guidelines for a small group of metals (i.e., aluminum, iron, manganese, lead, and copper), noting that the total phosphorous was also observed to exceed ultra-oligotrophic (< 4 µg/L) conditions and the observed concentrations ranged from ultra-oligotrophic (< 4 µg/L) to meso-eutrophic conditions (20-35 µg/L).
- Compared to historic water quality results (Stantec 2012), water quality parameters at lake and watercourse (stream) stations reported herein were generally found to be in similar range and / or demonstrated a similar behavior.

5.6 Sediment Quality

5.6.1 Historic Sediment Quality Results

Historic results of sediment quality previously conducted from 2011 to 2012 (Stantec 2012) were reviewed to understand baseline conditions of that period and if there were any significant changes. Historic sediment quality sampling was collected at seven (7) stations (including three lakes: Long Lake, Pike Lake, and Molar Lake) in the vicinity of the Kami Project. A summary of Stantec (2012) sediment quality sampling events, sampling stations, results and comparison with 2023-2024 sediment quality results is provided in Table F-5 of Appendix F.

Historic sediment quality assessment included both sediment particle size distribution analysis and sediment chemistry analysis including general constituents, metals, and hydrocarbons. Historic sediment quality results were generally observed to range and average similar to 2023-2024 sampling results, noting that 2023-2024 sediment quality sampling events and number of samples were greater than the historic sediment quality sampling data. A discussion on the comparison of sediment quality results is provided in Section 5.6.5.

Metals concentrations in 2011-2012 sediment quality samples, for the most part, were below their respective Interim Sediment Quality Guidelines (ISQG) and the Probable Effect Level (PEL). A few exceedances of the ISQG for chromium, cadmium, copper and zinc values were observed. Specific details of exceedances are as follows:

- Chromium exceeded ISQG threshold of 37.3 mg/kg at a small headwater watershed draining into Molar Lake in March 2012 with a value of 48 mg/kg, and at the western side of Long Lake and in Molar Lake during April 2012 with values of 65 mg/kg and 71 mg/kg respectively. However, the concentrations were below PEL threshold of 90 mg/kg.
- Cadmium exceeded the ISQG threshold of 0.60 mg/kg at Molar Lake with a value of 0.65 mg/kg in March 2012, however the concentrations were well below the PEL threshold of 3.5 mg/kg.
- Copper exceeded the ISQG threshold of 35.7 mg/kg at Molar Lake with a slightly higher value of 37 mg/kg in March 2012, however the concentrations were well below the PEL threshold of 197 mg/kg.
- Zinc exceeded ISQG threshold of 125 mg/kg at Molar Lake in April 2012 sample with a value of 130 mg/kg, however, the concentrations were well below the PEL threshold of 315.

All benzene, toluene and three xylene isomers (BTEX) concentrations were below the detection level. All PAH parameter concentrations were below the detection limit and Canadian Sediment Quality Guideline (CSQG) threshold concentrations (Stantec 2012).

5.6.2 Sediment Quality at Lakes

All laboratory testing and analytical results for sediment quality at lakes and watercourses are presented in Appendix E in Tables E-10 through E-13. Note that, as described in Table 4-7, sediment quality sampling was conducted at the watercourse and lake stations during 2023 field campaigns only.

The sediment quality results were compared to the Canadian Council of Ministers of the Environment (CCME) Sediment Quality Guidelines for the Protection of Aquatic Life Freshwater and Marine ISQG/PEL (CCME 1999b).

Daviault Lake

Sediment samples were collected from the deepest basin (DL-02) at Daviault Lake. The sediment sample collected at DL-02 in August 2023 was silt-dominated and the sediment texture was described as clay loam having grain sizes of 29% clay, 23% sand, 49% silt.

Total Organic Carbon (TOC) ranged from 50,000 mg/kg to 69,000 mg/kg with an average of 59,500 mg/kg. Nitrogen ranged from 0.41% to 0.72% with an average value of 0.56%. Calculated total Kjeldahl nitrogen ranged from 4,110 µg/g to 7,160 µg/g, with an average of 5,635 µg/g. Both nitrate and nitrite were observed below the detection limit.

Most metals were noted to be below CCME guidelines, noting that the observed concentrations of cadmium, chromium, copper, lead, and zinc were elevated. Specific details of elevated metals are as follows:

- August 2023 – concentrations of cadmium and chromium at DL-02 exceeded the CCME-ISQG limit.
- October 2023 – concentrations of cadmium, chromium, copper, lead, and zinc at DL-02 exceeded CCME-ISQG limits.

Long Lake

Sediment samples were collected from two stations located at the two deepest basins at Long Lake (LL-02 and LL-03). Samples were found to be dominated by sand, noting that due to variation in sand and silt contents, the sediment texture varied from loamy sand in June 2023 having grain sizes of 2.6% clay, 74% sand, 24% silt to loam in August 2023, with average grain sizes of 11% clay, 48% sand, 40% silt.

Total Organic Carbon (TOC) ranged from 39,000 mg/kg to 68,000 mg/kg with an average of 56,800 mg/kg. Nitrogen ranged from 0.21% to 0.76% with an average of 0.56%. Calculated total Kjeldahl nitrogen ranged from 2,090 µg/g to 7,620 µg/g with average of 5,578 µg/g. Nitrate was observed below the detection limit, while nitrite was observed above detection limit only once in October 2023 at LL-02 resulting in 0.9 µg/g.

Most metals were noted to be below the CCME guidelines, noting that the observed concentrations of arsenic, cadmium, chromium, lead, and zinc were elevated. Specific details of elevated metals are as follows:

- June 2023 – concentrations of cadmium, chromium and zinc were observed above the CCME-ISQG limit at LL-02.
- August 2023 – concentrations of cadmium, chromium, and zinc were above CCME-ISQG limits at LL-02 and LL-03, in addition to concentration of lead that also exceeded the CCME-ISQG limit at LL-02.
- October 2023 – concentrations of arsenic, cadmium, chromium, and zinc were observed above the CCME-ISQG limit at LL-02 and LL-03.

Mills Lake

Sediment samples were collected from two stations located at the two deepest basins at Mills Lake (MIL-02 and MIL-03). The sediment samples collected in August 2023 were sand and silt-dominated, while the soil texture was described as loam having average grain sizes of 16% clay, 46% sand, 39% silt.

Total Organic Carbon (TOC) ranged from 81,000 mg/kg to 93,000 mg/kg with an average of 85,600 mg/kg. Nitrogen ranged from 0.67% to 0.92% with an average of 0.79%. Calculated total Kjeldahl nitrogen ranged from 6,740 µg/g to 9,210 µg/g with average of 7,874 µg/g. Both nitrate and nitrite were observed below the detection limit.

Metals were noted to be below CCME guidelines, noting that the observed concentrations of cadmium, chromium and zinc were elevated. Specific details of elevated metals are as follows:

- June 2023 – concentrations of cadmium and chromium were observed above CCME ISQG limits at MIL-02.

- August 2023 – concentrations of cadmium and chromium were observed above CCME-ISQG limits at MIL-02 and MIL-03, in addition to the concentration of lead that also exceeded the CCME-ISQG limit at MIL-03.
- October 2023 – concentrations of cadmium and chromium were observed above CCME-ISQG limits at MIL-02 and MIL-03, in addition to the concentration of zinc that also exceeded the CCME-ISQG limit at MIL-03.

Molar Lake

Sediment samples were collected from a station located near the deepest basin at Molar Lake (MOL-02). The sediment sample collected in August 2023 was silt-dominated and the sediment texture was described as silt loam having grain sizes of 19% clay, 30% sand, 51% silt.

TOC ranged from 86,000 mg/kg to 110,000 mg/kg with an average of 98,000 mg/kg. Nitrogen ranged from 0.73% to 1% with an average of 0.87%. Calculated total Kjeldahl nitrogen ranged from 7,300 µg/g to 10,300 µg/g, with average of 8,800 µg/g. Nitrate was below the detection limit, while nitrite was observed above detection limit only once in October 2023 resulting in 0.7 µg/g.

Most metals were noted to be below CCME guidelines, noting that the observed concentrations of chromium were found above the CCME-ISQG limit in the August and October of 2023 at MOL-02.

Pike Lake

Sediment samples were collected from a station located at the deepest basin at Pike Lake (PL-02). Sample collected in August 2023 was sand dominated, and the sediment texture was described as sandy loam having grain sizes of 17% clay, 69% sand, and 15% silt.

Total Organic Carbon (TOC) ranged from 130,000 mg/kg to 150,000 mg/kg with an average of 143,333 mg/kg. Nitrogen ranged from 0.25% to 1.6% with an average of 1.05%. Calculated total Kjeldahl nitrogen ranged from 2,510 µg/g to 16,000 µg/g with an average of 10,503 µg/g. Both nitrate and nitrite were observed below the detection limit.

Most metals were noted to be below the CCME guidelines, noting that the observed concentrations of mercury and chromium were found to be elevated. Specific details of elevated metals are as follows:

- June 2023 – concentration of mercury was observed above the CCME-ISQG limit at PL-02.
- October 2023 – concentration of chromium was observed above the CCME-ISQG limit at PL-02.

Riordan Lake

Sediment samples were collected from the deepest lake basin at Riordan Lake (RL-02). The sediment sample collected in August 2023 was sand-dominated and the sediment texture was described as loamy sand having grain sizes of 5.7% clay, 87% sand, and 7.2% silt.

Total Organic Carbon (TOC) ranged from 110,000 mg/kg to 150,000 mg/kg with an average of 130,000 mg/kg. Nitrogen was 1.4% in both samples, while calculated total Kjeldahl nitrogen averaged 143,000 µg/g. Both nitrate and nitrite were observed below the detection limit.

Most metals were noted to be below CCME guidelines, noting that the observed concentration of cadmium was found above the CCME-ISQG limit in August 2023.

5.6.3 Sediment Quality at Watercourses

Sediment samples were collected at twelve watercourse stations (WC-01 through WC-12). The results are presented in Appendix E in Tables E-10 through E-12. Sediment samples in June and August 2023 were sand-dominated and the sediment texture at each station was described as sand, noting that variation to loamy sand texture was also observed at WC-01, WC-05, and WC-09. The grain size distribution showed that clay, sand, and silt contents ranged from <2% to 7.4%, 50% to 98%, and <2 to 42%, respectively.

Total Organic Carbon (TOC) ranged from 2,100 mg/kg to 80,000 mg/kg with an average of 14,558 mg/kg. Nitrogen ranged from <0.01 to 0.5%, while calculated total Kjeldahl nitrogen ranged from <100 to 5,020 µg/g. Both nitrate and nitrite were observed below the CCME detection limit.

Most metals were noted to be below CCME guidelines in all watercourse stations, noting that the observed concentrations of arsenic and chromium were found to be elevated. While arsenic exceeded the CCME-ISQG limit only once at WC-06, chromium exceeded the CCME-ISQG limit one time at WC-09 and three times at WC-05 and WC-10. Note that all these watercourses receive flows from or discharge to Long Lake. Specific details of elevated metals are as follows:

- June 2023 – arsenic exceeded the CCME-ISQG limit at WC-06 (watercourse discharging to Long Lake from the southeast side); and chromium exceeded the CCME-ISQG limit at WC-05 (Waldorf River discharging to Long Lake from the south) and WC-10 (Walsh River discharging to Long Lake from the northwest).
- August 2023 – chromium exceeded the CCME-ISQG limit at WC-05 and WC-10.
- October 2023 – chromium exceeded the CCME-ISQG limit at WC-04 (watercourse discharging to Long Lake from the southwest), WC-05, WC-09 (watercourse immediately downstream of Long Lake outlet), and WC-10.

5.6.4 Sediment Quality at Rail Crossings

Sediment samples were collected at three watercourse stations near rail crossings (WC13 through WC-15). The results are presented in Appendix E in Table E-13, noting that results are only available for the 2023 October field campaign.

Total Organic Carbon (TOC) ranged from 500 mg/kg to 52,000 mg/kg with an average of 23,500 mg/kg. Nitrogen ranged from <0.01 to 0.34%, while calculated total Kjeldahl nitrogen ranged from <100 to 3,360 µg/g. Both nitrate and nitrite were observed below the CCME detection limit at all sites. Metal concentrations were noted to be below the CCME guidelines at all stations.

5.6.5 Comparison with Historic Sediment Quality Results

A comparison of historic 2011-2012 sediment quality results with 2023-2024 sediment quality results in terms of ranges and averaged values is provided in Table F-4 of Appendix F. For comparison, observed ranges and averaged values of historic sediment quality results were extracted from Stantec (2012) and compared with ranges and averaged values of 2023-2024 sediment quality results. Comparison of sediment quality results should be viewed carefully, noting the differences outlined in Section 5.5.6.

Compared to historic sediment quality parameters reported in Stantec report (Stantec 2012), sediment quality parameters at lake and watercourse (stream) stations reported herein generally demonstrated similar characteristics, noting that sediment quality parameters in most samples were below the relevant sediment quality guidelines. A brief comparison of some key parameters is as follows:

- Sediment samples were generally sand dominated which were noted to be similar to historic sediment data.

- The concentrations of metals were mostly below CCME guidelines. A small group of metals (i.e., arsenic, cadmium, chromium, copper, lead, mercury, and zinc) in some samples exceeded CCME guidelines compared to reported historic exceedance of chromium (three samples), cadmium (one samples), copper (one sample), and zinc (one sample).
- Chromium and cadmium were observed above guidelines in some samples, including samples from Molar Lake and Long Lake, similar to historic reported exceedance of chromium at a watercourse draining into Molar Lake, Molar Lake and Long Lake, and cadmium at Molar Lake.
- Chromium values ranged from 2 to 85 mg/kg compared to the historic range of 9 to 71 mg/kg.
- Cadmium values ranged from below the RDL to 0.99 mg/kg compared to historic values ranging from 0.15 to 0.65 mg/kg.
- Copper exceeded once at Daviault Lake, while in Stantec report it was reported to exceed at Molar Lake. Values ranged from 1.4 to 46 mg/kg compared to historic values ranging from 1 to 37 mg/kg.
- Zinc values ranged from 7.4 to 220 mg/kg compared to historic values ranging from 8 to 130 mg/kg. Both recent and historic samples were found to exceed the ISQG guideline of 123 mg/kg.
- In addition, some metals (arsenic, lead, and mercury), that were not reported to exceed, were also observed to exceed relevant sediment quality guidelines in some samples.
- Arsenic values ranged from below the RDL to 7.4 mg/kg compared to historic values ranging from 1 to 2.6 mg/kg. Recent samples were found to exceed the ISQG guideline of 5.9 mg/kg.
- Lead values ranged from below the RDL to 58 mg/kg compared to historic values ranging from 1.1 to 16 mg/kg. Recent samples were found to exceed the ISQG guideline of 35 mg/kg.
- Mercury values ranged from below the RDL to 0.23 mg/kg compared to historic values ranging from below the RDL to 0.17 mg/kg. Recent samples were found to exceed the ISQG guideline of 0.17 mg/kg.

5.6.6 Sediment Quality Summary

Sediment quality sampling was conducted at 23 stations (lakes and watercourses) in the Project Site. Samples were collected during three sampling events in 2023. Samples were analyzed for several parameters including general chemistry, anions and nutrients, and metals. The results of laboratory investigations demonstrated the following:

- Sediment samples at lakes and watercourses were generally sand-dominated, except two samples at Daviault Lake and Molar Lake, which were found to dominate with silt and clay, and showed some seasonal variations in grain sizes of clay, sand, and silt.
- Sediment samples at lakes and watercourses were below relevant sediment quality guidelines, noting that the concentrations of some metals (i.e., arsenic, cadmium, chromium, copper, lead, mercury, and zinc) were elevated at 13 locations.
- Compared to historic sediment quality parameters (Stantec 2012), sediment quality parameters at lake and watercourse (stream) stations reported herein generally demonstrated similar characteristics.

6.0 KEY FINDINGS

The 2023-2024 surface water baseline program was carried out to gain a better understanding of the baseline hydrological and water quality conditions of waterbodies (i.e., lakes and ponds) and watercourses (i.e., rivers and streams) within the proposed Project site. The 2023-2024 baseline program supplements previous sampling programs, which took place in 2011-2012 (Stantec 2012). A summary of the monitoring programs from 2011 to 2024 for this Project is summarized in Table 6-1.

Table 6-1: Summary of Surface Water Monitoring

	2011	2012	2023	2024
Hydrological Monitoring	x	x	x	x
Climate and Precipitation[(a)]	x	-	x	-
Water Level	x	x	x	x
Flow Measurements	x	-	x	x
Water Quality	x	x	x	x
Sediment Quality	x	x	x	-

Note: (a) Climate and precipitation data were obtained from the nearest Environment and Climate Change Canada (ECCC) meteorological stations.

The 2023-2024 surface water campaigns were conducted to characterize the existing surface water quality and quantity in the watersheds within the vicinity of the Kami Project. The key findings of the study are as follows:

- The climate data at Wabush Airport showed that total precipitation in 2023 was 13% below the average of the preceding 5 years and during 2023 August received the most precipitation and January received the least.
- Lake Column profiles investigation showed that:
  - The pH conditions at all lake basin stations were generally near neutral.
  - Temperature profiles at each station in spring (June) were within the expected ranges.
  - Water column profiles at each of the lake basin stations showed relatively stable electrical conductivity and dissolved oxygen with depth.
- Water level monitoring at six lake stations showed that:
  - The water levels were generally observed to gradually decrease from June 2023 to August 2023 (spring to summer), gradually increase from August 2023 to October 2023 (summer to fall) correlating with rain events and again gradually decrease in winter months.
  - The water levels were observed to increase from April 2024 that peaked in May 2024 and were attributed to spring freshest and / or beaver activity.
  - The water levels generally reported a marked response to rain events except at two lake outlets (Long Lake and Mills Lake).

- Both water level and flow monitoring at twelve (12) additional watercourses and lake water level stations showed that:
  - Similar to lake water levels, watercourse station water levels were generally observed to gradually decrease from June 2023 to August 2023 (spring to summer), gradually increase from August 2023 to October 2023 (summer to fall) and again gradually decrease in winter months of 2023 and 2024.
  - The water levels were observed to increase from April 2024 that peaked in May 2024 and were attributed to spring freshest and / or beaver activity.
  - Flow and/or water level hydrographs at the watercourse and lake stations were in correlation with rain events generating moderate to high flows.
  - Water levels at most of the watercourse stations exhibited a marked, but gradual response to major rain events, except three watercourse stations that exhibited rapid and flashy hydrologic response to precipitation events characterized by higher peaks with steep rising and falling limbs.
- Water and sediment quality investigations demonstrated that, with some exceptions, the stations located in watercourses and lakes were below the relevant water and sediment quality guidelines (CCME 1999a and CCME 1999b) with few exceptions.
- Sampling for fecal and total coliform at Long Lake was identified as a commitment in the Comprehensive Study Report (Canadian Environmental Assessment Agency (CEAA), October 2013). However, due to challenges pertaining to sampling hold time and logistics, the fecal and total coliform sampling could not be completed during 2023-2024 field campaigns.
- Compared to historic water and sediment quality parameters reported in 2011-2012 (Stantec 2012), the parameters at lake and watercourse (stream) stations reported herein were generally in similar range and demonstrated similar characteristics. As discussed in Section 5.5.6 and 5.6.5, the number of sampling stations and the samples collected in this study were significantly greater than the historic data reported in Stantec Report (Stantec 2012); therefore, 2023-2024 surface water campaign provides a better understanding of the baseline conditions of lakes and watercourses within the vicinity of the proposed Kami Project.

Potential effects to surface water from the proposed Project will be further examined in the EIS, following the requirements of the Environmental Impact Statement Guidelines (Newfoundland and Labrador Department of Environment and Climate Change, December 2024). The Guidelines outline the relevant EIS requirements for the assessment of effects to water resources, including but not limited to requirements for the baseline study, effects assessment, and environmental protection mitigation and plans. This report addresses Section 4.3.2 (a) of the EIS Guidelines to document baseline conditions for water resources in the Project study area. Some items under Section 4.3.2 (a) are not addressed in this Surface Water Baseline Report as they relate to the assessment of effects to surface water from the Project; however, these items will be addressed in the EIS.

The baseline data will be used to assess effects from the Project including cumulative effects, and to inform the Groundwater and Surface Water Monitoring Program, which will be included with the EIS.

Signature Page

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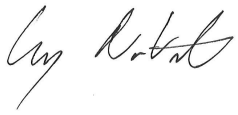
Mohsin Siddique, P.Eng (ON).
Experienced Water Resources Engineer



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https://wsponline-my.sharepoint.com/personal/trisha_truong_wsp_com/documents/documents/surface_water_baseline_report_rev0.docx

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APPENDIX A

Photographs

Photograph 1: Daviault Lake on June 14, 2023.

Photograph 2: DL-01 water level logger on June 14, 2023.

Photograph 3: Benchmark #1 at DL-01 on June 14, 2023.

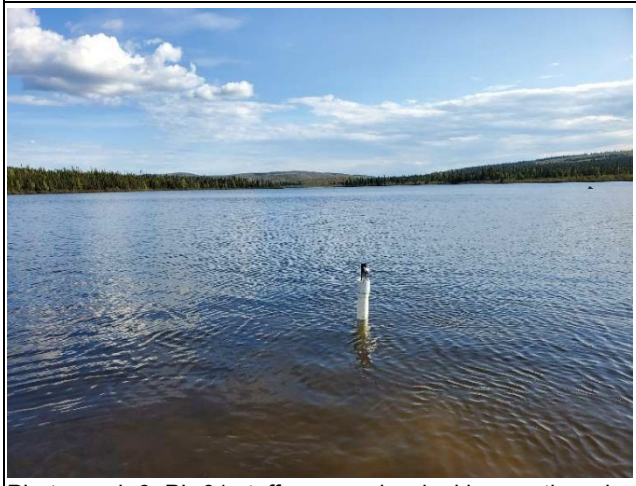
Photograph 4: Long Lake; view looking south and upstream on June 8, 2023.

Photograph 5: River mouth; view looking north and downstream of Long Lake on June 8, 2023.

Photograph 6: River mouth; view looking south and upstream of Long Lake on June 8, 2023.

Photograph 7: LL-01 staff gauge facing the shore of Long Lake on June 8, 2023.

Photograph 8: MIL-01 staff gauge; view looking southwest and upstream on June 13, 2023.



Photograph 9: PL-01 staff gauge; view looking south and upstream on June 11, 2023.

Photograph 10: Shore of Pike Lake near PL-01; view looking north and downstream on June 11, 2023.

Photograph 11: unnamed stream reporting to Pike Lake; view looking north and downstream of WC-01 on June 12, 2023.

Photograph 12: WC-01 staff gauge; view looking east on June 12, 2023.

Photograph 13: WC-02 staff gauge; view looking south and upstream on June 12, 2023.

Photograph 14: unnamed stream downstream of Pike Lake Outlet; looking north and downstream of WC-02 on June 12, 2023.

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Photograph 16: unnamed stream and benchmark #2; view looking east and downstream of WC-03 on June 13, 2023.

Photograph 17: WC-04 staff gauge, view looking southwest and upstream on June 13, 2023.

Photograph 18: unnamed stream; view looking east and downstream of WC-04 on June 13, 2023.

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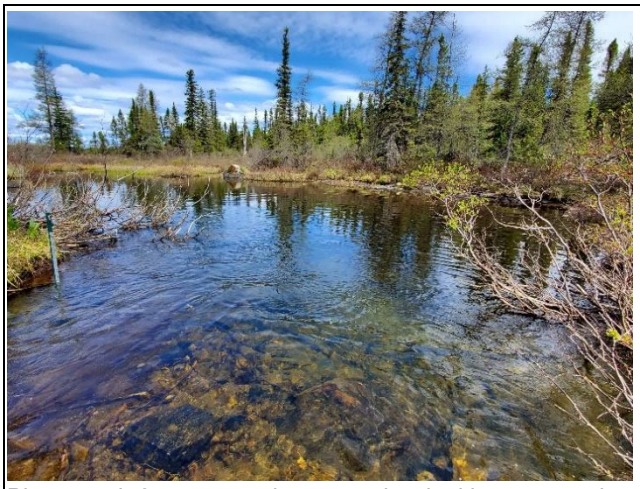
Photograph 20: WC-06 staff gauge; view looking south and upstream on June 10, 2023.

Photograph 21: unnamed stream discharging to Long Lake; view looking north and downstream of WC-06 on June 10, 2023.

Photograph 22: WC-07 staff gauge; view looking southeast and downstream on June 9, 2023.

Photograph 23: unnamed stream discharging to Long Lake; view looking northwest and downstream of WC-07 on June 9, 2023.

Photograph 24: unnamed stream; view looking east and upstream of WC-08 on June 9, 2023.



Photograph 25: unnamed stream; view looking west and downstream of WC-08 on June 9, 2023.

Photograph 26: WC-09 staff gauge; view looking east on June 8, 2023.

Photograph 27: WC-10 staff gauge; view looking east on June 7, 2023.

Photograph 28: unnamed stream reporting to Pike Lake; view looking southwest and upstream of WC-01 on August 12, 2023.

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Photograph 30: MOL-01 staff gauge; view looking north on August 13, 2023.

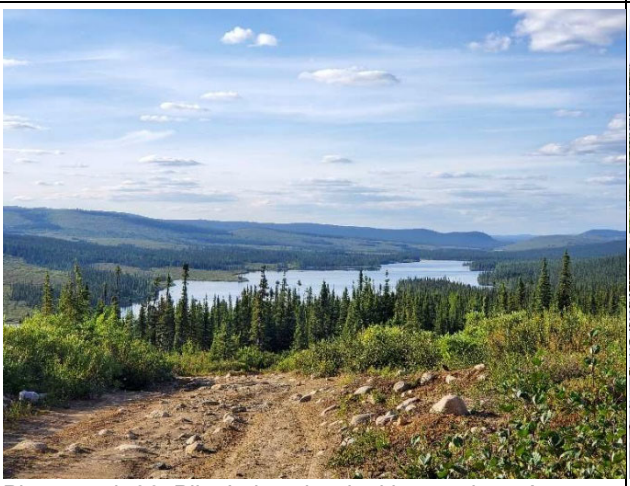
Photograph 31: MOL-01 staff gauge; view looking south on August 13, 2023.

Photograph 32: Daviault Lake shore; view looking northwest on August 11, 2023.

Photograph 33: Sediment sample at LL-02 on August 15, 2023.

Photograph 34: Shore of Mills Lake near MIL-01; view looking northwest on August 14, 2023.

Photograph 35: Mills Lake near MIL-02; view looking north on August 14, 2023.

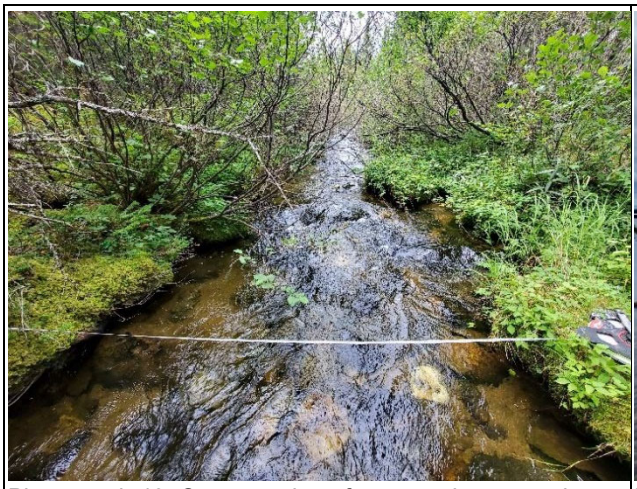


Photograph 36: Pike Lake; view looking north on August 18, 2023.

Photograph 37: Shore of Pike Lake near PL-01; view looking west on August 18, 2023.

Photograph 38: Shore of Riordan Lake near RL-01; view looking northwest and downstream on August 16, 2023.

Photograph 39: WC-01 staff gauge; view looking west on August 12, 2023.



Photograph 40: Cross section of unnamed stream; view looking west and upstream of WC-03 on August 14, 2023.

Photograph 41: unnamed stream and WC-04 staff gauge; view looking west on August 14, 2023.

Photograph 42: Waldorf River; view looking south and upstream of WC-05 on August 10, 2023.

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Photograph 44: WC-07 staff gauge; view looking southeast and upstream on August 10, 2023.

Photograph 45: unnamed stream 25 m downstream of WC- 07 discharging to Long Lake; view looking west on August 10, 2023.

Photograph 46: unnamed stream; view looking west and downstream of WC-08 on August 10, 2023.

Photograph 47: unnamed stream immediately downstream of Long Lake Outlet; view looking south and upstream of WC-09 on August 15, 2023.

Photograph 48: unnamed stream immediately downstream of Long Lake Outlet; view looking north and downstream of WC-09 on August 15, 2023.

Photograph 49: Walsh River; view looking southeast and downstream of WC-10 on August 16, 2023.

Photograph 50: Daviault Lake Outlet; view looking north and upstream on October 14, 2023.

Photograph 51: Daviault Lake Outlet; view looking south and downstream on October 14, 2023.

Photograph 52: LL-01 staff gauge on October 17, 2023.

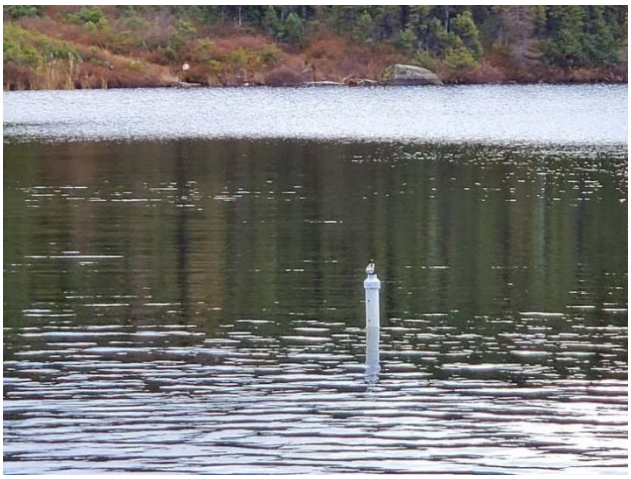
Photograph 53: Sediment sample at MIL-02 on October 21, 2023.

Photograph 54: Mills Lake near MIL-01, view looking southeast on October 21, 2023.

Photograph 55: Mills Lake near MIL-01; view looking northwest on October 21, 2023.

Photograph 56: PL-01 staff gauge; view looking upstream on October 18, 2023.

Photograph 57: Shore of Pike Lake near PL-01; view looking upstream on October 18, 2023.



Photograph 58: RL-01 staff gauge; view looking south and upstream on October 23, 2023.

Photograph 59: Riordan Lake Outlet; view looking southeast and upstream on October 23, 2023.

Photograph 60: Riordan Lake Outlet; view looking northwest and downstream on October 23, 2023.

Photograph 61: unnamed stream 25 m downstream of Riordan Lake Outlet; view looking southeast and upstream on October 23, 2023.

Photograph 62: unnamed stream 25 m downstream of Riordan Lake Outlet; view looking northwest and downstream on October 23, 2023

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Photograph 65: WC-02; view looking northeast and downstream of the second beaver dam, on October 18, 2023.

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Photograph 67: Substrate at WC-02 on October 18, 2023.

Photograph 68: unnamed stream 21 m downstream of WC- 03; view looking south on October 20, 2023.

Photograph 69: unnamed stream discharging to Mills Lake; view looking east and downstream on October 20, 2023.

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Photograph 72: Left downstream bank of unnamed stream 25 m downstream of WC-04; view looking east on October 21, 2023.

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Photograph 77: unnamed stream discharging to Long Lake; view looking south and upstream of WC-06 on October 16, 2023.

Photograph 78: unnamed stream 25 m downstream of WC-07 discharging to Long Lake; view looking east on October 16, 2023.

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Photograph 80: unnamed stream 20 m downstream of WC- 08 and discharging to Long Lake; view looking east and upstream on October 17, 2023.

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Photograph 84: Ice thickness measurement at LL-02 (97.8 cm or 38.5 in) on March 20, 2024.

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Photograph 88: River mouth; view looking north and downstream of Long Lake on March 20, 2024.

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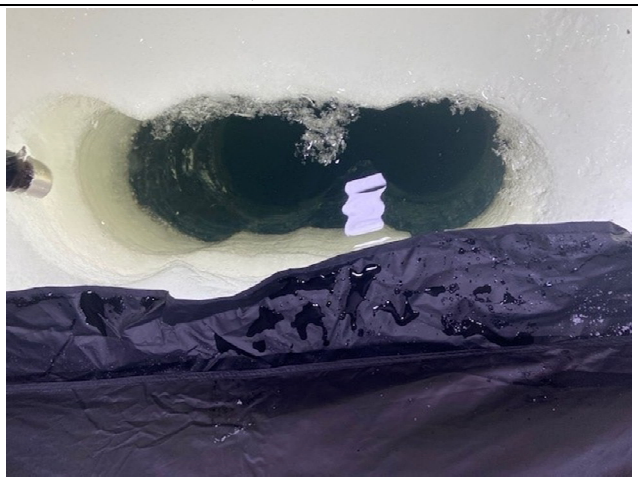
Photograph 90: Pike Lake near PL-01; view looking west of Pike Lake on March 21, 2024.

Photograph 91: Ice thickness measurement at PL-02 on March 22, 2024.



Photograph 92: Ice thickness measurement at PL-02 (74.9 cm or 29.5 in) on March 22, 2024.

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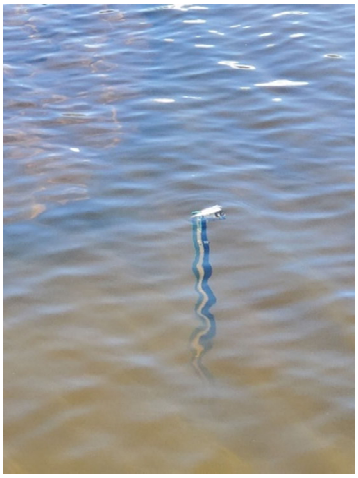
Photograph 118: unnamed stream; view looking northeast and upstream of WC-04 on June 10, 2024.

Photograph 119: Waldorf River; view looking south and upstream of WC-05 on June 5, 2024.

Photograph 120: Waldorf River shoreline; view looking south and upstream of WC-05 on June 5, 2024.



Photograph 121: WC-05 staff gauge fully submerged; taken on June 5, 2024.

Photograph 122: Flow transect of WC-05 on June 5, 2024.

Figure 123: Waldorf River; view looking north and downstream of WC-05 on June 5, 2024.

Photograph 124: unnamed stream discharging to Long Lake; view looking southeast and upstream of WC-06 on June 5, 2024.

Photograph 125: WC-06 staff gauge on June 5, 2024.

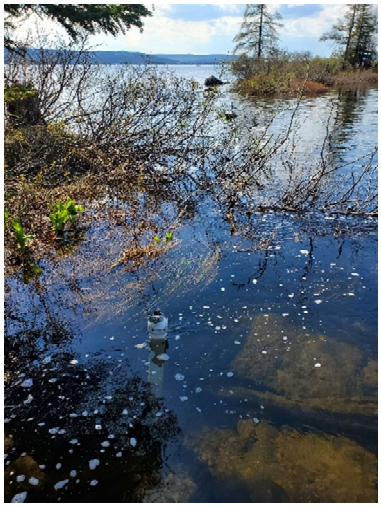
Photograph 126: unnamed stream discharging to Long Lake; view looking northeast and downstream of WC-06 on June 5, 2024.

Photograph 127: unnamed stream discharging to Long Lake; view looking southeast and upstream of WC-07 on June 5, 2024.

Photograph 128: WC-07 staff gauge on June 5, 2024.

Photograph 129: unnamed stream discharging to Long Lake; view looking northwest and downstream of WC-07 on June 5, 2024.

Photograph 130: unnamed stream; view looking east and upstream of WC-08 on June 5, 2024.



Photograph 131: WC-08 staff gauge; view looking west and downstream on June 5, 2024.

Photograph 132: unnamed stream 20 m downstream of WC-08; view looking west and downstream on June 5, 2024.

Photograph 133: unnamed stream; view looking south and upstream of WC-09 on June 12, 2024.

Photograph 134: WC-09 looking east, upstream of bridge June 12, 2024.

Photograph 135: WC-09 staff gauge; view looking south on June 12, 2024.

Photograph 136: WC-09 staff gauge was found bent on June 12, 2024.

Photograph 137: unnamed stream immediately downstream of Long Lake Outlet; view looking north and downstream of WC-09 on June 12, 2024.

Photograph 138: Walsh River; view looking northwest and upstream of WC-10 on June 12, 2024.

Photograph 139: WC-10 staff gauge; view looking north on June 12, 2024.

Photograph 140: Walsh River 500 meters downstream of WC-10; view looking southeast and downstream of WC-10 on June 12, 2024.

Photograph 141: Walsh River; view looking southeast and immediately downstream of WC-10 on June 12, 2024.

Photograph 142: Molar Lake; view looking southwest on June 8, 2024.

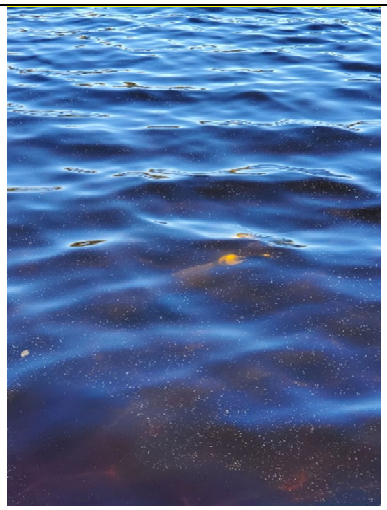
Photograph 143: MOL-01 staff gauge, view looking west on June 8, 2024.

Photograph 144: Daviault Lake on June 6, 2024.

Photograph 145: DL-01 water level logger on June 6, 2024.

Photograph 146: Daviault Lake shoreline on June 6, 2024.

Photograph 147: Daviault Lake Outlet; view looking northwest and upstream on June 6, 2024.



Photograph 148: LL-01 staff gauge was found bent and fully submerged on June 6, 2024.

Photograph 149: LL-01 staff gauge was moved to its upright position; view looking south of Long Lake on June 6, 2024.

Photograph 150: Mills Lake near MIL-01; view looking northwest on June 9, 2024.

Photograph 151: Shore of Mills Lake near MIL-01; view looking north on June 9, 2024.

Photograph 152: MIL-01 staff gauge was found bent by 45°angle on June 10, 2024.

Photograph 153: MIL-01 was moved back into upright position and placed back into initial install position on June 10, 2024.

Photograph 154: Pike Lake; view looking north on June 10, 2024.

Photograph 155: Outlet of Pike Lake to WC-02 taken near PL-01; view looking north and downstream on June 10, 2024.

Photograph 156: PL-01 staff gauge; view looking east on June 9, 2024.

Photograph 157: Shore of Riordan Lake near RL-01; view looking southeast and upstream on June 7, 2024.

Photograph 158: RL-01 staff gauge flat lined due to freezing of lake.

Photograph 159: RL-01 was re-installed further into lake bed on June 7, 2024.

Photograph 160: Riordan Lake Outlet; view looking southeast and upstream on June 7, 2024.

Photograph 161: Riordan Lake Outlet; view looking northwest and downstream on June 7, 2024.

Photograph 162: The right downstream bank of the cross section at the Riordan Lake outlet.

Photograph 163: The left downstream bank of the cross section at the Riordan Lake outlet.

Photograph 164: Daviault Lake Outlet; view looking northwest and upstream on June 6, 2024.

Photograph 165: Daviault Lake Outlet; view looking southeast and downstream on June 6, 2024.

Photograph 166: Right downstream bank of cross section of Daviault Lake outlet on June 6, 2024.

Photograph 167: Left downstream bank of cross section of Daviault Lake outlet on June 6, 2024.

Photograph 168: unnamed stream reporting to Pike Lake; view looking south and upstream of WC-01 on Aug 7, 2024.

Photograph 169: unnamed stream downstream of WC-01; view looking north on Aug 7, 2024.

Photograph 170: WC-01 staff gauge looking northeast on Aug 7, 2024.

Photograph 171: Flow transect at WC-01 on Aug 7, 2024.

Photograph 172: WC-01 staff gauge looking northeast on Aug 7, 2024.

Photograph 173: unnamed stream downstream of Pike Lake; looking north and downstream of WC-02 on Aug 7, 2024.

Photograph 174: unnamed stream, view looking south and upstream of WC-02 on Aug 7, 2024.

Photograph 175: Flow transect at WC-02 on Aug 7, 2024.

Photograph 176: Dam on unnamed creek; looking south and upstream on Aug 7, 2024.

Photograph 177: WC-02 staff gauge on Aug 7, 2024.

Photograph 178: Dam at unnamed stream downstream of Pike Lake Outlet; looking northeast and downstream of WC-02 on Aug 7, 2024.

Photograph 179: Dam from staff gauge on unnamed stream; view looking southwest and upstream of WC-02 on Aug 7, 2024.

Photograph 180: WC-03 staff gauge; view looking south on Aug 3, 2024.

Photograph 181: unnamed stream, 21 m downstream of WC-03; view looking east and downstream on Aug 3, 2024.

Photograph 182: unnamed stream; view looking southwest and upstream of WC-04 on Aug 3, 2024.

Photograph 183: Flow transect of WC-04; view looking southwest on Aug 3, 2024.

Photograph 184: Flow transect of WC-04; view looking northwest on Aug 3, 2024.

Photograph 185: WC-04 staff gauge; taken on Aug 3, 2024.

Photograph 186: Flow transect of WC-04; view looking north on Aug 3, 2024.

Photograph 187: Waldorf River; view looking south and upstream of WC-05 on Aug 2, 2024.

Photograph 188: Beaver Dam; view looking north and downstream of WC-05 on Aug 2, 2024.

Photograph 189: WC-05 staff gauge taken on Aug 2, 2024.

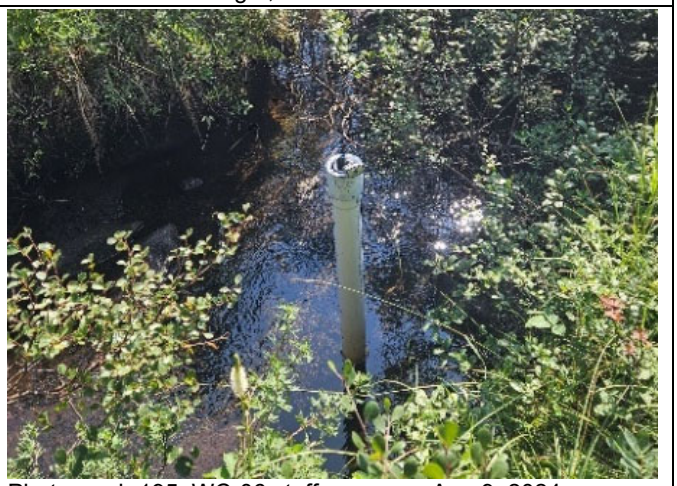
Photograph 190: Flow location of WC-05 on Aug 2, 2024.

Figure 191: Waldorf River; view looking north and downstream of WC-05 on Aug 2, 2024.

Photograph 192: Flow location; view looking south and upstream of WC-05 on Aug 2, 2024.

Photograph 193: Staff Gauge; view looking towards shore at west of WC-05 on Aug 2, 2024.

Photograph 194: unnamed stream discharging to Long Lake; view looking southeast and upstream of WC-06 on Aug 9, 2024.



Photograph 195: WC-06 staff gauge on Aug 9, 2024.

Photograph 196: unnamed stream discharging to Long Lake; view looking northeast and downstream of WC-06 on Aug 9, 2024.

Photograph 197: unnamed stream discharging to Long Lake; view looking northeast and downstream at the vegetation of WC-06 on Aug 9, 2024.

Photograph 198: unnamed stream discharging to Long Lake; vegetation view looking southeast and upstream of WC-07 on Aug 9, 2024.

Photograph 199: unnamed stream discharging to Long Lake; view looking southeast and upstream of WC-07 on Aug 9, 2024.

Photograph 200: WC-07 staff gauge on Aug 9, 2024.

Photograph 201: unnamed stream discharging to Long Lake; view looking northwest and downstream of WC-07 on Aug 9, 2024.

Photograph 202: WC-07 staff gauge unlocked with ruler on Aug 9, 2024.

Photograph 203: WC-07 Sampling Location on Aug 9, 2024.

Photograph 204: WC-07 Staff Gauge Water Elevation on Aug 9, 2024.

Photograph 205: WC-08 staff gauge; view looking west and downstream on Aug 9, 2024.

Photograph 206: unnamed stream upstream of WC-08 on Aug 9, 2024.

Photograph 207: unnamed stream; view looking southeast and upstream of WC-09 on Aug 6, 2024.

Photograph 208: WC-09 looking east, upstream of bridge Aug 6, 2024.

Photograph 209: WC-09 staff gauge; view looking south on Aug 6, 2024.

Photograph 210: WC-09 staff gauge elevation on Aug 6, 2024.

Photograph 211: Staff Gauge of WC-09 on Aug 6, 2024.

Photograph 212: Walsh River; view looking northwest and upstream of WC-10 on Aug 4, 2024.

Photograph 213: WC-10 staff gauge; view looking north on Aug 4, 2024

Photograph 214: Walsh River; view looking southeast and downstream of WC-10 on Aug 4, 2024.

Photograph 215: Walsh River; view looking southeast and immediately downstream of WC-10 staff gauge on Aug 4, 2024.

Photograph 216: Walsh River; view looking north at WC-10 flow on Aug 4, 2024.

Photograph 217: Walsh River RDB; view looking north at WC-10 flow on Aug 4, 2024.

Photograph 218: WC-13 Staff Gauge in Creek on Aug 8, 2024.

Photograph 219: WC-13; view looking southeast and upstream on Aug 8, 2024.

Photograph 220: WC-13; view looking northwest downstream on Aug 8, 2024.

Photograph 221: WC-13 Vegetation; view looking northwest and downstream on Aug 8, 2024.

Photograph 222: WC-14 Staff Gauge; view looking northwest upstream on Aug 7, 2024.

Photograph 223: WC-14 Downstream; view looking southeast on Aug 7, 2024.

Photograph 224: WC-14 Flow Measurement on unknown creek on Aug 7, 2024.

Photograph 225: WC-15 Staff Gauge on unknown creek; view looking north on Aug 11, 2024.

Photograph 226: WC-15 Upstream unknown creek; view looking south on Aug 11, 2024.

Photograph 227: WC-15 Downstream unknown creek; view looking north on Aug 11, 2024.

Photograph 228: WC-15 unnamed vehicle access road; view looking east on Aug 11, 2024.

Photograph 229: WC-15 unnamed access road to creek; view looking east on Aug 11, 2024.

Photograph 230: WC-15 unnamed trail access to creek; view looking north on Aug 11, 2024.

Photograph 231: WC-16 staff gauge on Aug 11, 2024.

Photograph 232: WC-16 unnamed creek; view looking northwest and downstream gauge on Aug 11, 2024.

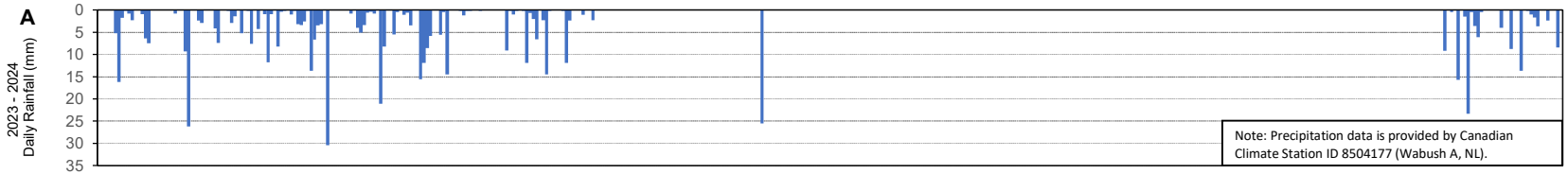
Photograph 233: WC-16 unnamed creek; view looking southeast and upstream gauge on Aug 11, 2024.

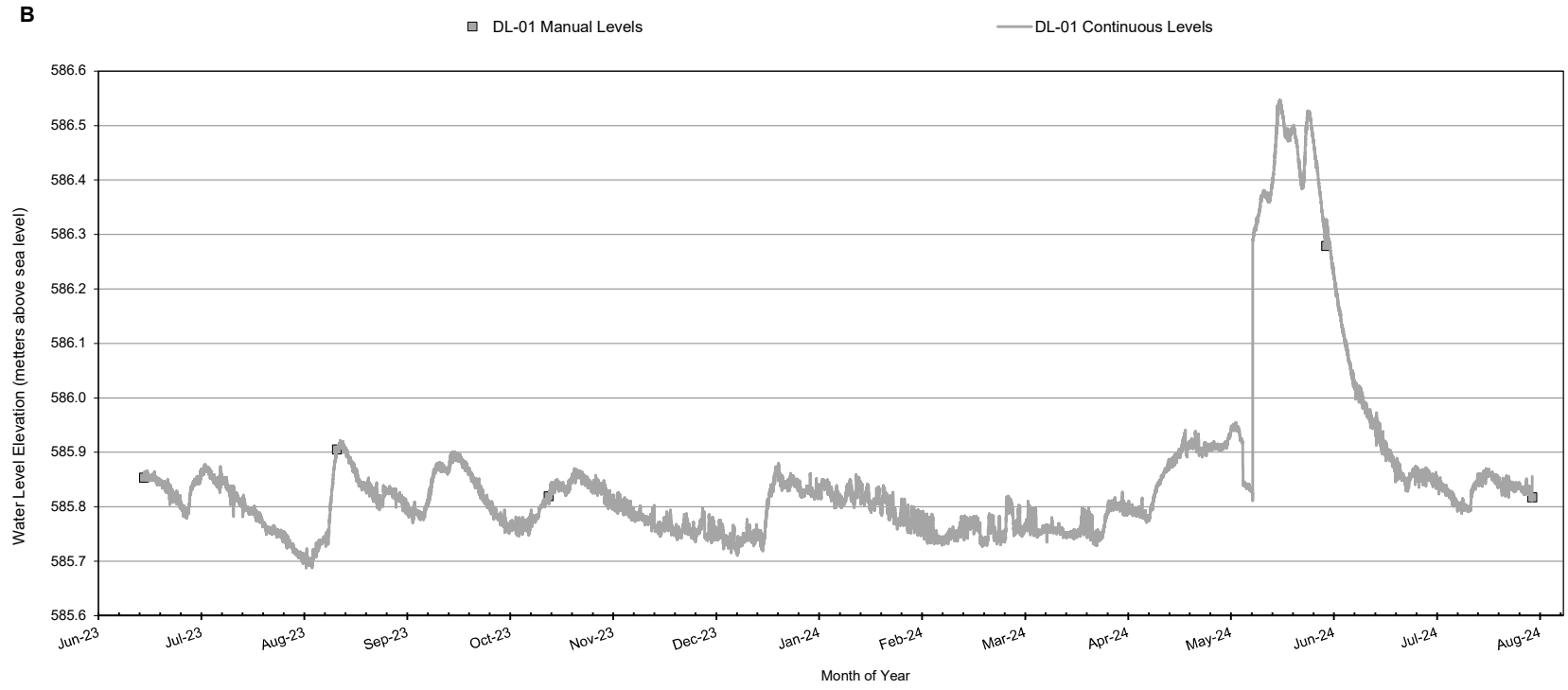
APPENDIX B

Hydrographs

2023 - 2024 Continuous Water Level Monitoring at DL-01

FIGURE B-1





A. Daily Rainfall **B.** Continuous Water Levels at DL-01

PROJECT: CA0003092.5894 (500)

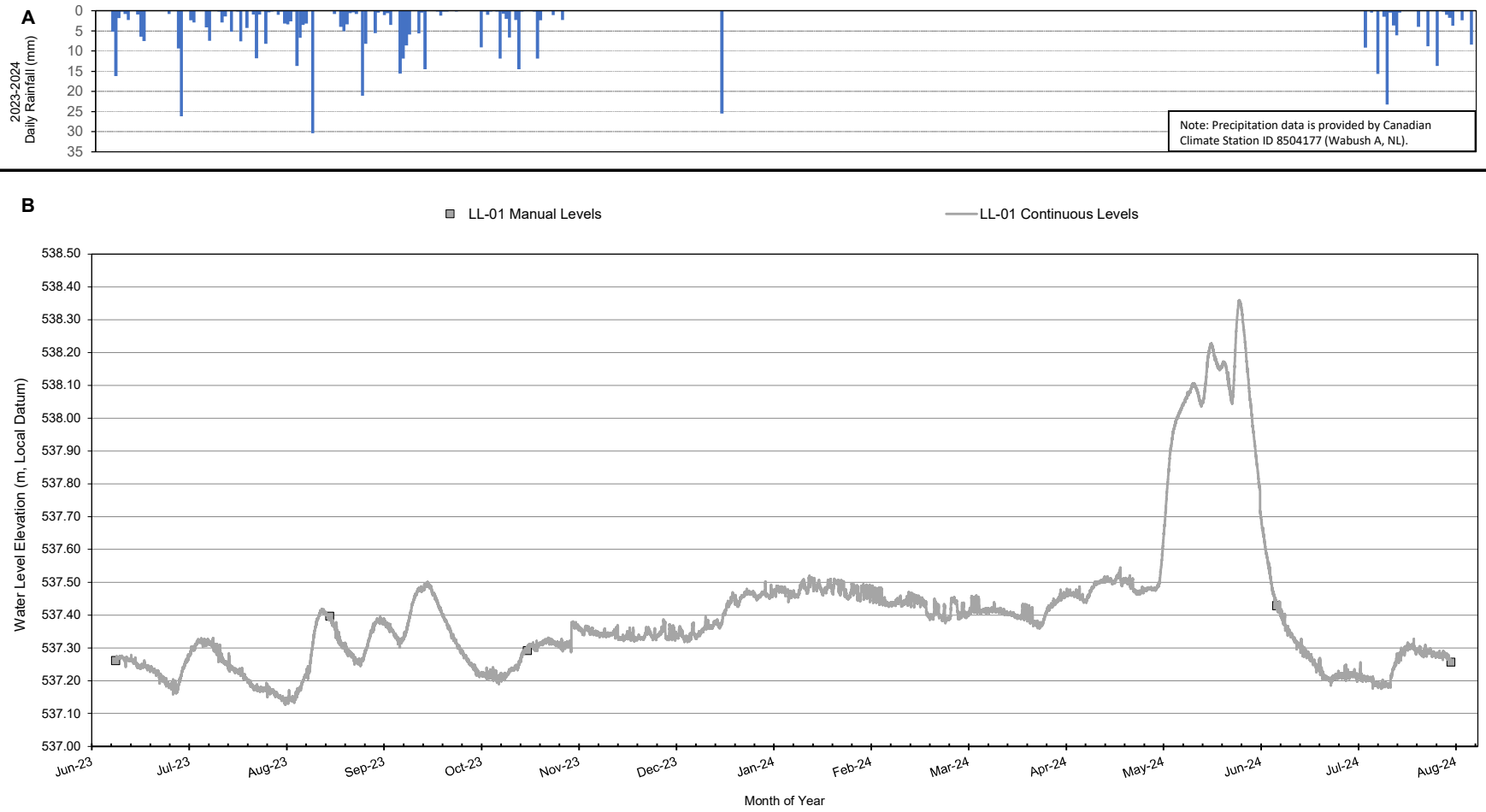
DATE: August 2024

DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level Monitoring at LL-01

FIGURE B-2



A. Daily Rainfall **B.** Continuous Water Levels at LL-01

PROJECT: CA0003092.5894 (500)

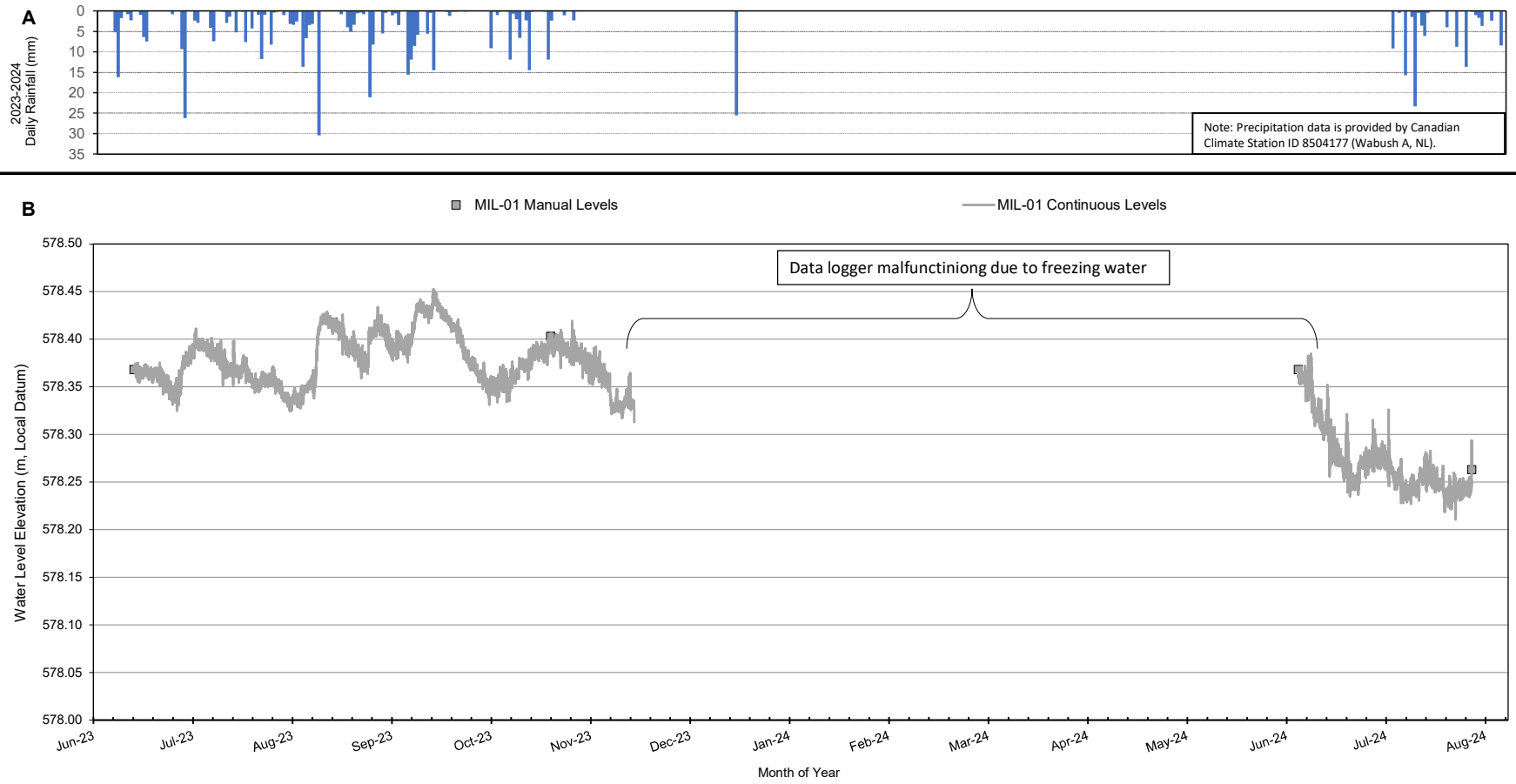
DATE: August 2024

DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level Monitoring at MIL-01

FIGURE B-3



A. Daily Rainfall **B.** Continuous Water Levels at MIL-01

PROJECT: CA0003092.5894 (500)

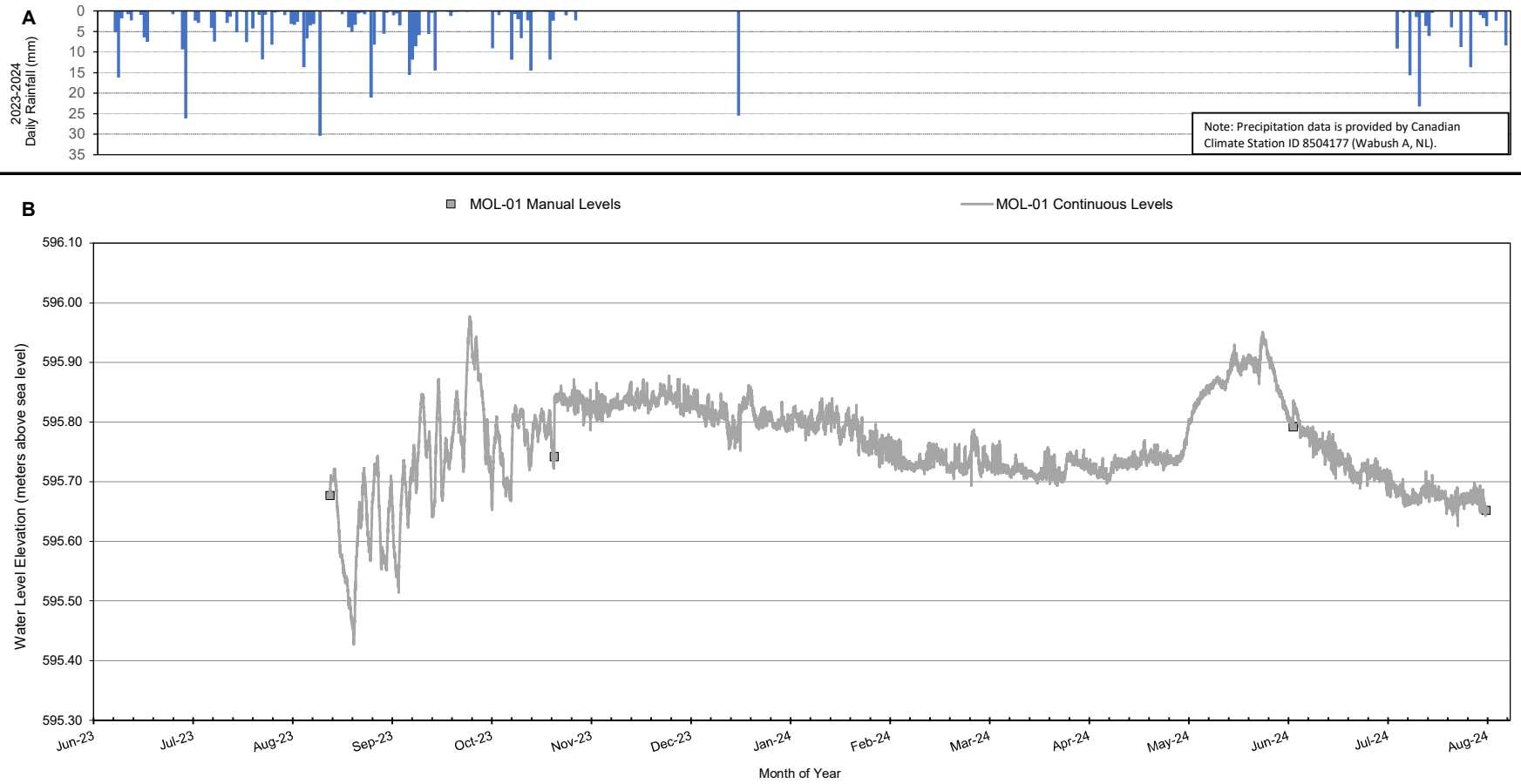
DATE: August 2024

DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level Monitoring at MOL-01

FIGURE B-4



A. Daily Rainfall **B.** Continuous Water Levels at MOL-01

PROJECT: CA0003092.5894 (500)

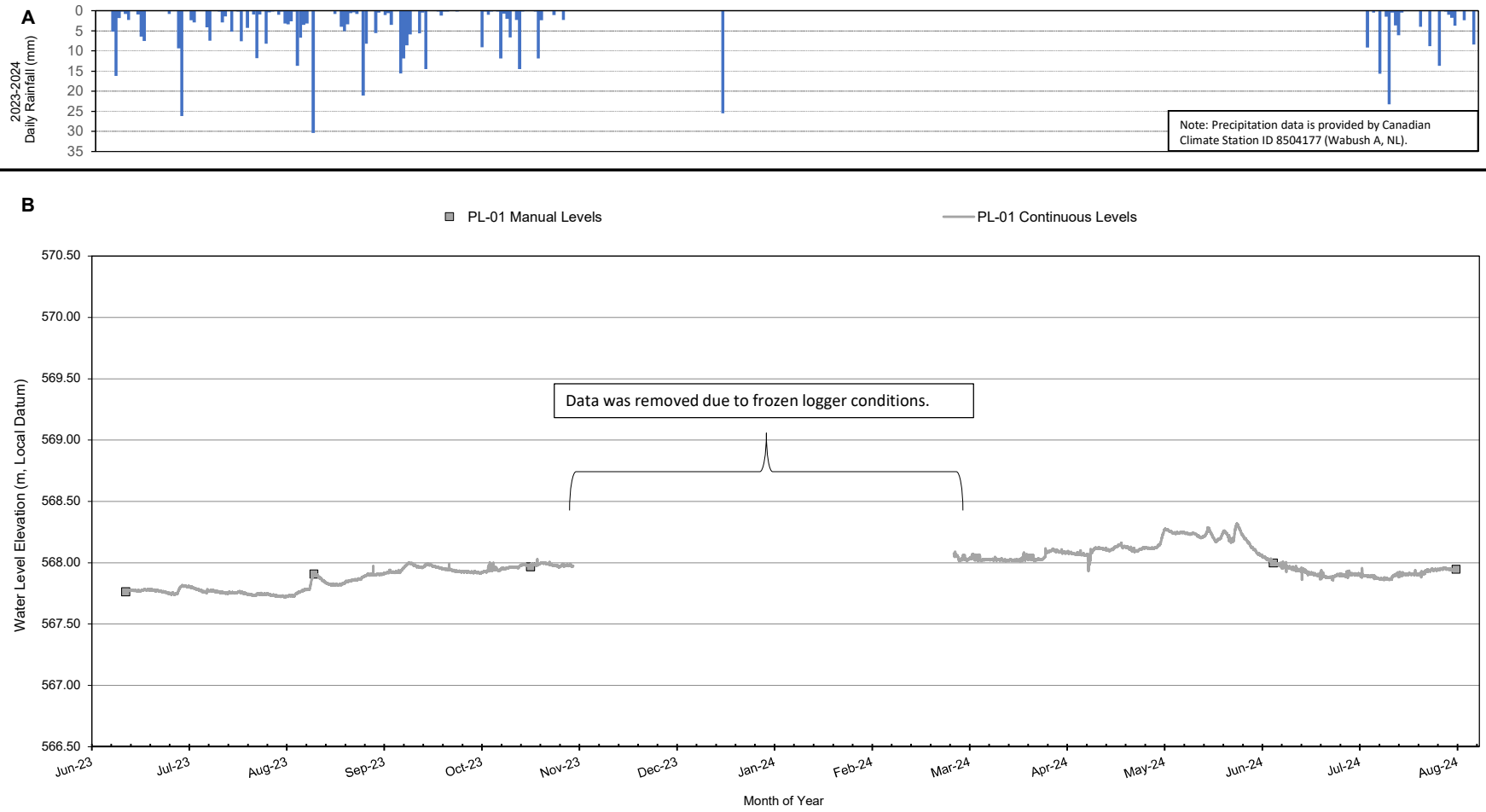
DATE: August 2024

DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level Monitoring at PL-01

FIGURE B-5



A. Daily Rainfall **B.** Continuous Water Levels at PL-01

PROJECT: CA0003092.5894 (500)

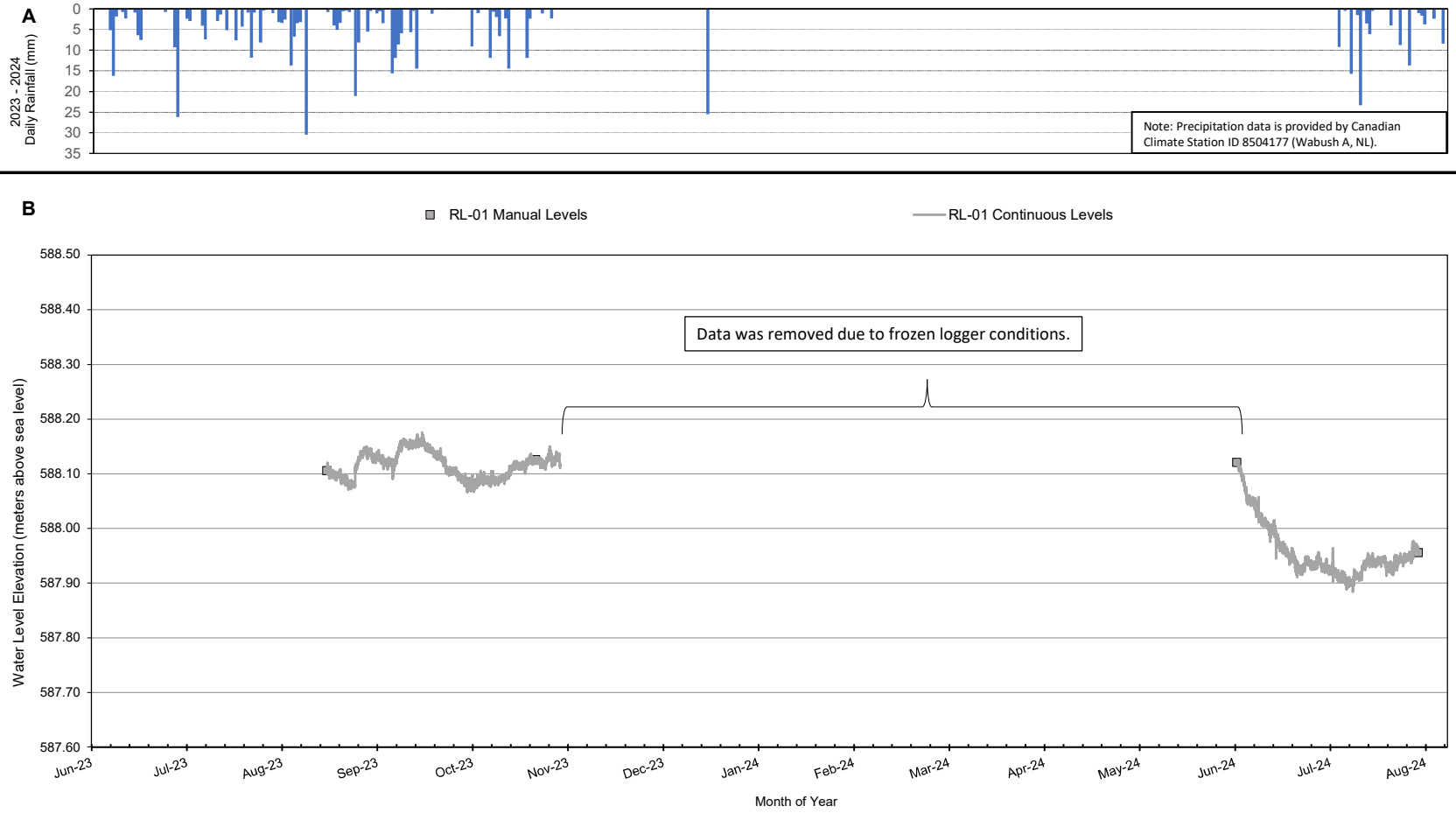
DATE: August 2024

DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level Monitoring at RL-01

FIGURE B-6



A. Daily Rainfall **B.** Continuous Water Levels at RL-01

PROJECT: CA0003092.5894 (500)

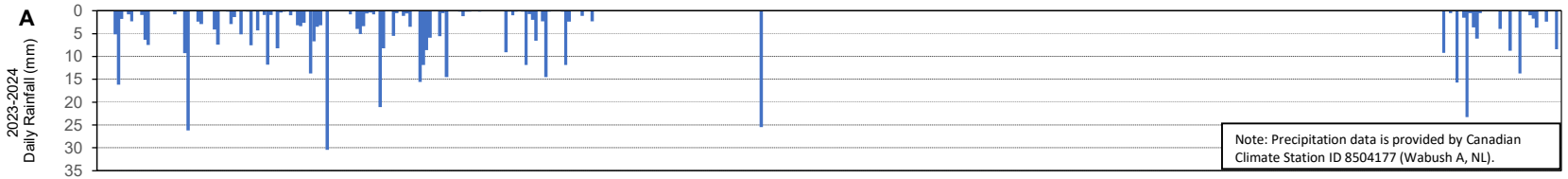
DATE: August 2024

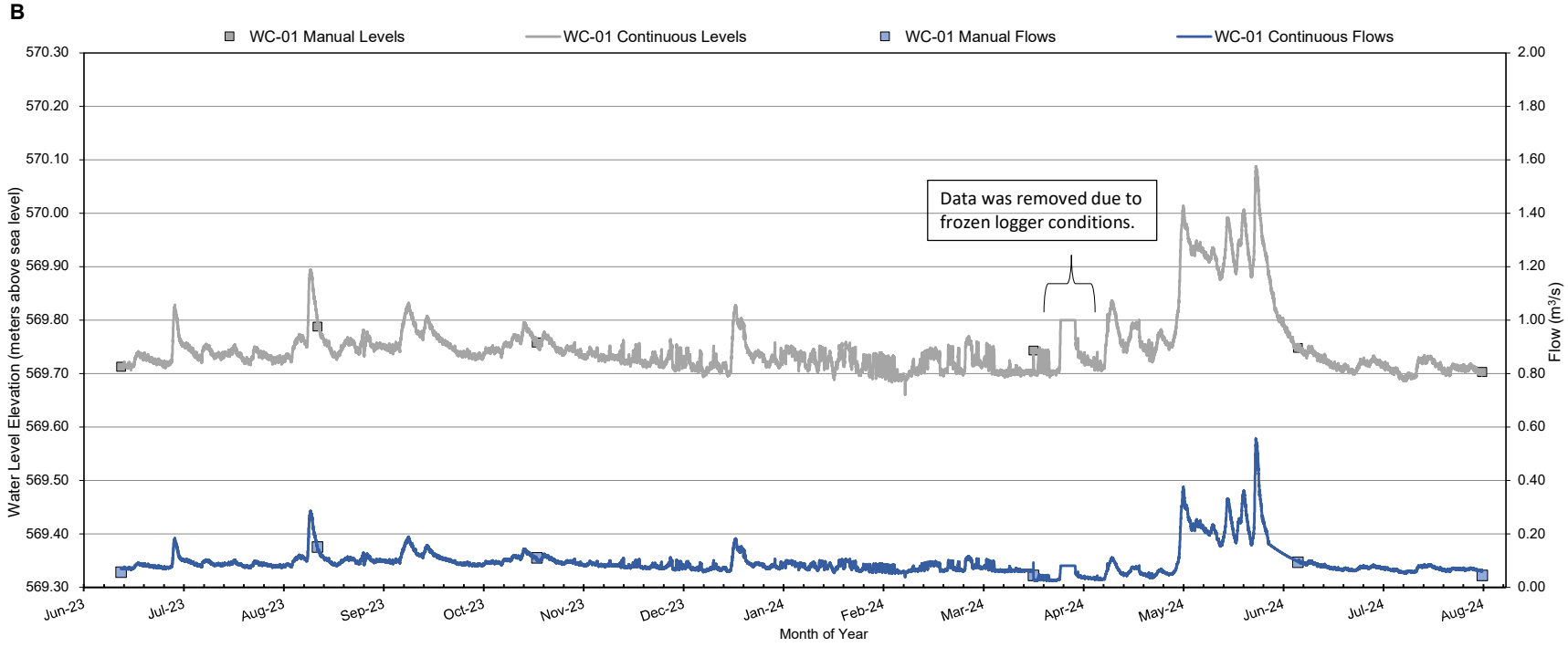
DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-01

FIGURE B-7





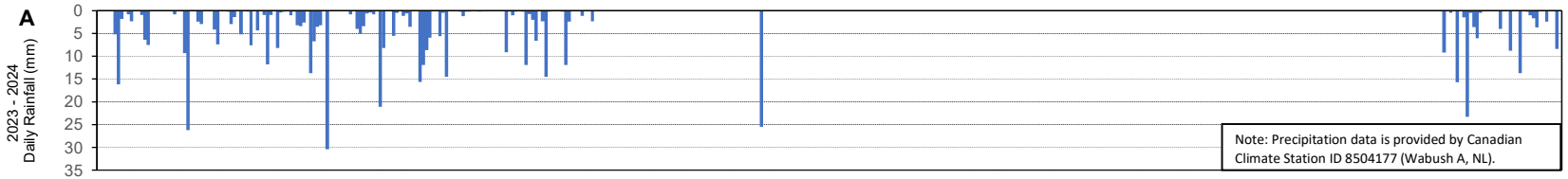
A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-01

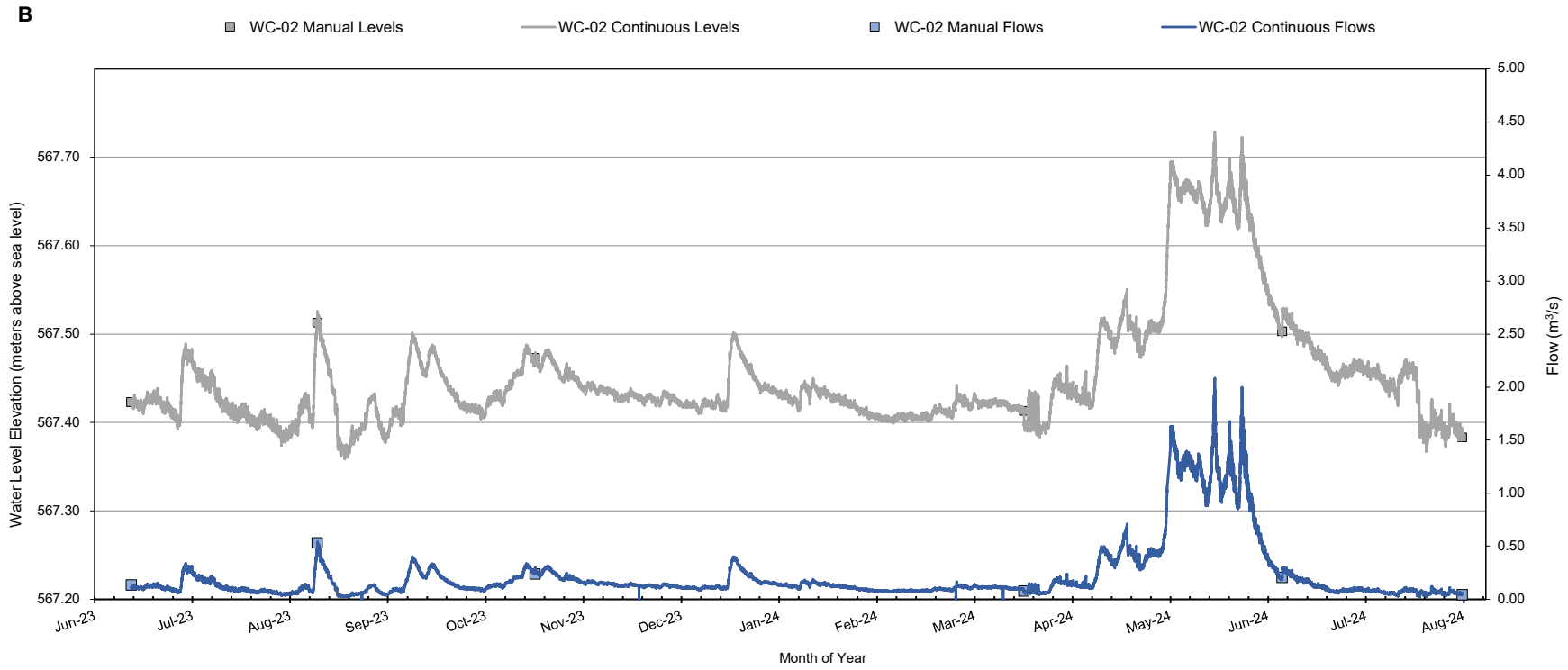
PROJECT: CA0003092.5894 (500)
DATE: August 2024

DRAWN: MS
CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-02

FIGURE B-8





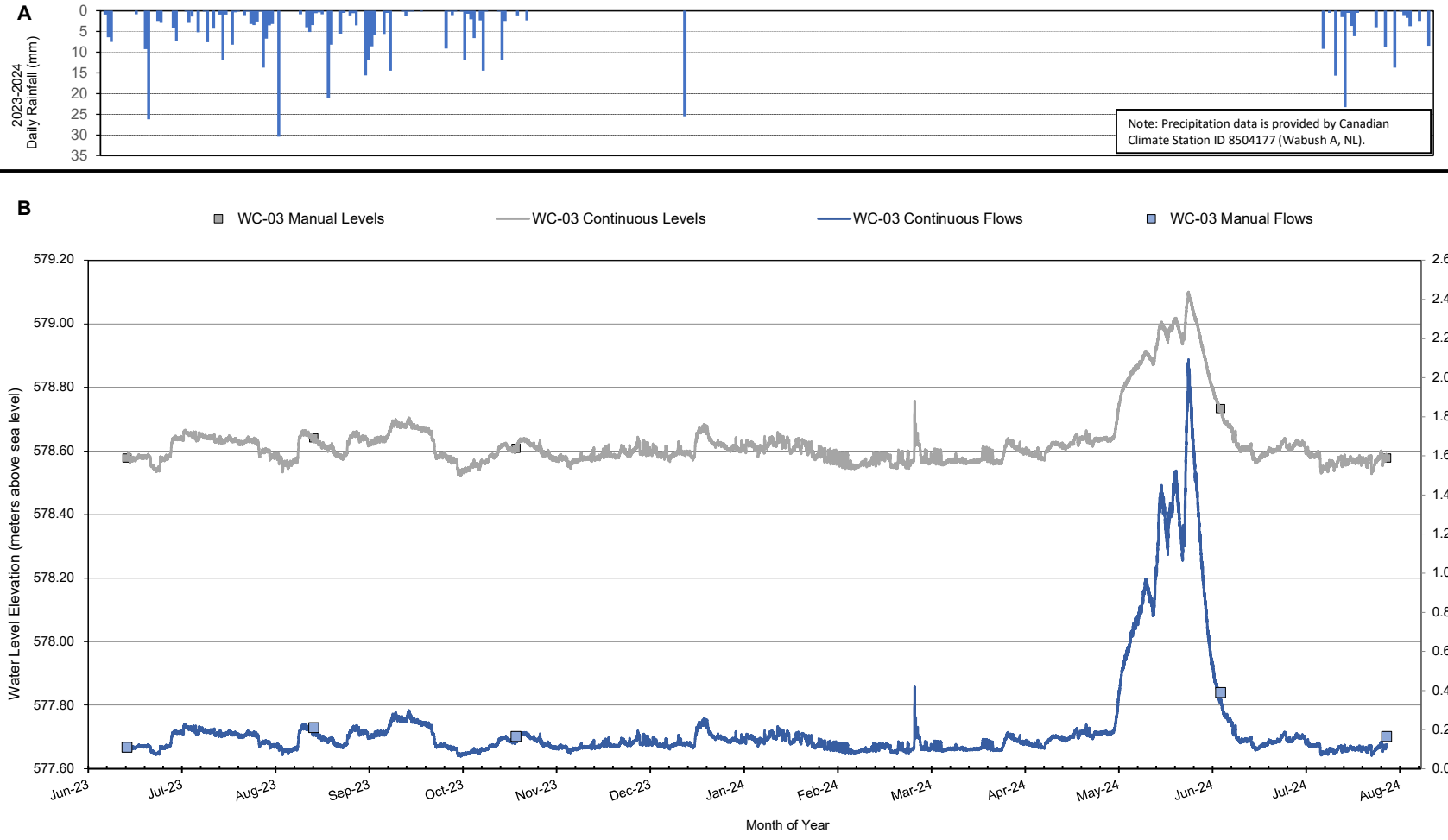
A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-02

PROJECT: CA0003092.5894 (500)
DATE: August 2024

DRAWN: MS
CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-03

FIGURE B-9



A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-03

PROJECT: CA0003092.5894 (500)

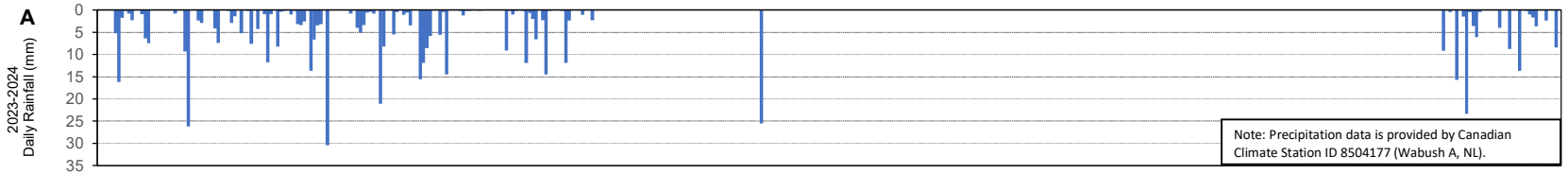
DATE: August 2024

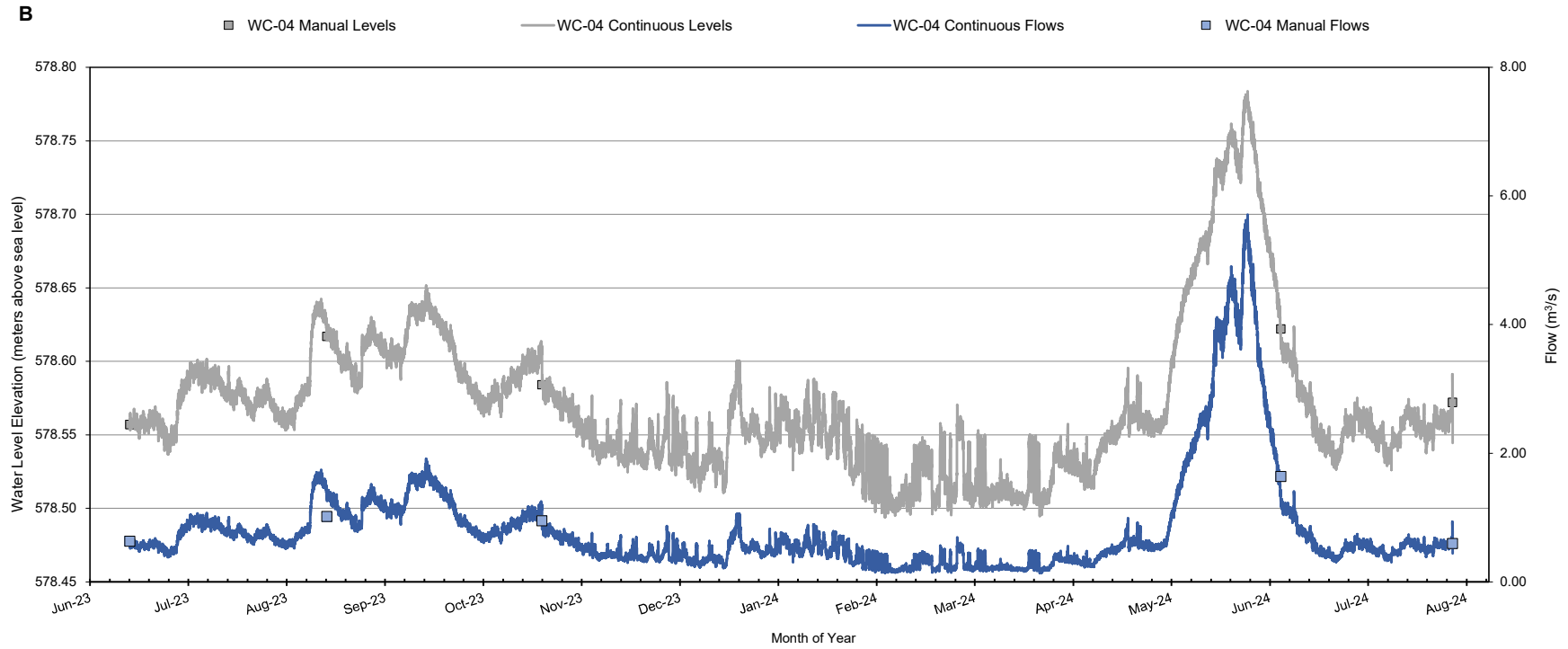
DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-04

FIGURE B-10





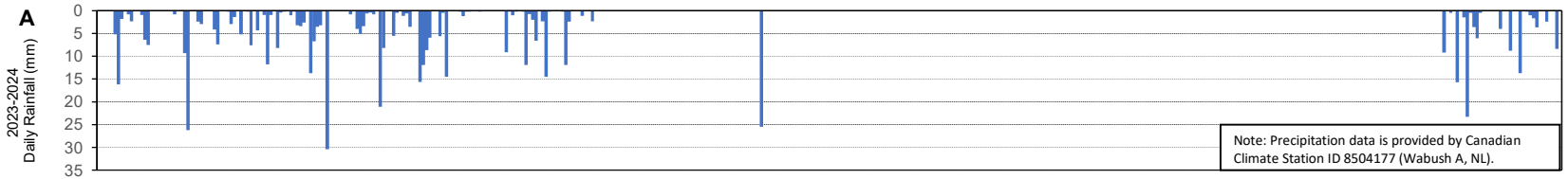
A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-04

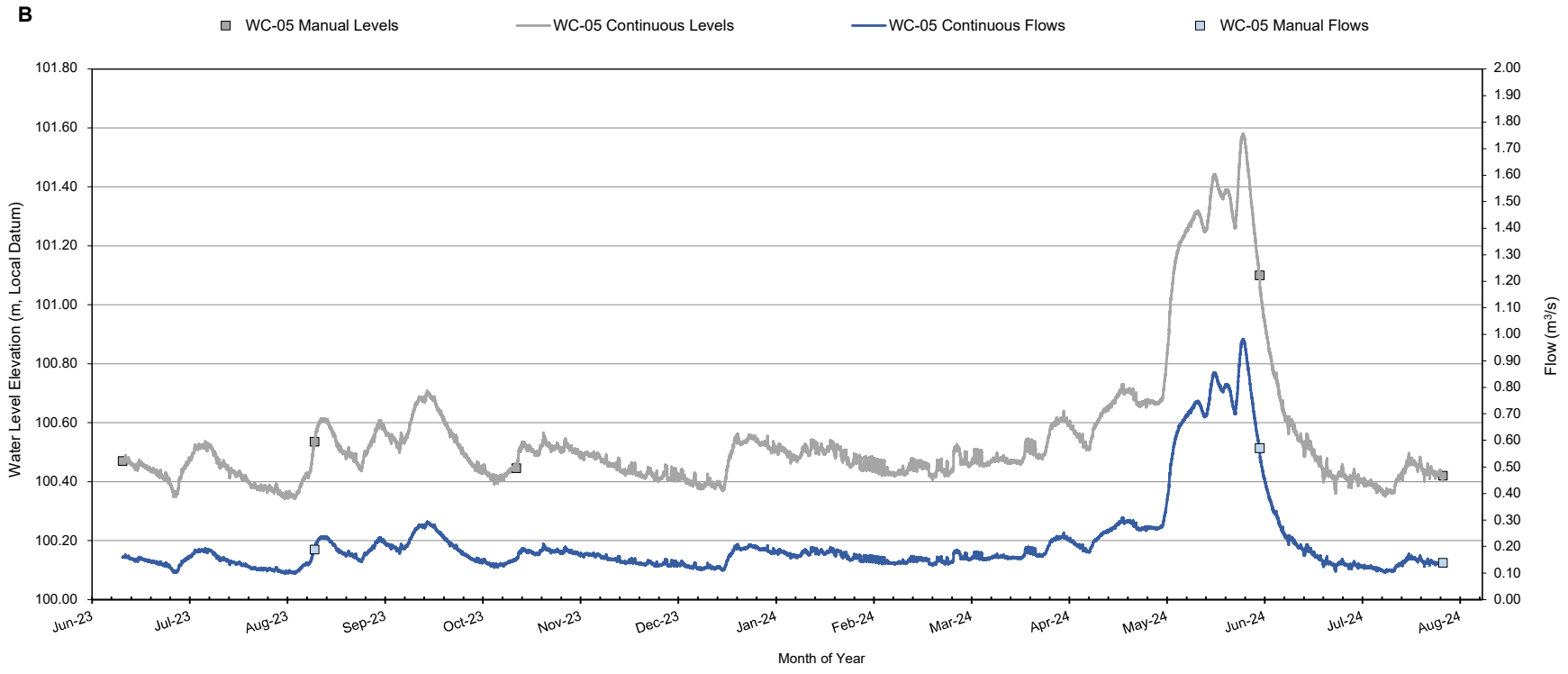
PROJECT: CA0003092.5894 (500)
DATE: August 2024

DRAWN: MS
CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-05

FIGURE B-11





A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-05

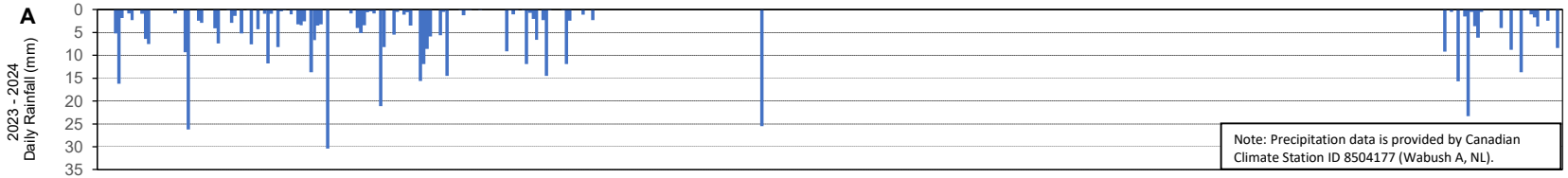
PROJECT: CA0003092.5894 (500)
DATE: August 2024

DRAWN: MS
CHECK: CDV

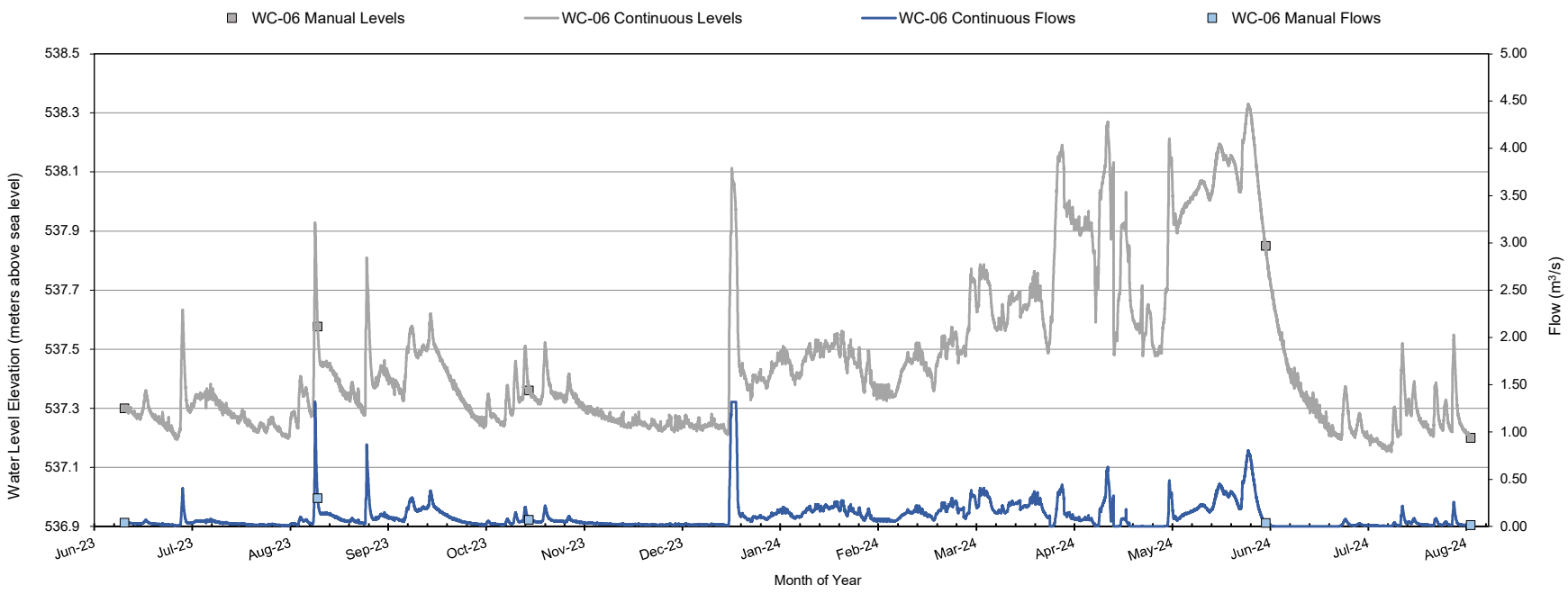
2023 - 2024 Continuous Water Level and Flow Monitoring at WC-06

FIGURE B-12

A



B



A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-06

PROJECT: CA0003092.5894 (500)

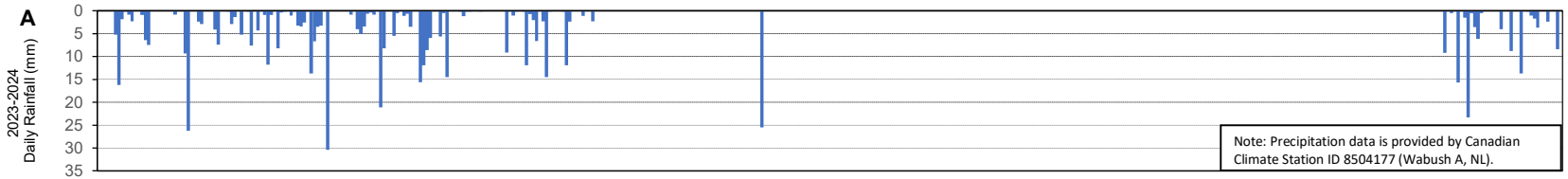
DATE: August 2024

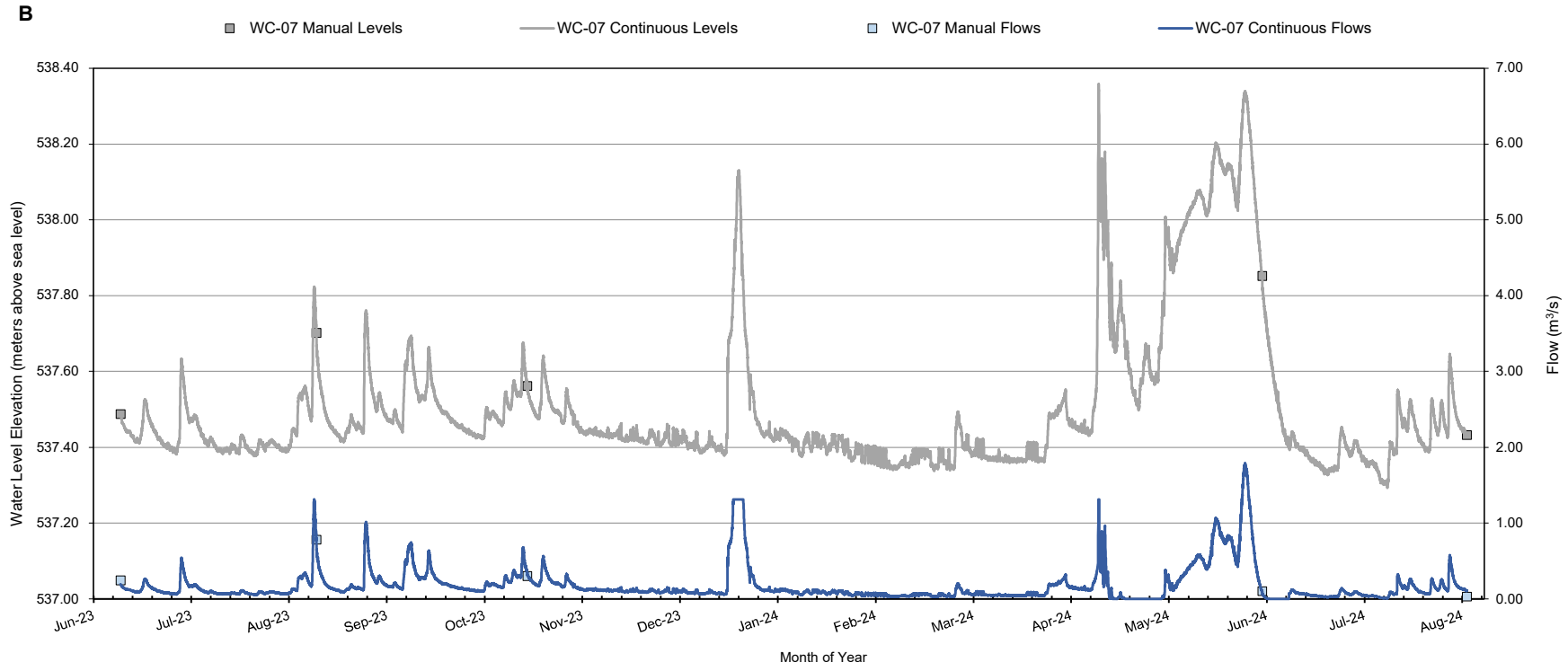
DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-07

FIGURE B-13





A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-07

PROJECT: CA0003092.5894 (500)

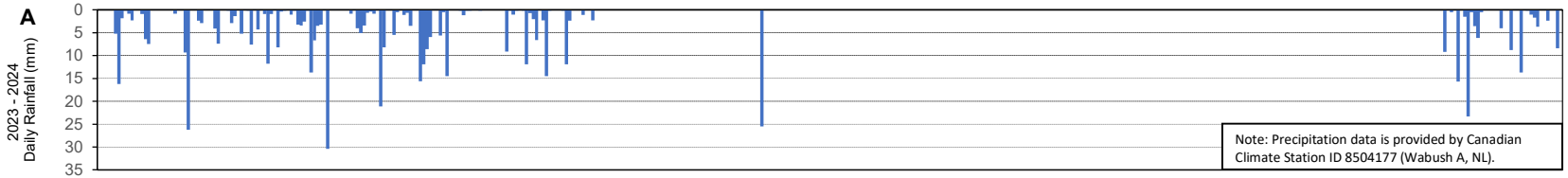
DATE: August 2024

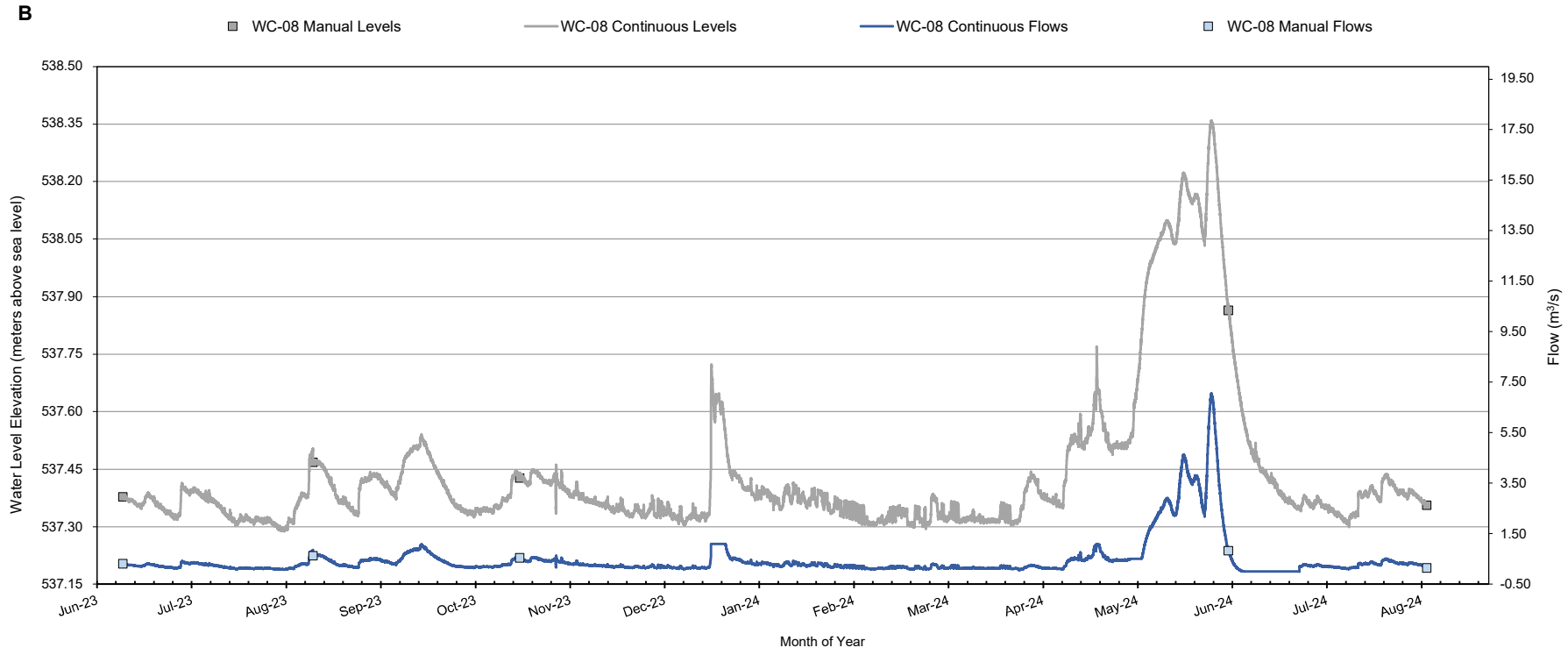
DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-08

FIGURE B-14





A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-08

PROJECT: CA0003092.5894 (500)

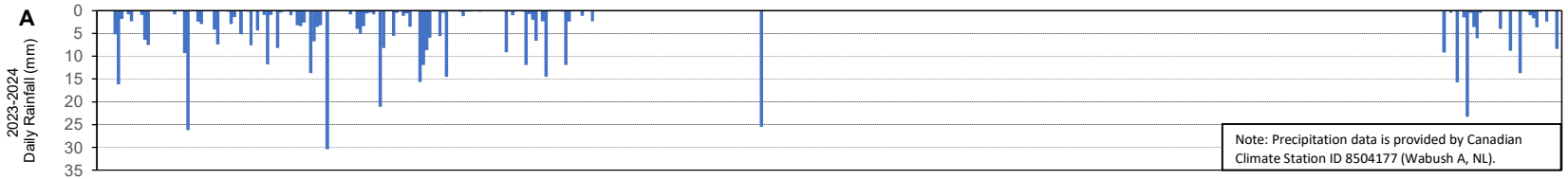
DATE: August 2024

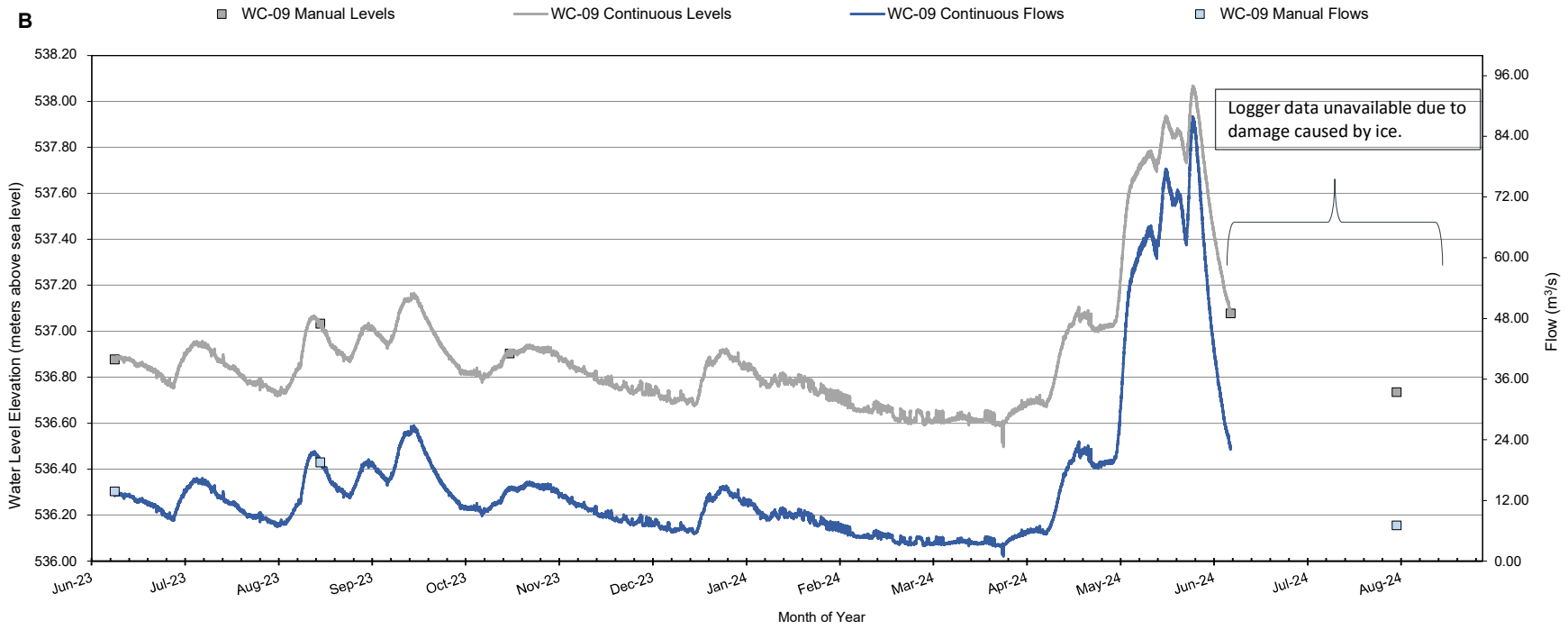
DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-09

FIGURE B-15





A. Daily Rainfall **B.** Continuous Water Levels and Flows at WC-09

PROJECT: CA0003092.5894 (500)

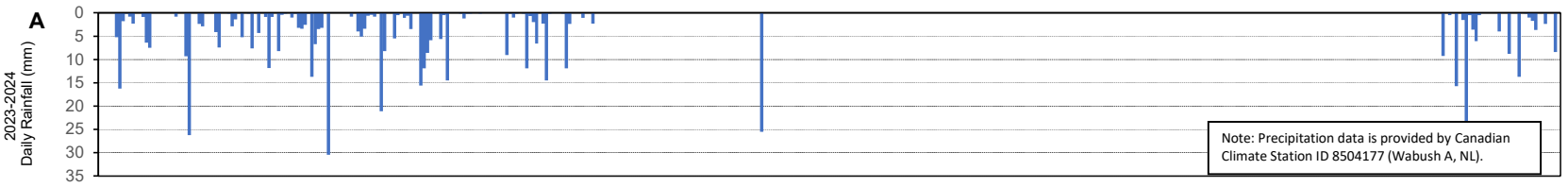
DATE: August 2024

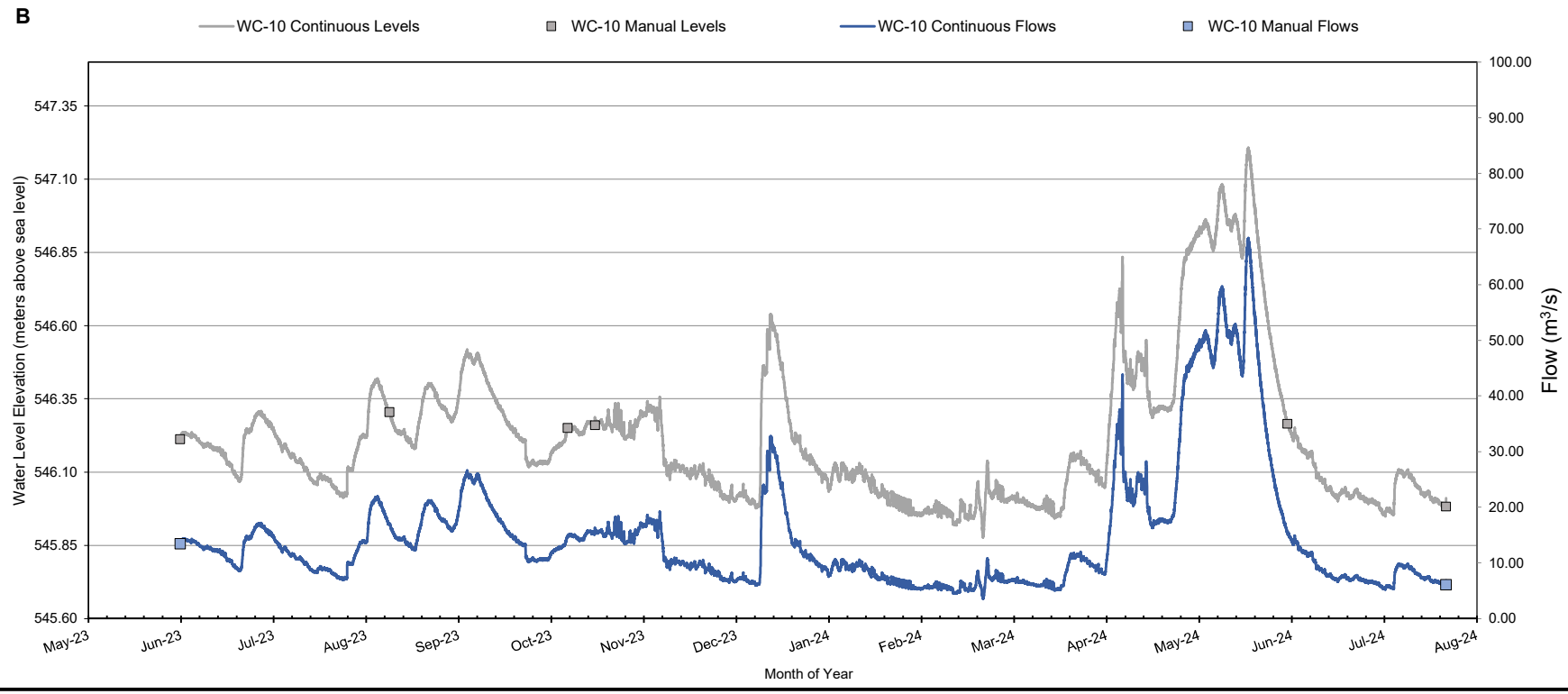
DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level Monitoring at WC-10

FIGURE B-16





A. Daily Rainfall **B.** Continuous Water Levels at WC-10

PROJECT: CA0003092.5894 (500)

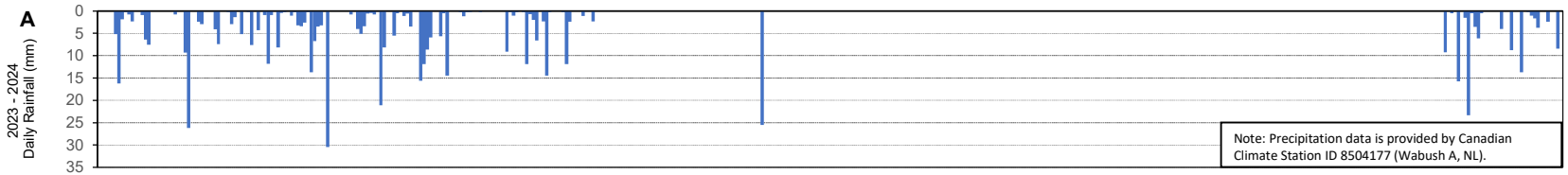
DATE: August 2024

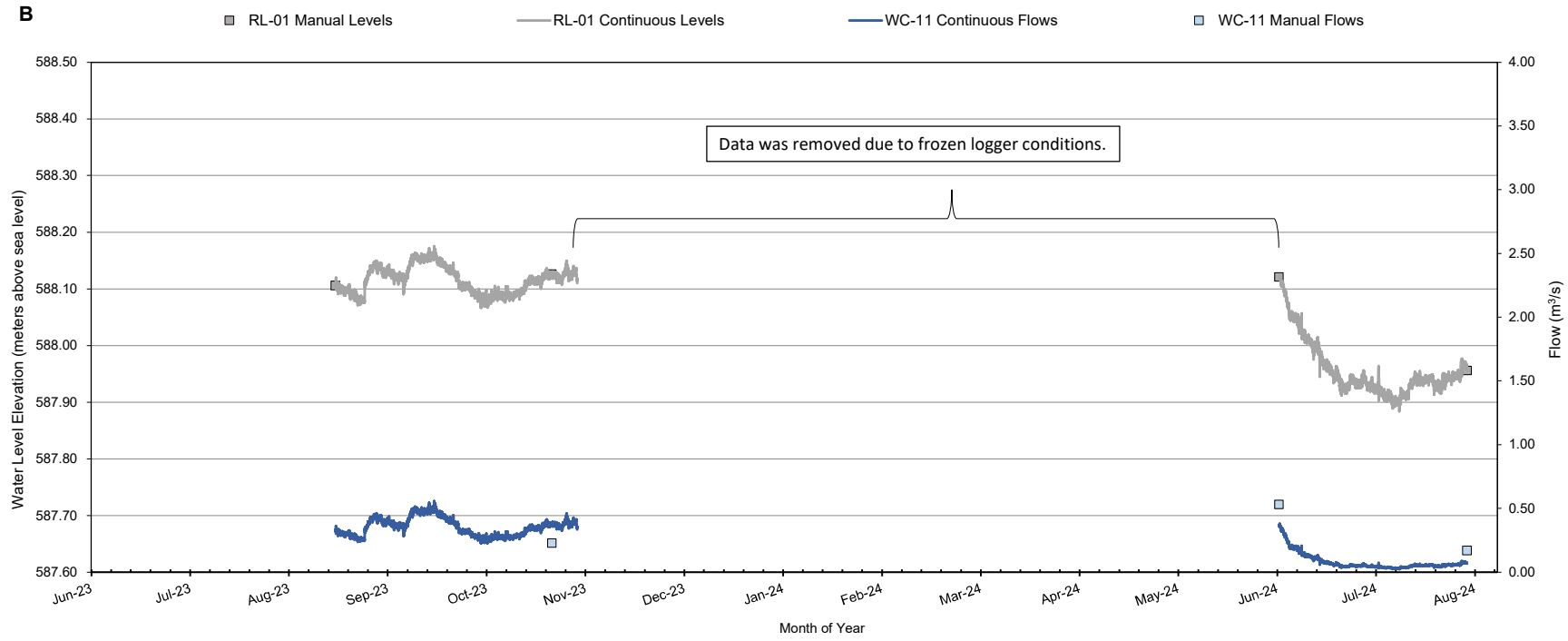
DRAWN: MS

CHECK: CDV

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-11

FIGURE B-17





A. Daily Rainfall **B.** Continuous Water Levels at RL-01 and Flows at WC-11

PROJECT: CA0003092.5894 (500)

DATE: August 2024

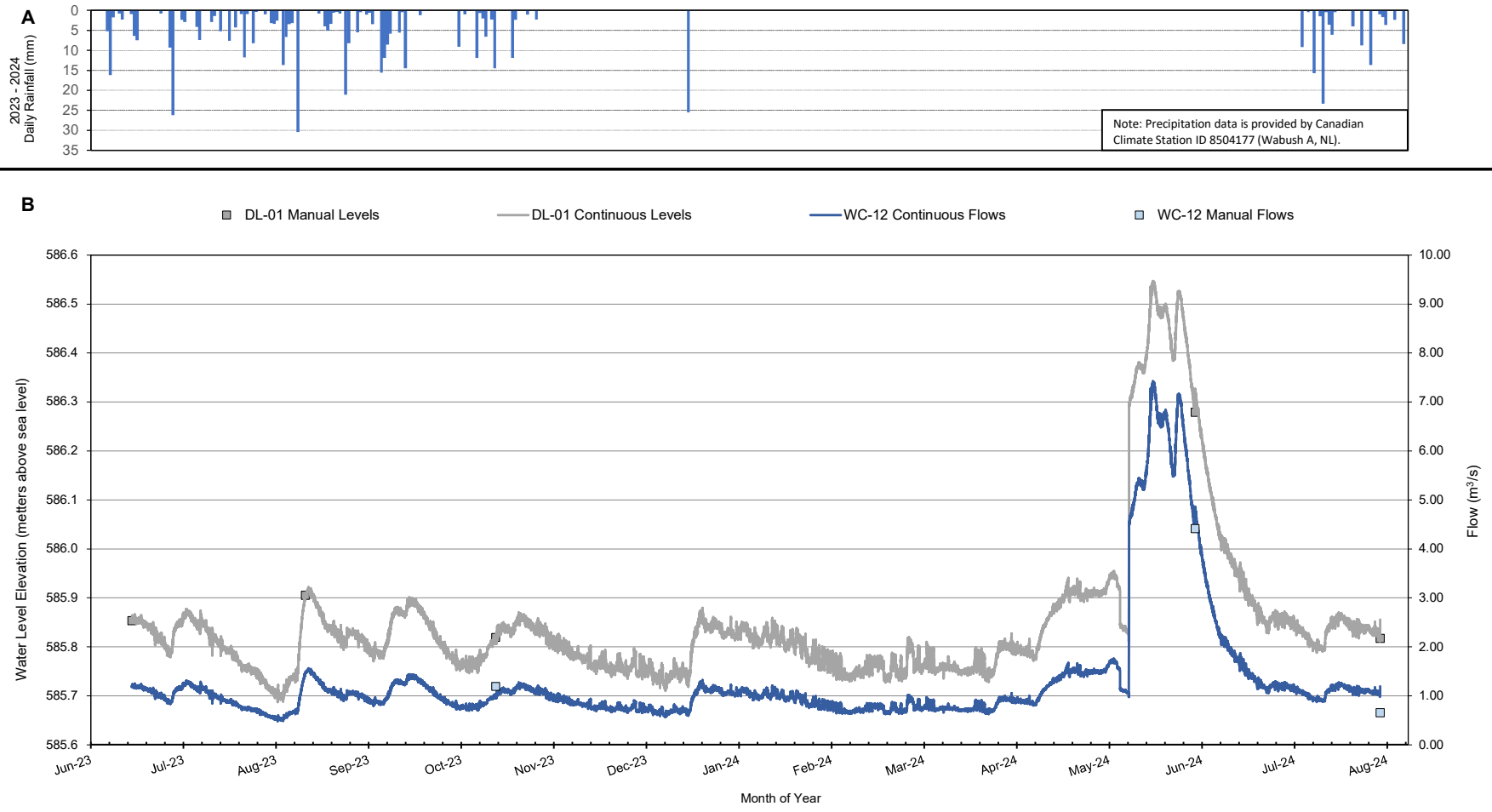
DRAWN: MS

CHECK: CDV

Note. Due to proximity, continous water levels at RL-01 were used to develop flow hydrograph at WC-11.

2023 - 2024 Continuous Water Level and Flow Monitoring at WC-12

FIGURE B-18



A. Daily Rainfall **B.** Continuous Water Levels at DL-01 and Flows at WC-12

PROJECT: CA0003092.5894 (500)

DATE: August 2024

DRAWN: MS

CHECK: CDV

Note. Due to proximity, continous water levels at DL-01 were used to develop flow hydrograph at WC-12.

APPENDIX C

Stage-Discharge Rating Curves

Table C-1: 2023-2024 Stage-Discharge Rating Curve Equations

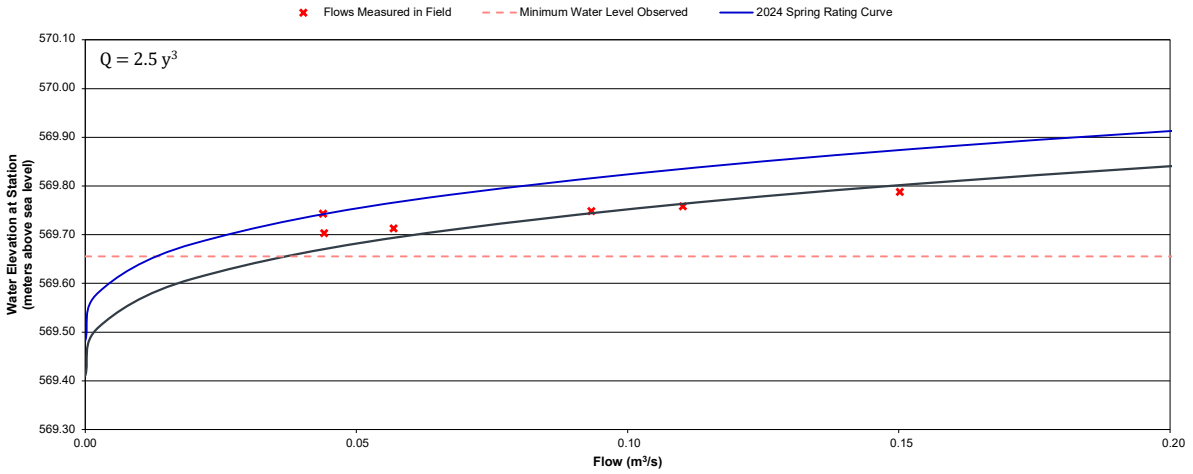
Station ID	Stage-Discharge Rating Curve Equation	Rating Curve Offset Y_o (masl)
WC-01	$Q = 2.50y^3$	569.410
WC-01 (for 2024 Spring)	$Q = 2.5y^3$	569.482
WC-02	$Q = 26.72y^{2.7}$	567.290
WC-02 (for 2024 Spring)	$Q = 26.72y^{2.7}$	567.340
WC-03	$Q = 3.20y^{3.25}$	578.210
WC-04	$Q = 66.84y^{2.5}$	578.410
WC-05[1]	$Q = 0.49y^{1.5}$	100.000
WC-06	$Q = 1.79y^3$	537.025
WC-06 (for 2024 Spring)	$Q = 1.79y^3$	537.565
WC-07	$Q = 4.33y^{2.32}$	537.227
WC-07 (for 2024 Spring)	$Q = 4.33y^{2.32}$	537.657
WC-08	$Q = 11.02y^{2.34}$	537.168
WC-08 (for 2024 Spring)	$Q = 11.02y^{2.34}$	537.533
WC-09[2]	$Q = 41.45y^{1.5}$	536.418
WC-10[2]	$Q = 30.7y^{1.69}$	545.600
WC-11	$Q = 7.0y^{3.8}$	587.661
WC-12	$Q = 5.58y^{2.0}$	585.393

[1]Actual ground elevations with respect to sea level were not available.

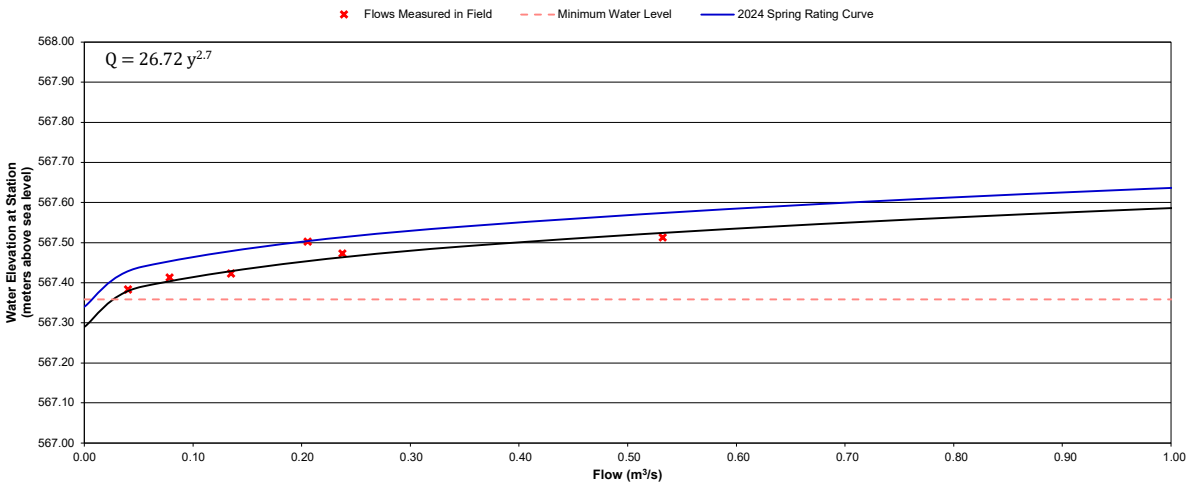
[2] During field campaigns flows could not be measured completely due to unsafe conditions. Flows were estimated from the partial flow measurements and, therefore, these rating curves are presented with lower confidence.

2023-2024 Stage-Discharge Rating Curves at WC-01, WC-02 and WC-03	FIGURE C-1

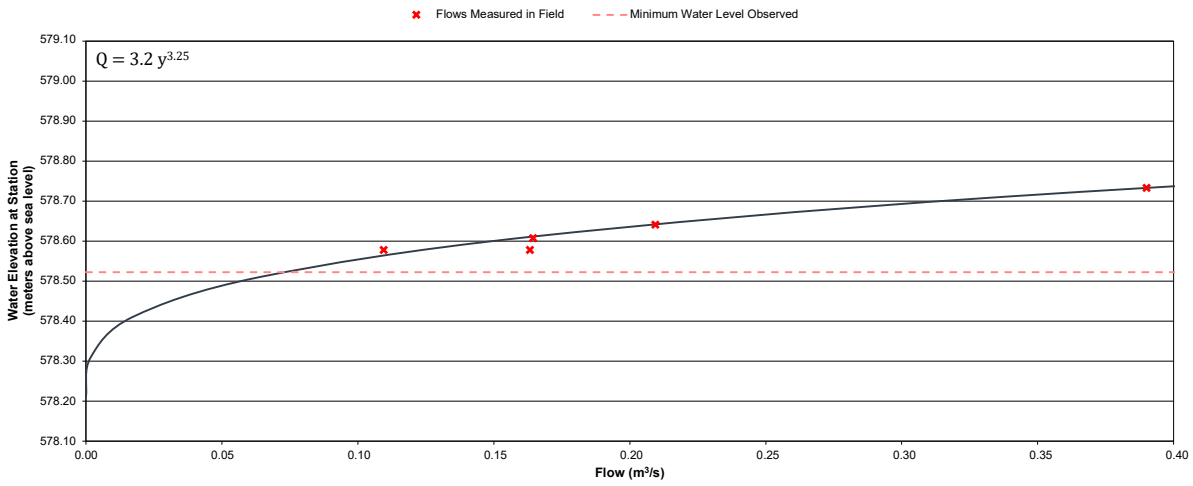
Rating Curve at WC-01



Rating Curve at WC-02



Rating Curve at WC-03

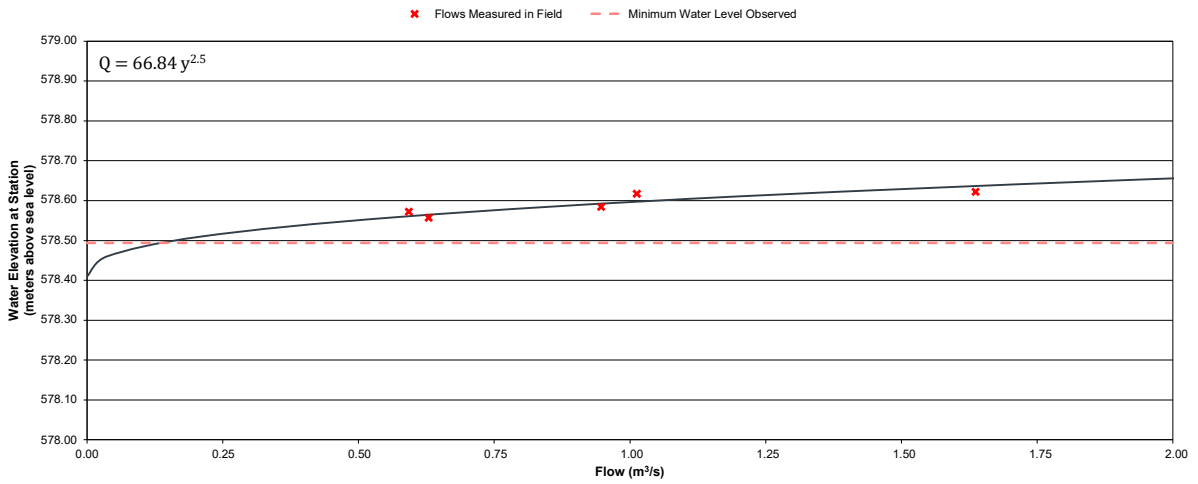


PROJECT NO: CA0003092.5894 (500)
DATE: August 2024

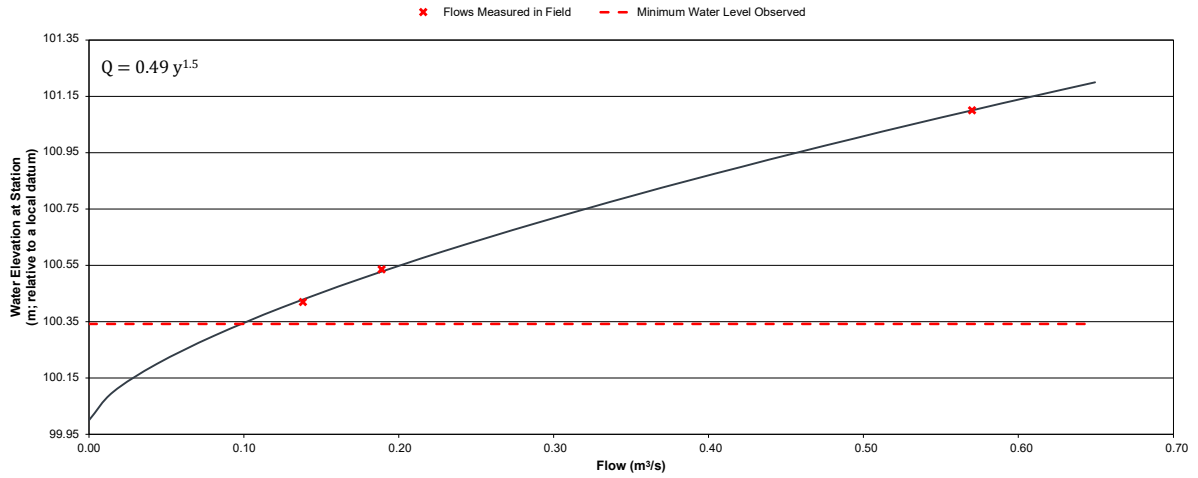
DRAWN: MS
CHECK: CDV

2023-2024 Stage-Discharge Rating Curves at WC-04, WC-05 and WC-06	FIGURE C-2

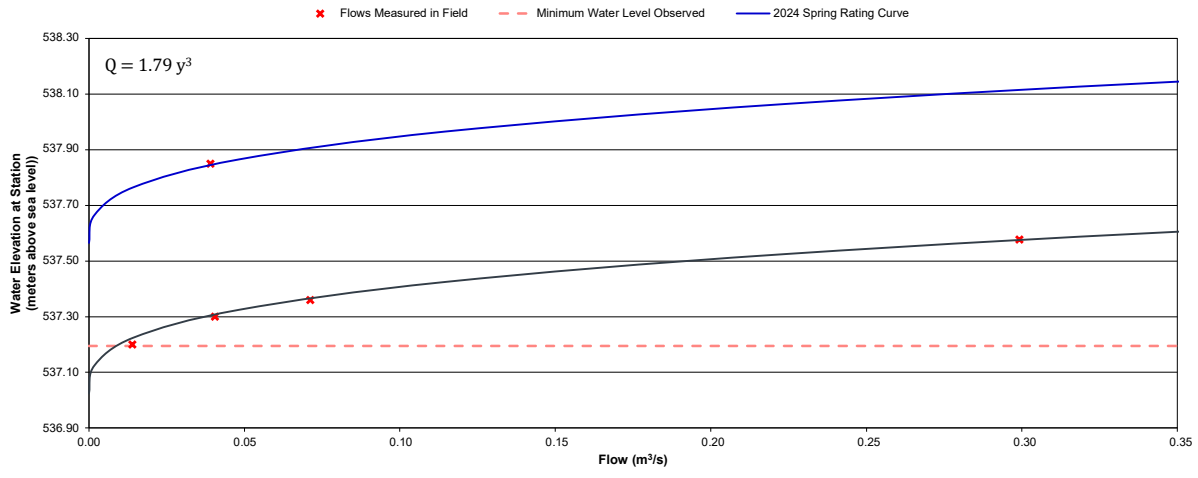
Rating Curve at WC-04



Rating Curve at WC-05



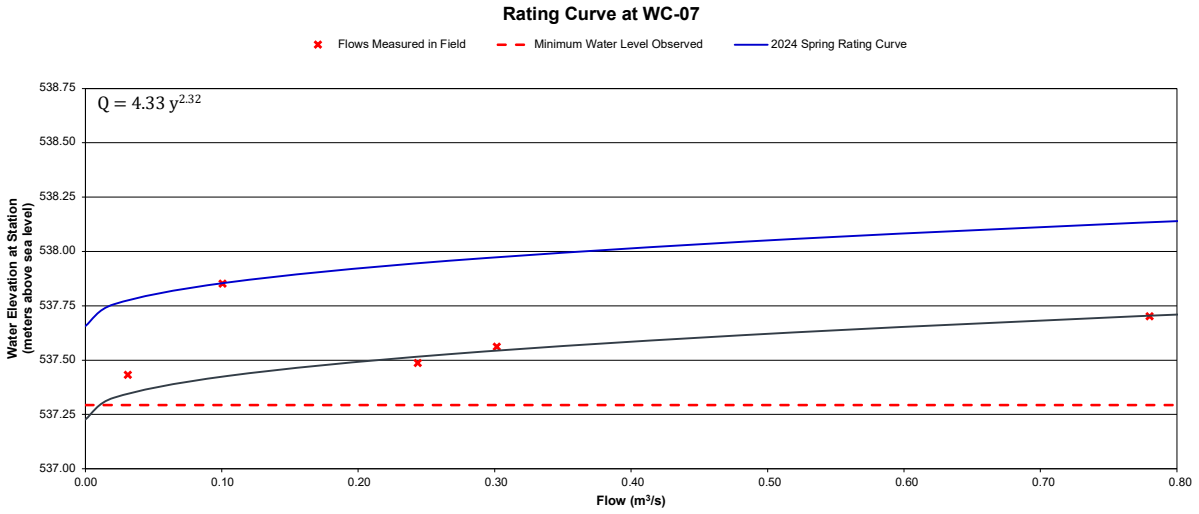
Rating Curve at WC-06

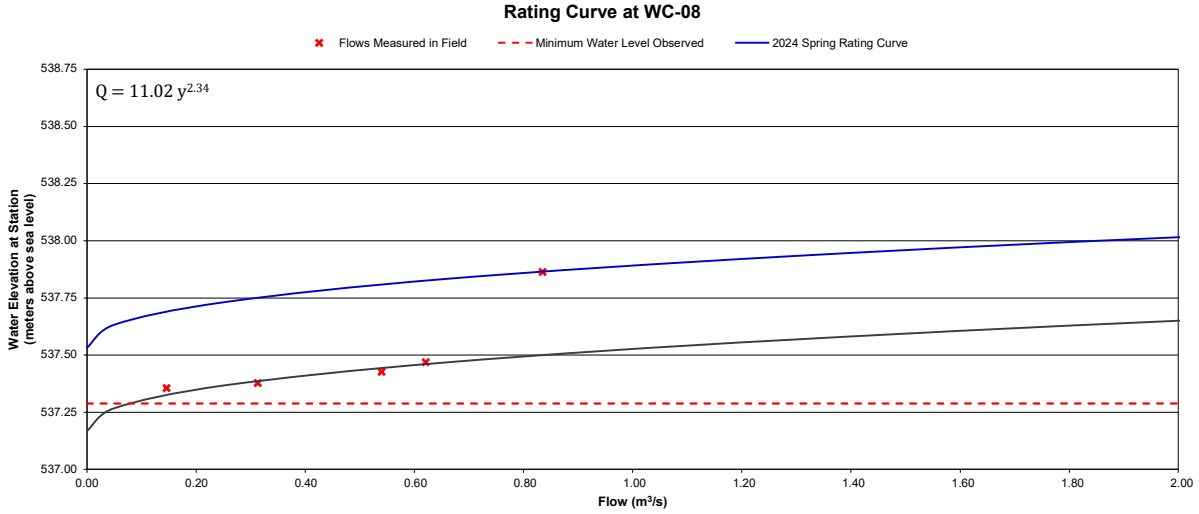


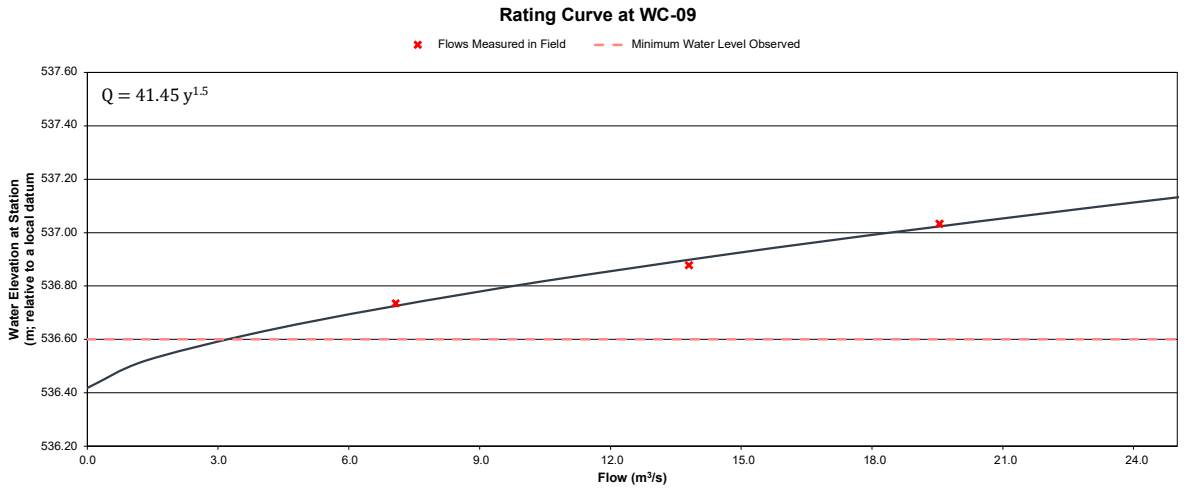
PROJECT NO: CA0003092.5894 (500)
DATE: August 2024

DRAWN: MS
CHECK: CDV

2023-2024 Stage-Discharge Rating Curves at WC-07, WC-08 and WC-09	FIGURE C-3







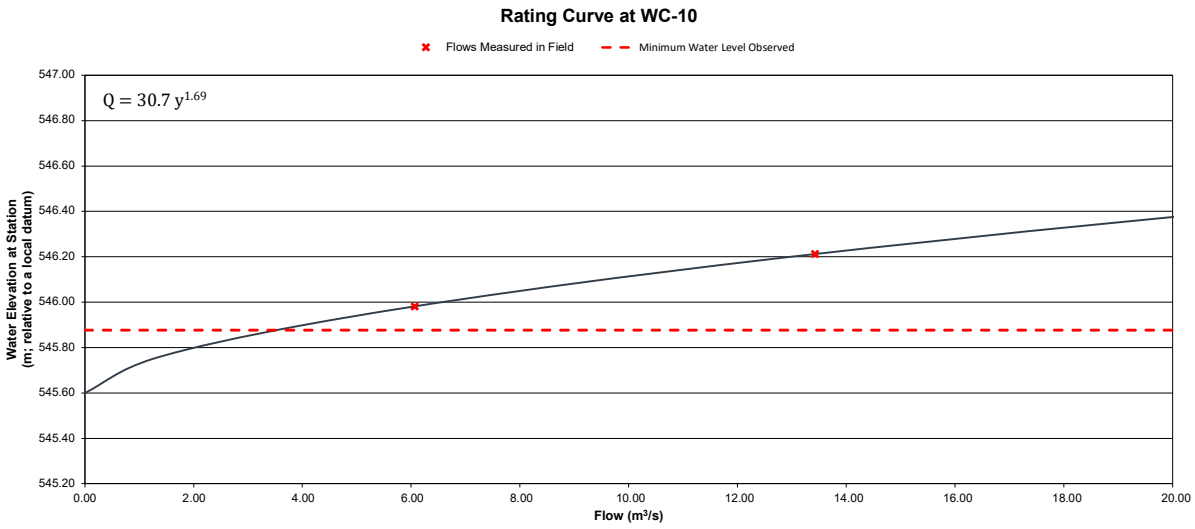
PROJECT NO: CA0003092.5894 (500)

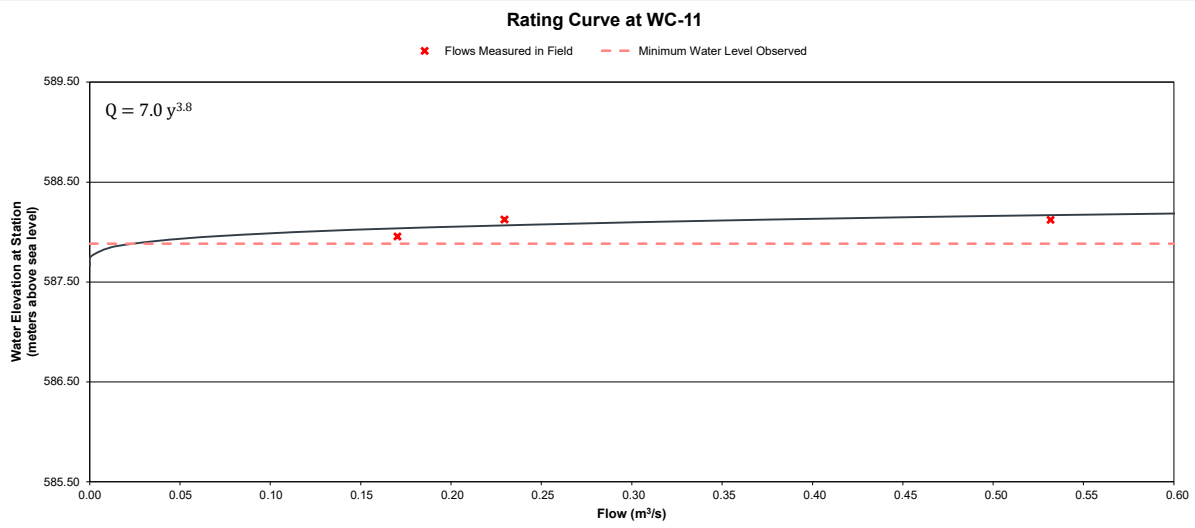
DATE: August 2024

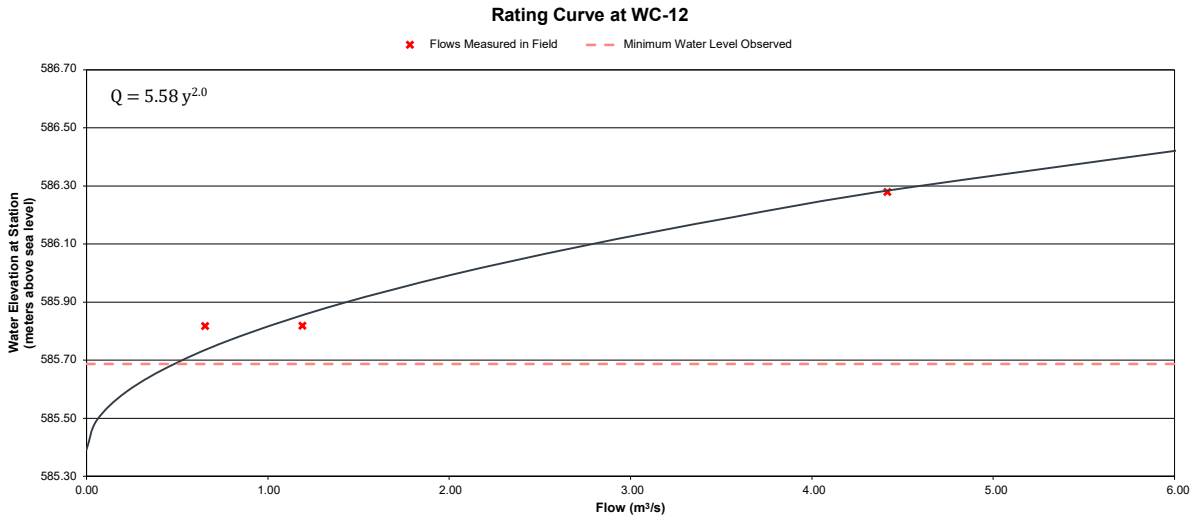
DRAWN: MS

CHECK: CDV

2023-2024 Stage-Discharge Rating Curves at WC-10, WC-11 and WC-12	FIGURE C-4







PROJECT NO: CA0003092.5894 (500)

DATE: August 2024

DRAWN: MS

CHECK: CDV

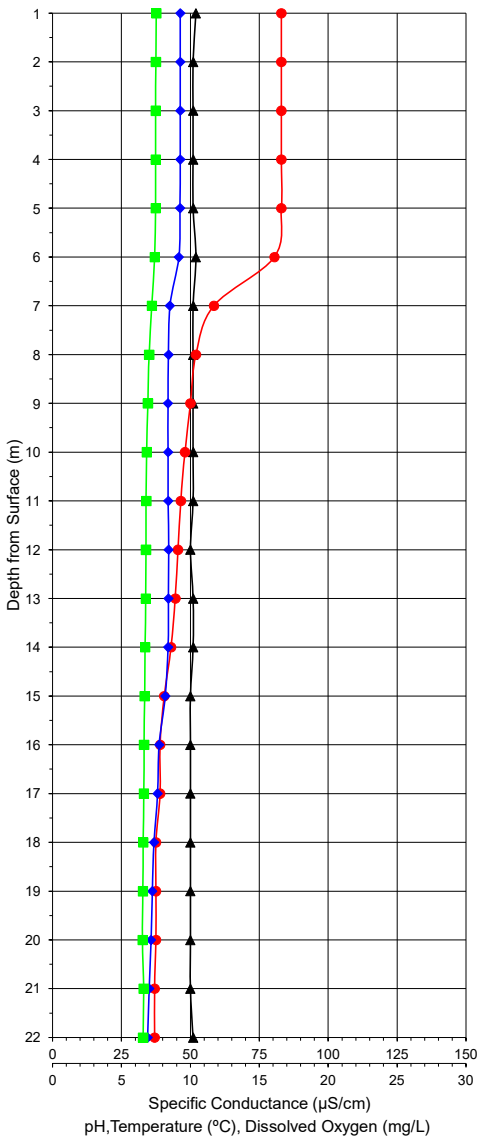
Note: Rating curves with fewer than three measured points are reported with a lower confidence.

APPENDIX D

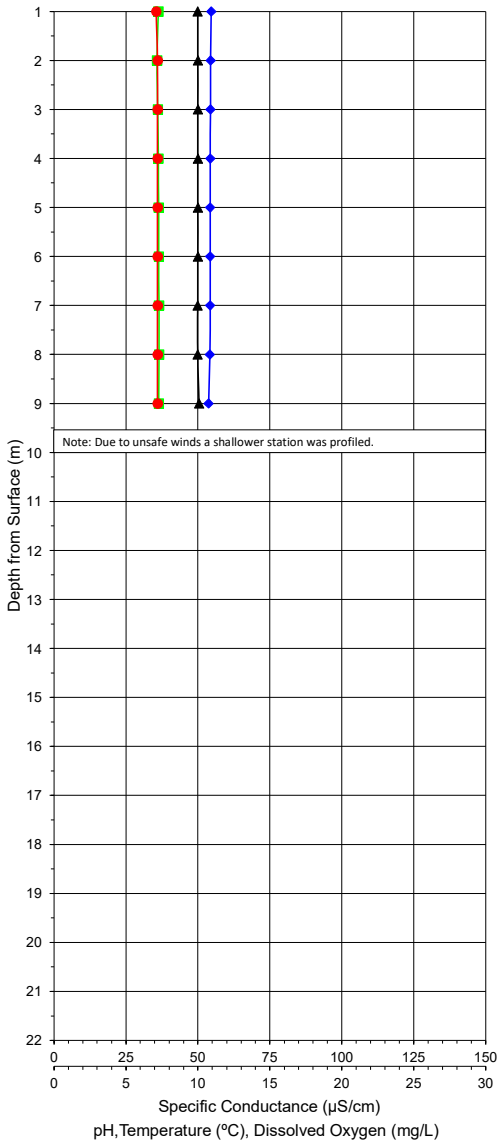
Lake Column Profile Measurements

2023 Water Column Profiles at Daviault Lake: DL-02 | **FIGURE D-1**

August 9, 2023



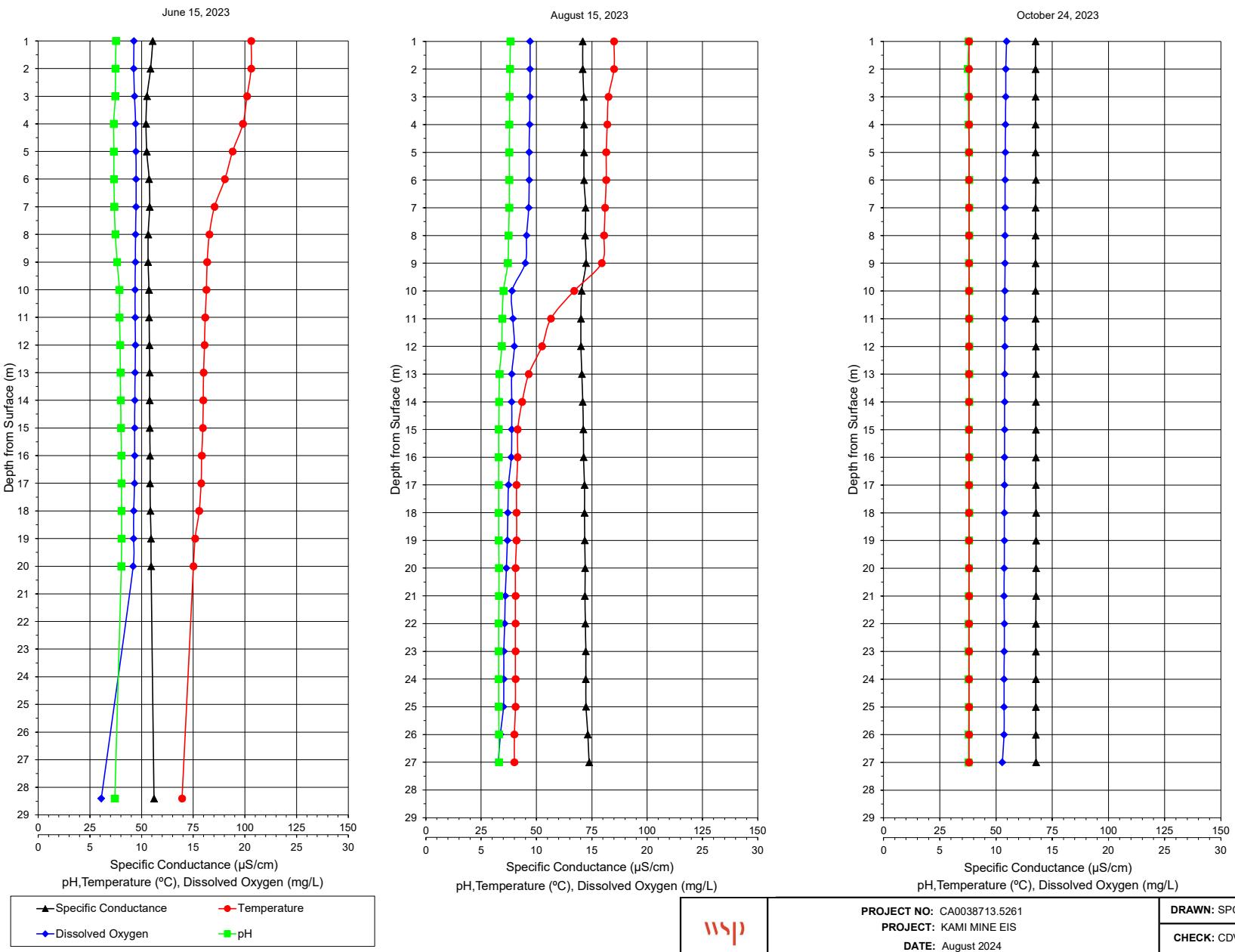
October 22, 2023



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK: CDV

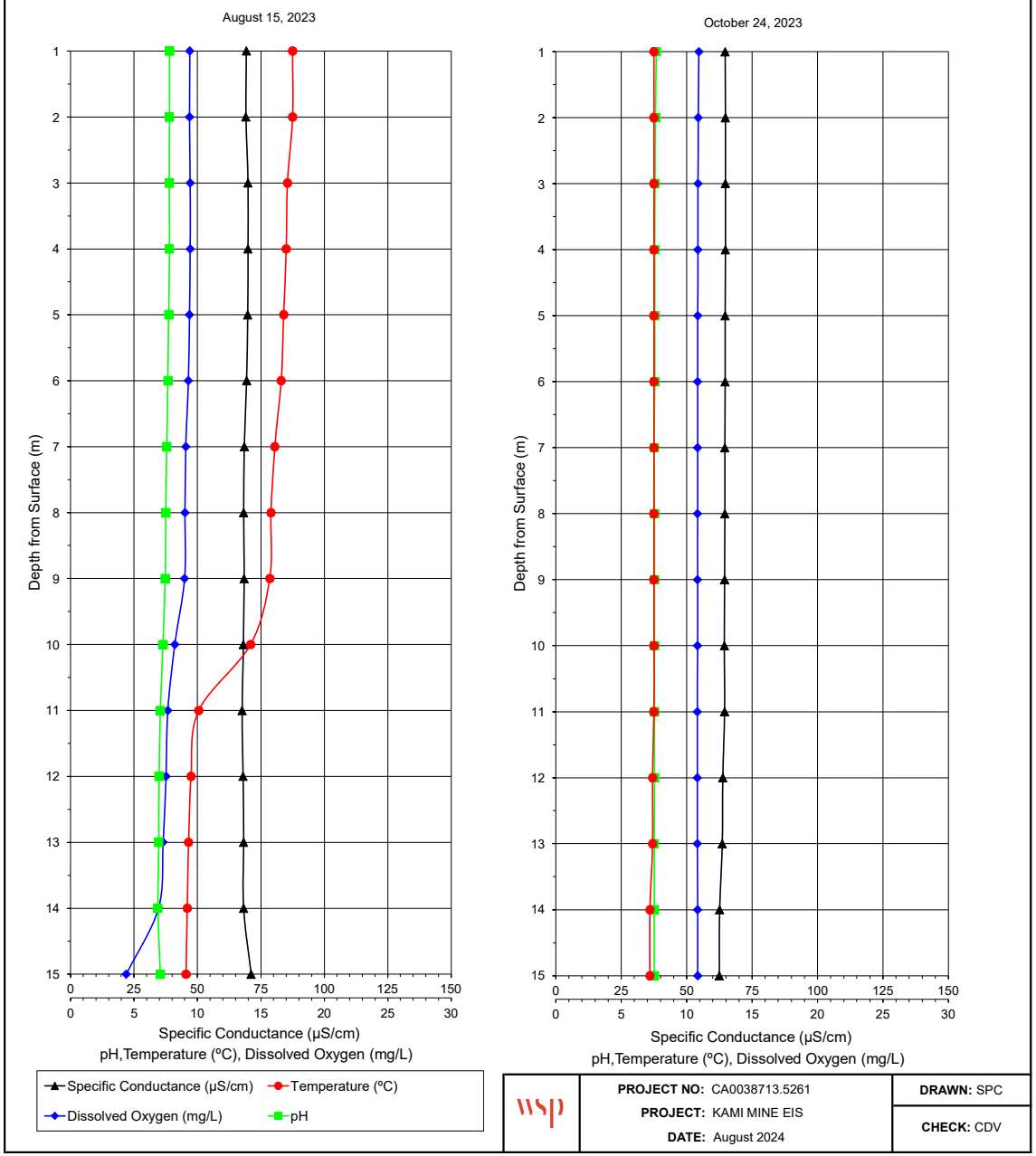
2023 Water Column Profiles at Long Lake: LL-02 | **FIGURE D-2**



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

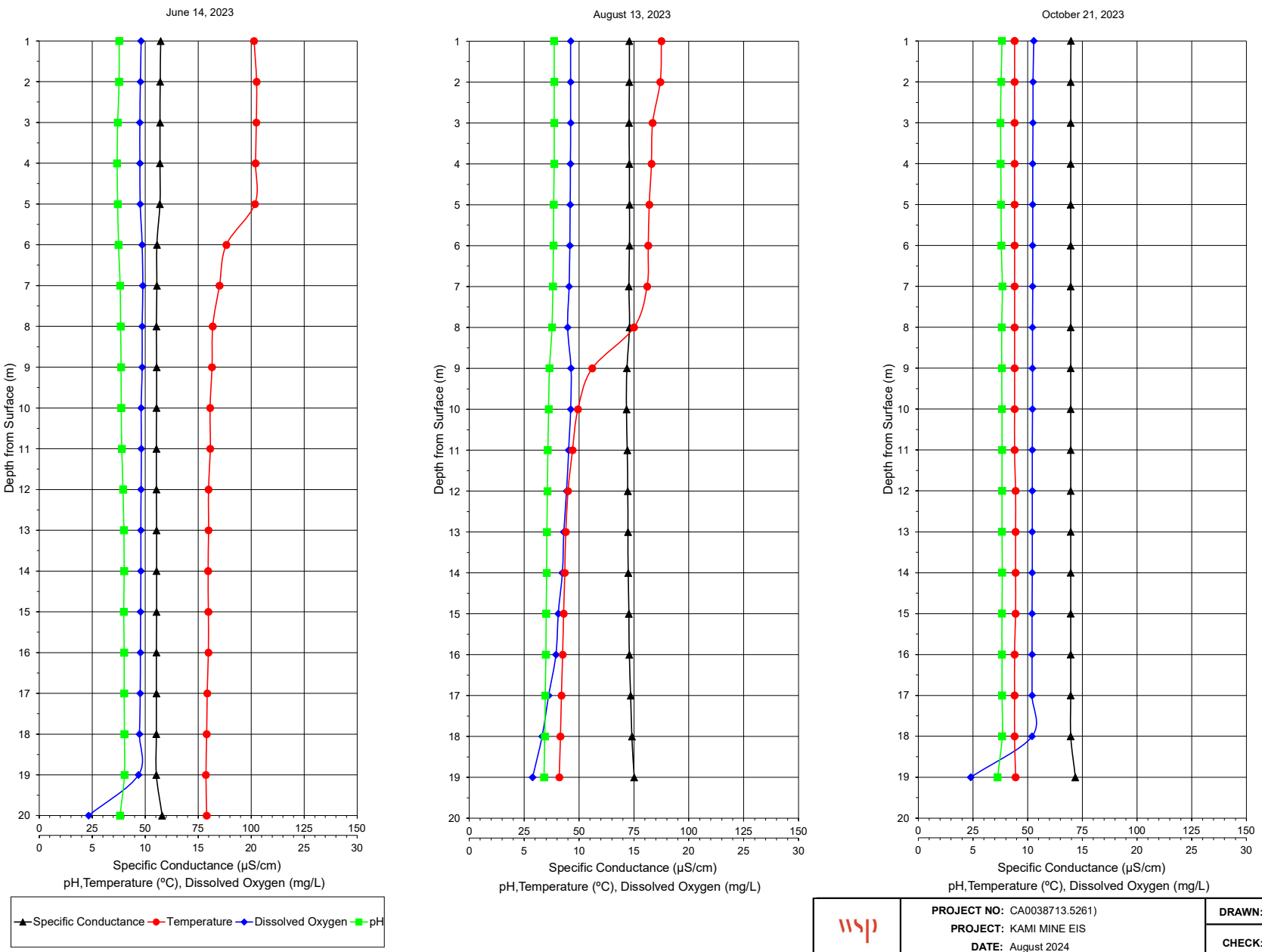
DRAWN: SPC
CHECK: CDV

2023 Water Column Profiles at Long Lake: LL-03 | **FIGURE D-3**



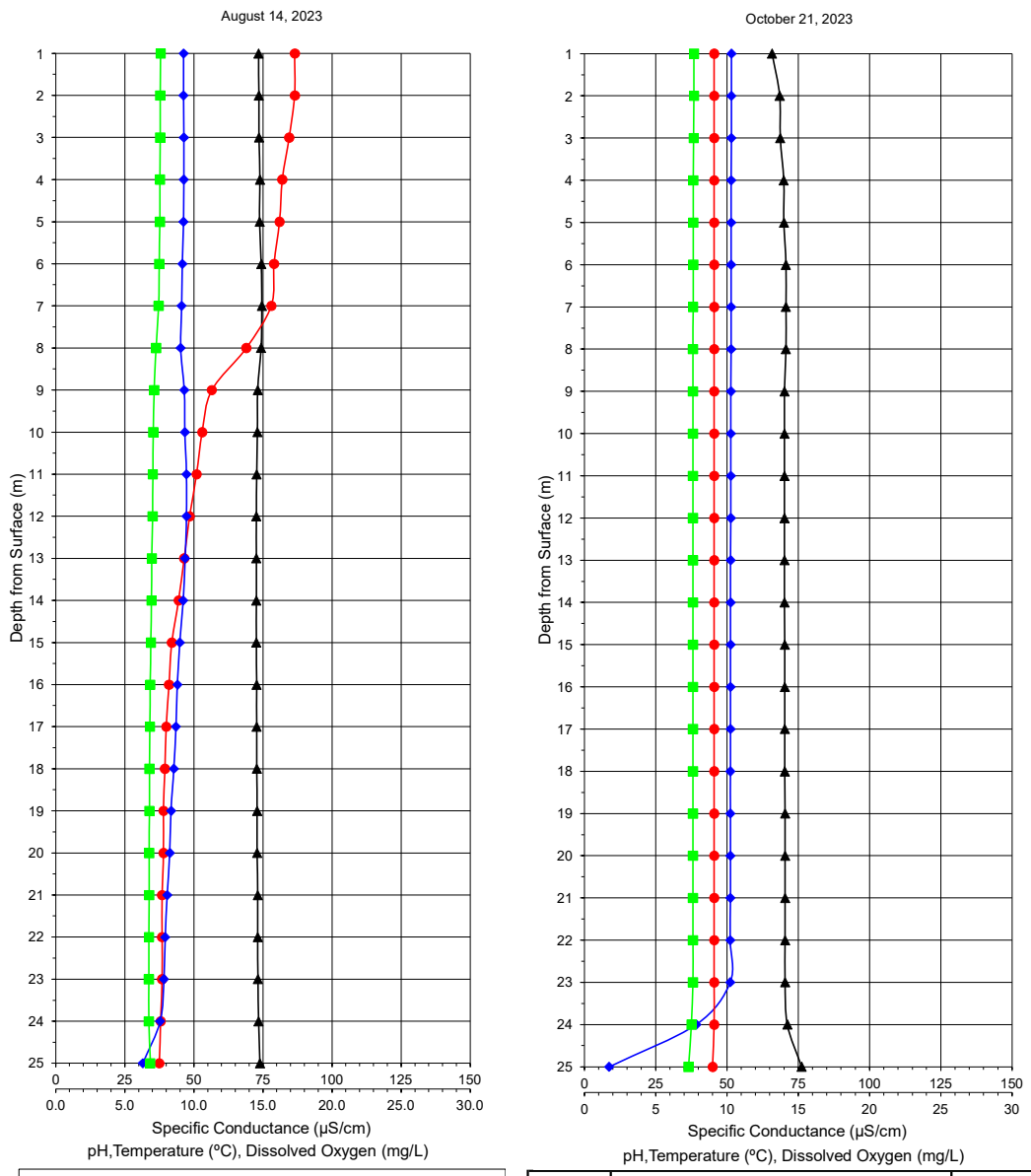
wsp	**PROJECT NO:** CA0038713.5261 **PROJECT:** KAMI MINE EIS **DATE:** August 2024	**DRAWN:** SPC **CHECK:** CDV

2023 Water Column Profiles at Mills Lake: MIL-02 | **FIGURE D-4**



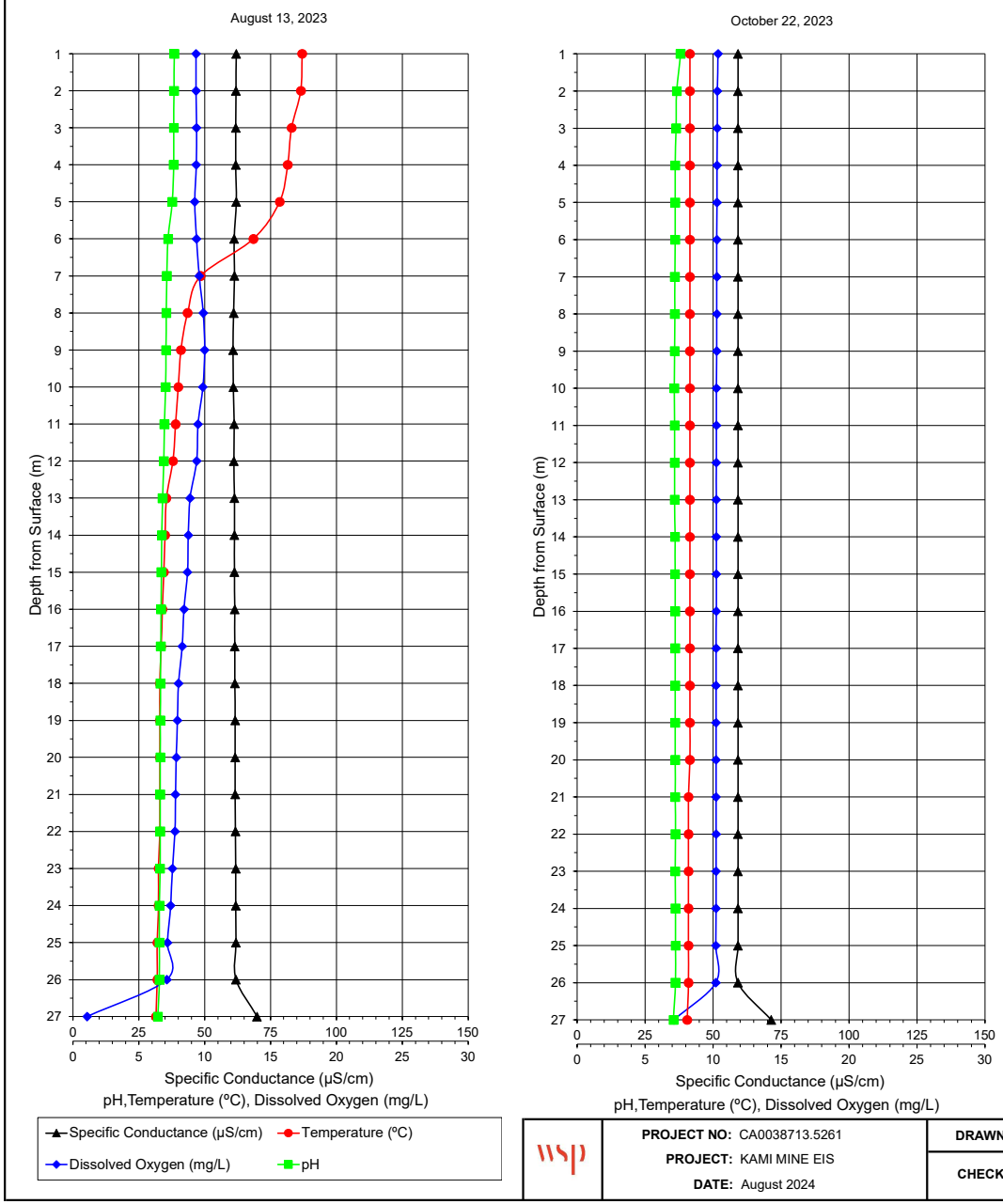
	PROJECT NO: CA0038713.5261)	**DRAWN:** SPC
	PROJECT: KAMI MINE EIS	**CHECK:** CDV
	DATE: August 2024	

2023 Water Column Profiles at Mills Lake: MIL-03 | **FIGURE D-5**



PROJECT NO: CA0038713.5261	**DRAWN:** SPC
PROJECT: KAMI MINE EIS	**CHECK:** CDV
DATE: August 2024	

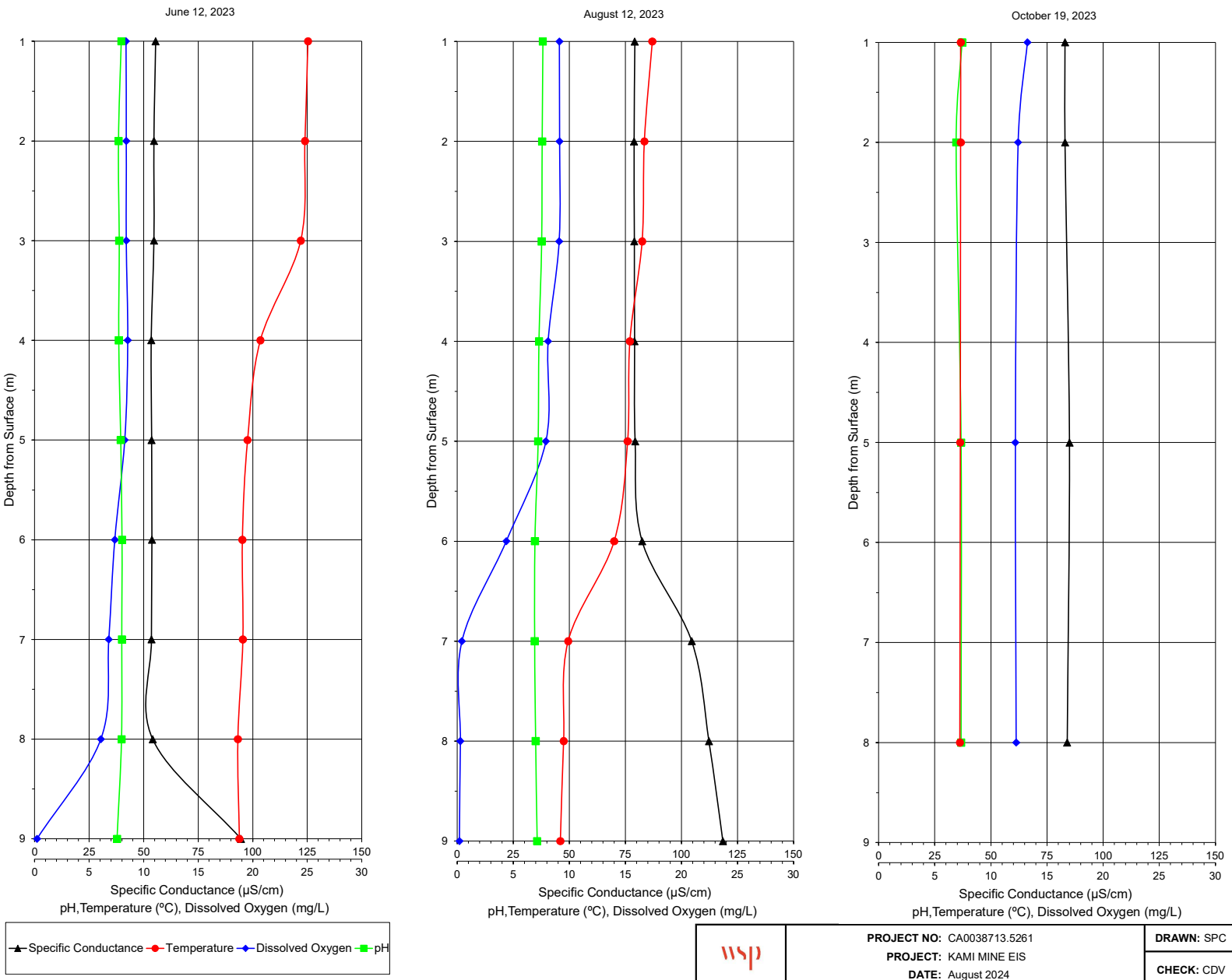
2023 Water Column Profiles at Molar Lake: MOL-02 | **FIGURE D-6**



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK: CDV

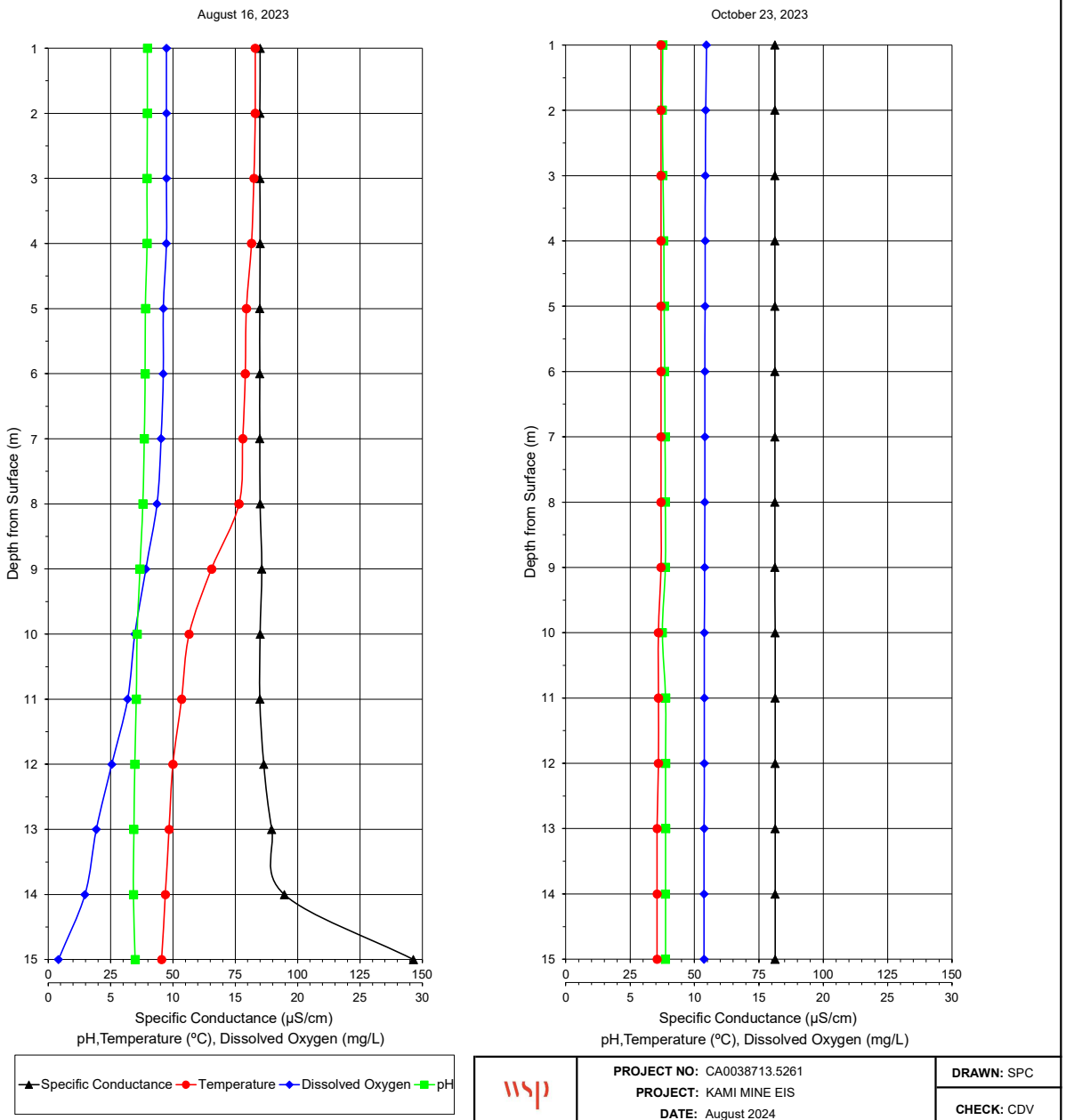
2023 Water Column Profiles at Pike Lake: PL-02 | **FIGURE D-7**



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK: CDV

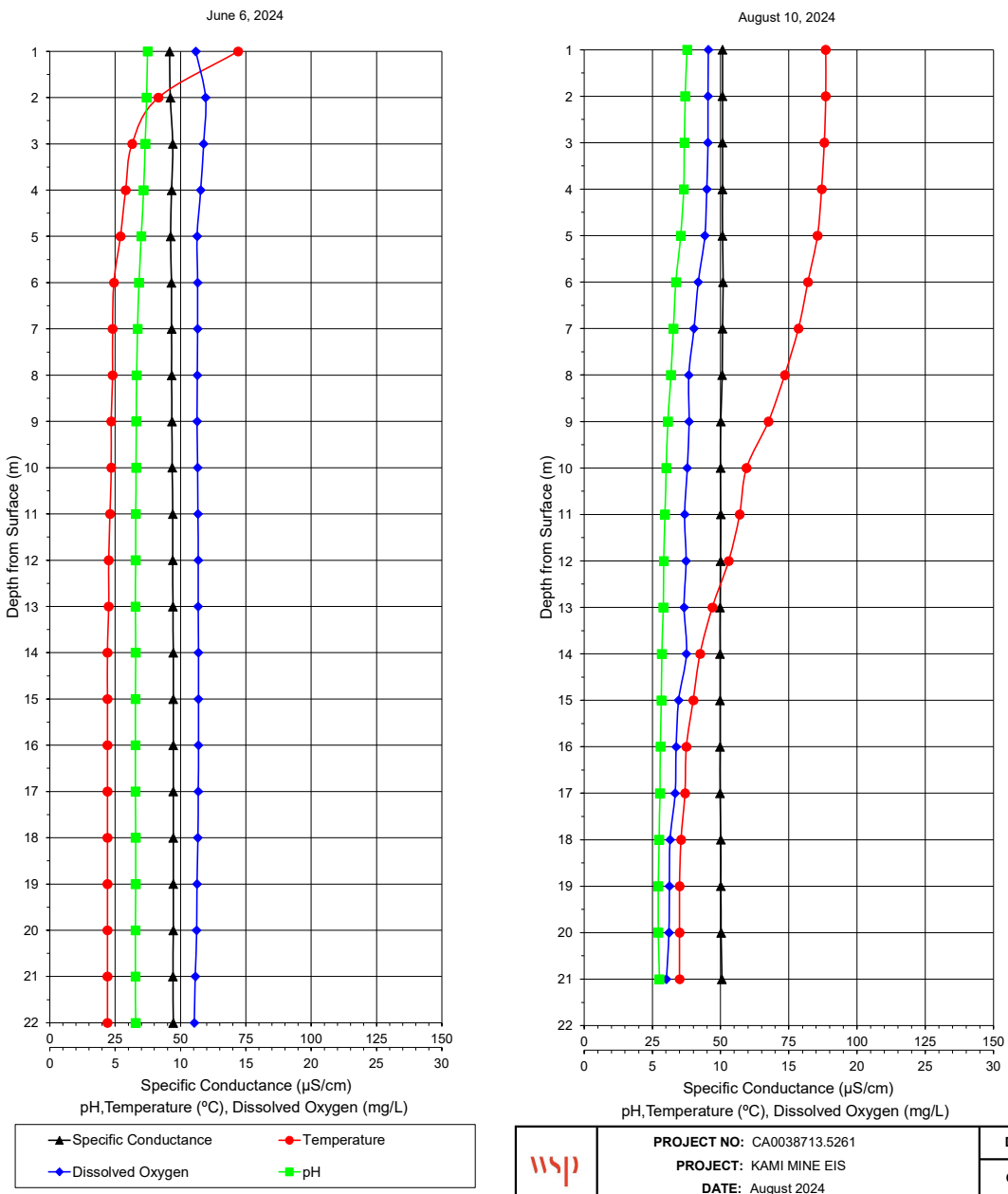
2023 Water Column Profiles at Riordan Lake: RL-02 | **FIGURE D-8**



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK: CDV

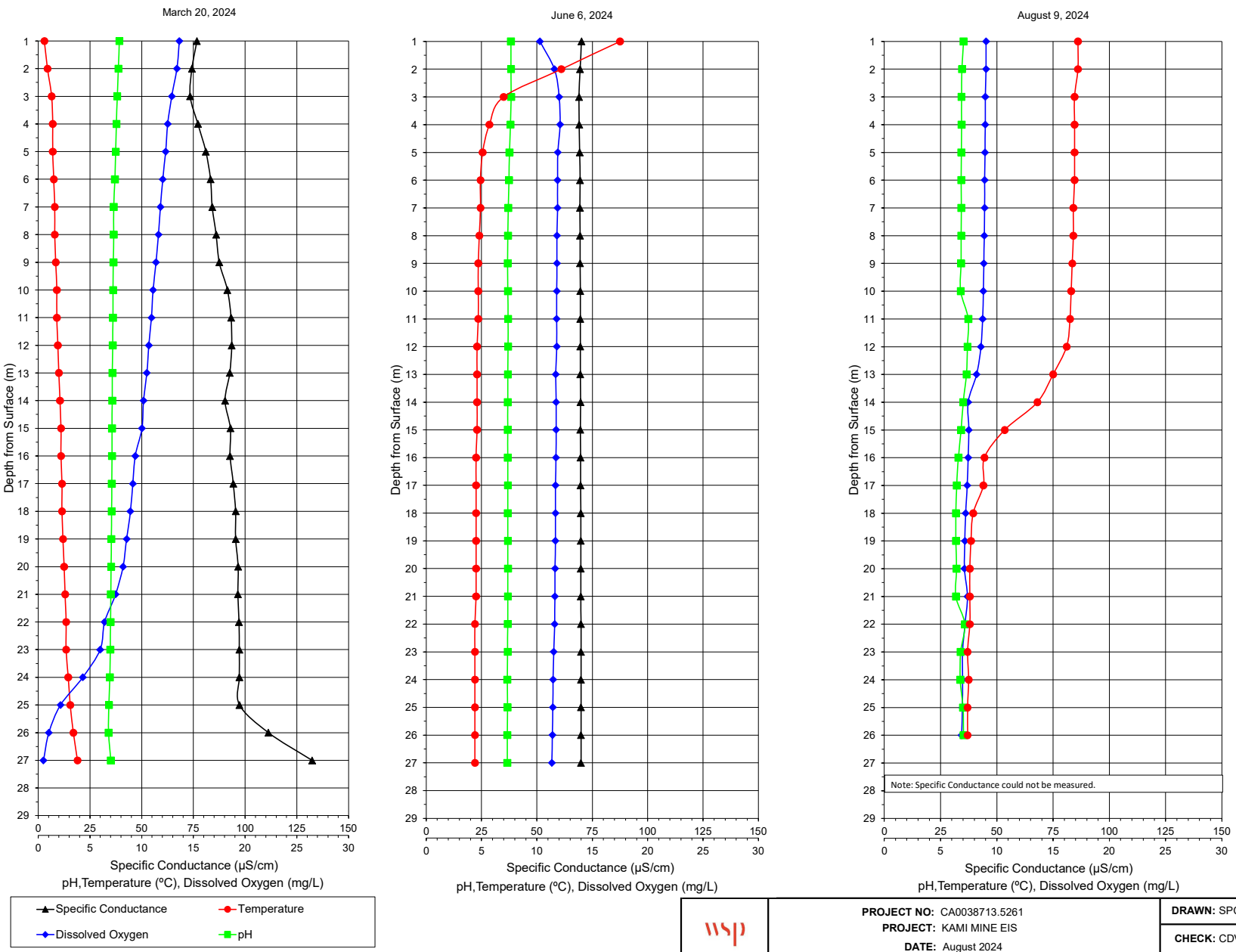
2024 Water Column Profiles at Daviault Lake: DL-02 | **FIGURE D-9**



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK: CDV

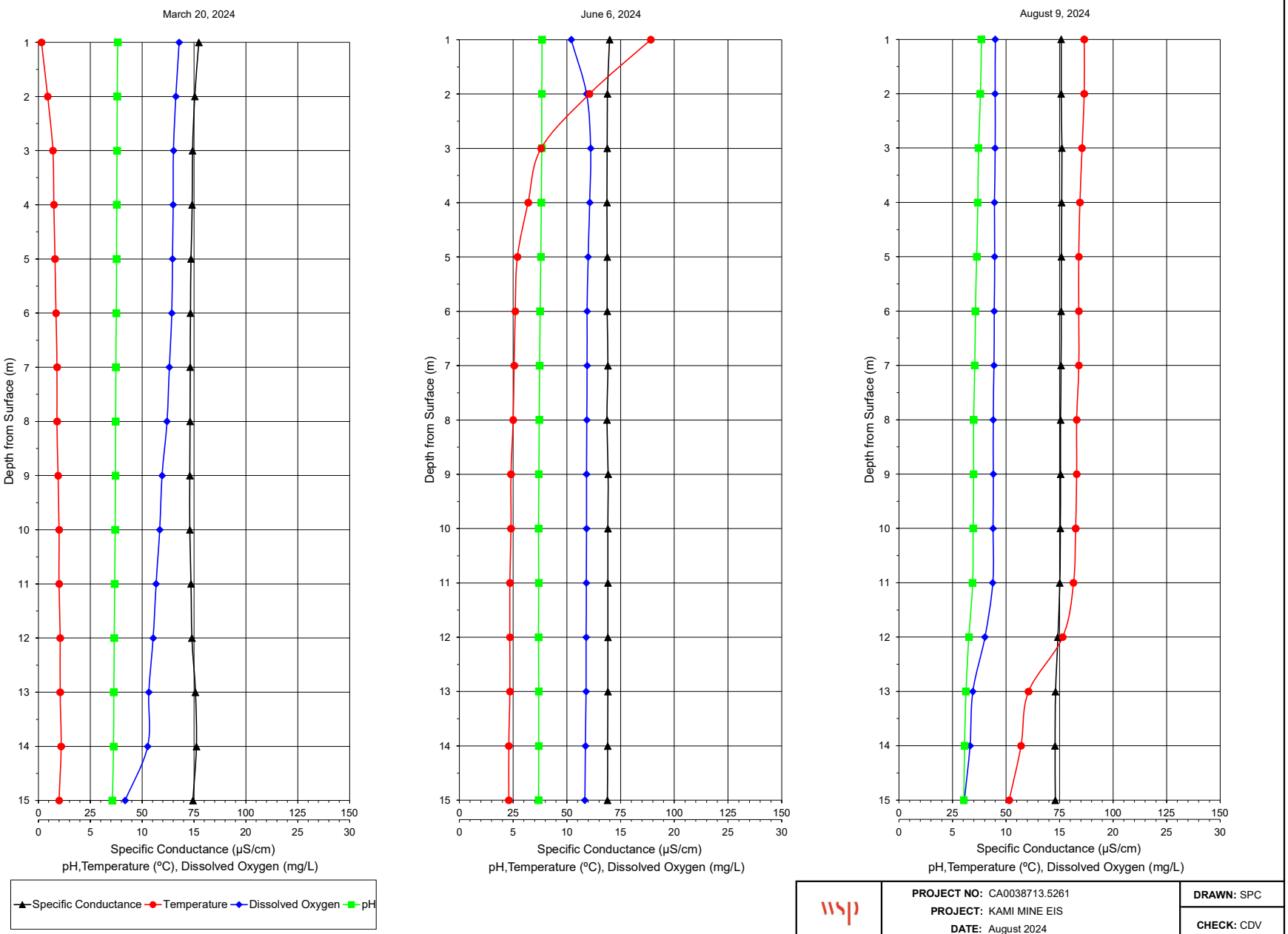
2024 Water Column Profiles at Long Lake: LL-02 | **FIGURE D-10**



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK: CDV

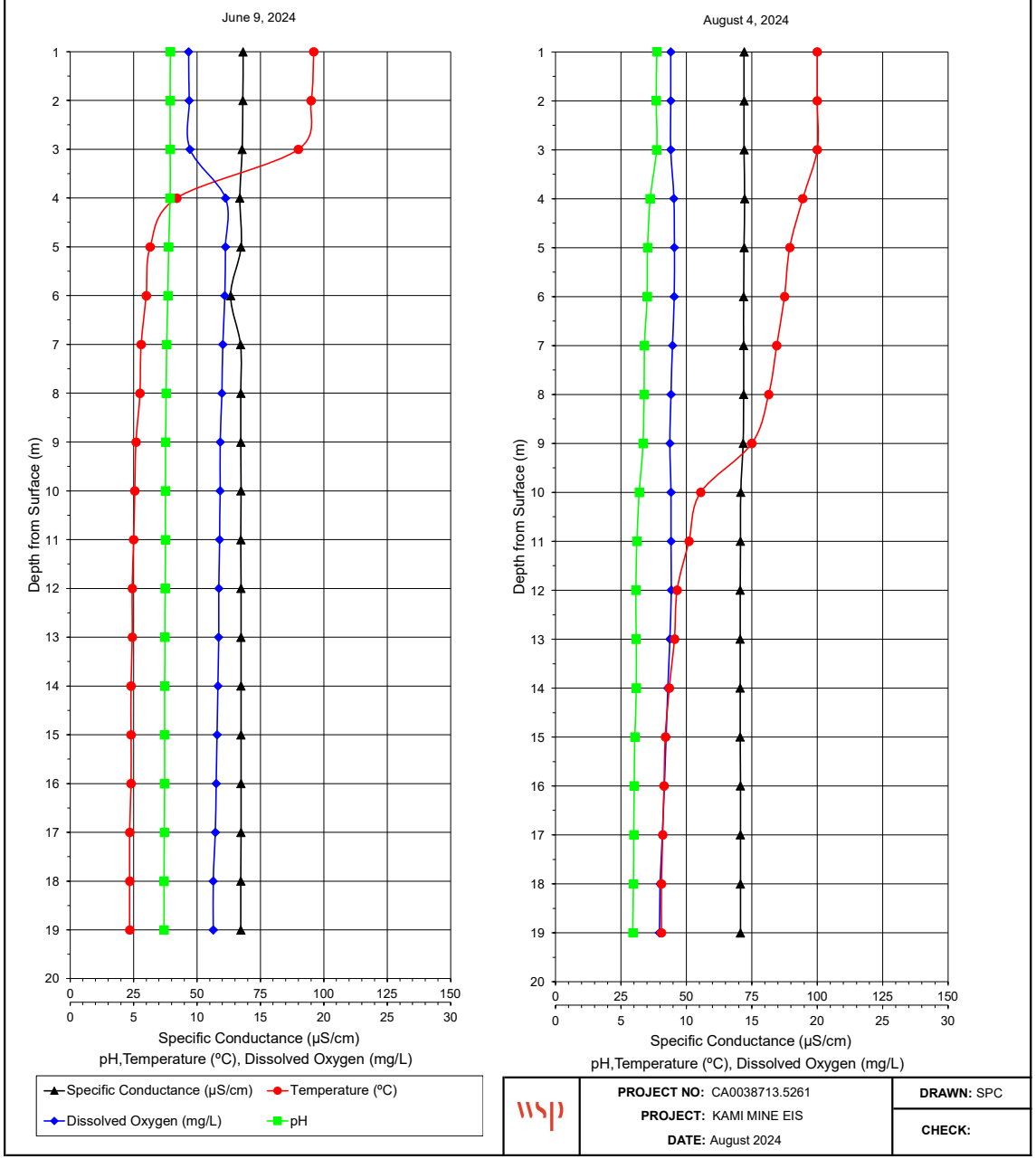
2024 Water Column Profiles at Long Lake: LL-03 | **FIGURE D-11**



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK: CDV

2024 Water Column Profiles at Mills Lake: MIL-02 | **DIGURE D-12**

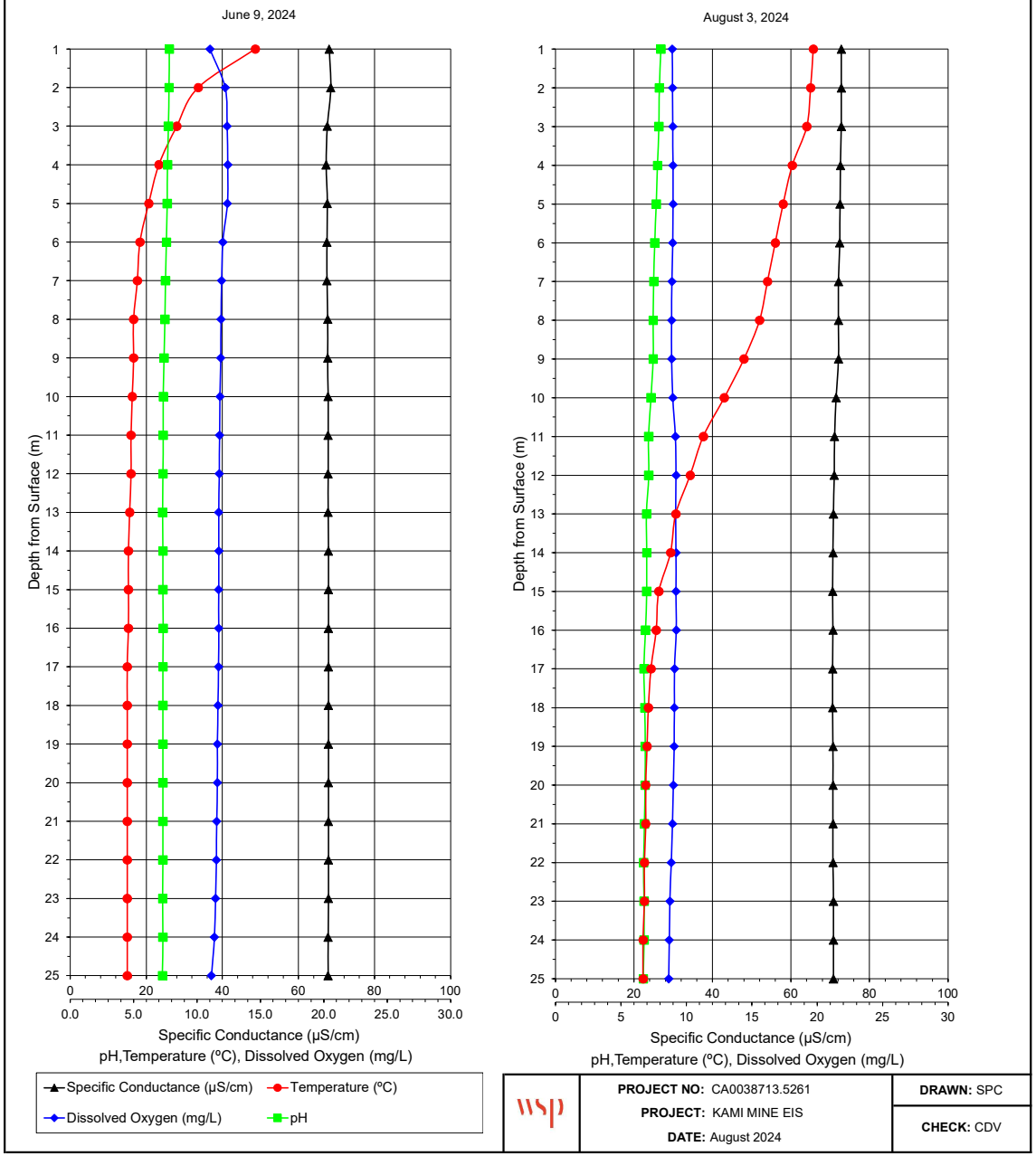


PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK:

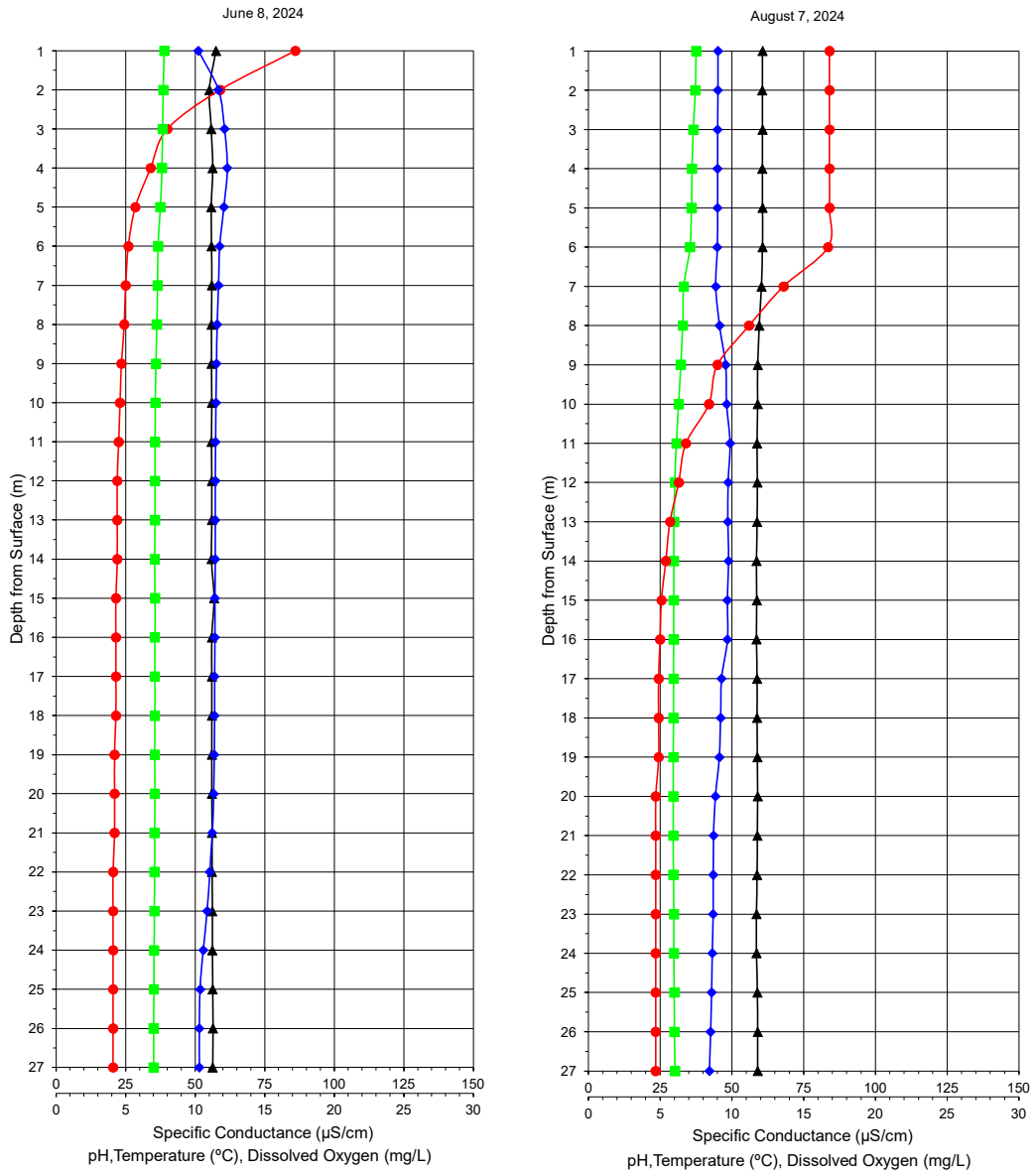
2024 Water Column Profiles at Mills Lake: MIL-03

DIGURE D-13



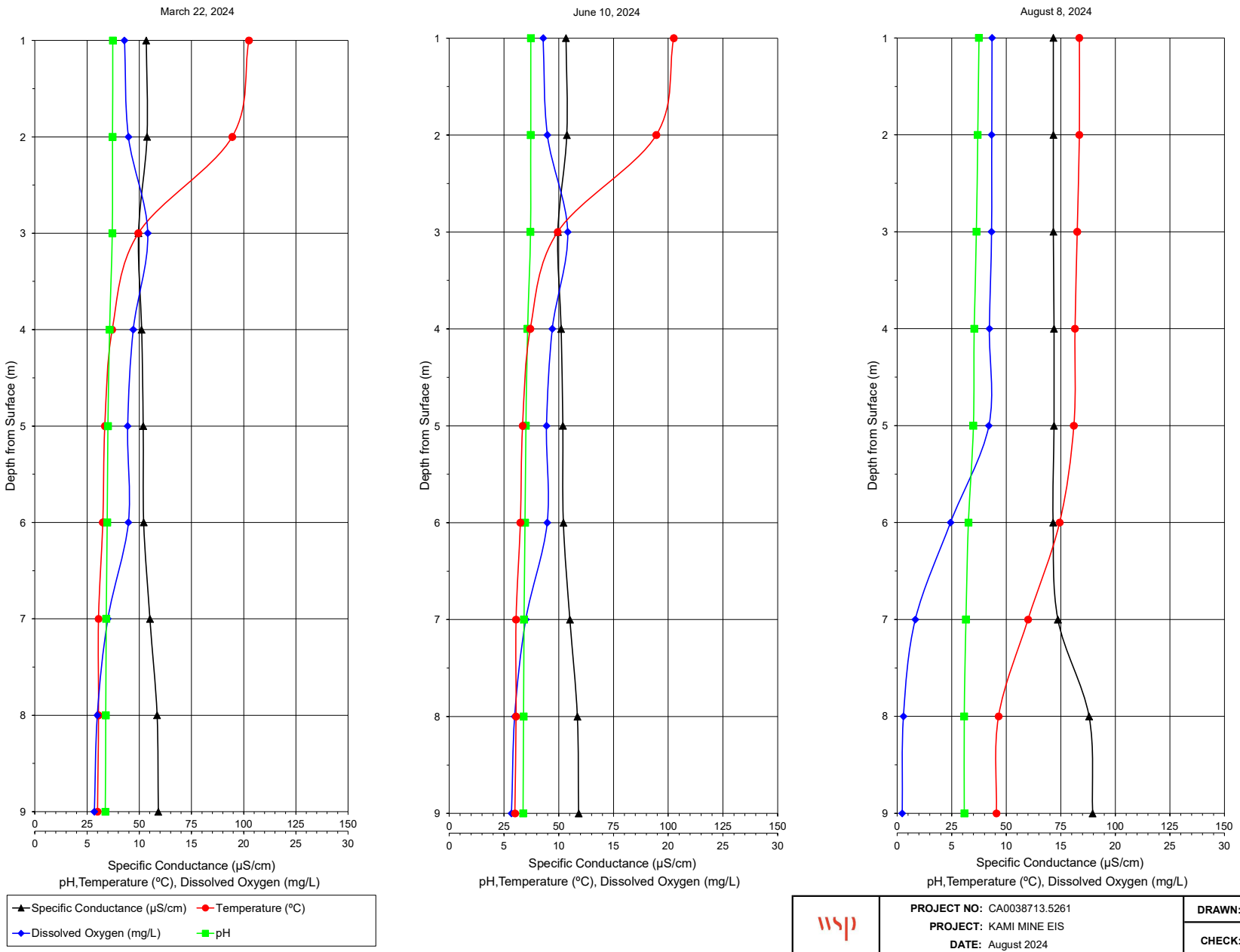
wsp	**PROJECT NO:** CA0038713.5261 **PROJECT:** KAMI MINE EIS **DATE:** August 2024	**DRAWN:** SPC **CHECK:** CDV

2024 Water Column Profiles at Molar Lake: MOL-02 | **FIGURE D-14**



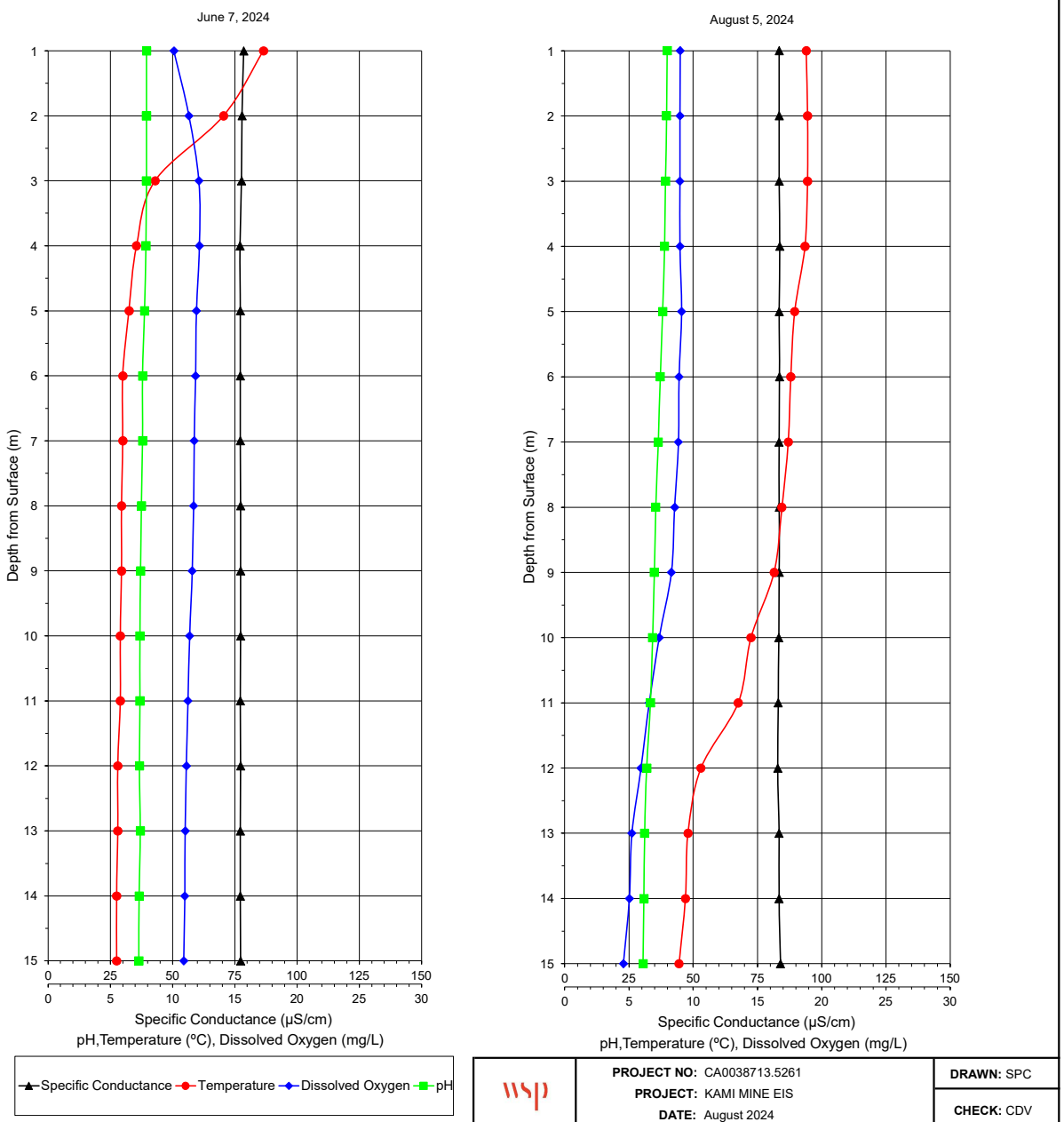
wsp	**PROJECT NO:** CA0038713.5261 **PROJECT:** KAMI MINE EIS **DATE:** August 2024	**DRAWN:** SPC **CHECK:** CDV

2024 Water Column Profiles at Pike Lake: PL-02 | **FIGURE D-15**



	PROJECT NO: CA0038713.5261 **PROJECT:** KAMI MINE EIS **DATE:** August 2024	**DRAWN:** SPC **CHECK:** CDV

2024 Water Column Profiles at Riordan Lake: RL-02 | **FIGURE D-16**



PROJECT NO: CA0038713.5261
PROJECT: KAMI MINE EIS
DATE: August 2024

DRAWN: SPC
CHECK: CDV

APPENDIX E

Tables

**Table E-1: 2023 - 2024 Field Water Quality Results -
Kami Iron Ore EIA**

PARAMETER	UNIT	CCME Guideline[1–13]		Unnamed stream reporting to Pike Lake from the southwest						Unnamed stream inmediatly downstream of Pike Lake Outlet						Unnamed stream reporting to Mills Lake from the west					
				WC-01						WC-02						WC-03					
GENERAL PARAMETERS		Short Term	Long Term	12-Jun-23	12-Aug-23	19-Oct-23	21-Mar-24	11-Jun-24	7-Aug-24	12-Jun-23	11-Aug-23	18-Oct-23	21-Mar-24	11-Jun-24	8-Aug-24	13-Jun-23	14-Aug-23	20-Oct-23	Mar-24	9-Jun-24	3-Aug-24
pH		---	6.5 to 9	7.19	7.20	7.86	7.39	7.17	8.27	7.39	7.50	7.20	7.21	7.43	7.69	7.51	7.53	7.48	-	7.67	7.40
Temperature	Celsius	---	Narrative[2]	22.5	16.3	5.0	-0.3	17.6	14.2	20.4	16.9	8.0	-0.2	16.9	15.9	23.5	16.7	8.8	-	19.6	21.0
Specific Conductance	µS/cm	---	---	83	99	110	64	82	112	54	76	85	71	51	70	47	62	82	-	58	59
Turbidity	NTU	---	---	2.97	0.74	1.10	0.70	0.94	1.05	0.74	0.42	0.00	0.15	0.55	0.00	0.00	0.02	0.00	-	0.32	0.00
Dissolved Oxygen	mg/L	---	---	7.8	8.6	12.7	10.9	7.2	11.2	9.4	9.2	13.4	5.3	9.7	9.1	7.9	9.3	11.8	-	8.4	8.2
Dissolved Oxygen Saturation	%	---	---	82	88	99	74	76	110	97	76	113	71	100	92	85	96	104	-	92	92

PARAMETER	UNIT	CCME Guideline[1–13]		Unnamed stream reporting to Long Lake from the south						Walsh River reporting to Long Lake from the south						Unnamed stream reporting to Long Lake from the southeast					
				WC-04						WC-05						WC-06					
GENERAL PARAMETERS		Short Term	Long Term	13-Jun-23	14-Aug-23	21-Oct-23	Mar-24	10-Jun-24	3-Aug-24	10-Jun-23	10-Aug-23	13-Oct-23	Mar-24	5-Jun-24	2-Aug-24	10-Jun-23	10-Aug-23	16-Oct-23	Mar-24	5-Jun-24	9-Aug-24
pH		---	6.5 to 9	7.99	7.76	7.67	-	7.74	7.84	8.11	7.63	7.35	-	7.50	8.00	7.31	7.24	7.31	-	7.71	7.86
Temperature	Celsius	---	Narrative[2]	22.7	17.0	8.6	-	11.2	21.0	24.3	14.5	9.0	-	16.6	22.6	14.7	11.9	6.4	-	10.0	9.1
Specific Conductance	µS/cm	---	---	55	73	48	-	67	71	90	117	130	-	84	128	105	117	134	-	108	186
Turbidity	NTU	---	---	0.88	0.03	0.00	-	0.20	0.00	1.73	0.42	0.00	-	0.28	0.00	0.11	0.20	0.00	-	0.12	0.00
Dissolved Oxygen	mg/L	---	---	9.2	9.4	10.6	-	12.2	8.9	8.5	9.5	10.3	-	9.0	9.1	9.8	8.7	12.5	-	10.3	10.9
Dissolved Oxygen Saturation	%	---	---	96	97	91	-	111	100	95	93	89	-	89	105	88	80	101	-	92	95

PARAMETER	UNIT	CCME Guideline[1–13]		Unnamed stream reporting to Long Lake from the southeast						Unnamed stream reporting to Long Lake from the east						Unnamed stream immediately downstream of Long Lake					
				WC-07						WC-08						WC-09					
GENERAL PARAMETERS		Short Term	Long Term	9-Jun-23	10-Aug-23	16-Oct-23	Mar-24	5-Jun-24	9-Aug-24	9-Jun-23	10-Aug-23	17-Oct-23	Mar-24	5-Jun-24	9-Aug-24	8-Jun-23	15-Aug-23	17-Oct-23	Mar-24	12-Jun-24	6-Aug-24
pH		---	6.5 to 9	7.62	7.47	7.21	-	7.86	7.76	8.38	7.64	7.03	-	7.75	7.94	8.18	7.43	7.05	-	7.26	7.38
Temperature	Celsius	---	Narrative[2]	18.7	13.5	5.8	-	17.6	13.2	12.0	16.3	6.2	-	21.0	18.9	9.8	19.5	6.7	-	19.8	15.1
Specific Conductance	µS/cm	---	---	75	77	86	-	86	124	87	94	97	-	82	105	61	35	56	-	37	59
Turbidity	NTU	---	---	1.55	0.32	0.00	-	0.55	0.00	0.00	0.10	0.00	-	0.20	0.00	0.00	0.18	0.00	-	0.20	0.00
Dissolved Oxygen	mg/L	---	---	9.2	9.8	14.5	-	9.0	10.1	10.4	9.2	12.4	-	8.3	8.8	11.2	9.5	12.7	-	9.0	9.5
Dissolved Oxygen Saturation	%	---	---	90	95	115	-	94	97	96	94	98	-	93	105	99	103	104	-	98	95

PARAMETER	UNIT	CCME Guideline[1–13]		Flows at Walsh River						Unnamed stream – immediately downstream of Riordan Lake			Unnamed stream – immediately downstream of Daviault Lake					Proposed Railway Crossings			
				WC-10						WC-11			WC-12					WC-13		WC-14	
GENERAL PARAMETERS		Short Term	Long Term	7-Jun-23	16-Aug-23	15-Oct-23	Mar-24	12-Jun-24	4-Aug-24	23-Oct-23	12-Jun-24	5-Aug-24	14-Jun-23	11-Aug-23	14-Oct-23	4-Jun-24	6-Aug-24	12-Oct-23	8-Aug-24	12-Oct-23	8-Aug-24
pH		---	6.5 to 9	6.72	7.21	7.31	-	7.29	8.37	7.65	7.78	7.96	7.49	7.73	7.31	7.16	7.83	7.03	8.11	6.87	6.89
Temperature	Celsius	---	Narrative[2]	16.3	17.5	7.4	-	19.4	20.5	5.3	19.2	19.5	21.7	19.1	9.5	12.1	15.3	8.4	13.8	9.2	15.7
Specific Conductance	µS/cm	---	---	23	27	49	-	26	45	85	79	88	39	53	60	48	68	87	140	0	29
Turbidity	NTU	---	---	0.06	0.21	0.00	-	0.19	0.93	0.05	3.20	0.00	6.56	0.74	0.02	4.09	2.12	0.00	0.71	2.28	0.94
Dissolved Oxygen	mg/L	---	---	9.7	9.3	13.0	-	8.9	8.6	11.5	9.5	9	8.7	9.3	12.8	10.9	9.5	13.3	9.8	11.0	5.3
Dissolved Oxygen Saturation	%	---	---	97	97	109	-	96	99	91	103	95	93	97	112	104	98	13	101	96	57

PARAMETER	UNIT	CCME Guideline[1–13]		Proposed Railway Crossings				Long Lake	Mills Lake	Pike Lake	Daviault Lake at SG Location	
				WC-15		WC-16		LL-01	MIL-01	PL-01	DL-01	
GENERAL PARAMETERS		Short Term	Long Term	12-Oct-23	11-Aug-24	23-Oct-23	11-Aug-24	8-Jun-23	13-Jun-23	11-Jun-23	4-Jun-24	5-Aug-24
pH		---	6.5 to 9	7.46	8.21	7.65	8.15	7.84	7.73	7.75	6.91	7.39
Temperature	Celsius	---	Narrative[2]	11.3	19.4	5.3	17.6	11.1	24.3	22.0	15.1	18.0
Specific Conductance	µS/cm	---	---	0	84	85	92	68	55	56	46	56
Turbidity	NTU	---	---	0.00	1.60	0.05	0.77	0.00	0.56	1.23	0.82	2.8
Dissolved Oxygen	mg/L	---	---	12.9	9.0	11.5	9.0	11.1	9.4	9.3	9.2	8.9
Dissolved Oxygen Saturation	%	---	---	118	105	91	100	100	99	94	93	97

Notes:

0.1 – Shaded cell denotes a value that is greater than the Canadian Council of Ministers of the Environment (CCME) short term concentration; bold cell denotes a value that is greater than the CCME long term concentration

(1) CCME [Canadian Council of Ministers of the Environment. Water Quality Guidelines for the Protection of Aquatic Life.

(2) For more information, see CCREM 1987.

Table E-2: 2023 Laboratory Water Quality Results - WC-01, WC-02, WC-03, and WC-04
Kami Iron Ore EIA

PARAMETER	UNIT	CCME Guideline[1–16]		Unnamed stream reporting to Pike Lake from the southwest						Unnamed stream inmediatly downstream of Pike Lake Outlet						unnamed stream reporting to Mills Lake from the west						Unnamed stream reporting to Long Lake from the southeast					
				WC-01						WC-02						WC-03						WC-04					
GENERAL PARAMETERS		Short Term	Long Term	12-Jun-2023	12-Aug-2023	19-Oct-2023	21-Mar-2024	11-Jun-2024	7-Aug-2024	12-Jun-2023	11-Aug-2023	18-Oct-2023	21-Mar-2024	11-Jun-2024	8-Aug-2024	13-Jun-2023	31-Jul-2023	14-Aug-2023	20-Oct-2023	9-Jun-2024	3-Aug-2024	13-Jun-2023	14-Aug-2023	21-Oct-2023	10-Jun-2024	3-Aug-2024
Field pH		---	6.5 to 9	7.19	7.20	6.86	7.39	7.17	8.27	7.39	7.50	7.20	7.21	7.43	7.69	7.51	---	7.53	7.48	7.67	7.4	7.99	7.76	7.67	7.74	7.84
Field Temperature	Celsius	---	Narrative[2]	22.5	16.3	5.0	-0.3	17.6	14.2	20.4	16.9	8.0	-0.2	16.9	15.9	23.5	---	16.7	8.8	19.6	21	22.7	17.0	8.6	11.2	21
Lab pH		---	---	7.49	7.44	---	7.47	7.54	7.91	7.54	7.41	---	7.22	7.48	7.58	7.51	7.44	7.34	---	7.68	7.42	7.64	7.35	---	7.64	7.65
Bicarb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---	---	---	---	---	---	---	Table	---	30.00	---	---	---	---	---	---	---	---	---
Carb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---
Total Alkalinity	mg/L as $CaCO_3$	---	---	45	48	---	62	40	56	32	36	---	48	25	35	29	30	29	---	29	30	34	35	---	35	36
Acidity	mg/L as $CaCO_3$	---	---	<5.0	<5.0	---	<5.0	<5.0	<5.0	<5.0	<5.0	---	8.0	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<5.0	---	---	<5.0	<5.0
Conductivity	µS/cm	---	---	100	98	---	134	84	115	70	76	---	103	53	71	63	63	62	---	61	60	73	73	---	71	72
Salinity		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---
Turbidity	NTU	---	---	2.97	0.74	1.10	0.70	0.94	1.05	0.74	0.42	0.00	0.15	0.55	0.00	0.00	0.30	0.02	0.00	0.32	0.00	0.88	0.03	0.00	0.20	0.00
Calculated TDS	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	35.00	---	---	---	---	---	---	---	---	---
TDS	mg/L	---	---	95	80	40	100	60	100	85	65	25	50	<10	75	60	39	45	30	45	50	85	55	20	30	50
TSS	mg/L	---	---	2	<10	---	<10	<10	<10	1	<10	---	<10	<10	<10	<1	<1.0	<10	---	<10	<10	<1	<10	---	<10	<10
Dissolved Hardness	mg/L as $CaCO_3$	---	---	45.9	---	---	---	---	51.6	31.6	---	---	---	---	32	28.6	---	---	---	---	25.4	33.6	---	---	---	32.5
Total Hardness	mg/L as $CaCO_3$	---	---	46	49	56	63	40	52	32	37	39	48	25	32	27	29	30	31	29	25	32	36	39	33	33
DOC	mg/L	---	---	4.0	5.2	4.3	2.2	5.1	3.6	3.9	4.6	4.8	4.0	6.0	5	3.2	3.2	3.2	3.2	3.4	3.2	3.1	3.0	3.0	3.1	2.9
TOC	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.30	---	---	---	---	---	---	---	---	---
Colour	TCU	---	---	13	---	---	---	---	---	16	---	---	---	---	---	11	10	---	---	---	---	10	---	---	---	---
ANIONS & NUTRIENTS		**Short Term**	**Long Term**																							
Anion Sum	me/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.65	---	---	---	---	---	---	---	---	---
Cation Sum	me/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.642	---	---	---	---	---	---	---	---	---
Ion Balance (% Difference)	%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 20C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-1.55	---	---	---	---	---	---	---	---	---
Langelier Index (@ 4C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-1.8	---	---	---	---	---	---	---	---	---
Saturation pH (@ 20C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8.99	---	---	---	---	---	---	---	---	---
Saturation pH (@ 4C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9.24	---	---	---	---	---	---	---	---	---
Fluoride	mg/L as F-	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dissolved Chloride	mg/L as Cl-	640	120	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Bromide	mg/L as Br-	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Sulphate	mg/L as SO_4	---	---	4.20	5.00	4.30	5.0	3.4	4.5	3.70	4.80	3.60	4.0	2.6	4.1	2.70	2.7	3.0	2.90	2.1	3.3	2.70	3	2.80	2.1	3.3
Total Ammonia	mg/L as NH_3	---	2.22, variable, 3.26 ug/L[3]	<0.061	<0.061	---	<0.061	<0.061	<0.061	<0.061	<0.061	---	<0.061	<0.061	<0.061	<0.061	---	<0.061	---	<0.061	<0.061	<0.061	<0.061	---	<0.061	<0.061
Total Ammonia-N	mg/L as N	---	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dissolved Nitrate	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.010	---	---	---	0.011	---	---	---
Dissolved Nitrate	mg/L as NO_3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.044	---	---	---	0.051	---	---	---
Dissolved Nitrite	mg/L as NO_2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.033	---	---	---	<0.033	---	---	---
Dissolved Nitrite	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.010	---	---	---	<0.010	---	---	---
Nitrite	mg/L as N	---	0.06	<0.010	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010
Nitrate	mg/L as N	550	13	<0.10	<0.010	<0.10	<0.10	<0.10	<0.10	<0.10	<0.010	<0.10	0.16	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10
Total Phosphorus	mg/L	---	Guidance Framework[4]	0.008	---	<0.020	<0.020	<0.020	<0.020	<0.004	<0.020	---	<0.020	<0.020	<0.020	<0.004	<0.020	<0.020	---	<0.020	<0.020	<0.004	<0.020	---	<0.020	<0.020
Nitrate + Nitrite	mg/L as N	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.16	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10
Dissolved Nitrate + Nitrite	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.010	---	---	---	0.011	---	---	---
Total Un-ionized Ammonia	mg/L	---	19	<0.00061	<0.00061	<0.00061	---	---	<0.0028	<0.0006	<0.0006	<0.00061	---	---	<0.00086	<0.00099	---	<0.00063	<0.00061	---	<0.00065	<0.0028	<0.0011	<0.00061	---	<0.0017
Orthophosphate	mg/L as P	---	---	<0.010	<0.010	---	---	---	---	<0.010	<0.010	---	---	---	---	<0.010	<0.010	<0.010	---	---	---	<0.010	<0.010	---	---	---
Reactive Silica	mg/L as SiO_2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.6	---	---	---	---	---	---	---	---	---
METALS		**Short Term**	**Long Term**	Total	Dissolved	Total	Dissolved	Total	Dissolved

PARAMETER	UNIT	CCME Guideline[1-15]		Flows at Waldorf River reporting to Long Lake from the south						unnamed stream reporting to Long Lake from the southeast						unnamed stream reporting to Long Lake from the southeast						unnamed stream reporting to Long Lake from the east					
				WC-05						WC-06						WC-07						WC-08					
GENERAL PARAMETERS		Short Term	Long Term	10-Jun-2023	10-Aug-2023	13-Oct-2023	5-Jun-2024	2-Aug-2024		10-Jun-2023	3-Aug-2023	10-Aug-2023	16-Oct-2023	5-Jun-2024	9-Aug-2024	9-Jun-2023	3-Aug-2023	10-Aug-2023	16-Oct-2023	5-Jun-2024	9-Aug-2024	9-Jun-2023	3-Aug-2023	10-Aug-2023	17-Oct-2023	5-Jun-2024	9-Aug-2024
Field pH		---	6.5 to 9	8.11	7.63	7.35	7.50	8		7.31	---	7.24	7.31	7.71	7.86	7.62	---	7.47	7.21	7.86	7.76	8.38	---	7.64	7.03	7.75	7.94
Field Temperature	Celsius	---	Narrative[2]	24.3	14.5	9.0	16.6	22.6		14.7	---	11.9	6.4	10.0	9.1	18.7	---	13.5	5.8	17.6	13.2	12.0	---	16.3	6.2	21.0	18.9
Lab pH		---	---	7.77	7.61	7.91	7.79	7.9		7.82	7.86	7.52	8.01	7.81	8.03	7.69	8.00	7.42	7.80	7.83	7.92	7.71	7.83	7.60	7.89	7.85	7.84
Bicarb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---		---	90.00	---	---	---	---	---	87.00	---	---	---	---	---	60.00	---	---	---	---
Carb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---		---	<1.0	---	---	---	---	---	<1.0	---	---	---	---	---	<1.0	---	---	---	---
Total Alkalinity	mg/L as $CaCO_3$	---	---	52	57	62	43	66		64	90	62	67	58	99	45	88	40	41	46	66	46	60	47	47	43	55
Acidity	mg/L as $CaCO_3$	---	---	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conductivity	µS/cm	---	---	110	110	120	88	129		130	170	120	130	114	191	92	160	77	82	89	127	95	120	94	95	86	107
Salinity		---	---	---	---	---	---	---		---	<2.0	---	---	---	---	---	<2.0	---	---	---	---	---	<2.0	---	---	---	---
Turbidity	NTU	---	---	1.73	0.42	0.00	0.28	0.00		0.11	0.20	0.20	0.00	0.12	0.00	1.55	1.10	0.32	0.00	0.55	0.00	0.00	0.20	0.10	0.00	0.20	0.00
Calculated TDS	mg/L	---	---	---	---	---	---	---		---	95.00	---	---	---	---	---	92.00	---	---	---	---	---	65.00	---	---	---	---
TDS	mg/L	---	---	85	80	---	60	90		115	97	70	---	70	105	70	89	70	---	25	75	105	65	45	---	35	60
TSS	mg/L	---	---	2	<10	<10	<10	<10		<1	<1.0	<10	<10	<10	<10	<1	<1.0	<10	<10	<10	<10	<1	1	<10	<10	<10	<10
Dissolved Hardness	mg/L as $CaCO_3$	---	---	54.2	---	---	---	61.3		65.8	---	---	---	---	96.2	46.0	---	---	---	---	64	46.2	---	---	---	---	51.2
Total Hardness	mg/L as $CaCO_3$	---	---	53	60	---	43	61		66	97	65	---	58	96	46	93	43	---	47	64	44	63	50	---	42	51
DOC	mg/L	---	---	3.0	4.6	---	4.0	3		3.9	5.0	7.3	---	4.7	3.2	5.2	4.1	9.4	---	5.0	5.6	3.2	2.8	4.2	---	3.5	2.8
TOC	mg/L	---	---	---	---	---	---	---		---	6.00	---	---	---	---	---	5.30	---	---	---	---	---	4.10	---	---	---	---
Colour	TCU	---	---	11	---	---	---	---		16	15	---	---	---	---	24	18	---	---	---	---	9	6	---	---	---	---
ANIONS & NUTRIENTS		**Short Term**	**Long Term**																								
Anion Sum	me/L	---	---	---	---	---	---	---		---	1.86	---	---	---	---	---	1.8	---	---	---	---	---	1.26	---	---	---	---
Cation Sum	me/L	---	---	---	---	---	---	---		---	1.98	---	---	---	---	---	1.94	---	---	---	---	---	1.32	---	---	---	---
Ion Balance (% Difference)	%	---	---	---	---	---	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 20C)		---	---	---	---	---	---	---		---	-0.19	---	---	---	---	---	-0.08	---	---	---	---	---	-0.566	---	---	---	---
Langelier Index (@ 4C)		---	---	---	---	---	---	---		---	-0.45	---	---	---	---	---	-0.33	---	---	---	---	---	-0.818	---	---	---	---
Saturation pH (@ 20C)		---	---	---	---	---	---	---		---	8.05	---	---	---	---	---	8.08	---	---	---	---	---	8.4	---	---	---	---
Saturation pH (@ 4C)		---	---	---	---	---	---	---		---	8.30	---	---	---	---	---	8.33	---	---	---	---	---	8.65	---	---	---	---
Fluoride	mg/L as F-	---	---	<0.10	<0.10	---	<0.10	<0.10		<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10
Dissolved Chloride	mg/L as Cl-	640	120	<1.0	<1.0	---	<1.0	<1.0		<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0
Dissolved Bromide	mg/L as Br-	---	---	<1.0	<1.0	---	<1.0	<1.0		<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0
Dissolved Sulphate	mg/L as SO_4	---	---	3.80	4.50	---	2.7	4.2		3.30	2.50	2.90	---	3.1	4.2	1.70	2.3	3.00	---	1.5	2.6	2.70	2.8	4.00	---	2.1	3.3
Total Ammonia	mg/L as NH_3	---	2.22, variable, 3.26 ug/L[3]	<0.061	<0.061	---	<0.061	<0.061		<0.061	---	<0.061	---	<0.061	<0.061	<0.061	---	<0.061	---	<0.061	<0.061	<0.061	---	<0.061	---	<0.061	<0.061
Total Ammonia-N	mg/L as N	---	---	<0.050	<0.050	---	<0.050	<0.050		<0.050	<0.050	<0.050	---	<0.050	<0.050	<0.050	<0.050	<0.050	---	<0.050	<0.050	<0.050	<0.050	<0.050	---	<0.050	<0.050
Dissolved Nitrate	mg/L as N	---	---	---	---	---	---	---		---	0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrate	mg/L as NO_3	---	---	---	---	---	---	---		---	0.06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrite	mg/L as NO_2	---	---	---	---	---	---	---		---	<0.033	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrite	mg/L as N	---	---	---	---	---	---	---		---	<0.010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite	mg/L as N	---	0.06	<0.010	<0.010	---	<0.010	<0.010		<0.010	---	<0.10	---	<0.010	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010
Nitrate	mg/L as N	550	13	<0.10	<0.10	---	<0.10	<0.10		<0.10	---	<0.010	---	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10
Total Phosphorus	mg/L	---	Guidance Framework[4]	0.004	<0.020	<0.020	<0.020	<0.020		<0.004	<0.020	<0.020	<0.020	<0.020	<0.020	<0.004	<0.020	<0.020	<0.020	<0.020	<0.020	<0.004	<0.020	<0.020	<0.020	<0.020	<0.020
Nitrate + Nitrite	mg/L as N	---	---	<0.10	<0.10	---	<0.10	<0.10		<0.10	---	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10
Dissolved Nitrate + Nitrite	mg/L as N	---	---	---	---	---	---	---		---	0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Un-ionized Ammonia	mg/L	---	19	<0.004	<0.00068	---	---	<0.0028		<0.00061	---	<0.00061	---	---	<0.00075	<0.0009	---	<0.00061	---	---	<0.00082	<0.003	---	<0.00079	---	---	<0.0019
Orthophosphate	mg/L as P	---	---	<0.010	<0.010	---	---	---		<0.010	<0.010	<0.010	---	---	---	<0.010	<0.010	<0.010	---	---	---	<0.010	<0.010	<0.010	---	---	---
Reactive Silica	mg/L as SiO_2	---	---	---	---	---	---	---		---	4.30	---	---	---	---	---	3.8	---	---	---	---	---	3.5	---	---	---	---
METALS		**Short Term**	**Long Term**	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Ag	µg/L	---	0.25	<0.020	<0.020	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Al	µg/L	---	5, 100[5]	22.0	4.9	16.0	<4.9	12.0	<4.9	14	7.46	8.4	4	4.1	<3.0	5.7	<4.9	6.4	<4.9	5.4	<4.9	5.12	3.31	<3.0	<3.0	6.5	3.1	5.0	<4.9	16.0	<4.9	5.2	<4.9	3.84	3.9	3.2	<3.0	10.0	<3.0	<4.9	<4.9	12.0	<4.9	5.2	<4.9	7.79	4.4	5	3.2
As	µg/L	---	5	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	0.046	0.052	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	0.06	0.069	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	0.061	0.079	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.059	0.062	<1.0	<0.10
Au	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B	µg/L	29000	1500	<50	<50	<10	<10	<10	<10	<10	<10	<50	<50	<50	<50	14.00	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50
Ba	µg/L	---	---	16.6	15.7	18.0	17.0	17.0	17.0	15	14.1	18.2	18.9	16.7	15.6	23.0	23.0	15.0	14.0	13.0	13.0	15.9	13.7	20.1	21.3	11.7	11.0	19.0	20.0	13.0	12.0	11.0	11.0	11.8	11.4	14.5	15.4	12.4	12.0	15.0	14.0	14.0	12.0	13.0	14.0	14.5	13.7	12.3	12.9
Be	µg/L	---	---	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10
Bi	µg/L	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0
Ca	µg/L			12600	12800	14000	14000	14000	15000	10200	10100	13200	14200	15000	15000	21000	21000	14000	15000	15000	15000	13400	13000	19500	21400	10200	10200	20000	21000	9500	9800	8700	9100	10800	10300	13000	14200	9940	10300	14000	14000	10000	11000	9700	10000	9510	9350	10200	11400
Cd	µg/L	0.11, variable, 7.7[6]	0.04, variable, 0.37[6]	<0.010	<0.010	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010
Ce	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Co	µg/L	---	---	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0154	0.0118	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0135	0.013	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0064	0.0129	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0069	<0.0050	<0.20	<0.20
Cs	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cr	µg/L	---	---	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	0.15	0.15	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.15	0.15	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.11	0.22	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.11	0.11	<1.0	<1.0
Cu	µg/L	---	2, variable, 4, 2[6]	<0.50	0.84	<0.90	<0.90	<0.90	<0.90	0.38	0.413	<0.50	0.27	<0.50	0.64	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	0.13	1.8	<0.50	0.25	<0.50	0.59	<0.90	<0.90	<0.90	1.50	<0.90	1.20	0.156	0.917	<0.50	0.36	<0.50	0.22	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	0.199	0.261	<0.50	0.94
Dy	µg/L	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	---	---
Er	µg/L	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	---	---
Eu	µg/L	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	---	---
Fe	µg/L	---	300	143	53	140	<100	110.00	<100	105	58.5	117	60.5	60	37	<100	<100	<100	<100	<100	<100	62.9	22	73	61.3	117	72.8	**390**	240	120	<100	<100	<100	117	64.6	235	187	47	21.6	<100	<100	<100	<100	<100	<100	25	9.6	43	24
Gd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Hg	µg/L	---	0.026	<0.01	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ho	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ir	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
K	µg/L	---	---	1130	1070	950	1000	1100	1100	885	863	1180	1250	957	905	820	880	390	430	760	760	814	798	938	1030	492	495	760	850	<200	<200	350	400	499	529	390	419	880	856	1100	1200	840	920	850	950	828	808	929	1030
La	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Li	µg/L	---	---	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0
Lu	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mg	µg/L	---	---	5210	5400	5700	5900	5900	6600	4440	4330	5820	6250	6820	6920	9900	10000	6500	6600	7000	7200	6330	6050	9490	10400	4900	5000	9700	10000	4300	4500	4400	4600	5060	5150	6490	6970	4690	4990	6600	6900	4900	5300	4800	5100	4690	4430	5090	5510
Mn	µg/L	Equation[101]	Variable[11]	21.4	14.8	23.0	17.0	18.0	18.0	15.9	11.4	28.5	23.9	20.2	10.2	31.0	4.9	28.0	2.5	17.0	6.8	42.1	5.11	18.4	17.2	12.7	3.1	7.4	<2.0	26.0	5.3	12.0	5.0	9.31	2.08	5	1.4	20.9	3.5	18.0	<2.0	44.0	6.9	15.0	2.0	20.7	3.36	25	3.7
Mo	µg/L	---	73	<1.0	<1.0	<0.50	0.55	0.52	<0.50	0.376	0.3	<1.0	<1.0	<1.0	<1.0	2.00	0.86	<0.50	<0.50	1.10	0.54	0.538	0.57	1.1	1.2	<1.0	<1.0	0.74	0.68	<0.50	<0.50	<0.50	<0.50	0.379	0.287	<1.0	<1.0	<1.0	<1.0	0.79	0.73	0.59	0.73	0.65	0.66	0.504	0.503	<1.0	<1.0
Na	µg/L	---	---	458	442	410	450	450	480	400	355	473	487	575	521	680	650	360	380	420	440	401	399	629	688	473	459	850	900	230	250	310	340	327	344	476	522	437	0	500	540	430	420	420	440	389	376	414	469
Nd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ni	µg/L	---	25, variable, 150, 25[12]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.211	0.187	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.111	0.151	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.108	0.119	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.116	0.106	<1.0	<1.0
P	µg/L	---	4	---	---	<20	<100	<20	<100	3.8	**4.4**	---	---	<20	<100	<20	<100	<20	<100	<20	<100	**5.4**	3.9	---	---	<20	<100	<20	<100	<20	<100	<20	<100	**4.5**	**4.6**	---	---	<20	<100	<20	<100	<20	<100	<20	<100	<20	<100	3.7	3.9	---	---
Pb	µg/L	---	1, variable, 7, 1[13]	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0179	0.0059	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0056	0.0158	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0050	0.0101	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0093	0.0063	<0.20	<0.20
Pd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pr	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pt	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rb	µg/L	---	---	---	---	---	---	2.40	2.50	---	---	---	---	---	---	---	---	---	---	---	---	1.60	1.50	---	---	---	---	---	---	0.78	0.73	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.60	1.60	---	---	---	---
Ru	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S	µg/L	---	---	<3000	<3000	---	---	---	---	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sb	µg/L	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50
Sc	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Se	µg/L	---	1	<0.10	<0.10	<2.0	<2.

PARAMETER	UNIT	CCME Guideline[1-15]		Unnamed stream immediately downstream of Long Lake						Flows at Walsh River reporting to Long Lake from the northwest					unnamed stream - immediately downstream of Riordan Lake		unnamed stream - immediately downstream of Daviault Lake					Proposed Railway Crossings			
				WC-09						WC-10					WC-11		WC-12					WC-13		WC-14	
GENERAL PARAMETERS		Short Term	Long Term	8-Jun-2023	15-Aug-2023	17-Oct-2023	20-Mar-2024	12-Jun-2024	6-Aug-2024	7-Jun-2023	16-Aug-2023	15-Oct-2023	12-Jun-2024	4-Aug-2024	7-Jun-2024	5-Aug-2024	14-Jun-2023	11-Aug-2023	14-Oct-2023	4-Jun-2024	6-Aug-2024	13-Oct-2023	8-Aug-2024	19-Oct-2023	8-Aug-2024
Field pH		---	6.5 to 9	8.18	7.43	7.05	7.45	7.26	7.38	6.72	7.21	7.31	7.29	8.37	7.78	7.96	7.49	7.73	7.31	7.16	7.83	7.03	8.11	6.87	6.89
Field Temperature	Celsius	---	Narrative[2]	9.8	19.5	6.7	1.0	19.8	15.1	16.3	17.5	7.4	19.4	20.49	19.2	19.5	21.7	19.1	9.5	12.1	15.3	8.4	13.76	9.2	15.66
Lab pH		---	---	7.54	7.01	---	7.35	7.41	7.38	7.15	6.96	7.53	7.25	7.28	7.86	7.67	7.32	7.13	7.45	7.33	7.31	7.83	7.91	7.73	6.52
Bicarb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Alkalinity	mg/L as $CaCO_3$	---	---	32	12	---	33	15	24	12	10	21	10	21	43	46	17	18	20	14	24	45	70	39	13
Acidity	mg/L as $CaCO_3$	---	---	<5.0	<5.0	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12
Conductivity	µS/cm	---	---	69	34	---	74	38	51	32	27	49	26	43	85	88	53	53	56	45	65	94	137	83	29
Salinity		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Turbidity	NTU	---	---	0.00	0.18	0.00	---	0.20	0.00	0.06	0.21	0.00	0.19	0.93	3.20	0.00	6.56	0.74	0.02	4.09	2.12	0.00	0.71	2.28	0.94
Calculated TDS	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TDS	mg/L	---	---	75	35	<10	70	30	35	70	25	---	<10	25	55	60	65	50	---	35	100	---	100	---	55
TSS	mg/L	---	---	1	<10	---	<10	<10	<10	2	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<10	24
Dissolved Hardness	mg/L as $CaCO_3$	---	---	32.0	---	---	---	---	21.2	13.3	---	---	---	18.2	---	42.2	19.2	---	---	---	20.3	---	66.9	---	13
Total Hardness	mg/L as $CaCO_3$	---	---	31	14	25	33	16	21	14	11	---	12	18	42	42	19	21	---	17	20	---	67	---	13
DOC	mg/L	---	---	3.4	5.4	5.2	3.5	5.5	4.4	5.0	5.5	---	5.8	4.4	2.8	2.9	3.9	3.7	---	4.5	3.5	---	3.9	---	8.1
TOC	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Colour	TCU	---	---	15	---	---	---	---	---	29	---	---	---	---	---	---	18	---	---	---	---	---	---	---	---
ANIONS & NUTRIENTS		Short Term	Long Term																						
Anion Sum	me/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cation Sum	me/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ion Balance (% Difference)	%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 20C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 4C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saturation pH (@ 20C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saturation pH (@ 4C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoride	mg/L as F-	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	---	<0.10	---	<0.10
Dissolved Chloride	mg/L as Cl-	640	120	<1.0	<1.0	1.10	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	1.7	2.6	---	2.7	2.3	---	<1.0	---	<1.0
Dissolved Bromide	mg/L as Br-	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	---	<1.0	---	<1.0
Dissolved Sulphate	mg/L as SO_4	---	---	3.20	2.90	2.50	3.3	1.9	2.4	1.9	2.50	---	1.2	2.4	1.4	2.4	2	3.6	---	2.4	4.9	---	4.2	---	1.2
Total Ammonia	mg/L as NH_3	---	2.22, variable, 3.26 ug/L[3]	<0.061	<0.061	---	<0.061	<0.061	<0.061	<0.061	<0.061	---	<0.061	<0.061	<0.061	<0.061	<0.061	<0.061	---	0.097	0.5246	---	<0.061	---	<0.061
Total Ammonia-N	mg/L as N	---	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	---	0.08	0.43	---	<0.050	---	<0.050
Dissolved Nitrate	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrate	mg/L as NO_3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrite	mg/L as NO_2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrite	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite	mg/L as N	---	0.06	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	---	<0.010	0.015	---	<0.010	---	<0.010
Nitrate	mg/L as N	550	13	<0.10	<0.10	0.11	0.27	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	0.14	---	<0.10	---	<0.10
Total Phosphorus	mg/L	---	Guidance Framework[4]	<0.004	<0.020	---	<0.020	<0.020	<0.020	0.006	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.004	<0.020	<0.020	<0.020	0.02	<0.020	0.033	<0.020	<0.020
Nitrate + Nitrite	mg/L as N	---	---	<0.10	<0.10	0.11	0.27	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	0.15	---	<0.10	---	<0.10
Dissolved Nitrate + Nitrite	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Un-ionized Ammonia	mg/L	---	19	<0.0016	<0.00062	<0.00061	---	---	<0.00061	<0.00061	<0.00061	---	---	<0.0054	---	<0.0021	<0.00083	<0.0012	---	---	0.0098	---	<0.0019	---	<0.00061
Orthophosphate	mg/L as P	---	---	<0.010	<0.010	---	---	---	---	<0.010	<0.010	---	---	---	---	---	<0.010	<0.010	---	---	---	---	---	---	---
Reactive Silica	mg/L as SiO_2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
METALS		Short Term	Long Term	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved	Total / Dissolved
Ag	µg/L	---	0.25	<0.020 / <0.020	<0.020 / <0.090	<0.090 / <0.090	--- / ---	<0.090 / <0.090	<0.090 / <0.0050	<0.0050 / <0.0050	<0.020 / <0.020	<0.020 / <0.020	<0.090 / <0.090	<0.090 / <0.090	<0.090 / <0.020	0.0065 / <0.0050	<0.0050 / <0.020	<0.020 / <0.020	<0.020 / <0.090	<0.090 / <0.090	<0.090 / <0.0050	<0.0050 / <0.020	<0.020 / <0.020	<0.090 / <0.090	<0.090 / <0.020	<0.020 / <0.020
Al	µg/L	---	5, 100[17]	35.4 / 17.5	55.0 / 35.0	--- / ---	--- / ---	31.0 / 27.0	78.9 / 47.9	33.5 / 22.5	74.0 / 50.6	43.0 / 39.0	58 / 41	**196** / 72.7	33.3 / 24.3	3.19 / 2.56	5.8 / <3.0	25.2 / 25.5	16.0 / 24.0	31.0 / 12.0	70.9 / 39.3	36.4 / 19.6	5.3 / <4.9	4.4 / 94.9	7.3 / 6.1	54.6 / 28.6
As	µg/L	---	5	<0.10 / <0.10	<1.0 / <1.0	<1.0 / <1.0	--- / ---	<1.0 / <1.0	0.074 / 0.061	<0.10 / <0.10	<0.10 / <0.10	<1.0 / <1.0	<1.0 / <1.0	0.088 / 0.057	<0.10 / <0.10	0.057 / 0.068	<0.10 / <0.10	<0.10 / <0.10	<1.0 / <1.0	<1.0 / <1.0	0.078 / 0.058	<0.10 / <0.10	<1.0 / <1.0	<0.10 / <0.10	<1.0 / 0.17	0.17 / 0.17
Au	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<2.0 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
B	µg/L	29000	1500	<50 / <50	<10 / <10	--- / ---	<10 / <10	<10 / <10	<50 / <50	<50 / <50	<10 / <10	<10 / <10	<10 / <10	<50 / <50	<10 / <10	<50 / <50	<50 / <50	<10 / <10	<10 / <10	<50 / <50	<50 / <50	<10 / <10	<50 / <50	<10 / <10	<50 / <50	<50 / <50
Ba	µg/L	---	---	9.7 / 8.7	7.4 / 7.1	--- / ---	10.00 / 11.00	9.07 / 8.62	8.1 / 8.5	6.7 / 6.1	6.0 / 6.2	8 / 7.9	8.85 / 6.87	7.7 / 8.3	13.4 / 13.1	11.3 / 11.3	9.3 / 8.5	8.7 / 9.4	10.0 / 9.8	9.58 / 10.3	9.8 / 9.1	11.0 / 12.0	16.6 / 28.9	12 / 15	12.7 / 10.9
Be	µg/L	---	---	<0.10 / <0.10	<0.40 / <0.40	--- / ---	<0.40 / <0.40	<0.010 / <0.010	<0.10 / <0.10	<0.10 / <0.10	<0.40 / <0.40	<0.40 / <0.40	<0.010 / <0.010	<0.10 / <0.10	<0.010 / <0.010	<0.10 / <0.10	<0.10 / <0.10	<0.40 / <0.40	<0.40 / <0.40	<0.40 / <0.40	0.014 / <0.010	<0.10 / <0.10	<0.40 / <0.40	<0.10 / <0.10	<0.40 / <0.40	<0.10 / <0.10
Bi	µg/L	---	---	<1.0 / <1.0	<1.0 / <1.0	--- / ---	<1.0 / <1.0	<0.0050 / <0.0050	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	0.0067 / <0.0050	<0.0050 / <0.0050	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<0.0050 / <0.0050	<0.0050 / <0.0050	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0
Ca	µg/L	0.111, variable, 7.7[25]	0.04, variable, 0.37[25]	7360 / 7490	3700 / 3700	--- / ---	7,900 / 7,800	4070 / 4030	4800 / 5260	3380 / 3240	3000 / 2900	5100 / 5100	4620 / 2820	4110 / 4460	9170 / 9320	8610 / 9160	5180 / 5120	5500 / 5700	5200 / 5400	4360 / 4520	5200 / 5430	9800 / 10000	13100 / 15000	8700 / 9600	2850 / 3180
Cd	µg/L			<0.010 / <0.010	<0.090 / <0.090	<0.090 / <0.090	--- / <0.090	<0.090 / <0.0050	<0.0050 / <0.0050	<0.010 / <0.010	<0.010 / <0.010	<0.090 / <0.090	<0.090 / <0.090	0.0121 / <0.0050	<0.0050 / <0.010	<0.0050 / <0.0050	<0.010 / <0.010	<0.010 / <0.010	<0.090 / <0.090	<0.090 / <0.090	<0.090 / 0.0193	<0.0050 / <0.010	<0.010 / <0.010	<0.090 / <0.090	<0.010 / <0.010	<0.090 / <0.090	<0.010 / 0.017
Ce	µg/L	---	---	--- / ---	--- / ---	--- / ---	<0.30 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Co	µg/L	---	---	<0.20 / <0.20	<0.50 / <0.50	--- / ---	<0.50 / <0.50	0.0722 / 0.052	<0.20 / <0.20	<0.20 / <0.20	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50	0.069 / 0.0241	<0.20 / <0.20	<0.20 / <0.20	<0.20 / <0.20	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50	0.083 / 0.0408	<0.20 / <0.20	<0.50 / <0.50	<0.20 / <0.20	<0.50 / <0.50	<0.20 / <0.20
Cs	µg/L	---	---	--- / ---	--- / ---	--- / ---	<0.20 / <0.20	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	<0.20 / <0.20	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	<0.20 / <0.20	--- / ---	--- / ---	<0.20 / <0.20	--- / ---	<0.20 / <0.20	--- / ---
Cr	µg/L	---	---	<1.0 / <1.0	<5.0 / <5.0	--- / ---	<5.0 / <5.0	0.43 / 0.32	<1.0 / <1.0	<1.0 / <1.0	<5.0 / <5.0	<5.0 / <5.0	0.47 / 0.39	<1.0 / <1.0	0.1 / 0.13	<1.0 / <1.0	<1.0 / <1.0	<5.0 / <5.0	<5.0 / <5.0	0.45 / 0.36	<1.0 / <1.0	<5.0 / <5.0	<1.0 / <1.0	<5.0 / <5.0	<1.0 / <1.0	<5.0 / <5.0
Cu	µg/L		2, variable, 4, 2[26]	<0.50 / 0.59	<0.90 / <0.90	--- / ---	<0.90 / <0.90	0.434 / 1.04	<0.50 / 0.87	0.65 / 0.95	<0.90 / <0.90	<0.90 / <0.90	<0.90 / <0.90	1.81 / 0.452	<0.50 / 0.21	<0.50 / 1.45	<0.90 / <0.90	<0.90 / <0.90	<0.90 / <0.90	0.555 / 1.63	0.54 / 0.5	<0.90 / <0.90	0.86 / 0.76	<0.90 / 1.0	1.29 / 0.82
Dy	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<2.0 / --	-- / --	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	-- / --	-- / --	--- / ---	--- / ---	--- / ---	-- / --	-- / --	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Er	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<0.50 / --	-- / --	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	-- / --	-- / --	--- / ---	--- / ---	--- / ---	-- / --	-- / --	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Eu	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<0.40 / --	-- / --	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	-- / --	-- / --	--- / ---	--- / ---	--- / ---	-- / --	-- / --	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Fe	µg/L	---	300	100 / 28.9	160 / <100	--- / ---	100 / <100	187 / 112	104 / 83.1	111 / 59.5	<100 / <100	160 / <100	130 / 58.7	99 / 65	11.4 / 6.7	32 / 9.6	52 / 34.8	<100 / <100	<100 / <100	<100 / 143	48.1 / 210	125 / <100	<100 / <100	43 / 514	<100 / <100	**1980** / **1020**
Gd	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<0.50 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Hg	µg/L	---	0.026	<0.01 / <0.01	<0.10 / <0.10	--- / ---	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.01	<0.01 / <0.01	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.01 / <0.01	<0.10 / <0.10	<0.10 / <0.10	<0.10 / <0.10	<0.1 / <0.10	<0.10 / <0.10
Ho	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<0.30 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Ir	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<2.0 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
K	µg/L	---	---	865 / 817	750 / 790	--- / ---	1,100 / 1,100	732 / 710	1020 / 1050	647 / 620	620 / 690	760 / 840	619 / 578	878 / 938	761 / 762	754 / 793	1110 / 1050	1000 / 1100	1000 / 1100	987 / 1030	1290 / 1290	840 / 910	1110 / 1190	1200 / 1300	484 / 519
La	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<0.30 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Li	µg/L	---	---	<2.0 / <2.0	<5.0 / <5.0	--- / ---	<5.0 / <5.0	<0.50 / <0.50	<2.0 / <2.0	<2.0 / <2.0	<5.0 / <5.0	<5.0 / <5.0	0.58 / <0.50	<2.0 / <2.0	<2.0 / <0.50	<2.0 / <2.0	<2.0 / <2.0	<5.0 / <5.0	<5.0 / <5.0	<5.0 / <0.50	<0.50 / <2.0	<2.0 / <2.0	<5.0 / <5.0	<5.0 / <2.0	<2.0 / <5.0	<5.0 / <2.0
Lu	µg/L	---	---	--- / ---	--- / ---	--- / ---	<1.0 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Mg	µg/L	---	---	3020 / 3220	1200 / 1200	--- / ---	3,400 / 3,400	1600 / 1530	1820 / 1970	1340 / 1270	930 / 990	2100 / 2200	1320 / 1130	1550 / 1710	4730 / 4650	4450 / 4690	1480 / 1550	1500 / 1600	1500 / 1500	1280 / 1320	1650 / 1640	4700 / 4900	6470 / 7170	3700 / 3900	1150 / 1220
Mn	µg/L	Equation[22]	Variable[11]	27.0 / 5.2	24.0 / 13.0	--- / ---	6.9 / 3.4	49.6 / 46.7	25.8 / 16.9	11.4 / 5.0	6.3 / 6.5	13 / 5.1	20.7 / 8.37	22.3 / 11.4	22 / 16.5	16.9 / 6.2	16.4 / 16.7	11.0 / 21.0	26.0 / 7.2	27.6 / 28.7	35.7 / 14.8	6.4 / 2.0	20.6 / 230	35 / 51	127 / 127
Mo	µg/L	---	73	<1.0 / <1.0	<0.50 / <0.50	--- / ---	<0.50 / <0.50	0.198 / 0.23	1.4 / <1.0	<1.0 / <1.0	<1.0 / <0.50	<0.50 / <0.50	<0.50 / <0.50	0.362 / 0.106	<1.0 / <1.0	<1.0 / 0.508	0.506 / <1.0	<1.0 / <1.0	<1.0 / <0.50	0.70 / 0.82	0.53 / 0.399	0.381 / <1.0	<1.0 / <1.0	<0.50 / 0.51	1 / <1.0	<0.50 / 0.56
Na	µg/L	---	---	496 / 474	740 / 770	--- / ---	840 / 800	634 / 602	802 / 846	544 / 469	530 / 560	580 / 610	972 / 489	570 / 618	395 / 405	391 / 379	2120 / 2100	2000 / 2100	2100 / 2200	2200 / 2050	2070 / 2500	2510 / 420	430 / 543	598 / 600	660 / 428	428 / 479
Nd	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / <2.0	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Ni	µg/L	25, variable, 150, 26[12]		<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	0.498 / 0.466	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	0.994 / 0.411	<1.0 / <1.0	<1.0 / 0.094	0.097 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / 0.522	0.5 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0 / <1.0
P	µg/L	---	4	--- / ---	--- / <20	<20 / <100	--- / <100	**8.4** / **4.9**	--- / ---	--- / ---	--- / ---	<20 / <100	**13.3** / **4.9**	--- / ---	3.9 / 3.7	--- / ---	--- / ---	--- / <20	<100 / <100	**13.8** / **4.1**	--- / ---	<20 / <100	39 / ---	--- / <20	<100 / ---	--- / ---
Pb	µg/L	---	1, variable, 7, 1[13]	<0.20 / <0.20	**2.40** / <0.50	--- / ---	<0.50 / <0.50	0.0504 / 0.0374	<0.20 / <0.20	<0.20 / <0.20	<0.20 / <0.20	<0.50 / <0.50	<0.50 / <0.50	0.175 / 0.0209	<0.20 / <0.20	<0.20 / <0.0050	0.0082 / <0.20	<0.20 / <0.20	<0.20 / <0.50	<0.50 / <0.50	<0.50 / 0.0726	0.0291 / <0.20	<0.20 / <0.20	<0.50 / <0.50	<0.20 / <0.20	<0.50 / <0.50	<0.20 / <0.20
Pd	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<1.0 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Pr	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<0.40 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Pt	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<3.0 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Rb	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	1.9 / 2.0	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	1.9 / 1.9	--- / ---	--- / ---	--- / ---	--- / ---	--- / 1.90	2.10	--- / ---	--- / ---	1.50 / 1.50	--- / ---	1.2 / 1.3	--- / ---
Ru	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / ---	<0.20 / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
S	µg/L	---	---	<3000 / <3000	<3000 / ---	--- / ---	<3000 / <3000	<3000 / <3000	<3000 / <3000	<3000 / <3000	<3000 / ---	--- / ---	<3000 / <3000	<3000 / <3000	<3000 / <3000	<3000 / <3000	<3000 / <3000	<3000 / ---	--- / ---	--- / ---	<3000 / <3000	<3000 / <3000	--- / ---	<3000 / <3000	--- / ---	<3000 / <3000
Sb	µg/L	---	---	<0.50 / <0.50	<0.50 / <0.50	--- / ---	<0.50 / <0.50	<0.020 / <0.020	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50	0.021 / <0.020	<0.50 / <0.50	<0.50 / <0.020	<0.020 / <0.020	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.020	<0.020 / <0.020	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50	<0.50 / <0.50
Sc	µg/L	---	---	--- / ---	--- / ---	--- / ---	--- / <3.0	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---	--- / ---
Se	µg/L	---	1	<0.10 / <0.10	<0.10 / <2.0	<2.0 / <2.0	<2.0 / <2.0	<0.040 / <0.040	<0.040 / <0.040	<0.040 / <0.040	<0.10 / <0.10	<2.0 / <2.0	<2.0 / <2.0	<2.0 / <2.0	<0.040 / <0.040	<0.040 / <0.040	<0.040 / <0.040	<0.040 / <0.040	<0.040 / <0.040	<0.040 / <0.040	<0.040 / <0.040	<0.10 / <0.10	<2.0 / <2.0	<2.0 / <2.0	<0.040 / <0.040	<2.0 / <2.0	<0.040 / <0.040
Si	µg/L	---	---	1600 / 1620	910 / 940	--- / ---	2,200 / 2,100	968 / 968	967 / 1050	1100 / 964	810 / 860	1200 / 1200	915 / 863	839 / 931	1430 / 1450	1370 / 1430	2110 / 2200	1800 / 2000	2000 / 2000	2140 / 2020	1640 / 1660	1600 / 1700	1890 / 2120	2000 / 2100	2510 / 2830

PARAMETER	UNIT	CCME Guideline[1-15]		Proposed Railway Crossings				Lake Column at Daviault Lake								Daviualt Lake - at SG location		Lake Column at Molar Lake							
				WC-15		WC-16		DL-02 NS				DL-02 NB				DL-01		MOL-02 NS				MOL-02 NB			
GENERAL PARAMETERS		Short Term	Long Term	13-Oct-2023	11-Aug-24	23-Oct-23	11-Aug-24	9-Aug-2023	22-Oct-2023	6-Jun-2024	10-Aug-2024	9-Aug-2023	22-Oct-2023	6-Jun-2024	10-Aug-2024	4-Jun-2024	5-Aug-2024	13-Aug-2023	22-Oct-2023	8-Jun-2024	7-Aug-2024	13-Aug-2023	22-Oct-2023	8-Jun-2024	7-Aug-2024
Field pH		---	6.5 to 9	7.46	8.21	7.65	8.15	7.53	7.25	7.47	7.54	6.56	7.28	6.56	**5.52**	6.91	7.39	7.70	7.62	7.78	7.51	**6.45**	7.09	7.02	**6.05**
Field Temperature	Celsius	---	Narrative[21]	11.3	19.37	5.30	17.64	16.6	7.1	14.4	17.7	7.4	7.2	4.4	7	15.6	17.98	17.4	8.3	17.2	16.8	6.3	8.1	4.1	4.7
Lab pH		---	---	7.79	7.65	7.86	7.78	7.18	7.47	7.48	7.25	6.98	7.48	7.43	6.99	7.44	7.32	7.37	---	7.68	7.55	7.20	7.71	7.63	7.35
Bicarb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Alkalinity	mg/L as $CaCO_3$	---	---	40	39	46	47	17	17	17	21	17	17	20	21	16	22	30	---	29	31	29	30	29	30
Acidity	mg/L as $CaCO_3$	---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	---	<5.0	<5.0	<5.0
Conductivity	µS/cm	---	---	87	82	91	92	52	54	49	52	51	54	50	51	48	54	62	---	60	62	62	64	60	61
Salinity		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Turbidity	NTU	---	---	0.00	1.60	0.05	0.77	4.33	1.20	0.25	0.00	2.00	0.00	0.10	0.00	0.82	0.00	0.00	0.32	0.16	0.00	0.00	0.00	0.09	0.00
Calculated TDS	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TDS	mg/L	---	---	---	55	---	55	50	---	35	55	60	---	35	35	20	40	35	---	35	70	45	---	40	55
TSS	mg/L	---	---	<10	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	---	<10	<10	<10	<10	<10	<10
Dissolved Hardness	mg/L as $CaCO_3$	---	---	---	37.3	---	44.3	---	---	---	19.2	---	---	---	19.6	---	19.1	---	---	---	27.5	---	---	---	27.1
Total Hardness	mg/L as $CaCO_3$	---	---	---	37	---	44	19	---	19	19	20	---	19	20	17	19	29	---	29	27	30	---	28	27
DOC	mg/L	---	---	---	3.3	---	2.9	3.5	---	3.5	3.4	3.4	---	3.6	3.2	4.0	3.3	3.2	---	3.6	3.2	3.1	---	3.3	3.1
TOC	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Colour	TCU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ANIONS & NUTRIENTS		Short Term	Long Term																						
Anion Sum	me/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cation Sum	me/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ion Balance (% Difference)	%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 20C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 4C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saturation pH (@ 20C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saturation pH (@ 4C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoride	mg/L as F-	---	---	---	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10
Dissolved Chloride	mg/L as Cl-	640	120	---	<1.0	---	<1.0	2.30	---	2.1	2.2	1.50	---	2.1	1.6	2.5	1.9	<1.0	---	<1.0	<1.0	<1.0	---	<1.0	<1.0
Dissolved Bromide	mg/L as Br-	---	---	---	<1.0	---	<1.0	<1.0	---	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	---	<1.0	<1.0
Dissolved Sulphate	mg/L as SO_4	---	---	---	3.8	---	2.9	3.70	---	2.3	3.1	3.30	---	2.2	2.9	2.2	2.7	3.10	---	2.4	3.6	2.90	---	2.3	3.5
Total Ammonia	mg/L as NH_3	---	2.22, variable, 3.26 ug/L[19]	---	<0.061	---	<0.061	<0.061	---	<0.061	<0.061	<0.061	---	<0.061	<0.061	<0.061	<0.061	<0.061	---	<0.061	<0.061	<0.061	---	<0.061	<0.061
Total Ammonia-N	mg/L as N	---	---	---	<0.050	---	<0.050	<0.050	---	<0.050	<0.050	<0.050	---	<0.050	<0.050	<0.050	<0.050	<0.050	---	<0.050	<0.050	<0.050	---	<0.050	<0.050
Dissolved Nitrate	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.010	---	---	---	0.053	---	---	---
Dissolved Nitrate	mg/L as NO_3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.044	---	---	---	0.24	---	---	---
Dissolved Nitrite	mg/L as NO_2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.033	---	---	---	<0.033	---	---	---
Dissolved Nitrite	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.010	---	---	---	<0.010	---	---	---
Nitrite	mg/L as N	---	0.06	---	<0.010	---	<0.010	<0.010	---	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010	<0.010	---	---	<0.010	<0.010	---	---	<0.010	<0.010
Nitrate	mg/L as N	550	13	---	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	---	---	<0.10	<0.10	---	---	<0.10	<0.10
Total Phosphorus	mg/L	---	Guidance Framework[20]	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	---	<0.020	<0.020	<0.020	<0.020	<0.020	---	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Nitrate + Nitrite	mg/L as N	---	---	---	<0.10	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	---	---	<0.10	<0.10	---	---	<0.10	<0.10
Dissolved Nitrate + Nitrite	mg/L as N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.010	---	---	---	0.053	---	---	---
Total Un-ionized Ammonia	mg/L	---	19	---	<0.0035	---	<0.0027	<0.00063	---	---	<0.0007	<0.00061	---	---	<0.00061	---	<0.00051	<0.00098	---	---	<0.00061	<0.00061	---	---	<0.00061
Orthophosphate	mg/L as P	---	---	---	---	---	---	<0.010	---	---	---	<0.010	---	---	---	---	---	<0.010	---	---	---	<0.010	---	---	---
Reactive Silica	mg/L as SiO_2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

METALS		Short Term	Long Term	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Ag	µg/L	---	0.25	<0.090	<0.090	<0.020	<0.020	<0.090	<0.090	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020
Al	µg/L	---	5, 100[7]	13	<4.9	24.9	3.8	5.9	5.9	3	<3.0	18.0	**170.0**	28.0	13.0	25.9	23.7	12.6	11.8	19.0	9.7	29.0	12.0	24.1	19.1	22.7	13.7	45.20	31.60	21.60	11.90	11.0	8.4	---	---	20.2	17.7	11.7	11.5	**11.9**	8.4	9.8	6.2	19.1	15.7	14.3	12.3
As	µg/L	---	5	<1.0	<1.0	<0.10	<0.10	<1.0	<1.0	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	0.047	0.069	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	0.056	0.064	<0.10	<0.10	0.06	0.06	<0.10	<0.10	<1.0	<1.0	---	---	0.058	0.071	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	0.059	0.071	<0.10	<0.10
Au	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B	µg/L	29000	1500	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50	<10	<10	<50	<50	<10	<10	---	---	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<50	<50
Ba	µg/L	---	---	12	12	9.9	10.8	15	13	11.5	11.9	8.1	8.3	9.4	9.2	8.01	7.74	7.5	8.2	7.7	7.8	9.2	8.7	8.11	7.87	9.9	10.3	8.92	8.23	7.9	8.5	7.7	8.7	---	---	8.48	8.1	7.8	8.3	7.8	8.0	8.0	8.3	8.44	7.81	7.1	7.8
Be	µg/L	---	---	<0.40	<0.40	<0.10	<0.10	<0.40	<0.40	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.010	<0.010	<0.10	<0.10	<0.40	<0.40	---	---	<0.010	<0.010	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10
Bi	µg/L	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	---	---	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0
Ca	µg/L	---	---	9200	9500	7870	8810	11000	10000	8800	9710	5200	5200	5200	5400	4970	5060	4720	5100	5400	5500	5100	5200	5270	5190	4590	5230	4890	4670	4530	5050	7000	6900	---	---	6620	6800	6130	6490	7300	7200	6500	7200	6680	6750	5880	6470
Cd	µg/L	0.11, variable, 7.7[25]	0.04, variable, 0.37[25]	<0.090	<0.090	<0.010	<0.010	<0.090	<0.090	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	---	---	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010
Ce	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Co	µg/L	---	---	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0149	0.0134	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.02	0.0104	<0.20	<0.20	0.0313	0.021	<0.20	<0.20	<0.50	<0.50	---	---	0.0112	0.0069	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0116	0.0067	<0.20	<0.20
Cs	µg/L	---	---	<0.20	<0.20	---	---	<0.20	<0.20	---	---	---	---	<0.20	<0.20	---	---	---	---	---	---	<0.20	<0.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.20	<0.20	---	---	---	---
Cr	µg/L	---	---	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	0.32	0.36	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	0.33	0.34	<1.0	<1.0	0.43	0.34	<1.0	<1.0	<5.0	<5.0	---	---	0.27	0.25	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	0.24	0.25	<1.0	<1.0
Cu	µg/L	---	2, variable, 4, 2[26]	0.98	1.1	1.29	1.62	<0.90	<0.90	<0.50	<0.20	<0.90	1.60	<0.90	<0.90	0.388	1.32	<0.50	1.1	<0.90	<0.90	<0.90	1.30	0.351	1.01	<0.50	1.17	0.45	0.44	<0.50	0.39	<0.90	1.00	---	---	0.177	1.66	<0.50	1.08	<0.90	1.30	<0.90	1.60	0.169	1.46	<0.50	1.39
Dy	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---
Er	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---
Eu	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---
Fe	µg/L	---	300	<100	<100	88	33.1	<100	<100	29	14.2	<100	<100	<100	<100	26.3	22.4	14	12.8	<100	<100	<100	<100	31.3	20.2	57	19.3	64.8	29.6	43	19	<100	<100	---	---	27.3	16.3	11	13.9	<100	<100	<100	<100	29.8	16.8	15	18.1
Gd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Hg	µg/L	---	0.026	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ho	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ir	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
K	µg/L	---	---	960	1000	935	1030	850	820	773	808	990	1000	1000	1100	1020	985	1000	1070	1100	1100	1000	1100	1010	994	976	1060	1010	960	1010	1100	980	1100	950	---	---	982	966	976	1020	1000	1100	950	1100	1020	980	952	1020
La	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Li	µg/L	---	---	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.5	<0.50	<2.0	<2.0	<5.0	<5.0	<5.0	<0.50	<2.0	<2.0	<5.0	<5.0	<0.50	<2.0	<2.0	<5.0	<5.0	---	---	0.53	0.56	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	0.51	0.59	<2.0	<2.0
Lu	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mg	µg/L	---	---	3800	3800	3350	3710	5000	4900	4620	4860	1500	1500	1500	1500	1490	1470	1480	1570	1600	1600	1500	1500	1560	1500	1460	1580	1410	1370	1420	1580	2800	2800	---	---	2840	2790	2600	2730	2800	2800	2700	2900	2860	2760	2520	2660
Mn	µg/L	Equation[23]	Variable[11]	27	14	25.5	11.3	11	3	20.5	9.2	6.2	2.9	22.0	4.7	20.3	17.4	4.8	<1.0	19.0	4.3	23.0	4.8	28	15.5	145	120	21.2	15.5	19.4	6.7	3.4	<2.0	---	---	6.5	1.3	2.4	<1.0	3.1	<2.0	4.0	<2.0	8.18	0.388	2.2	<1.0
Mo	µg/L	---	73	<0.50	<0.50	<1.0	<1.0	0.54	0.58	<1.0	<1.0	0.55	0.58	<0.50	0.56	0.569	0.634	<1.0	<1.0	0.51	0.55	0.53	0.51	0.577	0.613	<1.0	<1.0	0.684	0.552	<1.0	<1.0	0.59	0.66	---	---	0.57	0.627	<1.0	<1.0	0.51	<0.50	0.66	0.68	0.625	0.586	<1.0	<1.0
Na	µg/L	---	---	820	830	771	870	420	430	366	394	1800	1700	2000	2200	1700	1690	1660	1750	1800	1800	2000	2100	1730	1720	1540	1690	1900	1880	1720	1920	710	760	---	---	681	701	662	703	730	760	650	740	695	696	644	667
Nd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ni	µg/L	25, variable, 150, 25[122]		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.305	0.335	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.31	0.392	<1.0	<1.0	0.375	0.325	<1.0	<1.0	<1.0	<1.0	---	---	0.167	0.181	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.174	0.234	<1.0	<1.0
P	µg/L	---	4	<20	<100	---	---	<20	<100	---	---	<20	<100	<20	<100	**4.9**	**4.6**	---	---	<20	<100	<20	<100	**6.5**	**4.2**	---	---	**7.3**	**4.2**	---	---	<20	<100	---	---	**4.6**	2.9	---	---	<20	<100	<20	<100	**4.4**	3.1	---	---
Pb	µg/L	---	1, variable, 7, 1[23]	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.20	<0.20	0.56	<0.50	<0.50	<0.50	0.0111	0.0202	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0097	0.0165	<0.20	<0.20	0.0408	0.0177	<0.20	<0.20	<0.50	<0.50	---	---	0.0057	0.0092	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0085	0.0183	<0.20	<0.20
Pd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pr	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pt	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rb	µg/L	---	---	1.7	1.6	---	---	1.5	1.3	---	---	---	---	1.90	2.00	---	---	---	---	---	---	---	---	2.00	2.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.20	1.40	---	---	---	---
Ru	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S	µg/L	---	---	---	---	<3000	<3000	---	---	<3000	<3000	---	---	---	---	<3000	<3000	<3000	<3000	---	---	---	---	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	---	---	---	---	<3000	<3000	<3000	<3000	---	---	---	---	<3000	<3000	<3000	<3000
Sb	µg/L	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	0.02	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	---	---	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50
Sc	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Se	µg/L	---	1	<2.0	<2.0	<0.040	<0.040	<2.0	<2.0	<0.040	<0.040	<2.0	<2.0	<2.0	<2.0	<0.040	<0.040	<0.040	<0.040	<2.0	<2.0	<2.0	<2.0	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<2.0	<2.0	---	---	<0.040	<0.040	<0.040	<0.040	<2.0	<2.0	<2.0	<2.0	<0.040	<0.040	<0.040	<0.040
Si	µg/L	---	---	1800	1800	1690	1810	1500	1400	1410	1470	1800	1700	2000	2000	2150	2210	1770	1840	2300	2400	2000	2000	2290	2290	2300	2590	2200	2120	1710	1860	1500	1600	---	---	1910	1940	1570	1620	1900	2000	1600	1700	1980	2020	1830	1930
Sm	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sn	µg/L	---	---	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0	<0.20	<0.20	<5.0	<5.0	<1.0	<1.0	---	---	<0.20	<0.20	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0
Sr	µg/L	---	---

Table E-6: 2023 Laboratory Water Quality Results - Long Lake
Kami Iron Ore EIA

PARAMETER	UNIT	CCME Guideline[1-15]		Lake Column at Long Lake																Lake Column at Long Lake									
				LL-02 NS							LL-02 NB							LL-03 NS					LL-03 NB				
GENERAL PARAMETERS		Short Term	Long Term	15-Jun-2023	3-Aug-2023	15-Aug-2023	24-Oct-2023	20-Mar-2024	6-Jun-2024	9-Aug-2024	15-Jun-2023	3-Aug-2023	15-Aug-2023	24-Oct-2023	20-Mar-2024	6-Jun-2024	9-Aug-2024	15-Aug-2023	24-Oct-2023	20-Mar-2024	6-Jun-2024	9-Aug-2024	15-Aug-2023	24-Oct-2023	20-Mar-2024	6-Jun-2024	9-Aug-2024
Field pH		---	6.5 to 9	7.53	---	7.65	7.57	7.84	7.65	7.04	7.41	---	6.60	7.56	7.01	7.33	7.04	7.80	7.67	7.70	7.69	7.76	7.08	7.52	7.10	7.37	**6.06**
Field Temperature	Celsius	---	Narrative[2]	20.6	---	17.0	7.6	0.6	17.5	17.2	13.9	---	8.0	7.6	3.8	4.4	7.4	17.5	7.5	0.3	17.8	17.3	9.1	7.2	2.0	4.6	10.3
Lab pH		---	---	7.59	7.67	7.46	7.76	7.47	7.70	7.68	7.43	---	7.57	7.19	7.75	7.45	7.72	7.37	7.48	7.70	7.44	7.81	7.67	7.27	7.68	7.36	7.78	7.4
Bicarb. Alkalinity	mg/L as $CaCO_3$	---	---	---	35.00	---	---	---	---	---	---	---	34.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carb. Alkalinity	mg/L as $CaCO_3$	---	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Alkalinity	mg/L as $CaCO_3$	---	---	32	35	34	34	37	36	39	32	34	34	34	49	39	39	33	34	38	36	38	33	33	38	36	37
Acidity	mg/L as $CaCO_3$	---	---	<5.0	<5.0	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conductivity	µS/cm	---	---	69	72	73	73	78	74	78	71	71	73	73	103	75	77	69	70	82	74	78	69	70	80	73	75
Salinity		---	---	---	<2.0	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Turbidity	NTU	---	---	0.00	0.40	0.00	0.25	0.24	0.42	0.00	0.00	0.40	0.00	0.00	0.00	0.10	0.00	0.07	0.20	0.18	0.25	0.00	0.00	0.00	0.00	0.12	0.00
Calculated TDS	mg/L	---	---	---	40.00	---	---	---	---	---	---	40.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TDS	mg/L	---	---	95	41	65	65	55	45	45	75	46	55	---	50	20	50	60	---	55	45	50	50	---	46	50	50
TSS	mg/L	---	---	<1	<1.0	<10	<10	<10	<10	<10	18	1.2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dissolved Hardness	mg/L as $CaCO_3$	---	---	31.9	---	---	---	---	---	35.9	33.0	---	---	---	---	---	35.9	---	---	---	---	35.8	---	---	---	---	34.5
Total Hardness	mg/L as $CaCO_3$	---	---	31	35	36	---	38	36	36	34	36	36	---	51	36	36	34	---	39	36	36	33	---	38	36	35
DOC	mg/L	---	---	3.5	3.3	3.2	---	3.5	3.6	3	3.5	3.4	3.2	---	2.8	3.3	3	3.5	---	3.5	3.5	3	3.3	---	3.1	3.3	2.9
TOC	mg/L	---	---	---	4.30	---	---	---	---	---	---	4.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Colour	TCU	---	---	16	10	---	---	---	---	---	13	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ANIONS & NUTRIENTS		Short Term	Long Term																								
Anion Sum	me/L	---	---	---	0.75	---	---	---	---	---	---	0.74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cation Sum	me/L	---	---	---	0.76	---	---	---	---	---	---	0.77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ion Balance (% Difference)	%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 20C)		---	---	---	-1.18	---	---	---	---	---	---	-1.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 4C)		---	---	---	-1.43	---	---	---	---	---	---	-1.53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saturation pH (@ 20C)		---	---	---	8.84	---	---	---	---	---	---	8.85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saturation pH (@ 4C)		---	---	---	9.10	---	---	---	---	---	---	9.10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoride	mg/L as F-	---	---	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10
Dissolved Chloride	mg/L as Cl-	640	120	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0
Dissolved Bromide	mg/L as Br-	---	---	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0
Dissolved Sulphate	mg/L as SO_4	---	---	2.9	2.80	3.20	---	3.1	2.5	3.4	2.5	2.70	3.80	---	3.3	2.4	3.7	3.70	---	3.1	2.3	4.1	3.60	---	3.1	2.7	3.5
Total Ammonia	mg/L as NH_3	---	2.22, variable, 3.26 ug/L[16]	<0.061	---	<0.061	---	<0.061	<0.061	<0.061	<0.061	---	0.098	---	<0.061	<0.061	0.1464	<0.061	---	<0.061	<0.061	<0.061	<0.061	---	<0.061	<0.061	<0.061
Total Ammonia-N	mg/L as N	---	---	<0.050	<0.050	<0.050	---	<0.050	<0.050	<0.050	<0.050	<0.050	0.080	---	<0.050	<0.050	0.12	<0.050	---	<0.050	<0.050	<0.050	<0.050	---	<0.050	<0.050	<0.050
Dissolved Nitrate	mg/L as N	---	---	---	---	<0.010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrate	mg/L as NO_3	---	---	---	---	<0.044	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrite	mg/L as NO_2	---	---	---	---	<0.033	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrite	mg/L as N	---	---	---	---	<0.010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite	mg/L as N	---	0.06	<0.010	<0.010	---	---	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010
Nitrate	mg/L as N	550	13	<0.10	<0.10	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	0.16	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	---	0.11	<0.10	<0.10
Total Phosphorus	mg/L	---	Guidance Framework[4]	0.009	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.025	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Nitrate + Nitrite	mg/L as N	---	---	<0.10	<0.10	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	0.16	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	---	0.11	<0.10	<0.10
Dissolved Nitrate + Nitrite	mg/L as N	---	---	---	---	<0.010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Un-ionized Ammonia	mg/L	---	19	<0.00084	---	<0.00085	---	---	---	<0.00061	<0.00061	---	<0.00061	---	---	---	<0.00061	<0.0012	---	---	---	<0.0011	<0.00061	---	---	---	<0.00061
Orthophosphate	mg/L as P	---	---	<0.010	<0.010	<0.010	---	---	---	---	<0.010	<0.010	<0.010	---	---	---	---	<0.010	---	---	---	---	<0.010	---	---	---	---
Reactive Silica	mg/L as SiO_2	---	---	---	2.50	---	---	---	---	---	---	2.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

METALS		Short Term	Long Term	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Ag	µg/L	---	0.25	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020
Al	µg/L	---	5, 100[17]	22.0	17.9	15.0	9.5	13.0	7.9	13	6.7	9.6	6.4	13.6	12.5	9.7	6.5	**313**	11.2	17.0	9.4	20.0	6.5	17.0	8.2	7.5	<4.9	12.6	8.75	12.6	6.1	16.0	9.1	20.0	8.1	10.0	5.9	12.3	10.2	9.2	6.6	12.0	13.0	18.0	9.1	9.9	4.9	12.5	9.88	10.1	6
As	µg/L	---	5	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.059	0.059	<0.10	<0.10	0.24	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.043	0.058	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	0.049	0.064	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.059	0.06	<0.10	<0.10
Au	µg/L	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	<2.0	---	---	---
B	µg/L	29000	1500	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<50	<50	<10	<10
Ba	µg/L	---	---	9.3	9.1	9.2	9.5	10.0	10.0	10	10	11.00	10.00	10.1	10.1	9.7	9.8	44.5	11.5	9.7	9.7	12.0	12.0	11.0	10.0	12.00	12.00	10.3	10.1	12.7	13.5	9.5	9.4	12.0	10.0	11.00	11.00	10.4	9.98	9.4	10.2	10.0	11.0	9.9	9.8	11.00	12.00	10.3	9.88	11.1	11.8
Be	µg/L	---	---	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.010	<0.010	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10
Bi	µg/L	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0
Ca	µg/L	---	---	7460	7480	8500	8200	8700	8300	7800	8000	8,800	8,800	8160	8230	7640	8380	7940	7630	8400	8300	8500	8400	8800	8300	12,000	12,000	8250	8190	7530	8240	7500	8000	8600	7700	9,400	9,100	8130	8140	7520	8340	8000	7700	7400	7500	8,800	8,900	8260	8130	7210	8050
Cd	µg/L	0.11, variable, 7.7[20]	0.04, variable, 0.37[20]	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	0.03	<0.010	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010
Ce	µg/L	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	<0.30	---	---	---
Co	µg/L	---	---	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0108	0.0093	<0.20	<0.20	0.33	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0104	0.0098	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0084	0.0078	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0105	0.0063	<0.20	<0.20
Cs	µg/L	---	---	---	---	---	---	<0.20	<0.20	<0.20	<0.20	---	---	---	---	---	---	---	---	---	---	---	---	<0.20	<0.20	<0.20	<0.20	---	---	---	---	---	---	<0.20	<0.20	<0.20	<0.20	---	---	---	---	<0.20	<0.20	<0.20	<0.20	---	---	---	---
Cr	µg/L	---	---	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.21	0.19	<1.0	<1.0	1.1	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.18	0.19	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.19	0.22	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.17	0.18	<1.0	<1.0
Cu	µg/L	---	2, variable, 4, 2[20]	<0.50	1.66	<0.90	<0.90	<0.90	1.40	<0.90	1.2	<0.90	1.40	0.251	0.381	<0.50	0.28	1.24	1.13	<0.90	<0.90	<0.90	<0.90	1.00	<0.90	<0.90	<0.90	<0.90	1.03	0.331	0.962	<0.50	1.21	<0.90	1.30	<0.90	1.10	<0.90	<0.90	0.254	0.25	<0.50	1.06	1.60	<0.90	<0.90	1.20	<0.90	<0.90	0.229	0.908	<0.50	1
Dy	µg/L	---	---	---	---	---	---	---	---	---	---	<2.0	--	--	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2.0	--	--	--	---	---	---	---	<2.0	--	--	--	---	---	---	---	<2.0	--	--	--
Er	µg/L	---	---	---	---	---	---	---	---	---	<0.50	--	--	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.50	--	--	--	---	---	---	---	<0.50	--	--	--	---	---	---	---	<0.50	--	--	--
Eu	µg/L	---	---	---	---	---	---	---	---	---	<0.40	--	--	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.40	--	--	--	---	---	---	---	<0.40	--	--	--	---	---	---	---	<0.40	--	--	--
Fe	µg/L	---	300	45	22.2	<100	<100	<100	<100	<100	<100	<100	41.2	25.4	16	7.6	**1480**	26.7	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	42	23.2	31	20.3	<100	<100	<100	<100	<100	39.5	25.2	17	14.1	<100	<100	<100	<100	<100	<100	40	20.5	21	63.800
Gd	µg/L	---	---	---	---	---	---	---	---	---	<0.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.50	---	---	---	---	---	---	---	<0.50	---	---	---	---	---	---	---	<0.50	---	---	---
Hg	µg/L	---	0.026	<0.01	<0.01	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ho	µg/L	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	<0.30	---	---	---
Ir	µg/L	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	<2.0	---	---	---
K	µg/L	---	---	830	812	940	910	880	970	840	880	900	1,000	815	817	881	912	888	824	890	950	890	910	960	880	950	1,100	815	815	852	887	840	910	970	870	980	1,000	824	818	840	886	890	820	850	860	920	1,000	836	823	808	871
La	µg/L	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	<0.30	---	---	---
Li	µg/L	---	---	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0
Lu	µg/L	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---	---	---
Mg	µg/L	---	---	3020	3220	3600	3600	3600	3300	3300	3,600	3,800	3710	3760	3520	3630	3390	3400	3600	3700	3600	3600	3500	3400	4,800	5,200	3710	3730	3480	3720	3200	3400	3400	3200	3,900	4,000	3660	3750	3360	3630	3400	3300	3200	3000	3,700	1,900	3740	3710	3330	3500
Mn	µg/L	Equation[22]	Variable[21]	6.8	<1.0	7.0	<2.0	8.7	<2.0	11	<2.0	<2.0	7.55	3.69	6	1.5	**1110**	47.5	13.0	<2.0	22.0	<2.0	27	<2.0	13.6	0.376	29.8	5.8	7.1	<2.0	12.0	<2.0	<2.0	7.71	3.9	5	<1.0	<2.0	10.0	10.0	<2.0	4.1	<2.0	13	0.296	8.4	<1.0	5.8
Mo	µg/L	---	73	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	0.57	0.63	<0.50	<0.50	0.384	0.446	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	<0.50	0.335	0.4	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.389	0.369	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.351	0.405	<1.0	<1.0
Na	µg/L	---	---	496	476	570	540	600	610	510	520	650	620	463	469	479	502	497	473	540	540	590	520	550	550	580	590	492	475	452	492	550	540	600	550	650	630	457	464	452	505	540	490	560	540	620	610	483	482	439	477
Nd	µg/L	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	<2.0	---	---	---
Ni	µg/L	---	25, variable, 150, 25[12]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.171	0.197	<1.0	<1.0	1.20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.273	0.231	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.219	0.203	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.181	0.165	<1.0	<1.0
P	µg/L	---	4	---	---	<20	<100	<20	<100	<20	<100	<100	<100	**4.6**	3.7	**---**	---	---	---	<20	<100	<20	<100	<20	<100	<100	<100	**5.5**	**4.1**	**---**	**---**	<20	<100	<20	<100	<100	<100	**4.5**	3.4	**---**	---	<20	<100	<20	<100	<100	<100	3.5	2.7	---	---
Pb	µg/L	---	1, variable, 7, 1[13]	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.720	<0.50	0.0105	0.0079	<0.20	<0.20	0.78	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0151	0.0196	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.13**	0.0089	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0075	0.0145	<0.20	<0.20
Pd	µg/L	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---	---	---
Pr	µg/L	---	---	---	---	---	---	---	---	---	<0.40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.40	---	---	---	---	---	---	---	---	---	<0.40	---	---	---	---	---	---	---	<0.40	---	---	---
Pt	µg/L	---	---	---	---	---	---	---	---	---	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<3.0	---	---	---	---	---	---	---	---	---	<3.0	---	---	---	---	---	---	---	<3.0	---	---	---
Rb	µg/L	---	---	---	---	---	---	---	1.6	1.8	1.9	2.1	---	---	---	---	---	---	---	---	---	---	---	1.90	1.80	2.0	2.3	---	---	---	---	---	---	2.00	1.80	1.9	2.1	---	---	---	---	1.70	1.80	1.8	2.0	---	---	---	---
Ru	µg/L	---	---	---	---	---	---	---	---	---	<0.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.20	---	---	---	---	---	---	---	---	---	<0.20	---	---	---	---	---	---	---	<0.20	---	---	---
S	µg/L	---	---	<3000	<3000	---	---	---	---	---	---	---	<3000	<3000	<3000	<3000	<3000	<3000	---	---	---	---	---	---	---	---	---	<3000	<3000	<3000	<3000	<3000	---	---	---	---	---	<3000	<3000

PARAMETER	UNIT	CCME Guideline[1–15]		Lake Column at Mills Lake														Lake Column at Mills Lake											
				MIL-02 NS						MIL-02 NB						MIL-03 NS				MIL-03 NB									
GENERAL PARAMETERS		Short Term	Long Term	14-Jun-2023	31-Jul-2023	13-Aug-2023	22-Oct-2023	9-Jun-2024	4-Aug-2024	14-Jun-2023	3-Aug-2023	13-Aug-2023	21-Oct-2023	9-Jun-2024	4-Aug-2024	14-Aug-2023	21-Oct-2023	9-Jun-2024	3-Aug-2024	14-Aug-2023	21-Oct-2023	9-Jun-2024	3-Aug-2024						
Field pH		---	6.5 to 9	7.55	---	7.73	7.65	7.90	7.75	7.63	---	6.82	7.25	7.40	**5.92**	7.59	7.68	7.82	8.05	6.85	7.30	7.28	6.72						
Field Temperature	Celsius	---	Narrative[2]	20.3	---	17.5	8.8	19.2	20	15.8	---	8.2	8.9	4.7	8.1	17.3	9.1	14.6	19.7	7.5	9.0	4.5	6.7						
Lab pH		---	---	7.61	7.46	7.43	7.69	7.71	7.64	7.60	7.76	7.39	7.74	7.66	7.4	7.45	---	7.63	7.66	7.35	---	7.69	7.43						
Bicarb. Alkalinity	mg/L as $CaCO_3$	---	---	---	35.00	---	---	---	---	---	39.00	---	---	---	---	---	---	---	---	---	---	---	---						
Carb. Alkalinity	mg/L as $CaCO_3$	---	---	---	<1.0	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---						
Total Alkalinity	mg/L as $CaCO_3$	---	---	34	35	35	31	35	37	34	36	36	36	35	37	36	---	35	38	36	---	35	37						
Acidity	mg/L as $CaCO_3$	---	---	<5.0	<5.0	---	<5.0	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	---	---	<5.0	<5.0						
Conductivity	µS/cm	---	---	73	74	73	64	70	73	73	77	73	75	70	73	74	---	71	74	74	---	71	73						
Salinity		---	---	---	<2.0	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---						
Turbidity	NTU	---	---	0.25	0.30	0.21	0.19	0.28	0.00	0.29	0.20	0.04	0.00	0.10	0.00	0.25	0.21	0.18	0.00	0.02	0.00	0.10	0.00						
Calculated TDS	mg/L	---	---	---	42.00	---	---	---	---	---	43.00	---	---	---	---	---	---	---	---	---	---	---	---						
TDS	mg/L	---	---	75	41	50	40	50	60	75	42	60	---	40	55	40	45	45	55	45	40	45	45						
TSS	mg/L	---	---	<1	<1.0	<10	<10	<10	<10	<1	<1.0	<10	<10	<10	<10	<10	---	<10	<10	<10	---	<10	<10						
Dissolved Hardness	mg/L as $CaCO_3$	---	---	34.2	---	---	---	---	33.3	34.0	---	---	---	---	32.7	---	---	---	34.1	---	---	---	33.2						
Total Hardness	mg/L as $CaCO_3$	---	---	33	38	38	---	34	33	32	38	36	---	34	33	37	38	35	34	37	39	35	33						
DOC	mg/L	---	---	3.1	3.2	3.0	---	3.1	2.9	3.2	3.2	2.7	---	2.8	2.7	3.1	3.0	3.5	3	2.9	3.1	3.1	2.9						
TOC	mg/L	---	---	---	4.30	---	---	---	---	---	4.30	---	---	---	---	---	---	---	---	---	---	---	---						
Colour	TCU	---	---	9	7	---	---	---	---	9	7	---	---	---	---	---	---	---	---	---	---	---	---						
ANIONS & NUTRIENTS		Short Term	Long Term																										
Anion Sum	me/L	---	---	---	0.766	---	---	---	---	---	0.83	---	---	---	---	---	---	---	---	---	---	---	---						
Cation Sum	me/L	---	---	---	0.814	---	---	---	---	---	0.78	---	---	---	---	---	---	---	---	---	---	---	---						
Ion Balance (% Difference)	%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---						
Langelier Index (@ 20C)		---	---	---	-1.35	---	---	---	---	---	-1.03	---	---	---	---	---	---	---	---	---	---	---	---						
Langelier Index (@ 4C)		---	---	---	-1.6	---	---	---	---	---	-1.28	---	---	---	---	---	---	---	---	---	---	---	---						
Saturation pH (@ 20C)		---	---	---	8.81	---	---	---	---	---	8.79	---	---	---	---	---	---	---	---	---	---	---	---						
Saturation pH (@ 4C)		---	---	---	9.07	---	---	---	---	---	9.04	---	---	---	---	---	---	---	---	---	---	---	---						
Fluoride	mg/L as F-	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10						
Dissolved Chloride	mg/L as Cl-	640	120	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0						
Dissolved Bromide	mg/L as Br-	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0						
Dissolved Sulphate	mg/L as SO_4	---	---	2.9	2.8	3.10	2.70	1.9	3.2	2.9	2.30	3.00	---	2.0	3.1	3.10	2.80	2.4	3.2	3.00	2.70	2.1	2.7						
Total Ammonia	mg/L as NH_3	---	2.22, variable, 3.26 ug/L[23]	<0.061	---	<0.061	---	0.073	<0.061	<0.061	---	<0.061	---	<0.061	<0.061	<0.061	---	<0.061	<0.061	<0.061	---	<0.061	<0.061						
Total Ammonia-N	mg/L as N	---	---	<0.050	<0.050	<0.050	<0.050	0.06	<0.050	<0.050	<0.050	<0.050	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050						
Dissolved Nitrate	mg/L as N	---	---	---	---	<0.010	---	---	---	---	---	0.02	---	---	---	0.013	---	---	---	0.038	---	---	---						
Dissolved Nitrate	mg/L as NO_3	---	---	---	---	<0.044	---	---	---	---	---	0.087	---	---	---	0.056	---	---	---	0.17	---	---	---						
Dissolved Nitrite	mg/L as NO_2	---	---	---	---	<0.033	---	---	---	---	---	<0.033	---	---	---	<0.033	---	---	---	<0.033	---	---	---						
Dissolved Nitrite	mg/L as N	---	---	---	---	<0.010	---	---	---	---	---	<0.010	---	---	---	<0.010	---	---	---	<0.010	---	---	---						
Nitrite	mg/L as N	---	0.06	<0.010	<0.010	---	<0.010	<0.010	<0.010	<0.010	<0.010	---	---	<0.010	<0.010	---	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010						
Nitrate	mg/L as N	550	13	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10						
Total Phosphorus	mg/L	---	Guidance Framework[4]	<0.004	<0.020	<0.020	<0.020	<0.020	<0.020	<0.004	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	---	<0.020	<0.020	<0.020	---	<0.020	<0.020						
Nitrate + Nitrite	mg/L as N	---	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	<0.10	<0.10	---	---	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10						
Dissolved Nitrate + Nitrite	mg/L as N	---	---	---	---	<0.010	---	---	---	---	---	0.02	---	---	---	0.013	---	---	---	0.038	---	---	---						
Total Un-ionized Ammonia	mg/L	---	19	<0.00086	---	<0.0011	<0.00061	---	<0.0013	<0.00075	---	<0.00061	---	---	<0.00061	<0.00076	<0.0005	---	<0.0025	<0.00061	<0.00061	---	<0.00061						
Orthophosphate	mg/L as P	---	---	<0.010	<0.010	<0.010	---	---	---	<0.010	<0.010	<0.010	---	---	---	<0.010	---	---	---	<0.010	---	---	---						
Reactive Silica	mg/L as SiO_2	---	---	---	3.4	---	---	---	---	---	3.80	---	---	---	---	---	---	---	---	---	---	---	---						
METALS		Short Term	Long Term	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Ag	µg/L	---	0.25	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.090	<0.090	---	---	<0.0050	<0.0050	<0.020	<0.020	<0.0050	<0.0050	<0.020	<0.020
Al	µg/L	---	5, 100[7]	8.3	5.8	9.4	6.6	8.8	5.3	9.4	6.9	10.6	10.8	7.6	8.5	9.3	5.5	7.8	6.0	7.7	<4.9	8.08	7.05	7.6	5.6	8.1	5.5	---	---	12.6	11.5	9	8.1	24.0	<4.9	---	---	13.3	9.28	7.8	6.8
As	µg/L	---	5	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.071	0.059	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.077	0.05	<0.10	<0.10	<1.0	<1.0	---	---	0.057	0.055	<0.10	<0.10	<1.0	<1.0	---	---	0.056	0.069	<0.10	<0.10
Au	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B	µg/L	29000	1500	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	---	---	<10	<10	<50	<50	<10	<10	---	---	<10	<10	<50	<50	<10	<10
Ba	µg/L	---	---	8.9	8.5	9.2	9.9	10.0	9.3	8.0	8.5	8.78	8.46	8.1	9.1	8.6	8.6	9.4	9.0	9.5	9.0	8.8	11.0	9.21	8.52	8.6	9	9.2	9.7	---	---	9.18	9.03	8.5	9.1	9.5	9.2	---	---	9.21	8.89	8.1	9
Be	µg/L	---	---	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.40	<0.40	---	---	<0.010	<0.010	<0.10	<0.10	<0.40	<0.40	---	---	<0.010	0.012	<0.10	<0.10
Bi	µg/L	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	---	---	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	---	---	<0.0050	<0.0050	<1.0	<1.0
Ca	µg/L	---	---	7830	7900	8700	8700	8500	8900	6600	6900	7870	7820	7020	7560	7640	7850	8600	8300	8600	8400	7900	8500	8000	7690	7350	7370	8200	8700	---	---	7970	8090	7090	7780	8700	8500	---	---	8230	7950	6950	7560
Cd	µg/L	0.11, variable, 7.7[8]	0.04, variable, 0.37[8]	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	---	---	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	---	---	<0.0050	<0.0050	<0.010	<0.010
Ce	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Co	µg/L	---	---	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0069	0.0057	<0.20	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.008	0.0062	<0.20	<0.20	<0.50	<0.50	---	---	0.0099	0.0068	<0.20	<0.20	<0.50	<0.50	---	---	0.0099	0.0117	<0.20	<0.20
Cs	µg/L	---	---	---	---	---	---	---	<0.20	<0.20	---	---	---	---	---	---	---	---	---	---	---	<0.20	<0.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cr	µg/L	---	---	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.21	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.32	0.21	<1.0	<1.0	<5.0	<5.0	---	---	0.22	0.21	<1.0	<1.0	<5.0	<5.0	---	---	0.31	0.25	<1.0	<1.0
Cu	µg/L	---	2, variable, 4, 2[9]	<0.50	0.24	<0.90	<0.90	<0.90	1.40	<0.90	0.93	0.196	1.4	<0.50	1	<0.50	1.03	<0.90	<0.90	<0.90	2.00	<0.90	1.20	0.181	1.38	<0.50	1.19	<0.90	1.40	---	---	0.22	0.282	<0.50	1	<0.90	1.10	---	---	0.302	1.04	<0.50	1.05
Dy	µg/L	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---
Er	µg/L	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---
Eu	µg/L	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	--	--	---	---
Fe	µg/L	---	300	14	5.9	<100	<100	<100	<100	<100	16.2	13.7	<10	12.1	12	8.6	<100	<100	<100	<100	<100	<100	16.1	16.9	<10	9.9	<100	<100	---	---	19	13.3	<10	12.3	<100	<100	---	---	20.9	24.7	10	13.3
Gd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Hg	µg/L	0.026		<0.01	<0.01	<0.01	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	---	<0.10	<0.10	<0.10	<0.10
Ho	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ir	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
K	µg/L	---	---	895	854	930	1000	860	980	980	1000	876	823	822	887	880	855	920	980	870	930	840	910	885	840	876	893	790	960	---	---	860	846	841	922	820	920	---	---	850	825	806	859
La	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Li	µg/L	---	---	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<5.0	<5.0	---	---	<0.50	<0.50	<2.0	<2.0	<5.0	<5.0	---	---	<0.50	<0.50	<2.0	<2.0
Lu	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mg	µg/L	---	---	3240	3530	3800	4000	3600	3700	2700	2700	3450	3460	3230	3500	3220	3510	3800	3900	3600	3600	3500	3700	3560	3480	3370	3460	3400	3700	---	---	3650	3680	3240	3550	3500	3700	---	---	3680	3660	3190	3480
Mn	µg/L	Equation[10]	Variable[11]	4.3	1.1	3.6	<2.0	5.1	<2.0	3.2	<2.0	4.97	2.18	2.6	<1.0	5.4	<1.0	3.0	<2.0	4.5	<2.0	4.6	<2.0	11.1	0.568	3.5	1	4.3	<2.0	---	---	4.95	1.46	2.3	<1.0	4.7	<2.0	---	---	9.93	0.927	3.3	<1.0
Mo	µg/L	73		<1.0	<1.0	0.66	0.66	0.62	0.75	0.62	0.66	0.61	0.567	<1.0	<1.0	<1.0	<1.0	0.58	0.62	0.51	0.55	0.69	0.77	0.648	0.665	<1.0	<1.0	0.59	0.71	---	---	0.566	0.575	<1.0	<1.0	0.54	0.52	---	---	0.59	0.589	<1.0	<1.0
Na	µg/L	---	---	568	534	590	630	550	660	670	690	550	526	508	552	538	543	590	630	580	590	520	590	541	535	537	554	530	640	---	---	548	536	509	555	550	610	---	---	567	534	519	543
Nd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ni	µg/L	---	25, variable, 150, 25[12]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.171	0.195	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.169	0.179	<1.0	<1.0	<1.0	<1.0	---	---	0.142	0.141	<1.0	<1.0	<1.0	<1.0	---	---	0.71	0.198	<1.0	<1.0
P	µg/L	---	4	---	---	<20	<100	<20	<100	<20	<100	**6.7**	3.6	**---**	**---**	**---**	**---**	<20	<100	<20	<100	<20	<100	**4.4**	3.6	**---**	**---**	<20	<100	**---**	**---**	**4.1**	3.8	**---**	**---**	<20	<100	**---**	**---**	**4.6**	**4.2**	**---**	**---**
Pb	µg/L	---	1, variable, 7, 1[13]	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0066	0.0434	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.0064	0.0201	<0.20	<0.20	<0.50	<0.50	---	---	0.0078	<0.0050	2.3	<0.20	<0.50	<0.50	---	---	0.0127	0.0212	<0.20	<0.20
Pd	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pr	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pt	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rb	µg/L	---	---	---	---	---	---	---	---	1.30	1.30	---	---	---	---	---	---	---	---	---	---	1.70	1.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ru	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S	µg/L	---	---	<3000	<3000	<3000	---	---	---	---	---	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	---	---	---	---	<3000	<3000	<3000	<3000	<3000	---	---	---	<3000	<3000	<3000	<3000	<3000	<3000	---	---	<3000	<3000	<3000	<3000
Sb	µg/L	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	---	---	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	---	---	<0.020	<0.020	<0.50	<0.50
Sc	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Se	µg/L	---	1	<0.10	<0.10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.040	<0.040	<0.040	<0.040	<0.10	<0.10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.040	<0.040	<0.040	<0.040	<2.0	<2.0	---	---	<0.040	<0.040	<0.040	<0.040	<2.0	<2.0	---	---	<0.040	<0.040	<0.040	<0.040
Si	µg/L	---	---	1850	1850	1800	1700	1700	1900	1600	1700	1810	1850	1590	1710	1800	1880	1900	1800	1900	2000	1700	1800	1890	1880	1920	1950	1600	1800	---	---	1900	1940	1620	1720	1900	2000	---	---	1980	1950	1780	1950
Sm	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sn	µg/L	---	---	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0	<1.0	<1.0	---	---	<0.20	<0.20	<5.0	<5.0	<1.0	<1.0	---	---	<0.20	<0.20	<5.0	<5.0
Sr	µg/L	---	---	11.4	11.4	12	12	12.0	12.0	13.0	13.0	11.7	11.3	10.3	11.1	11.2	11.3	13.0	12.0	12.0	12.0	12.0	12.0	11.6	11.4	10.9	10.9	12.0	12.0	---	---	11.6	11.5	10.2	11.2	12.0	12.0	---	---	11.4	11.5	10.4	10.9
Tb	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Te	µg/L	---	---	---	---	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	---	---	---	---	---	---	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	---	---	---	---	<2.0	<2.0	---	---	---	---	---	---	<2.0	<2.0	---	---	---	---	---	---
Th	µg/L	---	---	<1.0	<1.0	---	---	<1.0	<1.0	<1.0	<1.0	---	---	---	---	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0	---	---	<1.0	<1.0	---	---	---	---	---	---	<1.0	<1.0	---	---	---	---	---	---
Tm	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ti	µg/L	---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	---	---	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	---	---	<0.50	<0.50	<5.0	<5.0
Tl	µg/L	---	0.8	<0.010	<0.010	<0.050

Table E-8: 2023 Laboratory Water Quality Results - Pike Lake and Riordan Lake
Kami Iron Ore EIA

PARAMETER	UNIT	CCME Guideline[1–15]	Lake column at Pike Lake												Lake Column at Riordan Lake							
			PL-02 NS						PL-02 NB						RL-02 NS				RL-02 NB			
GENERAL PARAMETERS		**Short Term**	**Long Term**	12-Jun-2023	12-Aug-2023	19-Oct-2023	22-Mar-2024	10-Jun-2024	8-Aug-2024	12-Jun-2023	12-Aug-2023	19-Oct-2023	22-Mar-2024	10-Jun-2024	8-Aug-2024	16-Aug-2023	23-Oct-2023	7-Jun-2024	5-Aug-2024	16-Aug-2023	23-Oct-2023	7-Jun-2024	5-Aug-2024
Field pH		---	6.5 to 9	7.95	7.64	7.44	7.23	7.46	7.5	7.97	7.13	7.41	6.92	6.75	**6.15**	7.96	7.54	7.91	7.98	6.98	7.75	7.29	**6.17**
Field Temperature	Celsius	---	Narrative[2]	25.1	17.4	7.3	-0.1	20.5	16.7	18.6	9.2	7.3	3.1	6.0	9.3	16.6	7.4	17.3	18.8	9.1	7.1	5.5	9.4
Lab pH		---	---	7.54	7.40	---	7.25	7.58	7.57	7.53	7.29	---	7.32	7.47	7.29	7.61	7.86	7.85	7.81	7.38	7.87	7.80	7.35
Bicarb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Carb. Alkalinity	mg/L as $CaCO_3$	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Alkalinity	mg/L as $CaCO_3$	---	---	32	38	---	51	26	36	32	41	---	62	27	36	45	45	41	51	43	40	42	44
Acidity	mg/L as $CaCO_3$	---	---	<5.0	---	---	7.4	<5.0	<5.0	<5.0	<5.0	---	8.2	<5.0	<5.0	---	<5.0	<5.0	<5.0	---	<5.0	<5.0	<5.0
Conductivity	µS/cm	---	---	71	79	---	112	56	73	72	85	---	132	56	72	88	88	83	85	86	88	83	86
Salinity		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Turbidity	NTU	---	---	0.29	0.02	0.10	0.12	0.50	0.00	0.00	0.00	0.00	0.00	3.82	0.00	0.72	0.10	0.12	0.00	0.32	0.00	0.23	0.00
Calculated TDS	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TDS	mg/L	---	---	95	50	20	105	20	75	75	60	20	60	50	80	40	---	40	55	65	---	55	45
TSS	mg/L	---	---	1	<10	---	<10	<10	<10	1	<10	---	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dissolved Hardness	mg/L as $CaCO_3$	---	---	32.5	---	---	---	---	32.3	32.6	---	---	---	---	31.7	---	---	---	40.3	---	---	---	40
Total Hardness	mg/L as $CaCO_3$	---	---	32	38	41	53	26	32	33	39	39	62	26	32	45	---	42	40	44	---	42	40
DOC	mg/L	---	---	4.9	4.4	4.8	3.4	6.2	4.9	3.9	4.3	4.8	2.8	5.8	5	3.1	---	2.9	2.7	2.8	---	2.8	2.5
TOC	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Colour	TCU	---	---	16	---	---	---	---	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---
ANIONS & NUTRIENTS		**Short Term**	**Long Term**																				
Anion Sum	me/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cation Sum	me/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ion Balance (% Difference)	%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 20C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Langelier Index (@ 4C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saturation pH (@ 20C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saturation pH (@ 4C)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluoride	mg/L as F-	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10
Dissolved Chloride	mg/L as Cl-	640	120	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	---	<1.0	<1.0
Dissolved Bromide	mg/L as Br-	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<1.0	---	<1.0	<1.0
Dissolved Sulphate	mg/L as SO_4	---	---	3.00	3.8	4.00	4.3	2.8	3.7	3.80	4.40	3.50	4.8	2.6	2.9	3.40	---	1.9	2.9	3.80	---	1.8	3
Total Ammonia	mg/L as NH_3	---	2.22, variable, 3.26 ug/L[23]	<0.061	<0.061	---	<0.061	<0.061	<0.061	<0.061	0.15	---	<0.061	<0.061	0.1086	<0.061	---	<0.061	<0.061	<0.061	---	<0.061	<0.061
Total Ammonia-N	mg/L as N	---	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.12	<0.050	<0.050	<0.050	0.089	<0.050	---	<0.050	<0.050	<0.050	---	<0.050	<0.050
Dissolved Nitrate	mg/L as N	---	---	---	<0.050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrate	mg/L as NO_3	---	---	---	<0.044	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrite	mg/L as NO_2	---	---	---	<0.033	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Nitrite	mg/L as N	---	---	---	<0.010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nitrite	mg/L as N	---	0.06	<0.010	---	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010	---	<0.010	<0.010
Nitrate	mg/L as N	550	13	<0.10	---	<0.10	0.18	<0.10	<0.10	<0.10	<0.10	<0.10	0.20	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10
Total Phosphorus	mg/L	---	Guidance Framework[4]	<0.004	0.032	---	<0.020	<0.020	<0.020	0.004	<0.020	---	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Nitrate + Nitrite	mg/L as N	---	---	<0.10	---	<0.10	0.18	<0.10	<0.10	<0.10	<0.10	<0.10	0.20	<0.10	<0.10	<0.10	---	<0.10	<0.10	<0.10	---	<0.10	<0.10
Dissolved Nitrate + Nitrite	mg/L as N	---	---	---	<0.050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total Un-ionized Ammonia	mg/L	---	19	<0.003	<0.00086	<0.00061	---	---	<0.00059	<0.002	<0.00061	<0.00061	---	---	<0.00061	<0.0017	---	---	<0.002	<0.00061	---	---	<0.00061
Orthophosphate	mg/L as P	---	---	<0.010	<0.010	---	---	---	---	<0.010	<0.010	---	---	---	---	<0.010	---	---	---	<0.010	---	---	---
Reactive Silica	mg/L as SiO_2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

METALS		**Short Term**	**Long Term**	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Ag	µg/L	---	0.25	<0.020	<0.020	<0.090	<0.090	---	---	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.020	<0.020	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.020	<0.020
Al	µg/L	---	5, 100[7]	11.4	8.2	12.0	6.2	---	---	8.5	<4.9	34	26.7	10.1	5.8	13.4	11.0	11.0	5.5	---	---	20.0	<4.9	38.3	30.9	9	5.6	29	<4.9	<4.9	<4.9	11.5	2.26	<3.0	<3.0	<4.9	<4.9	<4.9	<4.9	3.9	2.38	<3.0	<3.0
As	µg/L	---	5	<0.10	<0.10	<1.0	<1.0	---	---	<1.0	<1.0	0.079	0.06	<0.10	<0.10	<0.10	<0.10	<1.0	<1.0	---	---	<1.0	<1.0	0.069	0.054	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	0.058	0.065	<0.10	<0.10	<1.0	<1.0	<1.0	<1.0	0.051	0.063	<0.10	<0.10
Au	µg/L	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B	µg/L	29000	1500	<50	<50	<10	<10	---	---	<10	<10	<10	<10	<50	<50	<50	<50	<10	<10	---	---	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<50	<50
Ba	µg/L	---	---	11.8	11.6	13.0	13.0	---	---	18.00	19.00	11.2	10.3	9.4	9.4	12.8	12.0	23.0	24.0	---	---	23.00	22.00	16.2	15	16.8	14.2	13	12	13.0	13.0	13.3	13.1	12.2	12.5	16.0	17.0	13.0	13.0	13.9	13.8	18.8	19.2
Be	µg/L	---	---	<0.10	<0.10	<0.40	<0.40	---	---	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.10	<0.10	<0.40	<0.40	---	---	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10	<0.40	<0.40	<0.40	<0.40	<0.010	<0.010	<0.10	<0.10
Bi	µg/L	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	<0.0050	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.0126	<0.0050	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.0050	<0.0050	<1.0	<1.0
Ca	µg/L	---	---	8060	8220	9900	9500	---	---	14,000	14,000	6800	6640	7540	8010	8530	8200	9800	10000	---	---	17,000	16,000	6780	6640	7690	8040	9700	10000	9500	9400	9210	9130	8190	8700	9200	9800	8900	9300	9250	9060	8110	8640
Cd	µg/L	0.11, variable, 7.7[20]	0.04, variable, 0.37[20]	<0.010	<0.010	<0.090	<0.090	---	---	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.090	<0.090	---	---	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010	<0.090	<0.090	<0.090	<0.090	<0.0050	<0.0050	<0.010	<0.010
Ce	µg/L	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Co	µg/L	---	---	<0.20	<0.20	<0.20	<0.50	---	---	<0.50	<0.50	0.0174	0.0115	<0.20	<0.20	<0.20	<0.20	<0.50	<0.50	---	---	<0.50	<0.50	0.0342	0.0594	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.006	0.007	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	0.0061	<0.0050	<0.20	<0.20
Cs	µg/L	---	---	---	---	---	---	---	---	<0.20	<0.20	---	---	---	---	---	---	---	---	---	---	<0.20	<0.20	---	---	---	---	---	---	<0.20	<0.20	---	---	---	---	---	---	<0.20	<0.20	---	---	---	---
Cr	µg/L	---	---	<1.0	<1.0	<5.0	<5.0	---	---	<5.0	<5.0	0.3	0.26	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	---	---	<5.0	<5.0	0.32	1.28	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.11	0.14	<1.0	<1.0
Cu	µg/L	---	2, variable, 4, 2[9]	<0.50	0.98	<0.90	1.50	---	---	<0.90	<0.90	0.327	1.56	<0.50	0.26	<0.50	0.61	<0.90	**2.20**	---	---	<0.90	<0.90	0.253	2.57	<0.50	0.23	<0.90	1	<0.90	1.40	0.167	1.1	<0.50	<0.20	1.20	<0.90	<0.90	1.30	0.44	1.2	<0.50	0.22
Dy	µg/L	---	---	---	---	---	---	---	---	---	<2.0	--	--	---	---	---	---	---	---	---	---	---	<2.0	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	--	--	---	---
Er	µg/L	---	---	---	---	---	---	---	---	---	<0.50	--	--	---	---	---	---	---	---	---	---	---	<0.50	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	--	--	---	---
Eu	µg/L	---	---	---	---	---	---	---	---	---	<0.40	--	--	---	---	---	---	---	---	---	---	---	<0.40	--	--	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	--	--	---	---
Fe	µg/L	---	300	45	21.9	<100	<100	---	---	<100	<100	67.4	45.4	46	14.5	71	25.3	<100	<100	---	---	120	<100	244	139	163	69.5	130	<100	<100	<100	11	22.1	<10	<5.0	<100	<100	<100	<100	15.9	7.2	21	7.9
Gd	µg/L	---	---	---	---	---	---	---	---	---	<0.50	---	---	---	---	---	---	---	---	---	---	---	<0.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Hg	µg/L	---	0.026	<0.01	<0.01	<0.10	<0.10	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	<0.10	<0.10	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ho	µg/L	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ir	µg/L	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
K	µg/L	---	---	1320	1260	1400	1500	---	---	1,700	1,800	1140	1060	1290	1360	1350	1280	1400	1500	---	---	2,100	2,200	1100	1040	1300	1320	780	800	770	790	751	742	764	782	750	800	720	780	740	754	702	787
La	µg/L	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Li	µg/L	---	---	<2.0	<2.0	<5.0	<5.0	---	---	<5.0	<5.0	0.52	<0.50	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	---	---	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<2.0	<2.0
Lu	µg/L	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mg	µg/L	---	---	2750	2890	3300	3400	---	---	4,500	4,600	2330	2270	2860	2990	2840	2930	3200	3300	---	---	5,500	5,400	2370	2270	2790	2820	4800	4900	4600	4600	4510	4560	4290	4510	4500	4700	4400	4600	4420	4600	4180	4460
Mn	µg/L	Equation[10]	Variable[11]	10.6	1.0	52.0	4.6	---	---	7.9	3.6	23.7	1.75	39.1	2	28.6	4.1	**1400**	**1300**	---	---	230	160	310	241	**1050**	**854**	39	5.7	16.0	<2.0	23	15.9	9.6	1	150.0	200.0	15.0	<2.0	30.9	0.382	91.9	66.9
Mo	µg/L	73		<1.0	<1.0	1.10	1.00	---	---	0.56	0.53	0.428	0.54	<1.0	<1.0	<1.0	<1.0	1.30	1.40	---	---	0.68	0.56	0.42	0.531	1	1.1	0.61	0.65	0.54	0.61	0.533	0.518	<1.0	<1.0	0.54	0.63	0.56	0.564	0.436	0.488	<1.0	<1.0
Na	µg/L	---	---	828	790	870	980	---	---	1,200	1,100	631	589	743	793	809	804	840	890	382	---	1,400	1,300	615	590	687	700	400	430	410	400	441	382	356	376	410	480	380	400	406	398	368	391
Nd	µg/L	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ni	µg/L	---	25, variable, 150, 25[12]	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	0.306	0.315	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	<1.0	<1.0	0.322	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.113	0.182	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.224	0.145	<1.0	<1.0
P	µg/L	---	4	---	---	**32.0**	<100	---	---	<100	<100	**8.8**	3.6	**---**	---	---	---	<20	<100	---	---	<100	<100	**15.7**	**7**	**---**	**---**	<20	<100	<20	<100	3.8	3.1	**---**	**---**	<20	<100	<20	<100	**5.8**	3.5	**---**	**---**
Pb	µg/L	---	1, variable, 7, 1[13]	<0.20	<0.20	<0.50	<0.50	---	---	<0.50	<0.50	0.0126	0.0198	<0.20	<0.20	<0.20	<0.20	**3.90**	<0.50	---	---	<0.50	<0.50	0.0185	0.0286	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0098	0.0149	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	0.0245	0.0235	<0.20	<0.20
Pd	µg/L	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pr	µg/L	---	---	---	---	---	---	---	---	---	<0.40	---	---	---	---	---	---	---	---	---	---	---	<0.40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pt	µg/L	---	---	---	---	---	---	---	---	---	<3.0	---	---	---	---	---	---	---	---	---	---	---	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rb	µg/L	---	---	---	---	---	---	---	---	2.0	2.0	---	---	---	---	---	---	---	---	---	---	2.1	2.2	---	---	---	---	---	---	1.30	1.30	---	---	---	---	---	---	1.30	1.50	---	---	---	---
Ru	µg/L	---	---	---	---	---	---	---	---	---	<0.20	---	---	---	---	---	---	---	---	---	---	---	<0.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S	µg/L	---	---	<3000	<3000	<3000	---	---	---	---	---	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	---	---	---	---	<3000	<3000	<3000	<3000	<3000	---	---	---	<3000	<3000	<3000	<3000	---	---	---	---	<3000	<3000	<3000	<3000
Sb	µg/L	---	---	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	<0.020	<0.50	<0.50
Sc	µg/L	---	---	---	---	---	---	---	---	---	<3.0	---	---	---	---	---	---	---	---	---	---	---	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Se	µg/L	---	1	<0.10	<0.10	<2.0	<2.0	---	---	<2.0	<2.0	0.042	<0.040	<0.040	<0.040	<0.10	<0.10	<2.0	<2.0	---	---	<2.0	<2.0	<0.040	<0.040	<0.040	<0.040	<2.0	<2.0	<2.0	<2.0	<0.040	<0.040	<0.040	<0.040	<2.0	<2.0	<2.0	<2.0	<0.040	<0.040	<0.040	<0.040
Si	µg/L	---	---	1910	2010	2000	2000	---	---	3,400	3,600	2010	1990	1860	1930	2070	2070	2500	2700	---	---	4,200	4,100	2470	2510	2670	2720	1400	1500	1400	1400	1510	1470	1260	1310	1500	1600	1300	1400	1520	1530	1510	1610
Sm	µg/L	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sn	µg/L	---	---	<5.0	<5.0	<1.0	<1.0	---	---	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	---	---	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<5.0	<5.0
Sr	µg/L	---	---	15.5	15.6	20.0	20.0	---	---	25	25	13.6	13.3	16	16.5	15.9	16.0	20.0	20.0	---	---	28	29	13.1	13	15.9	16.4	11	11	11.0	11.0	10.2	10.2	9.5	9.8	11.0	11.0	11.0	11.0	9.96	10.2	9.5	10.1
Tb	µg/L	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Te	µg/L	---	---	---	---	<2.0	<2.0	---	---	<1.0	<1.0	---	---	---	---	---	---	<2.0	<2.0	---	---	<1.0	<1.0	---	---	---	---	<1.0	<1.0	<2.0	<2.0	---	---	---	---	<2.0	<2.0	<2.0	<2.0	---	---	---	---
Th	µg/L	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<2.0	<2.0	---	---	---	---	<1.0	<1.0	<1.0	<1.0	---	---	<2.0	<2.0	---	---	---	---	<2.0	<2.0	<1.0	<1.0	---	---	---	---	<1.0	<1.0	<1.0	<1.0	---	---	---	---
Tm	µg/L	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ti	µg/L	---	---	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	<0.50	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	<5.0	0.57	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.62	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.50	<0.50	<5.0	<5.0
Tl	µg/L	---	0.8	<0.010	<0.010	<0.050	<0.050	---	---

Water Quality Notes for Tables E-2 through E-8

(1) CCME [Canadian Council of Ministers of the Environment. Water Quality Guidelines for the Protection of Aquatic Life.

(2) For more information, see CCREM 1987.

(3) For more information, see CCREM 1987.

(4) For more information, see CCREM 1987.

(5) The CCME for long term Ammonia values depends on temperature and pH using a table found at https://ccme.ca/en/chemical/5#_aql_fresh_concentration

(6) Ultra-oligotrophic < 4 µg/L; oligotrophic 4-10 µg/L; mesotrophic 10-20 µg/L; meso-eutrophic 20-35 µg/L; eutrophic 35-100 µg/L; hyper-eutrophic > 100 µg/L

(7) 5 µg/L if pH<6.5; 100 µg/L if pH≥6.5

(8) CCME for Cd depends on hardness as follows: hardness 0−53 mg/L as CaCO3, CWQG= 0.11 µg/L; hardness ≥ 5.3 to ≤ 360 mg/L as CaCO3, CWQG= 10{1.016(log[hardness])-1.71} µg/L; hardness >360 mg/L, CWQG= 7.7 µg/L for short term concentration. Hardness >0 to 17 mg/L as CaCO3, CWQG= 0.04 µg/L; hardness ≥ 17 to ≤ 280 mg/L as CaCO3, CWQG= 10{0.83(log[hardness])-2.46} µg/L; hardness > 280 mg/L, CWQG= 0.3 µg/L for long term concentration.

(9) CCME for Cu depends on hardness as follows: hardness 0 to <82 mg/L as CaCO3, CWQG= 2 µg/L; hardness ≥82 to ≤180 mg/L as CaCO3, CWQG= 0.2*e{0.8545[ln(hardness)]-1.465} µg/L; hardness is unknown, CWQG= 2 µg/L for long term concentration.

(10) CCME for Mn depends on hardness as follows: CCME=exp(0.878[ln(hardness)]+4.76) µg/L

(11) The CWQG for manganese (i.e. long-term guideline) is found using the CWQG calculator in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life: Manganese.

(12) CCME for Ni depends on hardness as follows: hardness 0 to ≤ 60 mg/L as CaCO3, CWQG= 25 µg/L; hardness > 60 to ≤ 180 mg/L as CaCO3, CWQG = e{0.76[ln(hardness)]+1.06} µg/L; hardness > 180, CWQG= 150 µg/L ; hardness is unknown, CWQG= 25 µg/L

(13) CCME for Pb depends on hardness as follows: hardness 0 to ≤ 60 mg/L as CaCO3, CWQG= 1 µg/L; hardness > 60 to ≤ 180 mg/L as CaCO3, CWQG = e{1.273[ln(hardness)]-4.705} µg/L; hardness > 180, CWQG= 7 µg/L ; hardness is unknown, CWQG= 1 µg/L

(14) CCME for Zn is calculated using the following equation: CWQG= exp(0.833[ln(hardness mg·L-1)] + 0.240[ln(DOC mg·L-1)] + 0.526) µg/L

(15) CCME for Zn is calculated using the following equation: CWQG=exp(0.947[ln(hardness mg·L-1)] - 0.815[pH] + 0.398[ln(DOC mg·L-1)] + 4.625) µg/L

Table E-9: 2023-2024 Laboratory Water Quality Results - Additional Parameters
Kami Iron Ore EIA

PARAMETER	UNIT	CCME Guideline[1]		Unnamed stream immediately downstream of Long Lake	Unnamed stream reporting to Mills Lake from the west	Unnamed stream immediately downstream of Long Lake	Flows at Walsh River	Lake Column at Long Lake	
				WC-02	WC-03	WC-09	WC-10	LL-02 NS	LL-02 NB
RADIONUCLIDES		**Short Term**	**Long Term**	11-Aug-2023	14-Aug-2023	15-Aug-2023	16-Aug-2023	15-Aug-2023	15-Aug-2023
Polonium-210	Bq/L	---	---	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead-210	Bq/L	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Radium-226	Bq/L	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thorium-230	Bq/L	---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
POLYAROMATIC HYDROCARBONS		**Short Term**	**Long Term**						
Benzo(a)pyrene Total Potency Equiv.	µg/L	---	---	0.012	<0.010	<0.010	<0.010	<0.010	<0.010
Acenaphthene	µg/L	---	5.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	µg/L	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Acridine	µg/L	---	4.4	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Anthracene	µg/L	---	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzo(a)anthracene	µg/L	---	0.018	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085
Benzo(b/j)fluoranthene	µg/L	---	---	0.016	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085
Benzo(k)fluoranthene	µg/L	---	---	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085
Benzo(g,h,i)perylene	µg/L	---	---	0.17	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085
Benzo(c)phenanthrene	µg/L	---	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	µg/L	---	0.015	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Benzo(e)pyrene	µg/L	---	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	µg/L	---	---	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085
Dibenzo(a,h)anthracene	µg/L	---	---	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Fluoranthene	µg/L	---	0.04	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluorene	µg/L	---	3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	µg/L	---	---	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085
1-Methylnaphthalene	µg/L	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	µg/L	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Naphthalene	µg/L	---	1.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	µg/L	---	0.4	0.078	<0.050	<0.050	<0.050	<0.050	<0.050
Perylene	µg/L	---	---	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	µg/L	---	0.025	0.022	<0.020	<0.020	<0.020	<0.020	<0.020
Quinoline	µg/L	---	3.4	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
SURROGATE RECOVERY		**Short Term**	**Long Term**						
D10-Anthracene	%	---	---	103	104	102	102	99	102
D14-Terphenyl	%	---	---	107	99	93	100	92	97
D8-Acenaphthylene	%	---	---	105	101	98	105	95	101

Notes:

0.1 – Shaded cell denotes a value that is greater than the Canadian Council of Ministers of the Environment (CCME) short term concentration; bold cell denotes a value that is greater than the CCME long term concentration

(1) CCME [Canadian Council of Ministers of the Environment. Water Quality Guidelines for the Protection of Aquatic Life Freshwater, Marine

< = less than

Table E-10: 2023 Sediment Quality Results - WC-01, WC-02, WC-03, WC-04, and WC-05
Kami Iron Ore EIA

PARAMETER	UNIT	CCME Guideline[1]		Unnamed stream reporting to Pike Lake from the southwest			Unnamed stream inmediatly downstream of Pike Lake Outlet			Unnamed stream reporting to Mills Lake from the west			Unnamed stream reporting to Long Lake from the south			Flows at Waldorf River		
				WC-01			WC-02			WC-03			WC-04			WC-05		
PHYSICAL PARAMETERS		**ISQG**	**PEL**	12-Jun-2023	12-Aug-23	19-Oct-23	12-Jun-23	11-Aug-23	18-Oct-23	13-Jun-23	14-Aug-23	20-Oct-23	13-Jun-23	14-Aug-23	21-Oct-23	10-Jun-23	10-Aug-23	13-Oct-23
Clay	%	---	---	3.1	7.4	---	<2.0	3.3	---	<2.0	3.3	---	<2.0	3.2	---	2.4	7.4	---
Sand	%	---	---	93	88	---	97	95	---	97	95	---	97	94	---	73	50	---
Silt	%	---	---	3.9	5	---	<2.0	<2.0	---	2	<2.0	---	<2.0	3.1	---	25	42	---
Texture		---	---	Sand	Loamy sand	---	Sand	Sand	---	Sand	Sand	---	Sand	Sand	---	Loamy sand	Loam	---
Moisture	%	---	---	27	32	54	23	26	23	17	19	32	11	19	25	64	64	71
ANIONS & NUTRIENTS																		
Nitrogen (N)	%	---	---	0.068	0.055	0.22	0.028	0.031	0.013	0.17	0.022	0.036	0.024	0.023	0.018	0.027	0.38	0.5
TOC	mg/kg	---	---	19000	11000	34000	4100	5700	5300	7000	3500	7800	13000	8900	8900	37000	44000	80000
Calculated Total Kjeldahl Nitrogen	µg/g	---	---	680	551	2180	283	306	127	1730	217	362	237	231	183	272	3830	5020
Nitrite (N)	µg/g	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrate (N)	µg/g	---	---	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Nitrite + Nitrate (N)	µg/g	---	---	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
METALS																		
Ag	µg/g	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Al	µg/g	---	---	4100	3100	4100	2400	3700	4000	4400	3000	3600	6900	5900	13000	6700	7900	7200
As	µg/g	5.9	17	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
B	µg/g	---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ba	µg/g	---	---	1100	320	210	97	25	82	79	36	37	250	92	110	58	69	82
Be	µg/g	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.26	<0.20	0.21	<0.20
Bi	µg/g	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ca	µg/g	---	---	4000	2500	3200	1400	1700	1900	2000	1700	2300	3700	2100	3800	7200	9300	5900
Cd	µg/g	0.6	3.5	0.15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.22	<0.10	<0.10	0.15	0.18	0.18
Co	µg/g	---	---	7.6	3.8	5.3	2.1	2.3	2.8	4.8	2.8	2.7	6.3	4	9.2	6.6	6.8	7.9
Cr	µg/g	37	90	19	13	18	8.8	15	17	24	19	21	32	25	53	39	43	42
Cu	µg/g	35.7	197	5.2	3.6	5.5	1.4	1.6	1.8	2.9	2.1	2.7	13	5.9	15	10	11	11
Fe	µg/g	---	---	32000	17000	20000	6400	10000	9400	13000	11000	13000	29000	25000	35000	35000	36000	40000
Hg	µg/g	0.17	0.486	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
K	µg/g	---	---	630	420	450	380	620	760	810	560	540	3700	3400	3200	890	920	890
Mg	µg/g	---	---	2300	1700	2200	1500	2400	2600	2900	2000	2200	4900	4000	9000	6600	8000	5900
Mn	µg/g	---	---	23000	8800	5500	1900	180	980	960	360	140	4300	580	400	300	460	670
Mo	µg/g	---	---	14	2	1.8	1.7	1.4	1	2	0.77	<0.50	5.2	1.1	2.7	1.2	1.2	1.9
Na	µg/g	---	---	<50	<50	66	<50	<50	<50	57	<50	75	110	76	75	75	85	100
Ni	µg/g	---	---	19	9.8	12	6.1	7	8.2	11	7.1	7.2	21	11	24	17	19	21
P	µg/g	---	---	710	580	630	310	440	450	400	410	470	850	600	740	780	780	650
Pb	µg/g	35	91.3	2.9	1.6	2.4	1.7	1.8	8.3	2.8	2.1	2.7	7	2.7	4.8	5	7.2	8.4
Sb	µg/g	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Se	µg/g	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	1.3	1.5
Sn	µg/g	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sr	µg/g	---	---	20	12	14	10	12	12	11	9.3	13	15	13	14	11	14	15
Tl	µg/g	---	---	0.54	0.25	0.19	0.11	<0.050	0.086	0.09	<0.050	<0.050	0.44	0.2	0.27	0.084	0.088	0.1
U	µg/g	---	---	2.2	0.97	2.1	0.46	0.73	0.51	1.1	0.76	0.73	3.4	1.3	2.2	3.6	2.7	3.1
V	µg/g	---	---	16	9.1	12	5.8	11	10	16	12	13	40	27	49	23	24	25
Zn	µg/g	123	315	41	22	31	15	14	17	18	13	13	69	47	90	48	59	59

Notes:

0.1 − Shaded cell denotes a value that is greater than the Canadian Council of Ministers of the Environment (CCME) ISQG; shaded and bold cell denotes a value that is greater than the CCME-PEL

(1) CCME [Canadian Council of Ministers of the Environment]. Sediment Quality Guidelines for the Protection of Aquatic Life Freshwater and Marine ISQG/PEL

Table E-11: 2023 Sediment Quality Results - WC-06, WC-07, WC-08, WC-09, and WC-10
Kami Iron Ore EIA

PARAMETER	UNIT	CCME Guideline[1]		Unnamed stream reporting to Long Lake from the southeast			Unnamed stream reporting to Long Lake from the southeast			Unnamed stream reporting to Long Lake from the east			Unnamed stream immediately downstream of Long Lake			Flows at Walsh River		
				WC-06			WC-07			WC-08			WC-09			WC-10		
PHYSICAL PARAMETERS		**ISQG**	**PEL**	10-Jun-23	10-Aug-23	16-Oct-23	9-Jun-23	10-Aug-23	16-Oct-23	9-Jun-23	10-Aug-23	17-Oct-23	8-Jun-23	15-Aug-23	17-Oct-23	7-Jun-23	16-Aug-23	15-Oct-23
Clay	%	---	---	<2.0	2.5	---	2.4	3.7	---	<2.0	<2.0	---	<2.0	6	---	<2.0	<2.0	---
Sand	%	---	---	97	96	---	93	93	---	98	96	---	98	68	---	91	98	---
Silt	%	---	---	<2.0	<2.0	---	4.9	3	---	<2.0	2.4	---	<2.0	26	---	7.4	<2.0	---
Texture		---	---	Sand	Sand	---	Sand	Sand	---	Sand	Sand	---	Sand	Sandy loam	---	Sand	Sand	---
Moisture	%	---	---	22	33	26	22	24	28	17	17	29	20	47	21	18	14	20
ANIONS & NUTRIENTS																		
Nitrogen (N)	%	---	---	0.1	0.043	0.022	<0.010	0.024	0.02	0.029	0.012	0.013	<0.010	0.13	0.025	0.089	<0.010	<0.010
TOC	mg/kg	---	---	21000	5400	7400	25000	19000	26000	7100	2100	5800	3300	15000	15000	7300	2600	3200
Calculated Total Kjeldahl Nitrogen	µg/g	---	---	1020	425	218	<100	241	203	290	124	132	<100	1260	247	892	<100	<100
Nitrite (N)	µg/g	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrate (N)	µg/g	---	---	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Nitrite + Nitrate (N)	µg/g	---	---	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
METALS																		
Ag	µg/g	---	---	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Al	µg/g	---	---	2000	1400	1700	2400	3000	2400	3100	3100	6300	5100	8400	8700	13000	8200	4100
As	µg/g	5.9	17	6.8	1.6	2.9	1.7	<1.0	1.3	<1.0	<1.0	1.3	1.2	<1.0	1.2	<1.0	<1.0	<1.0
B	µg/g	---	---	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ba	µg/g	---	---	7000	840	2300	900	85	650	51	84	320	430	81	100	64	110	53
Be	µg/g	---	---	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.2	0.22	<0.20	<0.20
Bi	µg/g	---	---	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ca	µg/g	---	---	9900	3100	4900	34000	6900	30000	2900	2500	4900	2700	3000	3400	4400	3800	2200
Cd	µg/g	0.6	3.5	<0.50	<0.10	0.14	0.27	<0.10	0.27	<0.10	<0.10	0.11	0.11	<0.10	0.19	<0.10	0.1	<0.10
Co	µg/g	---	---	7.1	3.3	4.6	4.5	2.9	4.2	7	5.1	8.9	8.9	10	12	15	11	8.9
Cr	µg/g	37	90	10	12	12	9.8	14	10	19	16	35	22	37	41	85	63	41
Cu	µg/g	35.7	197	5	1.7	2.5	3.2	1.7	2.8	4.4	3.8	7.2	5.4	6.5	8.1	34	13	8.1
Fe	µg/g	---	---	170000	65000	99000	47000	25000	43000	84000	49000	44000	33000	44000	50000	42000	37000	53000
Hg	µg/g	0.17	0.486	<0.25	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
K	µg/g	---	---	<1000	<200	310	210	270	230	420	470	960	1400	1300	1400	3200	3600	1200
Mg	µg/g	---	---	2900	1100	1800	20000	5200	17000	2900	2900	6300	3000	4900	5500	9500	7000	3600
Mn	µg/g	---	---	66000	10000	25000	12000	1600	9500	1000	1500	4700	3000	1300	2100	510	1100	870
Mo	µg/g	---	---	73	9.4	25	5.1	1	4	0.85	0.92	2.9	5.5	3.4	3.3	1	1	0.69
Na	µg/g	---	---	<250	<50	54	<50	<50	<50	<50	<50	53	100	59	68	56	140	97
Ni	µg/g	---	---	20	5.9	9.6	11	7.7	9.3	9.6	9.2	21	18	24	29	35	32	16
P	µg/g	---	---	670	580	520	690	480	690	740	520	710	760	840	740	700	880	440
Pb	µg/g	35	91.3	<5.0	1.1	1.1	3.1	1.5	2.4	1.6	1.7	2.3	4	3.4	3.9	7.1	4.4	15
Sb	µg/g	---	---	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Se	µg/g	---	---	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Sn	µg/g	---	---	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sr	µg/g	---	---	37	9.2	18	13	6.1	14	5.2	4.4	9.2	18	12	15	20	19	9.4
Tl	µg/g	---	---	2.1	0.24	0.67	0.2	<0.050	0.16	0.054	0.059	0.2	0.24	0.14	0.25	0.26	0.27	0.11
U	µg/g	---	---	5.8	1.2	2.3	2.2	0.66	1.7	1.2	0.83	1.7	1.2	1.1	1.1	1.6	0.67	0.49
V	µg/g	---	---	<25	11	13	11	11	11	16	12	23	17	22	26	33	31	33
Zn	µg/g	123	315	53	15	29	58	40	51	19	16	35	49	62	72	66	44	29

Notes:

0.1 − Shaded cell denotes a value that is greater than the Canadian Council of Ministers of the Environment (CCME) ISQG; shaded and bold cell denotes a value that is greater than the CCME-PEL

(1) CCME [Canadian Council of Ministers of the Environment]. Sediment Quality Guidelines for the Protection of Aquatic Life Freshwater and Marine ISQG/PEL

Table E-12: 2023 Sediment Quality Results - WC-11, WC-12, Daviualt Lake, Long Lake, Mills Lake, and Molar Lake
Kami Iron Ore EIA

PARAMETER	UNIT	CCME Guideline[1]		Unnamed stream – DS of Riordan	Unnamed stream – immediately downstream of Daviault Lake		Lake Column at Daviault Lake		Lake Column at Long Lake					Lake Column at Mills Lake					Lake Column at Molar Lake	
				WC-11	WC-12		DL-02		LL-02			LL-03		MIL-02			MIL-03		MOL-02	
PHYSICAL PARAMETERS		**ISQG**	**PEL**	10-Oct-23	11-Aug-23	14-Oct-23	9-Aug-23	22-Oct-23	15-Jun-23	15-Aug-23	24-Oct-23	15-Aug-23	24-Oct-23	14-Jun-23	13-Aug-23	21-Oct-23	14-Aug-23	21-Oct-23	13-Aug-23	22-Oct-23
Clay	%	---	---	---	<2.0	---	29	---	2.6	13	---	9.9	---	---[2]	15	---	17	---	19	---
Sand	%	---	---	---	98	---	23	---	74	46	---	50	---	---[2]	49	---	42	---	30	---
Silt	%	---	---	---	<2.0	---	49	---	24	40	---	40	---	---[2]	36	---	41	---	51	---
Texture		---	---	---	Sand	---	Clay loam	---	Loamy sand	Loam	---	Loam	---	---[2]	Loam	---	Loam	---	Silt loam	---
Moisture	%	---	---	46	19	23	90	83	83	89	89	90	90	90	91	91	92	89	90	90
ANIONS & NUTRIENTS																				
Nitrogen (N)	%	---	---	0.3	0.01	<0.010	0.72	0.41	0.21	0.76	0.57	0.64	0.61	0.67	0.79	0.69	0.92	0.86	0.73	1
TOC	mg/kg	---	---	18000	4200	3800	69000	50000	39000	59000	54000	64000	68000	83000	82000	81000	89000	93000	86000	110000
Calculated Total Kjeldahl Nitrogen	µg/g	---	---	2950	103	<100	7160	4110	2090	7620	5710	6390	6080	6740	7920	6940	9210	8560	7300	10300
Nitrite (N)	µg/g	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	0.7
Nitrate (N)	µg/g	---	---	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Nitrite + Nitrate (N)	µg/g	---	---	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
METALS																				
Ag	µg/g	---	---	<0.20	<0.20	<0.20	0.41	0.43	<0.20	0.26	0.2	0.27	0.26	0.37	0.33	0.29	0.3	0.37	0.49	0.38
Al	µg/g	---	---	2400	3900	4700	14000	15000	30000	16000	17000	17000	15000	16000	14000	15000	12000	16000	16000	13000
As	µg/g	5.9	17	<1.0	<1.0	<1.0	2.1	1.7	2.1	4	7.4	4.4	6.3	1.2	1.6	2.4	1.6	2.3	<1.0	1.6
B	µg/g	---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ba	µg/g	---	---	43	41	50	370	250	1100	400	1900	1300	1700	350	330	640	160	1000	230	160
Be	µg/g	---	---	<0.20	<0.20	<0.20	0.33	0.37	0.59	0.51	0.49	0.54	0.5	0.39	0.39	0.42	0.32	0.4	0.35	0.27
Bi	µg/g	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ca	µg/g	---	---	4900	1100	2000	5100	4200	5600	4800	5700	6200	6000	6400	7000	6400	5800	6900	8100	6900
Cd	µg/g	0.6	3.5	<0.10	<0.10	<0.10	0.61	0.61	0.72	0.95	0.93	0.94	0.91	0.63	0.68	0.77	0.99	0.82	0.31	0.59
Co	µg/g	---	---	3.5	2.9	3.9	11	18	31	15	18	18	19	9.8	10	12	5.5	9.7	6.2	5.9
Cr	µg/g	37	90	14	20	29	44	70	70	63	56	58	56	64	55	50	49	57	61	48
Cu	µg/g	35.7	197	2.7	7.2	11	27	46	21	28	32	30	27	27	28	23	22	29	25	21
Fe	µg/g	---	---	56000	8500	11000	30000	39000	140000	92000	170000	95000	100000	32000	40000	74000	28000	44000	16000	17000
Hg	µg/g	0.17	0.486	<0.050	<0.050	<0.050	0.15	0.14	0.1	0.16	0.07	0.13	0.13	0.093	0.092	0.1	0.16	0.13	0.073	0.15
K	µg/g	---	---	340	1400	1500	1300	3200	1400	2000	1600	2000	1800	1800	1600	1500	1200	1400	1200	900
Mg	µg/g	---	---	3000	2900	3600	3000	6700	4800	5900	4700	5600	5400	5200	4700	4300	3900	4500	3800	3000
Mn	µg/g	---	---	770	130	100	4600	1900	15000	9100	21000	35000	39000	1700	4700	12000	1300	13000	580	940
Mo	µg/g	---	---	1.1	<0.50	<0.50	12	4.8	3.1	5.8	43	5.6	9.2	5.5	5.9	3.5	4.4	11	6	5.1
Na	µg/g	---	---	<50	<50	62	140	250	92	130	85	140	140	150	140	160	120	150	120	110
Ni	µg/g	---	---	6.5	10	13	29	42	56	40	61	51	50	35	33	34	22	33	21	19
P	µg/g	---	---	690	200	510	2000	1400	1300	1200	4800	1800	2500	1400	1300	1400	1000	1700	1800	1400
Pb	µg/g	35	91.3	3.7	2.8	3.3	31	58	13	39	11	33	31	11	17	23	57	17	7.9	32
Sb	µg/g	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.29	<0.20	<0.20	<0.20
Se	µg/g	---	---	<0.50	<0.50	<0.50	0.91	0.58	1	1.3	2.4	1.7	1.8	0.98	1.1	1.2	1.3	1.5	1	1.2
Sn	µg/g	---	---	<1.0	<1.0	<1.0	1.1	3.2	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	9.6	<1.0
Sr	µg/g	---	---	7.4	7.9	13	26	29	17	17	19	21	22	22	24	21	19	24	28	22
Tl	µg/g	---	---	<0.050	0.079	0.097	0.29	0.39	0.68	0.42	0.48	0.58	0.53	0.41	0.42	0.42	0.21	0.34	0.17	0.17
U	µg/g	---	---	1	0.24	0.32	6.6	3	17	9.1	15	13	12	12	11	12	9	15	13	9.4
V	µg/g	---	---	12	11	17	31	40	38	40	39	43	41	36	34	34	27	35	25	19
Zn	µg/g	123	315	20	17	21	91	140	220	140	140	130	130	120	110	120	96	130	79	81

Notes:

0.1 − Shaded cell denotes a value that is greater than the Canadian Council of Ministers of the Environment (CCME) ISQG; shaded and bold cell denotes a value that is greater than the CCME-PEL

(1) CCME [Canadian Council of Ministers of the Environment]. Sediment Quality Guidelines for the Protection of Aquatic Life Freshwater and Marine ISQG/PEL

(2) Grain size tests/results unavailable due to insufficient sample volumes

Table E-13: 2023 Sediment Quality Results - Pike Lake, Riordan Lake, and Railway Crossings
Kami Iron Ore EIA

PARAMETER	UNIT	CCME Guideline[1]		Flows at Pike Lake			Lake Column at Riordan Lake		Railway Crossings		
				PL-02			RL-02		WC-13	WC-14	WC-15
PHYSICAL PARAMETERS		**ISQG**	**PEL**	12-Jun-23	12-Aug-23	19-Oct-23	16-Aug-23	23-Oct-23	13-Oct-23	13-Oct-23	13-Oct-23
Clay	%	---	---	---[2]	17	---	5.7	---	---	---	---
Sand	%	---	---	---[2]	69	---	87	---	---	---	---
Silt	%	---	---	---[2]	15	---	7.2	---	---	---	---
Texture		---	---	---[2]	Sandy loam	---	Loamy sand	---	---	---	---
Moisture	%	---	---	93	94	93	94	92	39	67	23
ANIONS & NUTRIENTS											
Nitrogen (N)	%	---	---	0.25	1.6	1.3	1.4	1.4	0.064	0.34	<0.010
TOC	mg/kg	---	---	150000	150000	130000	110000	150000	18000	52000	500
Calculated Total Kjeldahl Nitrogen	µg/g	---	---	2510	16000	13000	14400	14200	640	3360	<100
Nitrite (N)	µg/g	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrate (N)	µg/g	---	---	<2	<2	<2	<2	<2	<2	<2	<2
Nitrite + Nitrate (N)	µg/g	---	---	<3	<3	<3	<3	<3	<3	<3	<3
METALS											
Ag	µg/g	---	---	0.24	0.21	0.21	<0.20	<0.20	<0.20	<0.20	<0.20
Al	µg/g	---	---	11000	9900	12000	7100	5500	6600	5900	400
As	µg/g	5.9	17	2	1.8	1.6	1.2	<1.0	1.4	1.5	2
B	µg/g	---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ba	µg/g	---	---	200	260	250	200	150	1200	1300	82
Be	µg/g	---	---	0.3	0.28	0.27	0.25	<0.20	<0.20	<0.20	0.32
Bi	µg/g	---	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ca	µg/g	---	---	6600	5600	6300	6300	5500	5400	6600	320
Cd	µg/g	0.6	3.5	0.45	0.34	0.35	0.71	0.44	0.17	0.23	<0.10
Co	µg/g	---	---	8.8	7.9	10	6.8	6.2	7.1	5	5.3
Cr	µg/g	37	90	37	33	38	27	24	31	24	2
Cu	µg/g	35.7	197	21	17	17	25	19	6.6	6.9	2
Fe	µg/g	---	---	46000	73000	100000	38000	36000	52000	64000	64000
Hg	µg/g	0.17	0.486	0.23	0.16	0.15	0.073	<0.050	<0.050	0.056	<0.050
K	µg/g	---	---	930	740	650	1100	930	610	430	<200
Mg	µg/g	---	---	2500	1900	2200	3800	3400	4100	3200	180
Mn	µg/g	---	---	2000	2500	4700	1500	1500	21000	30000	4800
Mo	µg/g	---	---	5.3	2.2	1.9	3.7	4.2	15	22	<0.50
Na	µg/g	---	---	87	80	79	110	110	59	<50	<50
Ni	µg/g	---	---	24	20	22	21	19	25	20	1.9
P	µg/g	---	---	2000	2800	1800	1100	850	630	700	97
Pb	µg/g	35	91.3	21	13	11	17	7.7	2.7	2.6	<1.0
Sb	µg/g	---	---	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Se	µg/g	---	---	1	0.93	0.88	1.2	0.96	<0.50	<0.50	<0.50
Sn	µg/g	---	---	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0
Sr	µg/g	---	---	17	15	17	16	14	19	20	2.7
Tl	µg/g	---	---	0.3	0.2	0.23	0.18	0.16	0.22	0.22	<0.050
U	µg/g	---	---	6.1	4.7	5.7	8.3	6.6	3.7	2.7	0.095
V	µg/g	---	---	20	17	17	20	19	20	16	<5.0
Zn	µg/g	123	315	72	64	80	110	87	77	91	7.4

Notes:

0.1 − Shaded cell denotes a value that is greater than the Canadian Council of Ministers of the Environment (CCME) ISQG; shaded and bold cell denotes a value that is greater than the CCME-PEL

(1) CCME [Canadian Council of Ministers of the Environment]. Sediment Quality Guidelines for the Protection of Aquatic Life Freshwater and Marine ISQG/PEL

(2) Grain size tests/results unavailable due to insufficient sample volumes

Your Project #: CA0003092.5894/500
Your C.O.C. #: 937349-01-01, 937349-04-01

Attention: Michael Hildebrandt

WSP Canada Inc.
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Report Date: 2024/11/12
Report #: R8401237
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3H6836
Received: 2023/06/16, 19:09

Sample Matrix: Water
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity (CaCO3) in water (1)	16	N/A	2023/06/22	ATL SOP-00205	SM 24 2310B m
Acidity (CaCO3) in water (1)	3	N/A	2023/06/23	ATL SOP-00205	SM 24 2310B m
Alkalinity	18	N/A	2023/06/21	CAM SOP-00448	SM 24 2320 B m
Alkalinity	1	N/A	2023/06/23	CAM SOP-00448	SM 24 2320 B m
Anions	3	N/A	2023/06/21	CAM SOP-00435	SM 23 4110 B m
Anions	16	N/A	2023/06/22	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	8	N/A	2023/06/21	CAM SOP-00463	SM 23 4500-Cl E m
Chloride by Automated Colourimetry	11	N/A	2023/06/22	CAM SOP-00463	SM 24 4500-Cl E m
Colour	19	N/A	2023/08/15	CAM SOP-00412	SM 23 2120C m
Conductivity	18	N/A	2023/06/21	CAM SOP-00414	SM 24 2510 m
Conductivity	1	N/A	2023/06/23	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (4)	19	N/A	2023/06/21	CAM SOP-00446	SM 23 5310 B m
Fluoride	18	2023/06/20	2023/06/21	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2023/06/23	2023/06/23	CAM SOP-00449	SM 23 4500-F C m
Dissolved Mercury (low level)	2	2023/06/23	2023/06/23	CAM SOP-00453	EPA 7470 m
Dissolved Mercury (low level)	16	2023/06/25	2023/06/26	CAM SOP-00453	EPA 7470 m
Mercury (low level)	15	2023/06/23	2023/06/23	CAM SOP-00453	EPA 7470 m
Mercury (low level)	4	2023/06/25	2023/06/26	CAM SOP-00453	EPA 7470 m
Hardness Total (calculated as CaCO3) (2, 5)	19	N/A	2023/07/05	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (2)	19	N/A	2023/06/23	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	19	N/A	2023/06/23	BBY7 WI-00033	Auto Calc
Elements by CRC ICPMS (dissolved) (2, 6)	19	N/A	2023/06/23	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (2, 6)	1	N/A	2023/07/06	BBY7SOP-00002	EPA 6020b R2 m
Total Extractable Lanthanides-waters (3, 7)	19	2023/06/28	2023/06/30	STL SOP-00071	MA.200–Mét. 1.2 R7 m
Dissolved Lanthanides- waters (3, 7)	19	N/A	2023/06/30	STL SOP-00071	MA.200–Mét. 1.2 R5 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	19	2023/06/20	2023/07/05	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (2)	19	2023/07/01	2023/07/04	BBY7SOP-00003/ BBY7SOP-00002	EPA 6020B R2 m
Total Ammonia (as NH3)	19	N/A	2023/06/22	Auto Calc.	
Total Ammonia-N	19	N/A	2023/06/22	CAM SOP-00441	USGS I-2522-90 m

Your Project #: CA0003092.5894/500
Your C.O.C. #: 937349-01-01, 937349-04-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401237
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3H6836
Received: 2023/06/16, 19:09

Sample Matrix: Water
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Nitrate & Nitrite as Nitrogen in Water (8)	19	N/A	2023/06/21	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (9)	18	2023/06/20	2023/06/21	CAM SOP-00413	SM 24th - 4500H+ B
pH (9)	1	2023/06/23	2023/06/23	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (10)	6	N/A	2023/06/29		Field pH Meter
Field Measured pH (10)	12	N/A	2023/06/30		Field pH Meter
Dissolved Orthophosphate	19	N/A	2023/08/16	CAM SOP-00461	SM 23 4500-P E m
Sulphate by Automated Turbidimetry	8	N/A	2023/06/21	CAM SOP-00464	SM 23 4500-SO42- E m
Sulphate by Automated Turbidimetry	11	N/A	2023/06/22	CAM SOP-00464	SM 23 4500-SO42- E m
Total Dissolved Solids	19	2023/06/20	2023/06/21	CAM SOP-00428	SM 23 2540C m
Field Temperature (10)	6	N/A	2023/06/29		Field Thermometer
Field Temperature (10)	12	N/A	2023/06/30		Field Thermometer
Total Phosphorus (Colourimetric)	4	2023/06/23	2023/06/26	CAM SOP-00407	SM 23 4500-P I
Total Phosphorus (Colourimetric)	15	2023/06/23	2023/06/27	CAM SOP-00407	SM 23 4500-P I
Low Level Total Suspended Solids	8	2023/06/20	2023/06/21	CAM SOP-00428	SM 23 2540D m
Low Level Total Suspended Solids	11	2023/06/21	2023/06/21	CAM SOP-00428	SM 23 2540D m
Un-ionized Ammonia (11)	6	2023/06/18	2023/06/29	Auto Calc.	PWQO
Un-ionized Ammonia (11)	12	2023/06/18	2023/06/30	Auto Calc.	PWQO

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless

Your Project #: CA0003092.5894/500
Your C.O.C. #: 937349-01-01, 937349-04-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401237
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3H6836
Received: 2023/06/16, 19:09

otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way , Burnaby, BC, V5G 1K5
(3) This test was performed by Bureau Veritas Montreal., 889 Montée de Liesse , Ville St-Laurent, QC, H4T 1P5
(4) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(5) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(6) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(7) Non-accredited test method
(8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

(10) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.
(11) Un-ionized ammonia is calculated using the total ammonia result and field data provided by the client for pH and temperature.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		WDC110	WDC111	WDC112	WDC113	WDC114	WDC115		
Sampling Date		2023/06/13 13:15	2023/06/13 18:00	2023/06/14 09:00	2023/06/14 09:30	2023/06/14	2023/06/14 16:00		
COC Number		937349-01-01	937349-01-01	937349-01-01	937349-01-01	937349-01-01	937349-01-01		
	UNITS	WC-04	WC-03	MIL-02 NS	MIL-02 NB	DUP	WC-12	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	33.6	28.6	34.2	34.0	34.0	19.2	0.50	8773731
Metals									
Dissolved Aluminum (Al)	ug/L	6.7	11.4	5.8	5.5	6.0	25.5	3.0	8773735
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8773735
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Barium (Ba)	ug/L	8.4	8.6	8.5	8.6	8.5	8.5	1.0	8773735
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	<50	50	8773735
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8773735
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8773735
Dissolved Copper (Cu)	ug/L	0.91	0.23	0.24	1.03	0.76	1.45	0.20	8773735
Dissolved Iron (Fe)	ug/L	10.2	12.0	5.9	8.6	8.7	34.8	5.0	8773735
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8773735
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	8773735
Dissolved Manganese (Mn)	ug/L	1.2	1.6	1.1	<1.0	1.1	16.7	1.0	8773735
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Silicon (Si)	ug/L	1850	1890	1850	1880	1890	2200	100	8773735
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8773735
Dissolved Strontium (Sr)	ug/L	11.1	13.0	11.4	11.3	11.4	15.2	1.0	8773735
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8773735
Dissolved Thorium (Th)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8773735

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		WDC110	WDC111	WDC112	WDC113	WDC114	WDC115		
Sampling Date		2023/06/13 13:15	2023/06/13 18:00	2023/06/14 09:00	2023/06/14 09:30	2023/06/14	2023/06/14 16:00		
COC Number		937349-01-01	937349-01-01	937349-01-01	937349-01-01	937349-01-01	937349-01-01		
	UNITS	**WC-04**	**WC-03**	**MIL-02 NS**	**MIL-02 NB**	**DUP**	**WC-12**	**RDL**	**QC Batch**
Dissolved Calcium (Ca)	mg/L	7.80	6.89	7.90	7.85	7.82	5.12	0.050	8773734
Dissolved Calcium (Ca)	ug/L	7800	6890	7900	7850	7820	5120	50	8773735
Dissolved Magnesium (Mg)	mg/L	3.43	2.76	3.53	3.51	3.51	1.55	0.050	8773734
Dissolved Magnesium (Mg)	ug/L	3430	2760	3530	3510	3510	1550	50	8773735
Dissolved Potassium (K)	mg/L	0.837	1.02	0.855	0.855	0.855	1.05	0.050	8773734
Dissolved Potassium (K)	ug/L	837	1020	854	855	855	1050	50	8773735
Dissolved Sodium (Na)	mg/L	0.519	0.721	0.534	0.543	0.533	2.10	0.050	8773734
Dissolved Sodium (Na)	ug/L	519	721	534	543	533	2100	50	8773735
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	8773734

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		WDC116			WDC117	WDC118	WDC130	WDC131		
Sampling Date		2023/06/15 06:00			2023/06/15 06:15	2023/06/15 06:30	2023/06/07 18:00	2023/06/08 15:30		
COC Number		937349-01-01			937349-01-01	937349-01-01	937349-04-01	937349-04-01		
	UNITS	LL-02 NS	RDL	QC Batch	LL-02NB	BLANK	WC-10	WC-9	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	31.9	0.50	8773731	33.0	<0.50	13.3	32.0	0.50	8773731
Metals										
Dissolved Aluminum (Al)	ug/L	17.9	3.0	8773735	11.2	4.9	50.6	17.5	3.0	8773735
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8773735	<0.50	<0.50	<0.50	<0.50	0.50	8773735
Dissolved Arsenic (As)	ug/L	<0.10	0.10	8773735	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Barium (Ba)	ug/L	9.1	1.0	8773735	11.5	<1.0	6.1	8.7	1.0	8773735
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	8773735	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8773735	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Boron (B)	ug/L	<50	50	8773735	<50	<50	<50	<50	50	8773735
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	8773735	<0.010	<0.010	<0.010	<0.010	0.010	8773735
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	8773735	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Cobalt (Co)	ug/L	<0.20	0.20	8773735	<0.20	<0.20	<0.20	<0.20	0.20	8773735
Dissolved Copper (Cu)	ug/L				1.13	<0.20	0.95	0.59	0.20	8773735
Dissolved Iron (Fe)	ug/L	22.2	5.0	8773735	26.7	<5.0	59.5	28.9	5.0	8773735
Dissolved Lead (Pb)	ug/L	<0.20	0.20	8773735	<0.20	<0.20	<0.20	<0.20	0.20	8773735
Dissolved Lithium (Li)	ug/L	<2.0	2.0	8773735	<2.0	<2.0	<2.0	<2.0	2.0	8773735
Dissolved Manganese (Mn)	ug/L	<1.0	1.0	8773735	47.5	<1.0	5.0	5.2	1.0	8773735
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.0	8773735	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	8773735	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Selenium (Se)	ug/L	<0.10	0.10	8773735	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Silicon (Si)	ug/L	1560	100	8773735	1740	<100	964	1620	100	8773735
Dissolved Silver (Ag)	ug/L	<0.020	0.020	8773735	<0.020	<0.020	<0.020	<0.020	0.020	8773735
Dissolved Strontium (Sr)	ug/L	11.6	1.0	8773735	11.6	<1.0	9.4	12.0	1.0	8773735
Dissolved Thallium (Tl)	ug/L	<0.010	0.010	8773735	<0.010	<0.010	<0.010	<0.010	0.010	8773735
Dissolved Thorium (Th)	ug/L	<1.0	1.0	8773735	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Tin (Sn)	ug/L	<5.0	5.0	8773735	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8773735	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Tungsten (W)	ug/L	<1.0	1.0	8773735	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Uranium (U)	ug/L	<0.10	0.10	8773735	<0.10	<0.10	<0.10	0.10	0.10	8773735
Dissolved Vanadium (V)	ug/L	<5.0	5.0	8773735	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8773735	<5.0	<5.0	<5.0	<5.0	5.0	8773735

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		WDC116			WDC117	WDC118	WDC130	WDC131		
Sampling Date		2023/06/15 06:00			2023/06/15 06:15	2023/06/15 06:30	2023/06/07 18:00	2023/06/08 15:30		
COC Number		937349-01-01			937349-01-01	937349-01-01	937349-04-01	937349-04-01		
	UNITS	**LL-02 NS**	**RDL**	**QC Batch**	**LL-02NB**	**BLANK**	**WC-10**	**WC-9**	**RDL**	**QC Batch**
Dissolved Calcium (Ca)	mg/L	7.48	0.050	8773734	7.63	<0.050	3.24	7.49	0.050	8773734
Dissolved Calcium (Ca)	ug/L	7480	50	8773735	7630	<50	3240	7490	50	8773735
Dissolved Magnesium (Mg)	mg/L	3.22	0.050	8773734	3.40	<0.050	1.27	3.22	0.050	8773734
Dissolved Magnesium (Mg)	ug/L	3220	50	8773735	3400	<50	1270	3220	50	8773735
Dissolved Potassium (K)	mg/L	0.813	0.050	8773734	0.824	<0.050	0.620	0.817	0.050	8773734
Dissolved Potassium (K)	ug/L	812	50	8773735	824	<50	620	817	50	8773735
Dissolved Sodium (Na)	mg/L	0.476	0.050	8773734	0.473	<0.050	0.469	0.475	0.050	8773734
Dissolved Sodium (Na)	ug/L	476	50	8773735	473	<50	469	474	50	8773735
Dissolved Sulphur (S)	mg/L	<3.0	3.0	8773734	<3.0	<3.0	<3.0	<3.0	3.0	8773734

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		WDC132	WDC133	WDC134	WDC135	WDC136	WDC137		
Sampling Date		2023/06/09 12:00	2023/06/09 15:00	2023/06/10 12:00	2023/06/10 16:00	2023/06/12 12:30	2023/06/12 15:00		
COC Number		937349-04-01	937349-04-01	937349-04-01	937349-04-01	937349-04-01	937349-04-01		
	UNITS	WC-08	WC-07	WC-06	WC-05	WC-01	WC-02	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	46.2	46.0	65.8	54.2	45.9	31.6	0.50	8773731
Metals									
Dissolved Aluminum (Al)	ug/L	<3.0	3.1	<3.0	4.9	5.5	8.8	3.0	8773735
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8773735
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Barium (Ba)	ug/L	12.0	11.0	15.6	15.7	12.7	11.5	1.0	8773735
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	<50	50	8773735
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8773735
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8773735
Dissolved Copper (Cu)	ug/L	0.22	0.59	0.64	0.84	0.70	0.24	0.20	8773735
Dissolved Iron (Fe)	ug/L	21.6	72.8	36.5	53.0	46.4	25.9	5.0	8773735
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8773735
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	8773735
Dissolved Manganese (Mn)	ug/L	3.5	3.1	10.2	14.8	33.4	4.0	1.0	8773735
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8773735
Dissolved Silicon (Si)	ug/L	1220	1290	2330	1580	2570	1880	100	8773735
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8773735
Dissolved Strontium (Sr)	ug/L	12.2	9.7	12.7	16.6	20.8	15.8	1.0	8773735
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8773735
Dissolved Thorium (Th)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8773735
Dissolved Uranium (U)	ug/L	0.15	0.11	0.19	0.21	0.10	<0.10	0.10	8773735
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8773735
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8773735

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		WDC132	WDC133	WDC134	WDC135	WDC136	WDC137		
Sampling Date		2023/06/09 12:00	2023/06/09 15:00	2023/06/10 12:00	2023/06/10 16:00	2023/06/12 12:30	2023/06/12 15:00		
COC Number		937349-04-01	937349-04-01	937349-04-01	937349-04-01	937349-04-01	937349-04-01		
	UNITS	**WC-08**	**WC-07**	**WC-06**	**WC-05**	**WC-01**	**WC-02**	**RDL**	**QC Batch**
Dissolved Calcium (Ca)	mg/L	10.3	10.2	15.0	12.8	11.5	8.03	0.050	8773734
Dissolved Calcium (Ca)	ug/L	10300	10200	15000	12800	11500	8030	50	8773735
Dissolved Magnesium (Mg)	mg/L	4.99	5.00	6.92	5.40	4.19	2.80	0.050	8773734
Dissolved Magnesium (Mg)	ug/L	4990	5000	6920	5400	4190	2800	50	8773735
Dissolved Potassium (K)	mg/L	0.856	0.495	0.905	1.07	1.78	1.26	0.050	8773734
Dissolved Potassium (K)	ug/L	856	495	905	1070	1780	1260	50	8773735
Dissolved Sodium (Na)	mg/L	0.399	0.459	0.521	0.442	1.03	0.801	0.050	8773734
Dissolved Sodium (Na)	ug/L	399	459	521	442	1030	801	50	8773735
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	8773734

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		WDC138	WDC139		
Sampling Date		2023/06/12 16:30	2023/06/12 17:00		
COC Number		937349-04-01	937349-04-01		
	UNITS	PL-02 NS	PL-02 NB	RDL	QC Batch
Calculated Parameters					
Dissolved Hardness (CaCO3)	mg/L	32.5	32.6	0.50	8773731
Metals					
Dissolved Aluminum (Al)	ug/L	8.2	11.0	3.0	8773735
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	8773735
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	0.10	8773735
Dissolved Barium (Ba)	ug/L	11.6	12.0	1.0	8773735
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	8773735
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	8773735
Dissolved Boron (B)	ug/L	<50	<50	50	8773735
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	8773735
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	8773735
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	0.20	8773735
Dissolved Copper (Cu)	ug/L	0.98	0.61	0.20	8773735
Dissolved Iron (Fe)	ug/L	21.9	25.3	5.0	8773735
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	8773735
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	2.0	8773735
Dissolved Manganese (Mn)	ug/L	1.0	4.1	1.0	8773735
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	1.0	8773735
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	8773735
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	0.10	8773735
Dissolved Silicon (Si)	ug/L	2010	2070	100	8773735
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	8773735
Dissolved Strontium (Sr)	ug/L	15.6	16.0	1.0	8773735
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	0.010	8773735
Dissolved Thorium (Th)	ug/L	<1.0	<1.0	1.0	8773735
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	8773735
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	8773735
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	8773735
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	8773735
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	8773735
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	8773735

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		WDC138	WDC139		
Sampling Date		2023/06/12 16:30	2023/06/12 17:00		
COC Number		937349-04-01	937349-04-01		
	UNITS	PL-02 NS	PL-02 NB	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	8.22	8.20	0.050	8773734
Dissolved Calcium (Ca)	ug/L	8220	8200	50	8773735
Dissolved Magnesium (Mg)	mg/L	2.89	2.93	0.050	8773734
Dissolved Magnesium (Mg)	ug/L	2890	2930	50	8773735
Dissolved Potassium (K)	mg/L	1.26	1.28	0.050	8773734
Dissolved Potassium (K)	ug/L	1260	1280	50	8773735
Dissolved Sodium (Na)	mg/L	0.790	0.804	0.050	8773734
Dissolved Sodium (Na)	ug/L	790	804	50	8773735
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	3.0	8773734

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		WDC110	WDC111	WDC112	WDC113	WDC114	WDC115		
Sampling Date		2023/06/13 13:15	2023/06/13 18:00	2023/06/14 09:00	2023/06/14 09:30	2023/06/14	2023/06/14 16:00		
COC Number		937349-01-01	937349-01-01	937349-01-01	937349-01-01	937349-01-01	937349-01-01		
	UNITS	WC-04	WC-03	MIL-02 NS	MIL-02 NB	DUP	WC-12	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	8.7	16.5	8.3	9.3	9.5	25.2	3.0	8770053
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8770053
Total Arsenic (As)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Barium (Ba)	ug/L	8.5	8.9	8.9	8.6	8.7	9.3	1.0	8770053
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Boron (B)	ug/L	<50	<50	<50	<50	<50	<50	50	8770053
Total Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8770053
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8770053
Total Copper (Cu)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8770053
Total Iron (Fe)	ug/L	12	25	14	12	13	52	10	8770053
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8770053
Total Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	8770053
Total Manganese (Mn)	ug/L	5.6	10.0	4.3	5.4	4.2	16.4	1.0	8770053
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Silicon (Si)	ug/L	1790	1790	1850	1800	1800	2110	100	8770053
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8770053
Total Strontium (Sr)	ug/L	10.8	12.9	11.4	11.2	11.2	15.6	1.0	8770053
Total Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8770053
Total Thorium (Th)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Tungsten (W)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	6.2	<5.0	5.0	8770053
Total Calcium (Ca)	mg/L	7.67	6.64	7.83	7.64	7.66	5.18	0.050	8773733
Total Calcium (Ca)	ug/L	7670	6640	7830	7640	7660	5180	50	8770053

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		WDC110	WDC111	WDC112	WDC113	WDC114	WDC115		
Sampling Date		2023/06/13 13:15	2023/06/13 18:00	2023/06/14 09:00	2023/06/14 09:30	2023/06/14	2023/06/14 16:00		
COC Number		937349-01-01	937349-01-01	937349-01-01	937349-01-01	937349-01-01	937349-01-01		
	UNITS	**WC-04**	**WC-03**	**MIL-02 NS**	**MIL-02 NB**	**DUP**	**WC-12**	**RDL**	**QC Batch**
Total Magnesium (Mg)	mg/L	3.21	2.56	3.24	3.22	3.31	1.48	0.050	8773733
Total Magnesium (Mg)	ug/L	3210	2560	3240	3220	3310	1480	50	8770053
Total Potassium (K)	mg/L	0.862	1.04	0.895	0.880	0.882	1.11	0.050	8773733
Total Potassium (K)	ug/L	862	1040	895	880	882	1110	50	8770053
Total Sodium (Na)	mg/L	0.537	0.684	0.568	0.538	0.566	2.12	0.050	8773733
Total Sodium (Na)	ug/L	537	684	568	538	566	2120	50	8770053
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	8773733
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	32.4	27.1	32.9	32.4	32.8	19.0	0.50	8773732

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		WDC116	WDC117	WDC118	WDC130	WDC131	WDC132		
Sampling Date		2023/06/15 06:00	2023/06/15 06:15	2023/06/15 06:30	2023/06/07 18:00	2023/06/08 15:30	2023/06/09 12:00		
COC Number		937349-01-01	937349-01-01	937349-01-01	937349-04-01	937349-04-01	937349-04-01		
	UNITS	LL-02 NS	LL-02NB	BLANK	WC-10	WC-9	WC-08	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	22.0	313	6.2	74.0	35.4	10.0	3.0	8770053
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8770053
Total Arsenic (As)	ug/L	<0.10	0.24	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Barium (Ba)	ug/L	9.3	44.5	<1.0	6.7	9.7	12.4	1.0	8770053
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Boron (B)	ug/L	<50	<50	<50	<50	<50	<50	50	8770053
Total Cadmium (Cd)	ug/L	<0.010	0.025	<0.010	<0.010	<0.010	<0.010	0.010	8770053
Total Chromium (Cr)	ug/L	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Cobalt (Co)	ug/L	<0.20	0.33	<0.20	<0.20	<0.20	<0.20	0.20	8770053
Total Copper (Cu)	ug/L	<0.50	1.24	<0.50	0.65	<0.50	<0.50	0.50	8770053
Total Iron (Fe)	ug/L	45	1480	<10	111	100	47	10	8770053
Total Lead (Pb)	ug/L	<0.20	0.78	<0.20	<0.20	<0.20	<0.20	0.20	8770053
Total Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	8770053
Total Manganese (Mn)	ug/L	6.8	1110	<1.0	11.4	27.0	20.9	1.0	8770053
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Nickel (Ni)	ug/L	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Silicon (Si)	ug/L	1530	2280	<100	1100	1600	1320	100	8770053
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8770053
Total Strontium (Sr)	ug/L	11.5	12.4	<1.0	9.9	11.6	12.0	1.0	8770053
Total Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8770053
Total Thorium (Th)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Titanium (Ti)	ug/L	<5.0	12.3	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Tungsten (W)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Uranium (U)	ug/L	0.11	0.31	<0.10	<0.10	0.10	0.15	0.10	8770053
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Zinc (Zn)	ug/L	<5.0	5.5	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Calcium (Ca)	mg/L	7.46	7.94	<0.050	3.38	7.36	9.94	0.050	8773733
Total Calcium (Ca)	ug/L	7460	7940	<50	3380	7360	9940	50	8770053

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		WDC116	WDC117	WDC118	WDC130	WDC131	WDC132		
Sampling Date		2023/06/15 06:00	2023/06/15 06:15	2023/06/15 06:30	2023/06/07 18:00	2023/06/08 15:30	2023/06/09 12:00		
COC Number		937349-01-01	937349-01-01	937349-01-01	937349-04-01	937349-04-01	937349-04-01		
	UNITS	LL-02 NS	LL-02NB	BLANK	WC-10	WC-9	WC-08	RDL	QC Batch
Total Magnesium (Mg)	mg/L	3.02	3.39	<0.050	1.34	3.02	4.69	0.050	8773733
Total Magnesium (Mg)	ug/L	3020	3390	<50	1340	3020	4690	50	8770053
Total Potassium (K)	mg/L	0.831	0.888	<0.050	0.647	0.865	0.880	0.050	8773733
Total Potassium (K)	ug/L	830	888	<50	647	865	880	50	8770053
Total Sodium (Na)	mg/L	0.496	0.497	<0.050	0.544	0.496	0.437	0.050	8773733
Total Sodium (Na)	ug/L	496	497	<50	544	496	437	50	8770053
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	8773733
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	31.1	33.8	<0.50	13.9	30.8	44.1	0.50	8773732

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		WDC133	WDC134	WDC135	WDC136	WDC137	WDC138		
Sampling Date		2023/06/09 15:00	2023/06/10 12:00	2023/06/10 16:00	2023/06/12 12:30	2023/06/12 15:00	2023/06/12 16:30		
COC Number		937349-04-01	937349-04-01	937349-04-01	937349-04-01	937349-04-01	937349-04-01		
	UNITS	WC-07	WC-06	WC-05	WC-01	WC-02	PL-02 NS	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	6.5	4.1	22.0	14.7	16.9	11.4	3.0	8770053
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8770053
Total Arsenic (As)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Barium (Ba)	ug/L	11.7	16.7	16.6	13.4	12.8	11.8	1.0	8770053
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Boron (B)	ug/L	<50	<50	<50	<50	<50	<50	50	8770053
Total Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8770053
Total Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8770053
Total Copper (Cu)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8770053
Total Iron (Fe)	ug/L	117	60	143	119	67	45	10	8770053
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8770053
Total Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	8770053
Total Manganese (Mn)	ug/L	12.7	20.2	21.4	67.5	42.0	10.6	1.0	8770053
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8770053
Total Silicon (Si)	ug/L	1380	2220	1560	2420	1870	1910	100	8770053
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8770053
Total Strontium (Sr)	ug/L	9.8	12.8	16.4	20.6	15.9	15.5	1.0	8770053
Total Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8770053
Total Thorium (Th)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Tungsten (W)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8770053
Total Uranium (U)	ug/L	0.12	0.20	0.23	0.12	<0.10	<0.10	0.10	8770053
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8770053
Total Calcium (Ca)	mg/L	10.2	15.0	12.6	11.4	8.13	8.06	0.050	8773733
Total Calcium (Ca)	ug/L	10200	15000	12600	11400	8130	8060	50	8770053

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		WDC133	WDC134	WDC135	WDC136	WDC137	WDC138		
Sampling Date		2023/06/09 15:00	2023/06/10 12:00	2023/06/10 16:00	2023/06/12 12:30	2023/06/12 15:00	2023/06/12 16:30		
COC Number		937349-04-01	937349-04-01	937349-04-01	937349-04-01	937349-04-01	937349-04-01		
	UNITS	**WC-07**	**WC-06**	**WC-05**	**WC-01**	**WC-02**	**PL-02 NS**	**RDL**	**QC Batch**
Total Magnesium (Mg)	mg/L	4.90	6.82	5.21	4.14	2.72	2.75	0.050	8773733
Total Magnesium (Mg)	ug/L	4900	6820	5210	4140	2720	2750	50	8770053
Total Potassium (K)	mg/L	0.492	0.957	1.13	1.81	1.33	1.32	0.050	8773733
Total Potassium (K)	ug/L	492	957	1130	1810	1330	1320	50	8770053
Total Sodium (Na)	mg/L	0.473	0.575	0.459	1.05	0.810	0.808	0.050	8773733
Total Sodium (Na)	ug/L	473	575	458	1050	810	808	50	8770053
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	8773733
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	45.7	65.6	53.0	45.6	31.5	31.5	0.50	8773732

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		WDC139		
Sampling Date		2023/06/12 17:00		
COC Number		937349-04-01		
	UNITS	PL-02 NB	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	13.4	3.0	8770053
Total Antimony (Sb)	ug/L	<0.50	0.50	8770053
Total Arsenic (As)	ug/L	<0.10	0.10	8770053
Total Barium (Ba)	ug/L	12.8	1.0	8770053
Total Beryllium (Be)	ug/L	<0.10	0.10	8770053
Total Bismuth (Bi)	ug/L	<1.0	1.0	8770053
Total Boron (B)	ug/L	<50	50	8770053
Total Cadmium (Cd)	ug/L	<0.010	0.010	8770053
Total Chromium (Cr)	ug/L	<1.0	1.0	8770053
Total Cobalt (Co)	ug/L	<0.20	0.20	8770053
Total Copper (Cu)	ug/L	<0.50	0.50	8770053
Total Iron (Fe)	ug/L	71	10	8770053
Total Lead (Pb)	ug/L	<0.20	0.20	8770053
Total Lithium (Li)	ug/L	<2.0	2.0	8770053
Total Manganese (Mn)	ug/L	28.6	1.0	8770053
Total Molybdenum (Mo)	ug/L	<1.0	1.0	8770053
Total Nickel (Ni)	ug/L	<1.0	1.0	8770053
Total Selenium (Se)	ug/L	<0.10	0.10	8770053
Total Silicon (Si)	ug/L	2070	100	8770053
Total Silver (Ag)	ug/L	<0.020	0.020	8770053
Total Strontium (Sr)	ug/L	15.9	1.0	8770053
Total Thallium (Tl)	ug/L	<0.010	0.010	8770053
Total Thorium (Th)	ug/L	<1.0	1.0	8770053
Total Tin (Sn)	ug/L	<5.0	5.0	8770053
Total Titanium (Ti)	ug/L	<5.0	5.0	8770053
Total Tungsten (W)	ug/L	<1.0	1.0	8770053
Total Uranium (U)	ug/L	<0.10	0.10	8770053
Total Vanadium (V)	ug/L	<5.0	5.0	8770053
Total Zinc (Zn)	ug/L	<5.0	5.0	8770053
Total Calcium (Ca)	mg/L	8.53	0.050	8773733
Total Calcium (Ca)	ug/L	8530	50	8770053

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		WDC139		
Sampling Date		2023/06/12 17:00		
COC Number		937349-04-01		
	UNITS	**PL-02 NB**	**RDL**	**QC Batch**
Total Magnesium (Mg)	mg/L	2.84	0.050	8773733
Total Magnesium (Mg)	ug/L	2840	50	8770053
Total Potassium (K)	mg/L	1.35	0.050	8773733
Total Potassium (K)	ug/L	1350	50	8770053
Total Sodium (Na)	mg/L	0.809	0.050	8773733
Total Sodium (Na)	ug/L	809	50	8770053
Total Sulphur (S)	mg/L	<3.0	3.0	8773733
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	33.0	0.50	8773732

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC110			WDC110			WDC111		
Sampling Date		2023/06/13 13:15			2023/06/13 13:15			2023/06/13 18:00		
COC Number		937349-01-01			937349-01-01			937349-01-01		
	UNITS	WC-04	RDL	QC Batch	WC-04 Lab-Dup	RDL	QC Batch	WC-03	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8739697				<0.061	0.061	8739697
Total Un-ionized Ammonia	mg/L	<0.0028	0.0028	8739702				<0.00099	0.00099	8739702
Field Measurements										
Field Temperature	Celsius	22.73	N/A	ONSITE				23.52	N/A	ONSITE
Field Measured pH	pH	7.99		ONSITE				7.51		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8744967				<5.0	5.0	8744967
Total Ammonia-N	mg/L	<0.050	0.050	8740005				<0.050	0.050	8740005
Colour	TCU	10	2	8853515				11	2	8853515
Conductivity	umho/cm	73	1.0	8740900				63	1.0	8749256
Total Dissolved Solids	mg/L	85	10	8740452				60	10	8740452
Fluoride (F-)	mg/L	<0.10	0.10	8740894				<0.10	0.10	8749226
Dissolved Organic Carbon	mg/L	3.1	0.40	8740568				3.2	0.40	8740568
Dissolved Orthophosphate (P)	mg/L	<0.010	0.010	8853563				<0.010	0.010	8853563
pH	pH	7.64		8740901				7.51		8749259
Total Phosphorus	mg/L	<0.004	0.004	8748817				<0.004	0.004	8748817
Total Suspended Solids	mg/L	<1	1	8738620				<1	1	8741136
Dissolved Sulphate (SO4)	mg/L	2.7	1.0	8740600				2.7	1.0	8740593
Alkalinity (Total as CaCO3)	mg/L	34	1.0	8740899				29	1.0	8749247
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8740611				<1.0	1.0	8740575
Nitrite (N)	mg/L	<0.010	0.010	8740872				<0.010	0.010	8740872
Nitrate (N)	mg/L	<0.10	0.10	8740872				<0.10	0.10	8740872
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8740872				<0.10	0.10	8740872
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8740485	<1.0	1.0	8740485	<1.0	1.0	8740468
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8768628				<2.0	2.0	8768628
Total Yttrium (Y)	ug/L	<3.2	3.2	8768627				<3.2	3.2	8768627

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC111			WDC112			WDC112		
Sampling Date		2023/06/13 18:00			2023/06/14 09:00			2023/06/14 09:00		
COC Number		937349-01-01			937349-01-01			937349-01-01		
	UNITS	WC-03 Lab-Dup	RDL	QC Batch	MIL-02 NS	RDL	QC Batch	MIL-02 NS Lab-Dup	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L				<0.061	0.061	8739697			
Total Un-ionized Ammonia	mg/L				<0.00086	0.00086	8739702			
Field Measurements										
Field Temperature	Celsius				20.27	N/A	ONSITE			
Field Measured pH	pH				7.55		ONSITE			
Inorganics										
Acidity	mg/L				<5.0	5.0	8744967			
Total Ammonia-N	mg/L				<0.050	0.050	8740005			
Colour	TCU				9	2	8853515			
Conductivity	umho/cm	63	1.0	8749256	73	1.0	8740900			
Total Dissolved Solids	mg/L				75	10	8740452			
Fluoride (F-)	mg/L	<0.10	0.10	8749226	<0.10	0.10	8740894			
Dissolved Organic Carbon	mg/L				3.1	0.40	8740568			
Dissolved Orthophosphate (P)	mg/L				<0.010	0.010	8853563			
pH	pH	7.56		8749259	7.61		8740901			
Total Phosphorus	mg/L				<0.004	0.004	8748817			
Total Suspended Solids	mg/L				<1	1	8741136			
Dissolved Sulphate (SO4)	mg/L				2.9	1.0	8740600	2.9	1.0	8740600
Alkalinity (Total as CaCO3)	mg/L	29	1.0	8749247	34	1.0	8740899			
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	8740611	<1.0	1.0	8740611
Nitrite (N)	mg/L				<0.010	0.010	8740872			
Nitrate (N)	mg/L				<0.10	0.10	8740872			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	8740872			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	8740482			
Metals										
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	8768628			
Total Yttrium (Y)	ug/L				<3.2	3.2	8768627			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC113			WDC113			WDC114		
Sampling Date		2023/06/14 09:30			2023/06/14 09:30			2023/06/14		
COC Number		937349-01-01			937349-01-01			937349-01-01		
	UNITS	MIL-02 NB	RDL	QC Batch	MIL-02 NB Lab-Dup	RDL	QC Batch	DUP	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8739697				<0.061	0.061	8739697
Total Un-ionized Ammonia	mg/L	<0.00075	0.00075	8739702				<0.00075	0.00075	8739702
Field Measurements										
Field Temperature	Celsius	15.81	N/A	ONSITE				15.81	N/A	ONSITE
Field Measured pH	pH	7.63		ONSITE				7.63		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8744967	<5.0	5.0	8744967	<5.0	5.0	8744967
Total Ammonia-N	mg/L	<0.050	0.050	8740005				<0.050	0.050	8740005
Colour	TCU	9	2	8853515				9	2	8853515
Conductivity	umho/cm	73	1.0	8740900				73	1.0	8740900
Total Dissolved Solids	mg/L	75	10	8740452				65	10	8740452
Fluoride (F-)	mg/L	<0.10	0.10	8740894				<0.10	0.10	8740894
Dissolved Organic Carbon	mg/L	3.2	0.40	8740568				3.1	0.40	8740552
Dissolved Orthophosphate (P)	mg/L	<0.010	0.010	8853563				<0.010	0.010	8853563
pH	pH	7.60		8740901				7.64		8740901
Total Phosphorus	mg/L	<0.004	0.004	8748817				<0.004	0.004	8748817
Total Suspended Solids	mg/L	<1	1	8741136				<1	1	8738620
Dissolved Sulphate (SO4)	mg/L	2.9	1.0	8740600				2.7	1.0	8740600
Alkalinity (Total as CaCO3)	mg/L	34	1.0	8740899				35	1.0	8740899
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8740611				<1.0	1.0	8740611
Nitrite (N)	mg/L	<0.010	0.010	8740872				<0.010	0.010	8740872
Nitrate (N)	mg/L	<0.10	0.10	8740872				<0.10	0.10	8740872
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8740872				<0.10	0.10	8740872
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8740482				<1.0	1.0	8740482
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8768628				<2.0	2.0	8768628
Total Yttrium (Y)	ug/L	<3.2	3.2	8768627				<3.2	3.2	8768627

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC115			WDC115			WDC116		
Sampling Date		2023/06/14 16:00			2023/06/14 16:00			2023/06/15 06:00		
COC Number		937349-01-01			937349-01-01			937349-01-01		
	UNITS	WC-12	RDL	QC Batch	WC-12 Lab-Dup	RDL	QC Batch	LL-02 NS	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8739697				<0.061	0.061	8739697
Total Un-ionized Ammonia	mg/L	<0.00083	0.00083	8739702				<0.00084	0.00084	8739702
Field Measurements										
Field Temperature	Celsius	21.65	N/A	ONSITE				20.61	N/A	ONSITE
Field Measured pH	pH	7.49		ONSITE				7.53		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8744967				<5.0	5.0	8744967
Total Ammonia-N	mg/L	<0.050	0.050	8740005				<0.050	0.050	8740005
Colour	TCU	18	2	8853515	17	2	8853515	16	2	8853515
Conductivity	umho/cm	53	1.0	8740900				69	1.0	8740900
Total Dissolved Solids	mg/L	65	10	8740452				95	10	8740452
Fluoride (F-)	mg/L	<0.10	0.10	8740894				<0.10	0.10	8740894
Dissolved Organic Carbon	mg/L	3.9	0.40	8740568	3.9	0.40	8740568	3.5	0.40	8740552
Dissolved Orthophosphate (P)	mg/L	<0.010	0.010	8853563				<0.010	0.010	8853563
pH	pH	7.32		8740901				7.59		8740901
Total Phosphorus	mg/L	<0.004	0.004	8748817				0.009	0.004	8748817
Total Suspended Solids	mg/L	<1	1	8741136	<1	1	8741136	<1	1	8738620
Dissolved Sulphate (SO4)	mg/L	2.0	1.0	8740593				2.9	1.0	8740600
Alkalinity (Total as CaCO3)	mg/L	17	1.0	8740899				32	1.0	8740899
Dissolved Chloride (Cl-)	mg/L	1.7	1.0	8740575				<1.0	1.0	8740611
Nitrite (N)	mg/L	<0.010	0.010	8740865				<0.010	0.010	8740872
Nitrate (N)	mg/L	<0.10	0.10	8740865				<0.10	0.10	8740872
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8740865				<0.10	0.10	8740872
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8740482				<1.0	1.0	8740482
Metals										
Dissolved Copper (Cu)	ug/L							1.66	0.20	8773736
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8768628				<2.0	2.0	8768628
Total Yttrium (Y)	ug/L	<3.2	3.2	8768627				<3.2	3.2	8768627

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC116			WDC117			WDC117		
Sampling Date		2023/06/15 06:00			2023/06/15 06:15			2023/06/15 06:15		
COC Number		937349-01-01			937349-01-01			937349-01-01		
	UNITS	LL-02 NS Lab-Dup	RDL	QC Batch	LL-02NB	RDL	QC Batch	LL-02NB Lab-Dup	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L				<0.061	0.061	8739697			
Total Un-ionized Ammonia	mg/L				<0.00061	0.00061	8739702			
Field Measurements										
Field Temperature	Celsius				13.92	N/A	ONSITE			
Field Measured pH	pH				7.41		ONSITE			
Inorganics										
Acidity	mg/L				<5.0	5.0	8744967			
Total Ammonia-N	mg/L				<0.050	0.050	8740005			
Colour	TCU				13	2	8853515			
Conductivity	umho/cm				71	1.0	8740900			
Total Dissolved Solids	mg/L	85	10	8740452	75	10	8740452			
Fluoride (F-)	mg/L				<0.10	0.10	8740894			
Dissolved Organic Carbon	mg/L				3.5	0.40	8740568			
Dissolved Orthophosphate (P)	mg/L				<0.010	0.010	8853563			
pH	pH				7.43		8740901			
Total Phosphorus	mg/L				0.025	0.004	8748817			
Total Suspended Solids	mg/L				18	1	8741136			
Dissolved Sulphate (SO4)	mg/L				2.5	1.0	8740593			
Alkalinity (Total as CaCO3)	mg/L				32	1.0	8740899			
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	8740575			
Nitrite (N)	mg/L				<0.010	0.010	8740872	<0.010	0.010	8740872
Nitrate (N)	mg/L				<0.10	0.10	8740872	<0.10	0.10	8740872
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	8740872	<0.10	0.10	8740872
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	8740482			
Metals										
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	8768628			
Total Yttrium (Y)	ug/L				<3.2	3.2	8768627			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC118			WDC118			WDC130		
Sampling Date		2023/06/15 06:30			2023/06/15 06:30			2023/06/07 18:00		
COC Number		937349-01-01			937349-01-01			937349-04-01		
	UNITS	BLANK	RDL	QC Batch	BLANK Lab-Dup	RDL	QC Batch	WC-10	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8739697				<0.061	0.061	8739697
Total Un-ionized Ammonia	mg/L							<0.00061	0.00061	8739702
Field Measurements										
Field Temperature	Celsius							16.32	N/A	ONSITE
Field Measured pH	pH							6.72		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8744967				<5.0	5.0	8744967
Total Ammonia-N	mg/L	<0.050	0.050	8740005				<0.050	0.050	8740005
Colour	TCU	<2	2	8853515				29	2	8853515
Conductivity	umho/cm	1.3	1.0	8740900				32	1.0	8740900
Total Dissolved Solids	mg/L	<10	10	8740452				70	10	8740452
Fluoride (F-)	mg/L	<0.10	0.10	8740894				<0.10	0.10	8740894
Dissolved Organic Carbon	mg/L	<0.40	0.40	8740552				5.0	0.40	8740568
Dissolved Orthophosphate (P)	mg/L	<0.010	0.010	8853563	<0.010	0.010	8853563	<0.010	0.010	8853563
pH	pH	5.71		8740901				7.15		8740901
Total Phosphorus	mg/L	<0.004	0.004	8748817				0.006	0.004	8748817
Total Suspended Solids	mg/L	<1	1	8741136				2	1	8738620
Dissolved Sulphate (SO4)	mg/L	<1.0	1.0	8740593				1.9	1.0	8740600
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	8740899				12	1.0	8740899
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8740575				<1.0	1.0	8740611
Nitrite (N)	mg/L	<0.010	0.010	8740872				<0.010	0.010	8740872
Nitrate (N)	mg/L	<0.10	0.10	8740872				<0.10	0.10	8740872
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8740872				<0.10	0.10	8740872
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8740482				<1.0	1.0	8740482
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8768628				<2.0	2.0	8768628
Total Yttrium (Y)	ug/L	<3.2	3.2	8768627				<3.2	3.2	8768627

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC130			WDC131			WDC132		
Sampling Date		2023/06/07 18:00			2023/06/08 15:30			2023/06/09 12:00		
COC Number		937349-04-01			937349-04-01			937349-04-01		
	UNITS	WC-10 Lab-Dup	RDL	QC Batch	WC-9	RDL	QC Batch	WC-08	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L				<0.061	0.061	8739697	<0.061	0.061	8739697
Total Un-ionized Ammonia	mg/L				<0.0016	0.0016	8739702	<0.003	0.003	8739702
Field Measurements										
Field Temperature	Celsius				9.76	N/A	ONSITE	12.01	N/A	ONSITE
Field Measured pH	pH				8.18		ONSITE	8.38		ONSITE
Inorganics										
Acidity	mg/L				<5.0	5.0	8744967	<5.0	5.0	8747371
Total Ammonia-N	mg/L	<0.050	0.050	8740005	<0.050	0.050	8740005	<0.050	0.050	8740005
Colour	TCU				15	2	8853515	9	2	8853515
Conductivity	umho/cm				69	1.0	8740900	95	1.0	8740900
Total Dissolved Solids	mg/L				75	10	8740452	105	10	8740452
Fluoride (F-)	mg/L				<0.10	0.10	8740894	<0.10	0.10	8740894
Dissolved Organic Carbon	mg/L				3.4	0.40	8740552	3.2	0.40	8740552
Dissolved Orthophosphate (P)	mg/L				<0.010	0.010	8853563	<0.010	0.010	8853563
pH	pH				7.54		8740901	7.71		8740901
Total Phosphorus	mg/L				<0.004	0.004	8748817	<0.004	0.004	8748817
Total Suspended Solids	mg/L				1	1	8741136	<1	1	8738620
Dissolved Sulphate (SO4)	mg/L				3.2	1.0	8740600	2.7	1.0	8740600
Alkalinity (Total as CaCO3)	mg/L				32	1.0	8740899	46	1.0	8740899
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	8740611	<1.0	1.0	8740611
Nitrite (N)	mg/L				<0.010	0.010	8740872	<0.010	0.010	8740872
Nitrate (N)	mg/L				<0.10	0.10	8740872	<0.10	0.10	8740872
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	8740872	<0.10	0.10	8740872
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	8740482	<1.0	1.0	8740482
Metals										
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	8768628	<2.0	2.0	8768628
Total Yttrium (Y)	ug/L				<3.2	3.2	8768627	<3.2	3.2	8768627

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC132			WDC133			WDC134		
Sampling Date		2023/06/09 12:00			2023/06/09 15:00			2023/06/10 12:00		
COC Number		937349-04-01			937349-04-01			937349-04-01		
	UNITS	WC-08 Lab-Dup	RDL	QC Batch	WC-07	RDL	QC Batch	WC-06	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L				<0.061	0.061	8739697	<0.061	0.061	8739697
Total Un-ionized Ammonia	mg/L				<0.0009	0.0009	8739702	<0.00061	0.00061	8739702
Field Measurements										
Field Temperature	Celsius				18.67	N/A	ONSITE	14.67	N/A	ONSITE
Field Measured pH	pH				7.62		ONSITE	7.31		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8747371	<5.0	5.0	8744967	<5.0	5.0	8744967
Total Ammonia-N	mg/L				<0.050	0.050	8740005	<0.050	0.050	8740005
Colour	TCU				24	2	8853515	16	2	8853515
Conductivity	umho/cm				92	1.0	8740900	130	1.0	8740900
Total Dissolved Solids	mg/L				70	10	8740452	115	10	8740452
Fluoride (F-)	mg/L				<0.10	0.10	8740894	<0.10	0.10	8740894
Dissolved Organic Carbon	mg/L				5.2	0.40	8740552	3.9	0.40	8740568
Dissolved Orthophosphate (P)	mg/L				<0.010	0.010	8853563	<0.010	0.010	8853563
pH	pH				7.69		8740901	7.82		8740901
Total Phosphorus	mg/L				<0.004	0.004	8748817	<0.004	0.004	8748817
Total Suspended Solids	mg/L				<1	1	8741136	<1	1	8741136
Dissolved Sulphate (SO4)	mg/L				1.7	1.0	8740593	3.3	1.0	8740593
Alkalinity (Total as CaCO3)	mg/L				45	1.0	8740899	64	1.0	8740899
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	8740575	<1.0	1.0	8740575
Nitrite (N)	mg/L				<0.010	0.010	8740872	<0.010	0.010	8740868
Nitrate (N)	mg/L				<0.10	0.10	8740872	<0.10	0.10	8740868
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	8740872	<0.10	0.10	8740868
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	8742958	<1.0	1.0	8740482
Metals										
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	8768628	<2.0	2.0	8768628
Total Yttrium (Y)	ug/L				<3.2	3.2	8768627	<3.2	3.2	8768627

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC135			WDC136			WDC136		
Sampling Date		2023/06/10 16:00			2023/06/12 12:30			2023/06/12 12:30		
COC Number		937349-04-01			937349-04-01			937349-04-01		
	UNITS	WC-05	RDL	QC Batch	WC-01	RDL	QC Batch	WC-01 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8739697	<0.061	0.061	8739697			
Total Un-ionized Ammonia	mg/L	<0.004	0.004	8739702	<0.00061	0.00061	8739702			
Field Measurements										
Field Temperature	Celsius	24.30	N/A	ONSITE	22.46	N/A	ONSITE			
Field Measured pH	pH	8.11		ONSITE	7.19		ONSITE			
Inorganics										
Acidity	mg/L	<5.0	5.0	8744967	<5.0	5.0	8747371			
Total Ammonia-N	mg/L	<0.050	0.050	8740005	<0.050	0.050	8740005			
Colour	TCU	11	2	8853515	13	2	8853515			
Conductivity	umho/cm	110	1.0	8740900	100	1.0	8740900			
Total Dissolved Solids	mg/L	85	10	8740452	95	10	8740452			
Fluoride (F-)	mg/L	<0.10	0.10	8740894	<0.10	0.10	8740894			
Dissolved Organic Carbon	mg/L	3.0	0.40	8740552	4.0	0.40	8740568			
Dissolved Orthophosphate (P)	mg/L	<0.010	0.010	8853563	<0.010	0.010	8853563			
pH	pH	7.77		8740901	7.49		8740901			
Total Phosphorus	mg/L	0.004	0.004	8748817	0.008	0.004	8748817	0.010	0.004	8748817
Total Suspended Solids	mg/L	2	1	8741136	2	1	8738620			
Dissolved Sulphate (SO4)	mg/L	3.8	1.0	8740600	4.2	1.0	8740593			
Alkalinity (Total as CaCO3)	mg/L	52	1.0	8740899	45	1.0	8740899			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8740611	<1.0	1.0	8740575			
Nitrite (N)	mg/L	<0.010	0.010	8740872	<0.010	0.010	8740872			
Nitrate (N)	mg/L	<0.10	0.10	8740872	<0.10	0.10	8740872			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8740872	<0.10	0.10	8740872			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8740468	<1.0	1.0	8740482			
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8768628	<2.0	2.0	8768628			
Total Yttrium (Y)	ug/L	<3.2	3.2	8768627	<3.2	3.2	8768627			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WDC137			WDC138			WDC139		
Sampling Date		2023/06/12 15:00			2023/06/12 16:30			2023/06/12 17:00		
COC Number		937349-04-01			937349-04-01			937349-04-01		
	UNITS	WC-02	RDL	QC Batch	PL-02 NS	RDL	QC Batch	PL-02 NB	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8739697	<0.061	0.061	8739697	<0.061	0.061	8739697
Total Un-ionized Ammonia	mg/L	<0.0006	0.0006	8739702	<0.003	0.003	8739702	<0.002	0.002	8739702
Field Measurements										
Field Temperature	Celsius	20.40	N/A	ONSITE	25.07	N/A	ONSITE	18.63	N/A	ONSITE
Field Measured pH	pH	7.39		ONSITE	7.95		ONSITE	7.97		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8744967	<5.0	5.0	8744967	<5.0	5.0	8747371
Total Ammonia-N	mg/L	<0.050	0.050	8740005	<0.050	0.050	8740005	<0.050	0.050	8740005
Colour	TCU	16	2	8853515	16	2	8853515	16	2	8853515
Conductivity	umho/cm	70	1.0	8740900	71	1.0	8740900	72	1.0	8740900
Total Dissolved Solids	mg/L	85	10	8740452	95	10	8740452	75	10	8740452
Fluoride (F-)	mg/L	<0.10	0.10	8740894	<0.10	0.10	8740894	<0.10	0.10	8740894
Dissolved Organic Carbon	mg/L	3.9	0.40	8740552	4.9	0.40	8740568	3.9	0.40	8740552
Dissolved Orthophosphate (P)	mg/L	<0.010	0.010	8853563	<0.010	0.010	8853563	<0.010	0.010	8853563
pH	pH	7.54		8740901	7.54		8740901	7.53		8740901
Total Phosphorus	mg/L	<0.004	0.004	8748817	<0.004	0.004	8748817	0.004	0.004	8748817
Total Suspended Solids	mg/L	1	1	8738620	1	1	8741136	1	1	8738620
Dissolved Sulphate (SO4)	mg/L	3.7	1.0	8740600	3.0	1.0	8740593	3.8	1.0	8740600
Alkalinity (Total as CaCO3)	mg/L	32	1.0	8740899	32	1.0	8740899	32	1.0	8740899
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8740611	<1.0	1.0	8740575	<1.0	1.0	8740611
Nitrite (N)	mg/L	<0.010	0.010	8740872	<0.010	0.010	8740865	<0.010	0.010	8740872
Nitrate (N)	mg/L	<0.10	0.10	8740872	<0.10	0.10	8740865	<0.10	0.10	8740872
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8740872	<0.10	0.10	8740865	<0.10	0.10	8740872
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8740482	<1.0	1.0	8740482	<1.0	1.0	8740482
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8768628	<2.0	2.0	8768628	<2.0	2.0	8768628
Total Yttrium (Y)	ug/L	<3.2	3.2	8768627	<3.2	3.2	8768627	<3.2	3.2	8768627

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WDC110	WDC111			WDC111			WDC112		
Sampling Date		2023/06/13 13:15	2023/06/13 18:00			2023/06/13 18:00			2023/06/14 09:00		
COC Number		937349-01-01	937349-01-01			937349-01-01			937349-01-01		
	UNITS	WC-04	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch	MIL-02 NS	RDL	QC Batch
Metals											
Mercury (Hg)	ug/L	<0.01	<0.01	0.01	8748146				<0.01	0.01	8751330
Dissolved Mercury (Hg)	ug/L	<0.01	<0.01	0.01	8751331	<0.01	0.01	8751331	<0.01	0.01	8751331

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		WDC113			WDC114			WDC115		
Sampling Date		2023/06/14 09:30			2023/06/14			2023/06/14 16:00		
COC Number		937349-01-01			937349-01-01			937349-01-01		
	UNITS	MIL-02 NB	RDL	QC Batch	DUP	RDL	QC Batch	WC-12	RDL	QC Batch
Metals										
Mercury (Hg)	ug/L	<0.01	0.01	8748146	<0.01	0.01	8748146	<0.01	0.01	8751330
Dissolved Mercury (Hg)	ug/L	<0.01	0.01	8751331				<0.01	0.01	8751331

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		WDC116		WDC117		WDC118	WDC130	WDC131		
Sampling Date		2023/06/15 06:00		2023/06/15 06:15		2023/06/15 06:30	2023/06/07 18:00	2023/06/08 15:30		
COC Number		937349-01-01		937349-01-01		937349-01-01	937349-04-01	937349-04-01		
	UNITS	LL-02 NS	QC Batch	LL-02NB	QC Batch	BLANK	WC-10	WC-9	RDL	QC Batch
Metals										
Mercury (Hg)	ug/L	<0.01	8748146	<0.01	8748146	<0.01	<0.01	<0.01	0.01	8748146
Dissolved Mercury (Hg)	ug/L	<0.01	8751331	<0.01	8748151	<0.01	<0.01	<0.01	0.01	8751331

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		WDC132		WDC133		WDC134			WDC134		
Sampling Date		2023/06/09 12:00		2023/06/09 15:00		2023/06/10 12:00			2023/06/10 12:00		
COC Number		937349-04-01		937349-04-01		937349-04-01			937349-04-01		
	UNITS	WC-08	QC Batch	WC-07	QC Batch	WC-06	RDL	QC Batch	WC-06 Lab-Dup	RDL	QC Batch
Metals											
Mercury (Hg)	ug/L	<0.01	8748146	<0.01	8751280	<0.01	0.01	8748146	<0.01	0.01	8748146
Dissolved Mercury (Hg)	ug/L	<0.01	8751331	<0.01	8751331	<0.01	0.01	8751331			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WDC135	WDC136	WDC137		WDC138		WDC139		
Sampling Date		2023/06/10 16:00	2023/06/12 12:30	2023/06/12 15:00		2023/06/12 16:30		2023/06/12 17:00		
COC Number		937349-04-01	937349-04-01	937349-04-01		937349-04-01		937349-04-01		
	UNITS	**WC-05**	**WC-01**	**WC-02**	**QC Batch**	**PL-02 NS**	**QC Batch**	**PL-02 NB**	**RDL**	**QC Batch**
Metals										
Mercury (Hg)	ug/L	<0.01	<0.01	<0.01	8748146	<0.01	8748146	<0.01	0.01	8751330
Dissolved Mercury (Hg)	ug/L	<0.01	<0.01	<0.01	8751331	<0.01	8748151	<0.01	0.01	8751331

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC110
Sample ID: WC-04
Matrix: Water

Collected: 2023/06/13
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740485	N/A	2023/06/21	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8738620	2023/06/20	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC110 Dup
Sample ID: WC-04
Matrix: Water

Collected: 2023/06/13
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	8740485	N/A	2023/06/21	Lusine Khachatryan

Bureau Veritas ID: WDC111
Sample ID: WC-03
Matrix: Water

Collected: 2023/06/13
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8749247	N/A	2023/06/23	Kien Tran

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC111
Sample ID: WC-03
Matrix: Water

Collected: 2023/06/13
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	8740468	N/A	2023/06/21	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740575	N/A	2023/06/21	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8749256	N/A	2023/06/23	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8749226	2023/06/23	2023/06/23	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8749259	2023/06/23	2023/06/23	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740593	N/A	2023/06/21	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC111 Dup
Sample ID: WC-03
Matrix: Water

Collected: 2023/06/13
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8749247	N/A	2023/06/23	Kien Tran
Conductivity	AT	8749256	N/A	2023/06/23	Kien Tran
Fluoride	ISE	8749226	2023/06/23	2023/06/23	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
pH	AT	8749259	2023/06/23	2023/06/23	Kien Tran

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC112
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2023/06/14
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8751330	2023/06/25	2023/06/26	Japneet Gill
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC112 Dup
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2023/06/14
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu

Bureau Veritas ID: WDC113
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2023/06/14
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC113 **Collected:** 2023/06/14
Sample ID: MIL-02 NB **Shipped:**
Matrix: Water **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC113 Dup **Collected:** 2023/06/14
Sample ID: MIL-02 NB **Shipped:**
Matrix: Water **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau

Bureau Veritas ID: WDC114 **Collected:** 2023/06/14
Sample ID: DUP **Shipped:**
Matrix: Water **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC114
Sample ID: DUP
Matrix: Water

Collected: 2023/06/14
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8738620	2023/06/20	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC115
Sample ID: WC-12
Matrix: Water

Collected: 2023/06/14
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740575	N/A	2023/06/21	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8751330	2023/06/25	2023/06/26	Japneet Gill
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC115
Sample ID: WC-12
Matrix: Water

Collected: 2023/06/14
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740865	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740593	N/A	2023/06/21	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC115 Dup
Sample ID: WC-12
Matrix: Water

Collected: 2023/06/14
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall

Bureau Veritas ID: WDC116
Sample ID: LL-02 NS
Matrix: Water

Collected: 2023/06/15
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC116
Sample ID: LL-02 NS
Matrix: Water

Collected: 2023/06/15
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by CRC ICPMS (dissolved)	ICP/MS	8773736	N/A	2023/07/06	Megan Mak
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8738620	2023/06/20	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC116 Dup
Sample ID: LL-02 NS
Matrix: Water

Collected: 2023/06/15
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh

Bureau Veritas ID: WDC117
Sample ID: LL-02NB
Matrix: Water

Collected: 2023/06/15
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740575	N/A	2023/06/21	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8748151	2023/06/23	2023/06/23	Jaswinder Kaur
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC117
Sample ID: LL-02NB
Matrix: Water

Collected: 2023/06/15
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740593	N/A	2023/06/21	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC117 Dup
Sample ID: LL-02NB
Matrix: Water

Collected: 2023/06/15
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal

Bureau Veritas ID: WDC118
Sample ID: BLANK
Matrix: Water

Collected: 2023/06/15
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740575	N/A	2023/06/21	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC118 **Collected:** 2023/06/15
Sample ID: BLANK **Shipped:**
Matrix: Water **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740593	N/A	2023/06/21	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall

Bureau Veritas ID: WDC118 Dup **Collected:** 2023/06/15
Sample ID: BLANK **Shipped:**
Matrix: Water **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu

Bureau Veritas ID: WDC130 **Collected:** 2023/06/07
Sample ID: WC-10 **Shipped:**
Matrix: Water **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC130
Sample ID: WC-10
Matrix: Water

Collected: 2023/06/07
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/26	Sachi Patel
Low Level Total Suspended Solids	BAL	8738620	2023/06/20	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/29	2023/06/29	Automated Statchk

Bureau Veritas ID: WDC130 Dup
Sample ID: WC-10
Matrix: Water

Collected: 2023/06/07
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur

Bureau Veritas ID: WDC131
Sample ID: WC-9
Matrix: Water

Collected: 2023/06/08
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6836
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: WDC131
Sample ID: WC-9
Matrix: Water

Collected: 2023/06/08
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/26	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/29	2023/06/29	Automated Statchk

Bureau Veritas ID: WDC132
Sample ID: WC-08
Matrix: Water

Collected: 2023/06/09
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8747371	N/A	2023/06/23	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/26	Sachi Patel
Low Level Total Suspended Solids	BAL	8738620	2023/06/20	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/29	2023/06/29	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC132 Dup
Sample ID: WC-08
Matrix: Water

Collected: 2023/06/09
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8747371	N/A	2023/06/23	Brent Boudreau

Bureau Veritas ID: WDC133
Sample ID: WC-07
Matrix: Water

Collected: 2023/06/09
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8742958	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740575	N/A	2023/06/21	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8751280	2023/06/25	2023/06/26	Japneet Gill
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740593	N/A	2023/06/21	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/29	2023/06/29	Automated Statchk

Bureau Veritas ID: WDC134
Sample ID: WC-06
Matrix: Water

Collected: 2023/06/10
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC134
Sample ID: WC-06
Matrix: Water

Collected: 2023/06/10
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740575	N/A	2023/06/21	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740868	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740593	N/A	2023/06/21	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/29	2023/06/29	Automated Statchk

Bureau Veritas ID: WDC134 Dup
Sample ID: WC-06
Matrix: Water

Collected: 2023/06/10
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur

Bureau Veritas ID: WDC135
Sample ID: WC-05
Matrix: Water

Collected: 2023/06/10
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740468	N/A	2023/06/21	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC135
Sample ID: WC-05
Matrix: Water

Collected: 2023/06/10
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/29	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/29	2023/06/29	Automated Statchk

Bureau Veritas ID: WDC136
Sample ID: WC-01
Matrix: Water

Collected: 2023/06/12
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8747371	N/A	2023/06/23	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740575	N/A	2023/06/21	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC136
Sample ID: WC-01
Matrix: Water

Collected: 2023/06/12
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740593	N/A	2023/06/21	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/26	Sachi Patel
Low Level Total Suspended Solids	BAL	8738620	2023/06/20	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC136 Dup
Sample ID: WC-01
Matrix: Water

Collected: 2023/06/12
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/26	Sachi Patel

Bureau Veritas ID: WDC137
Sample ID: WC-02
Matrix: Water

Collected: 2023/06/12
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC137
Sample ID: WC-02
Matrix: Water

Collected: 2023/06/12
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8738620	2023/06/20	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC138
Sample ID: PL-02 NS
Matrix: Water

Collected: 2023/06/12
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8744967	N/A	2023/06/22	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740575	N/A	2023/06/21	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740568	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8748151	2023/06/23	2023/06/23	Jaswinder Kaur
Mercury (low level)	CV/AA	8748146	2023/06/23	2023/06/23	Jaswinder Kaur
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740865	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDC138
Sample ID: PL-02 NS
Matrix: Water

Collected: 2023/06/12
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sulphate by Automated Turbidimetry	SKAL	8740593	N/A	2023/06/21	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8741136	2023/06/21	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

Bureau Veritas ID: WDC139
Sample ID: PL-02 NB
Matrix: Water

Collected: 2023/06/12
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8747371	N/A	2023/06/23	Brent Boudreau
Alkalinity	AT	8740899	N/A	2023/06/21	Kien Tran
Anions	IC	8740482	N/A	2023/06/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8740611	N/A	2023/06/22	Alina Dobreanu
Colour	SPEC	8853515	N/A	2023/08/15	Viorica Rotaru
Conductivity	AT	8740900	N/A	2023/06/21	Kien Tran
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8740552	N/A	2023/06/21	Gyulshen Idriz
Fluoride	ISE	8740894	2023/06/20	2023/06/21	Kien Tran
Dissolved Mercury (low level)	CV/AA	8751331	2023/06/25	2023/06/26	Japneet Gill
Mercury (low level)	CV/AA	8751330	2023/06/25	2023/06/26	Japneet Gill
Hardness Total (calculated as CaCO3)	CALC	8773732	N/A	2023/07/05	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8773731	N/A	2023/06/23	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8773734	N/A	2023/06/23	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8773735	N/A	2023/06/23	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	8768627	2023/06/28	2023/06/30	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	8768628	N/A	2023/06/30	Darya Mitrofanova
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8773733	2023/07/05	2023/07/05	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8770053	2023/07/01	2023/07/04	Andrew An
Total Ammonia (as NH3)	CALC	8739697	N/A	2023/06/22	Automated Statchk
Total Ammonia-N	SKAL/NH4	8740005	N/A	2023/06/22	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8740872	N/A	2023/06/21	Chandra Nandlal
pH	AT	8740901	2023/06/20	2023/06/21	Kien Tran
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Dissolved Orthophosphate	SKAL	8853563	N/A	2023/08/16	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8740600	N/A	2023/06/22	Alina Dobreanu
Total Dissolved Solids	BAL	8740452	2023/06/20	2023/06/21	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/06/30	Babandeep Kaur
Total Phosphorus (Colourimetric)	SKAL/P	8748817	2023/06/23	2023/06/27	Sachi Patel
Low Level Total Suspended Solids	BAL	8738620	2023/06/20	2023/06/21	Shaneil Hall
Un-ionized Ammonia	CALC/NH3	8739702	2023/06/30	2023/06/30	Automated Statchk

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C
Package 2	5.3°C
Package 3	3.0°C
Package 4	4.0°C
Package 5	0.7°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

Revised Report [2023/08/17]: Colour and Dissolved Orthophosphate analyzed past hold time for all samples as per client request.

Sample WDC118 [BLANK] : Acidity sample contained headspace.

Sample WDC130 [WC-10] : Acidity: Sample integrity may have been compromised, sample exceeded it's hold time prior to being analyzed.

Sample WDC116, Elements by CRC ICPMS (dissolved): Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8738620	Total Suspended Solids	2023/06/21			98	80 - 120	<1	mg/L	14	20		
8740005	Total Ammonia-N	2023/06/22	99	75 - 125	103	80 - 120	<0.050	mg/L	NC	20		
8740452	Total Dissolved Solids	2023/06/21			102	80 - 120	<10	mg/L	11	20		
8740468	Dissolved Bromide (Br-)	2023/06/21	102	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
8740482	Dissolved Bromide (Br-)	2023/06/22	102	80 - 120	102	80 - 120	<1.0	mg/L				
8740485	Dissolved Bromide (Br-)	2023/06/21	102	80 - 120	103	80 - 120	<1.0	mg/L	NC	20		
8740552	Dissolved Organic Carbon	2023/06/21	96	80 - 120	96	80 - 120	<0.40	mg/L	0.52	20		
8740568	Dissolved Organic Carbon	2023/06/21	97	80 - 120	99	80 - 120	<0.40	mg/L	0.62	20		
8740575	Dissolved Chloride (Cl-)	2023/06/21	NC	80 - 120	94	80 - 120	<1.0	mg/L	20	20		
8740593	Dissolved Sulphate (SO4)	2023/06/21	NC	75 - 125	92	80 - 120	<1.0	mg/L	8.2	20		
8740600	Dissolved Sulphate (SO4)	2023/06/22	86	75 - 125	94	80 - 120	<1.0	mg/L	2.6	20		
8740611	Dissolved Chloride (Cl-)	2023/06/22	78 (1)	80 - 120	92	80 - 120	<1.0	mg/L	NC	20		
8740865	Nitrate (N)	2023/06/21	NC	80 - 120	108	80 - 120	<0.10	mg/L	1.9	20		
8740865	Nitrite (N)	2023/06/21	NC	80 - 120	108	80 - 120	<0.010	mg/L	0.96	20		
8740868	Nitrate (N)	2023/06/21	104	80 - 120	107	80 - 120	<0.10	mg/L	NC	20		
8740868	Nitrite (N)	2023/06/21	104	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
8740872	Nitrate (N)	2023/06/21	105	80 - 120	107	80 - 120	<0.10	mg/L	NC	20		
8740872	Nitrite (N)	2023/06/21	105	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
8740894	Fluoride (F-)	2023/06/21	108	80 - 120	103	80 - 120	<0.10	mg/L	0.92	20		
8740899	Alkalinity (Total as CaCO3)	2023/06/21			96	85 - 115	<1.0	mg/L	1.5	20		
8740900	Conductivity	2023/06/21			100	85 - 115	<1.0	umho/cm	0	10		
8740901	pH	2023/06/21			102	98 - 103			0.46	N/A		
8741136	Total Suspended Solids	2023/06/21			95	80 - 120	<1	mg/L	NC	20		
8742958	Dissolved Bromide (Br-)	2023/06/22	102	80 - 120	102	80 - 120	<1.0	mg/L				
8744967	Acidity	2023/06/22	91	80 - 120	101	80 - 120	<5.0	mg/L	NC	25		
8747371	Acidity	2023/06/23	89	80 - 120	102	80 - 120	<5.0	mg/L	NC	25		
8748146	Mercury (Hg)	2023/06/23	102	75 - 125	101	80 - 120	<0.01	ug/L	NC	20		
8748151	Dissolved Mercury (Hg)	2023/06/23	95	75 - 125	99	80 - 120	<0.01	ug/L	NC	20		
8748817	Total Phosphorus	2023/06/26	114	80 - 120	102	80 - 120	<0.004	mg/L	18	20	109	80 - 120
8749226	Fluoride (F-)	2023/06/23	99	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8749247	Alkalinity (Total as CaCO3)	2023/06/23			92	85 - 115	<1.0	mg/L	0.17	20		
8749256	Conductivity	2023/06/23			101	85 - 115	<1.0	umho/cm	0.32	10		
8749259	pH	2023/06/23			101	98 - 103			0.60	N/A		
8751280	Mercury (Hg)	2023/06/26	96	75 - 125	100	80 - 120	<0.01	ug/L	NC	20		
8751330	Mercury (Hg)	2023/06/26	97	75 - 125	95	80 - 120	<0.01	ug/L	NC	20		
8751331	Dissolved Mercury (Hg)	2023/06/26	96	75 - 125	99	80 - 120	<0.01	ug/L	NC	20		
8768627	Total Yttrium (Y)	2023/06/30			102	80 - 120	<2.0	ug/L				
8768628	Dissolved Yttrium (Y)	2023/06/30			99	80 - 120	<2.0	ug/L				
8770053	Total Aluminum (Al)	2023/07/04	95	80 - 120	95	80 - 120	<3.0	ug/L	2.4	20		
8770053	Total Antimony (Sb)	2023/07/04	107	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
8770053	Total Arsenic (As)	2023/07/04	105	80 - 120	102	80 - 120	<0.10	ug/L	1.1	20		
8770053	Total Barium (Ba)	2023/07/04	104	80 - 120	101	80 - 120	<1.0	ug/L	0.42	20		
8770053	Total Beryllium (Be)	2023/07/04	98	80 - 120	98	80 - 120	<0.10	ug/L	NC	20		
8770053	Total Bismuth (Bi)	2023/07/04	98	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8770053	Total Boron (B)	2023/07/04	98	80 - 120	97	80 - 120	<50	ug/L	NC	20		
8770053	Total Cadmium (Cd)	2023/07/04	102	80 - 120	100	80 - 120	<0.010	ug/L	NC	20		
8770053	Total Calcium (Ca)	2023/07/04	NC	80 - 120	98	80 - 120	<50	ug/L				
8770053	Total Chromium (Cr)	2023/07/04	96	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
8770053	Total Cobalt (Co)	2023/07/04	101	80 - 120	102	80 - 120	<0.20	ug/L	NC	20		
8770053	Total Copper (Cu)	2023/07/04	94	80 - 120	95	80 - 120	<0.50	ug/L	2.2	20		
8770053	Total Iron (Fe)	2023/07/04	103	80 - 120	100	80 - 120	<10	ug/L	1.4	20		
8770053	Total Lead (Pb)	2023/07/04	99	80 - 120	99	80 - 120	<0.20	ug/L	NC	20		
8770053	Total Lithium (Li)	2023/07/04	95	80 - 120	96	80 - 120	<2.0	ug/L	3.2	20		
8770053	Total Magnesium (Mg)	2023/07/04	93	80 - 120	92	80 - 120	<50	ug/L				
8770053	Total Manganese (Mn)	2023/07/04	97	80 - 120	99	80 - 120	<1.0	ug/L	0.74	20		
8770053	Total Molybdenum (Mo)	2023/07/04	106	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
8770053	Total Nickel (Ni)	2023/07/04	98	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8770053	Total Potassium (K)	2023/07/04	102	80 - 120	103	80 - 120	<50	ug/L				
8770053	Total Selenium (Se)	2023/07/04	102	80 - 120	103	80 - 120	<0.10	ug/L	NC	20		
8770053	Total Silicon (Si)	2023/07/04	106	80 - 120	104	80 - 120	<100	ug/L	0.64	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8770053	Total Silver (Ag)	2023/07/04	102	80 - 120	100	80 - 120	<0.020	ug/L	NC	20		
8770053	Total Sodium (Na)	2023/07/04	NC	80 - 120	99	80 - 120	<50	ug/L				
8770053	Total Strontium (Sr)	2023/07/04	NC	80 - 120	99	80 - 120	<1.0	ug/L	1.8	20		
8770053	Total Thallium (Tl)	2023/07/04	102	80 - 120	101	80 - 120	<0.010	ug/L	NC	20		
8770053	Total Thorium (Th)	2023/07/04	102	80 - 120	100	80 - 120	<1.0	ug/L				
8770053	Total Tin (Sn)	2023/07/04	106	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
8770053	Total Titanium (Ti)	2023/07/04	102	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
8770053	Total Tungsten (W)	2023/07/04	105	80 - 120	104	80 - 120	<1.0	ug/L				
8770053	Total Uranium (U)	2023/07/04	104	80 - 120	103	80 - 120	<0.10	ug/L	NC	20		
8770053	Total Vanadium (V)	2023/07/04	98	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
8770053	Total Zinc (Zn)	2023/07/04	98	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
8773735	Dissolved Aluminum (Al)	2023/06/23	98	80 - 120	102	80 - 120	<3.0	ug/L				
8773735	Dissolved Antimony (Sb)	2023/06/23	104	80 - 120	106	80 - 120	<0.50	ug/L				
8773735	Dissolved Arsenic (As)	2023/06/23	102	80 - 120	103	80 - 120	<0.10	ug/L				
8773735	Dissolved Barium (Ba)	2023/06/23	98	80 - 120	103	80 - 120	<1.0	ug/L				
8773735	Dissolved Beryllium (Be)	2023/06/23	100	80 - 120	102	80 - 120	<0.10	ug/L				
8773735	Dissolved Bismuth (Bi)	2023/06/23	98	80 - 120	102	80 - 120	<1.0	ug/L				
8773735	Dissolved Boron (B)	2023/06/23	96	80 - 120	101	80 - 120	<50	ug/L				
8773735	Dissolved Cadmium (Cd)	2023/06/23	101	80 - 120	103	80 - 120	<0.010	ug/L				
8773735	Dissolved Calcium (Ca)	2023/06/23	NC	80 - 120	106	80 - 120	<50	ug/L				
8773735	Dissolved Chromium (Cr)	2023/06/23	97	80 - 120	102	80 - 120	<1.0	ug/L				
8773735	Dissolved Cobalt (Co)	2023/06/23	93	80 - 120	98	80 - 120	<0.20	ug/L				
8773735	Dissolved Copper (Cu)	2023/06/23	93	80 - 120	97	80 - 120	<0.20	ug/L				
8773735	Dissolved Iron (Fe)	2023/06/23	105	80 - 120	115	80 - 120	<5.0	ug/L				
8773735	Dissolved Lead (Pb)	2023/06/23	96	80 - 120	101	80 - 120	<0.20	ug/L				
8773735	Dissolved Lithium (Li)	2023/06/23	95	80 - 120	97	80 - 120	<2.0	ug/L				
8773735	Dissolved Magnesium (Mg)	2023/06/23	97	80 - 120	102	80 - 120	<50	ug/L				
8773735	Dissolved Manganese (Mn)	2023/06/23	96	80 - 120	101	80 - 120	<1.0	ug/L				
8773735	Dissolved Molybdenum (Mo)	2023/06/23	104	80 - 120	104	80 - 120	<1.0	ug/L				
8773735	Dissolved Nickel (Ni)	2023/06/23	96	80 - 120	101	80 - 120	<1.0	ug/L				
8773735	Dissolved Potassium (K)	2023/06/23	101	80 - 120	107	80 - 120	<50	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8773735	Dissolved Selenium (Se)	2023/06/23	105	80 - 120	105	80 - 120	<0.10	ug/L				
8773735	Dissolved Silicon (Si)	2023/06/23	106	80 - 120	112	80 - 120	<100	ug/L				
8773735	Dissolved Silver (Ag)	2023/06/23	102	80 - 120	103	80 - 120	<0.020	ug/L				
8773735	Dissolved Sodium (Na)	2023/06/23	101	80 - 120	105	80 - 120	<50	ug/L				
8773735	Dissolved Strontium (Sr)	2023/06/23	100	80 - 120	102	80 - 120	<1.0	ug/L				
8773735	Dissolved Thallium (Tl)	2023/06/23	97	80 - 120	102	80 - 120	<0.010	ug/L				
8773735	Dissolved Thorium (Th)	2023/06/23	101	80 - 120	106	80 - 120	<1.0	ug/L				
8773735	Dissolved Tin (Sn)	2023/06/23	102	80 - 120	104	80 - 120	<5.0	ug/L				
8773735	Dissolved Titanium (Ti)	2023/06/23	100	80 - 120	102	80 - 120	<5.0	ug/L				
8773735	Dissolved Tungsten (W)	2023/06/23	99	80 - 120	106	80 - 120	<1.0	ug/L				
8773735	Dissolved Uranium (U)	2023/06/23	101	80 - 120	106	80 - 120	<0.10	ug/L				
8773735	Dissolved Vanadium (V)	2023/06/23	98	80 - 120	101	80 - 120	<5.0	ug/L				
8773735	Dissolved Zinc (Zn)	2023/06/23	104	80 - 120	103	80 - 120	<5.0	ug/L				
8773736	Dissolved Copper (Cu)	2023/07/06			95	80 - 120	<0.20	ug/L				
8853515	Colour	2023/08/15			98	80 - 120	<2	TCU	2.7	25		
8853563	Dissolved Orthophosphate (P)	2023/08/16	95	75 - 125	96	80 - 120	<0.010	mg/L	NC	20		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

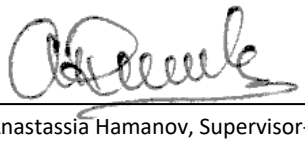
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

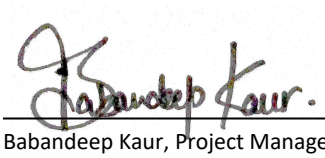
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



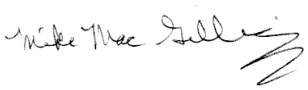
Anastassia Hamanov, Supervisor-Afternoon Shift



Babandeep Kaur, Project Manager

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist



Mike MacGillivray, Scientific Specialist (Inorganics)

Zineb El Ouali, Analyst 1

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VALIDATION SIGNATURE PAGE(CONT'D)

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Bureau Veritas Proprietary Software
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Automated Statchk

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BUREAU VERITAS

ADDITIONAL COOLER T

CHAIN-OF-CUS

16-Jun-23 19:09
Ankita Bhalla
C3H6836

URE ENV-1625

CHAIN OF CUSTODY #	
Page ___ of ___	937349-01-01
Page ___ of ___	937349-01-02
Page ___ of ___	937349-04-01
Page ___ of ___	937344-02-02
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Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

	YES	NO	COOLER ID			
CUSTODY SEAL			1			
PRESENT	✓		TEMP	6	5	2
INTACT	✓			1	2	3
ICE PRESENT	✓					
CUSTODY SEAL			2			
PRESENT	✓		TEMP	5	7	4
INTACT	✓			1	2	3
ICE PRESENT	✓					
CUSTODY SEAL			3			
PRESENT	✓		TEMP	4	4	1
INTACT	✓			1	2	3
ICE PRESENT	✓					
CUSTODY SEAL			4			
PRESENT	✓		TEMP	4	3	5
INTACT	✓			1	2	3
ICE PRESENT	✓					
CUSTODY SEAL			5			
PRESENT	✓		TEMP	1	1	0
INTACT	✓			1	2	3
ICE PRESENT	✓					
CUSTODY SEAL						
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL						
PRESENT			TEMP			
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PRESENT			TEMP			
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CUSTODY SEAL						
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ICE PRESENT						
CUSTODY SEAL						
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

BV JC

	YES	NO	COOLER ID			
CUSTODY SEAL						
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL						
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL						
PRESENT			TEMP			
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ICE PRESENT						
CUSTODY SEAL						
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
	RAJ MASANI	2023/06/16	1909

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Page of

16-Jun-23 19:09
Ankita Bhalla
C3H6836

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Only:
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:		937349
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500 URE ENV-1625	COC #:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		Project Manager:
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com, brian.lingelbach@ws	Site #:		C#937349-01-01
				Sampled By:	Michael Hildebrandt + Brian Lingelbach	Ankita Bhalla

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): pH/Alkalinity/Conductivity/Hardness	Total Dissolved Solids	Dissolved Organic Carbon (DOC)	Acidity (CaCO3) in water	NH3+NH4/Un-ionized ammonia	Anions(Fluoride/NO2/NO3/SO4/Cl/Br)	Total Extractable Lanthanides (Yttrium only)	Dissolved Lanthanides (Yttrium only)	Total ICPMS Metals for CCME CEQG for SW (select parameters)	Diss. ICPMS Metals for Federal Int. GWQG (select parameters)	# of Bottles	Comments
1		WC-04	2023/06/13	13:15	SW	x1 each	X	X	X	X	X	X	X	X	X	X	11	
2		WC-03	2023/06/13	18:00	SW	x1 each											11	
3		Mills LP 1m	2023/06/14	9:00	SW	x1 each											11	
4		Mills LP 20m	2023/06/14	9:30	SW	x1 each											11	
5		DUP	2023/06/14		SW	x1 metals											10	
6		Daviault-01	2023/06/14	16:00	SW	x1 each											11	
7		Long-02 1m	2023/06/15	6:00	SW	x1 each											11	
8		Long-02 28m	2023/06/15	6:15	SW	x1 each	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	11	
9		Blank	2023/06/15	6:30	SW	x1 each	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	11	
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/06/16	14:00	RAJ MASANI	2023/06/16	1900	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: Refer to MC1R
Custody Seal Present ☐ Intact ☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			937349
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#937349-01-02	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com, brian.lingelbach@ws	Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ___
- ☐ PWQO ☐ Reg 406 Table ___
- ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
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Regular (Standard) TAT: ☒
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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Low Level Total Suspended Solids	Total Phosphorus (Colourimetric)	Mercury (low level)	Dissolved Mercury (low level)						# of Bottles	Comments
1		WC - 04	2023/06/13	13:15	SW	x1 each	X	X	X	X						11	
2		WC - 03	2023/06/13	18:00	SW	x1 each			X	X						11	
3		Mills LP 1m	2023/06/14	9:00	SW	x1 each			X	X						11	
4		Mills LP 20m	2023/06/14	9:30	SW	x1 each			X	X						11	
5		DUP	2023/06/14		SW	x1 metals			X							10	
6		Dariault - 01	2023/06/14	16:00	SW	x1 each			X	X						11	
7		Long - 02 1m	2023/06/15	6:00	SW	x1 each			X	X						11	
8		Long - 02 28m	2023/06/15	6:15	SW	x1 each	↓	↓	X	X						11	
9		Blank	2023/06/15	6:30	SW	x1 each	↓	↓	X	X						11	
10																	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/06/16	19:00	RAJ MASANI	2023/06/16	1909	

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: Rafael 19 DCYR | Custody Seal: Present ☐ Yes ☐ No, Intact ☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #: 937349
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #: C#937349-04-01	Project Manager: Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com, brian.lingelbach@ws	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

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Special Instructions

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(will be applied if Rush TAT is not specified):
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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): pH/Alkalinity/Conductivity/Hardness	Total Dissolved Solids	Dissolved Organic Carbon (DOC)	Acidity (CaCO3) in water	NH3+NH4/Un-ionized ammonia	Anions(Fluoride/NO2/NO3/SO4/Cl/Br)	Total Extractable Lanthanides (Yttrium only)	Dissolved Lanthanides (Yttrium only)	Total ICPMS Metals for CCME CEQG (for SW (select parameters)	Diss. ICPMS Metals for Federal Int. GWQG (select parameters)	# of Bottles	Comments
1		WC-10	2023/06/07	18:00	SW	x1 each	X	X	X	X	X	X	X	X	X	X	11	
2		WC-9	2023/06/08	15:30	SW	x1 each												
3		WC-08	2023/06/09	12:00	SW	x1 each												
4		WC-07	2023/06/09	15:00	SW	x1 each												
5		WC-06	2023/06/10	12:00	SW	x1 each												
6		WC-05	2023/06/10	16:00	SW	x1 each												
7		WC-01	2023/06/12	12:30	SW	x1 each												
8		WC-02	2023/06/12	15:00	SW	x1 each												
9		Pike-02 1m	2023/06/12	16:30	SW	x1 each												
10		Pike-02 8m	2023/06/12	17:00	SW	x1 each												

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
Michael Hildebrandt	23/06/16	19:00	RAJ MASAN	2023/06/16	1909			Refer to ACTR	Present		
									Intact		

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			937349
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#937349-02-02	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com, brian.lingelbach@ws	Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Low Level Total Suspended Solids	Total Phosphorus (Colourimetric)	Mercury (low level)	Dissolved Mercury (low level)	# of Bottles	Comments
1		WC-10	2023/06/07	18:00	SW	x1 each	X	X	X	X	11	
2		WC-9	2023/06/08	15:30	SW	x1 each	↓	↓	↓	↓	↓	
3		WC-08	2023/06/09	12:00	SW	x1 each						
4		WC-07	2023/06/09	15:00	SW	x1 each						
5		WC-06	2023/06/10	12:00	SW	x1 each						
6		WC-05	2023/06/10	16:00	SW	x1 each						
7		WC-01	2023/06/12	12:30	SW	x1 each						
8		WC-02	2023/06/12	15:00	SW	x1 each						
9		Pike-02 1m	2023/06/12	16:30	SW	x1 each						
10		Pike-02 8m	2023/06/12	17:00	SW	x1 each	↓	↓	↓	↓		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/06/16	19:00	RAJ MASANI	2023/06/16	1909	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	REFRIGERATOR	Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your C.O.C. #: 945497-01-01

Attention: Samantha Pelayo Cazares

WSP Canada Inc.
100 Scotia Crt
Whitby, ON
CANADA L1N 8Y6

Report Date: 2024/11/12
Report #: R8401231
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3N9603
Received: 2023/08/09, 10:21

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity (CaCO3) in water (1)	8	N/A	2023/08/21	ATL SOP-00205	SM 24 2310B m
Alkalinity	1	N/A	2023/08/23	CAM SOP-00448	SM 23 2320 B m
Alkalinity	6	N/A	2023/08/26	CAM SOP-00448	SM 24 2320 B m
Alkalinity	1	N/A	2023/08/27	CAM SOP-00448	SM 24 2320 B m
Carbonate, Bicarbonate and Hydroxide	1	N/A	2023/08/23	CAM SOP-00102	APHA 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	7	N/A	2023/08/28	CAM SOP-00102	APHA 4500-CO2 D
Anions	1	N/A	2023/08/23	CAM SOP-00435	SM 23 4110 B m
Anions	5	N/A	2023/08/28	CAM SOP-00435	SM 23 4110 B m
Anions	2	N/A	2023/08/29	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	1	N/A	2023/08/23	CAM SOP-00463	SM 23 4500-Cl E m
Chloride by Automated Colourimetry	7	N/A	2023/08/28	CAM SOP-00463	SM 23 4500-Cl E m
Colour	8	N/A	2023/08/22	CAM SOP-00412	SM 23 2120C m
Conductivity	1	N/A	2023/08/23	CAM SOP-00414	SM 24 2510 m
Conductivity	6	N/A	2023/08/26	CAM SOP-00414	SM 24 2510 m
Conductivity	1	N/A	2023/08/27	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (3)	8	N/A	2023/08/22	CAM SOP-00446	SM 23 5310 B m
Fluoride	1	2023/08/22	2023/08/23	CAM SOP-00449	SM 24 4500-F C m
Fluoride	7	2023/08/26	2023/08/26	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	8	N/A	2023/08/23	CAM SOP 00102/00408/00447	SM 2340 B
Lab Filtered Metals by ICPMS	8	2023/08/22	2023/08/23	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	7	2023/08/22	2023/08/23	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	2023/08/23	2023/08/23	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	1	N/A	2023/08/23		
Ion Balance (% Difference)	7	N/A	2023/08/28		
Anion and Cation Sum	1	N/A	2023/08/23		
Anion and Cation Sum	7	N/A	2023/08/28		
Nitrate and Nitrite (2)	1	N/A	2023/08/31		
NO2 - NO2 + NO3 (N) in Water (2)	1	N/A	2023/08/27	AB SOP-00091	SM 24 4500 NO3m
Nitrate (as N) (2)	1	2023/08/28	2023/08/31	Auto Calc	Auto Calc
Total Ammonia-N	8	N/A	2023/08/23	CAM SOP-00441	USGS I-2522-90 m

Your C.O.C. #: 945497-01-01

Attention: Samantha Pelayo Cazares

WSP Canada Inc.
100 Scotia Crt
Whitby, ON
CANADA L1N 8Y6

Report Date: 2024/11/12
Report #: R8401231
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3N9603
Received: 2023/08/09, 10:21

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Nitrate & Nitrite as Nitrogen in Water (4)	7	N/A	2023/08/27	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (5)	1	2023/08/22	2023/08/23	CAM SOP-00413	SM 24th - 4500H+ B
pH (5)	2	2023/08/26	2023/08/26	CAM SOP-00413	SM 24th - 4500H+ B
pH (5)	4	2023/08/26	2023/08/26	CAM SOP-00413	SM 4500H+ B m
pH (5)	1	2023/08/26	2023/08/27	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	1	N/A	2023/08/23	CAM SOP-00461	SM 24 4500-P E
Orthophosphate	7	N/A	2023/08/28	CAM SOP-00461	SM 24 4500-P E
Salinity (1, 6)	8	N/A	2023/08/22		SM 24 2520B
Sat. pH and Langelier Index (@ 20C)	1	N/A	2023/08/23		Auto Calc
Sat. pH and Langelier Index (@ 20C)	7	N/A	2023/08/28		Auto Calc
Sat. pH and Langelier Index (@ 4C)	1	N/A	2023/08/23		Auto Calc
Sat. pH and Langelier Index (@ 4C)	7	N/A	2023/08/28		Auto Calc
Reactive Silica (1)	8	N/A	2023/08/24	ATL SOP 00022	EPA 366.0 m
Sulphate by Automated Turbidimetry	1	N/A	2023/08/23	CAM SOP-00464	SM 24 4500-SO42- E m
Sulphate by Automated Turbidimetry	7	N/A	2023/08/28	CAM SOP-00464	SM 24 4500-SO42- E m
Total Dissolved Solids (Filt. Residue) (1)	6	2023/08/11	2023/08/17	ATL SOP 00009	SM 23 2540C m
Total Dissolved Solids (Filt. Residue) (1)	2	2023/08/18	2023/08/23	ATL SOP 00009	SM 23 2540C m
Total Dissolved Solids (TDS calc)	1	N/A	2023/08/23		Auto Calc
Total Dissolved Solids (TDS calc)	7	N/A	2023/08/28		Auto Calc
Total Organic Carbon (TOC) (7)	1	N/A	2023/08/22	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (7)	7	N/A	2023/08/23	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	8	2023/08/22	2023/08/23	CAM SOP-00407	SM 23 4500-P I
Total Suspended Solids (1)	6	2023/08/10	2023/08/18	ATL SOP 00007	SM 24 2540D m
Total Suspended Solids (1)	2	2023/08/18	2023/08/18	ATL SOP 00007	SM 24 2540D m
Turbidity	1	N/A	2023/08/22	CAM SOP-00417	SM 23 2130 B m
Turbidity	7	N/A	2023/08/25	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

Your C.O.C. #: 945497-01-01

Attention: Samantha Pelayo Cazares

WSP Canada Inc.
100 Scotia Crt
Whitby, ON
CANADA L1N 8Y6

Report Date: 2024/11/12
Report #: R8401231
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3N9603
Received: 2023/08/09, 10:21

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(5) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

(6) Non-accredited test method
(7) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WQF985			WQF985			WQF986		
Sampling Date		2023/07/31			2023/07/31			2023/07/31		
COC Number		945497-01-01			945497-01-01			945497-01-01		
	UNITS	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch	MIL-02 NS	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L	0.650	N/A	8856923				0.766	N/A	8856923
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	30	1.0	8856683				35	1.0	8856683
Calculated TDS	mg/L	35	1.0	8856927				42	1.0	8856927
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	1.0	8856683				<1.0	1.0	8856683
Cation Sum	me/L	0.642	N/A	8856923				0.814	N/A	8856923
Hardness (CaCO3)	mg/L	29	1.0	8855623				38	1.0	8855623
Ion Balance (% Difference)	%	NC	N/A	8856922				NC	N/A	8856922
Langelier Index (@ 20C)	N/A	-1.55		8856924				-1.35		8856924
Langelier Index (@ 4C)	N/A	-1.80		8856925				-1.60		8856925
Saturation pH (@ 20C)	N/A	8.99		8856924				8.81		8856924
Saturation pH (@ 4C)	N/A	9.24		8856925				9.07		8856925
Inorganics										
Acidity	mg/L	<5.0	5.0	8865635				<5.0	5.0	8865635
Total Ammonia-N	mg/L	<0.050	0.050	8869353				<0.050	0.050	8869353
Colour	TCU	10	2	8868970	11	2	8868970	7	2	8868970
Conductivity	umho/cm	63	1.0	8879767				74	1.0	8879767
Total Dissolved Solids	mg/L	39	10	8868043				41	10	8868043
Fluoride (F-)	mg/L	<0.10	0.10	8879758				<0.10	0.10	8879758
Dissolved Organic Carbon	mg/L	3.2	0.40	8867112				3.2	0.40	8868900
Total Organic Carbon (TOC)	mg/L	4.3	0.40	8868697				4.3	0.40	8868697
Orthophosphate (P)	mg/L	<0.010	0.010	8879348				<0.010	0.010	8879348
pH	pH	7.44		8879782				7.46		8879782
Total Phosphorus	mg/L	<0.020	0.020	8868677				<0.020	0.020	8868677
Salinity	N/A	<2.0	2.0	8867632	<2.0	2.0	8867632	<2.0	2.0	8867632
Reactive Silica (SiO2)	mg/L	3.6	0.50	8871325				3.4	0.50	8871325
Total Suspended Solids	mg/L	<1.0	1.0	8861122				<1.0	1.0	8861122
Dissolved Sulphate (SO4)	mg/L	2.7	1.0	8879349				2.8	1.0	8879349
Turbidity	NTU	0.3	0.1	8877968				0.3	0.1	8877968
Alkalinity (Total as CaCO3)	mg/L	30	1.0	8879763				35	1.0	8879763
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8879338				<1.0	1.0	8879338
Nitrite (N)	mg/L	<0.010	0.010	8878524				<0.010	0.010	8878524
Nitrate (N)	mg/L	<0.10	0.10	8878524				<0.10	0.10	8878524
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8878524				<0.10	0.10	8878524
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8878528				<1.0	1.0	8878528

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WQF986			WQF987			WQF988		
Sampling Date		2023/07/31			2023/08/03			2023/08/03		
COC Number		945497-01-01			945497-01-01			945497-01-01		
	UNITS	MIL-02 NS Lab-Dup	RDL	QC Batch	MIL-02 NB	RDL	QC Batch	WC-06	RDL	QC Batch
Calculated Parameters										
Anion Sum	me/L				0.830	N/A	8856923	1.86	N/A	8856923
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				39	1.0	8856683	90	1.0	8856683
Calculated TDS	mg/L				43	1.0	8856927	95	1.0	8856927
Carb. Alkalinity (calc. as CaCO3)	mg/L				<1.0	1.0	8856683	<1.0	1.0	8856683
Cation Sum	me/L				0.784	N/A	8856923	1.98	N/A	8856923
Hardness (CaCO3)	mg/L				37	1.0	8855623	97	1.0	8855623
Ion Balance (% Difference)	%				NC	N/A	8856922	NC	N/A	8856922
Langelier Index (@ 20C)	N/A				-1.03		8856924	-0.194		8856924
Langelier Index (@ 4C)	N/A				-1.28		8856925	-0.445		8856925
Dissolved Nitrate (N)	mg/L							0.014	0.010	8887003
Dissolved Nitrate (NO3)	mg/L							0.063	0.044	8888252
Dissolved Nitrite (NO2)	mg/L							<0.033	0.033	8888252
Saturation pH (@ 20C)	N/A				8.79		8856924	8.05		8856924
Saturation pH (@ 4C)	N/A				9.04		8856925	8.30		8856925
Inorganics										
Acidity	mg/L				<5.0	5.0	8865635	<5.0	5.0	8865635
Total Ammonia-N	mg/L				<0.050	0.050	8869353	<0.050	0.050	8869353
Colour	TCU				8	2	8868970	15	2	8868970
Conductivity	umho/cm	74	1.0	8879767	77	1.0	8879744	170	1.0	8870324
Total Dissolved Solids	mg/L				42	10	8853486	97	10	8853486
Fluoride (F-)	mg/L	<0.10	0.10	8879758	<0.10	0.10	8879750	<0.10	0.10	8870319
Dissolved Organic Carbon	mg/L				3.0	0.40	8867112	5.0	0.40	8867112
Total Organic Carbon (TOC)	mg/L				4.1	0.40	8868697	6.0	0.40	8868697
Orthophosphate (P)	mg/L				<0.010	0.010	8879348	<0.010	0.010	8870301
pH	pH	7.52		8879782	7.76		8879717	7.86		8870321
Total Phosphorus	mg/L	<0.020	0.020	8868677	<0.020	0.020	8868677	<0.020	0.020	8868677
Salinity	N/A				<2.0	2.0	8867632	<2.0	2.0	8867632
Reactive Silica (SiO2)	mg/L				3.8	0.50	8871325	4.3	0.50	8871325
Total Suspended Solids	mg/L				<1.0	1.0	8844535	<1.0	1.0	8844535
Dissolved Sulphate (SO4)	mg/L				2.3	1.0	8879349	2.5	1.0	8870295
Turbidity	NTU				0.2	0.1	8877968	0.2	0.1	8869856
Alkalinity (Total as CaCO3)	mg/L	36	1.0	8879763	39	1.0	8879740	90	1.0	8870317
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	8879338	<1.0	1.0	8870291
Nitrite (N)	mg/L	<0.010	0.010	8878524	<0.010	0.010	8878524			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WQF986			WQF987			WQF988		
Sampling Date		2023/07/31			2023/08/03			2023/08/03		
COC Number		945497-01-01			945497-01-01			945497-01-01		
	UNITS	MIL-02 NS Lab-Dup	RDL	QC Batch	MIL-02 NB	RDL	QC Batch	WC-06	RDL	QC Batch
Nitrate (N)	mg/L	<0.10	0.10	8878524	<0.10	0.10	8878524			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8878524	<0.10	0.10	8878524			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8878528	<1.0	1.0	8878525	<1.0	1.0	8870287
Nutritional Parameters										
Dissolved Nitrite (N)	mg/L							<0.010	0.010	8891248
Dissolved Nitrate plus Nitrite (N)	mg/L							0.014	0.010	8891248

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WQF989	WQF990		WQF991		
Sampling Date		2023/08/03	2023/08/03		2023/08/03		
COC Number		945497-01-01	945497-01-01		945497-01-01		
	UNITS	WC-07	WC-08	QC Batch	LL-02 NS	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L	1.80	1.26	8856923	0.754	N/A	8856923
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	87	60	8856683	35	1.0	8856683
Calculated TDS	mg/L	92	65	8856927	40	1.0	8856927
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0	<1.0	8856683	<1.0	1.0	8856683
Cation Sum	me/L	1.94	1.32	8856923	0.755	N/A	8856923
Hardness (CaCO3)	mg/L	93	63	8855623	35	1.0	8855623
Ion Balance (% Difference)	%	NC	NC	8856922	NC	N/A	8856922
Langelier Index (@ 20C)	N/A	-0.0800	-0.566	8856924	-1.18		8856924
Langelier Index (@ 4C)	N/A	-0.333	-0.818	8856925	-1.43		8856925
Saturation pH (@ 20C)	N/A	8.08	8.40	8856924	8.84		8856924
Saturation pH (@ 4C)	N/A	8.33	8.65	8856925	9.10		8856925
Inorganics							
Acidity	mg/L	<5.0	<5.0	8865635	<5.0	5.0	8865635
Total Ammonia-N	mg/L	<0.050	<0.050	8869353	<0.050	0.050	8869459
Colour	TCU	18	6	8868970	10	2	8868970
Conductivity	umho/cm	160	120	8879744	72	1.0	8879744
Total Dissolved Solids	mg/L	89	65	8853486	41	10	8853486
Fluoride (F-)	mg/L	<0.10	<0.10	8879750	<0.10	0.10	8879750
Dissolved Organic Carbon	mg/L	4.1	2.8	8867112	3.3	0.40	8867112
Total Organic Carbon (TOC)	mg/L	5.3	4.1	8868697	4.3	0.40	8868697
Orthophosphate (P)	mg/L	<0.010	<0.010	8879348	<0.010	0.010	8879348
pH	pH	8.00	7.83	8879717	7.67		8879717
Total Phosphorus	mg/L	<0.020	<0.020	8868677	<0.020	0.020	8868677
Salinity	N/A	<2.0	<2.0	8867632	<2.0	2.0	8867632
Reactive Silica (SiO2)	mg/L	3.8	3.5	8871325	2.5	0.50	8871325
Total Suspended Solids	mg/L	<1.0	1.2	8844535	<1.0	1.0	8844535
Dissolved Sulphate (SO4)	mg/L	2.3	2.8	8879349	2.8	1.0	8879349
Turbidity	NTU	1.1	0.2	8877968	0.4	0.1	8877968
Alkalinity (Total as CaCO3)	mg/L	88	60	8879740	35	1.0	8879740
Dissolved Chloride (Cl-)	mg/L	<1.0	<1.0	8879338	<1.0	1.0	8879338
Nitrite (N)	mg/L	<0.010	<0.010	8878524	<0.010	0.010	8878524
Nitrate (N)	mg/L	<0.10	<0.10	8878524	<0.10	0.10	8878524
Nitrate + Nitrite (N)	mg/L	<0.10	<0.10	8878524	<0.10	0.10	8878524
Dissolved Bromide (Br-)	mg/L	<1.0	<1.0	8878528	<1.0	1.0	8878528

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QC Batch = Quality Control Batch
N/A = Not Applicable

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WQF991			WQF992		
Sampling Date		2023/08/03			2023/08/03		
COC Number		945497-01-01			945497-01-01		
	UNITS	LL-02 NS Lab-Dup	RDL	QC Batch	LL-02 NB	RDL	QC Batch
Calculated Parameters							
Anion Sum	me/L				0.737	N/A	8856923
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				34	1.0	8856683
Calculated TDS	mg/L				40	1.0	8856927
Carb. Alkalinity (calc. as CaCO3)	mg/L				<1.0	1.0	8856683
Cation Sum	me/L				0.765	N/A	8856923
Hardness (CaCO3)	mg/L				36	1.0	8855623
Ion Balance (% Difference)	%				NC	N/A	8856922
Langelier Index (@ 20C)	N/A				-1.28		8856924
Langelier Index (@ 4C)	N/A				-1.53		8856925
Saturation pH (@ 20C)	N/A				8.85		8856924
Saturation pH (@ 4C)	N/A				9.10		8856925
Inorganics							
Acidity	mg/L				<5.0	5.0	8865635
Total Ammonia-N	mg/L	<0.050	0.050	8869459	<0.050	0.050	8869459
Colour	TCU				13	2	8868970
Conductivity	umho/cm				71	1.0	8879744
Total Dissolved Solids	mg/L				46	10	8853486
Fluoride (F-)	mg/L				<0.10	0.10	8879750
Dissolved Organic Carbon	mg/L				3.4	0.40	8867112
Total Organic Carbon (TOC)	mg/L				4.2	0.40	8868697
Orthophosphate (P)	mg/L				<0.010	0.010	8879348
pH	pH				7.57		8879717
Total Phosphorus	mg/L				<0.020	0.020	8868677
Salinity	N/A				<2.0	2.0	8867632
Reactive Silica (SiO2)	mg/L				2.9	0.50	8871325
Total Suspended Solids	mg/L				1.2	1.0	8844535
Dissolved Sulphate (SO4)	mg/L				2.7	1.0	8879349
Turbidity	NTU				0.4	0.1	8877968
Alkalinity (Total as CaCO3)	mg/L				34	1.0	8879740
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	8879338
Nitrite (N)	mg/L				<0.010	0.010	8878524
Nitrate (N)	mg/L				<0.10	0.10	8878524
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	8878524
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	8878525

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WQF985			WQF985			WQF986	WQF987		
Sampling Date		2023/07/31			2023/07/31			2023/07/31	2023/08/03		
COC Number		945497-01-01			945497-01-01			945497-01-01	945497-01-01		
	UNITS	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch	MIL-02 NS	MIL-02 NB	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	9.7	4.9	8868611	9.5	4.9	8868611	6.6	6.0	4.9	8868611
Total Aluminum (Al)	ug/L	27	4.9	8868139				9.4	7.8	4.9	8868139
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8868611	<0.50	0.50	8868611	<0.50	<0.50	0.50	8868611
Total Antimony (Sb)	ug/L	<0.50	0.50	8868139				<0.50	<0.50	0.50	8868139
Dissolved Arsenic (As)	ug/L	<1.0	1.0	8868611	<1.0	1.0	8868611	<1.0	<1.0	1.0	8868611
Total Arsenic (As)	ug/L	<1.0	1.0	8868139				<1.0	<1.0	1.0	8868139
Dissolved Barium (Ba)	ug/L	8.3	2.0	8868611	8.9	2.0	8868611	9.9	9.0	2.0	8868611
Total Barium (Ba)	ug/L	8.2	2.0	8868139				9.2	9.4	2.0	8868139
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8868611	<0.40	0.40	8868611	<0.40	<0.40	0.40	8868611
Total Beryllium (Be)	ug/L	<0.40	0.40	8868139				<0.40	<0.40	0.40	8868139
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8868611	<1.0	1.0	8868611	<1.0	<1.0	1.0	8868611
Total Bismuth (Bi)	ug/L	<1.0	1.0	8868139				<1.0	<1.0	1.0	8868139
Dissolved Boron (B)	ug/L	<10	10	8868611	<10	10	8868611	<10	<10	10	8868611
Total Boron (B)	ug/L	<10	10	8868139				<10	<10	10	8868139
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8868611	<0.090	0.090	8868611	<0.090	<0.090	0.090	8868611
Total Cadmium (Cd)	ug/L	<0.090	0.090	8868139				<0.090	<0.090	0.090	8868139
Dissolved Calcium (Ca)	ug/L	6800	200	8868611	7300	200	8868611	8700	8300	200	8868611
Total Calcium (Ca)	ug/L	7200	200	8868139				8700	8600	200	8868139
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8868611	<5.0	5.0	8868611	<5.0	<5.0	5.0	8868611
Total Chromium (Cr)	ug/L	<5.0	5.0	8868139				<5.0	<5.0	5.0	8868139
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8868611	<0.50	0.50	8868611	<0.50	<0.50	0.50	8868611
Total Cobalt (Co)	ug/L	<0.50	0.50	8868139				<0.50	<0.50	0.50	8868139
Dissolved Copper (Cu)	ug/L	<0.90	0.90	8868611	<0.90	0.90	8868611	<0.90	<0.90	0.90	8868611
Total Copper (Cu)	ug/L	<0.90	0.90	8868139				<0.90	<0.90	0.90	8868139
Dissolved Iron (Fe)	ug/L	<100	100	8868611	<100	100	8868611	<100	<100	100	8868611
Total Iron (Fe)	ug/L	<100	100	8868139				<100	<100	100	8868139
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8868611	<0.50	0.50	8868611	<0.50	<0.50	0.50	8868611
Total Lead (Pb)	ug/L	<0.50	0.50	8868139				<0.50	<0.50	0.50	8868139
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8868611	<5.0	5.0	8868611	<5.0	<5.0	5.0	8868611
Total Lithium (Li)	ug/L	<5.0	5.0	8868139				<5.0	<5.0	5.0	8868139
Dissolved Magnesium (Mg)	ug/L	2900	50	8868611	3100	50	8868611	4000	3900	50	8868611
Total Magnesium (Mg)	ug/L	2900	50	8868139				3800	3800	50	8868139
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	8868611	<2.0	2.0	8868611	<2.0	<2.0	2.0	8868611
Total Manganese (Mn)	ug/L	4.7	2.0	8868139				3.6	3.0	2.0	8868139
Dissolved Molybdenum (Mo)	ug/L	0.77	0.50	8868611	0.70	0.50	8868611	0.66	0.62	0.50	8868611

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WQF985			WQF985			WQF986	WQF987		
Sampling Date		2023/07/31			2023/07/31			2023/07/31	2023/08/03		
COC Number		945497-01-01			945497-01-01			945497-01-01	945497-01-01		
	UNITS	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch	MIL-02 NS	MIL-02 NB	RDL	QC Batch
Total Molybdenum (Mo)	ug/L	0.70	0.50	8868139				0.66	0.58	0.50	8868139
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	8868611	<1.0	1.0	8868611	<1.0	<1.0	1.0	8868611
Total Nickel (Ni)	ug/L	<1.0	1.0	8868139				<1.0	<1.0	1.0	8868139
Dissolved Phosphorus (P)	ug/L	<100	100	8868611	<100	100	8868611	<100	<100	100	8868611
Dissolved Potassium (K)	ug/L	1100	200	8868611	1200	200	8868611	1000	980	200	8868611
Total Potassium (K)	ug/L	1100	200	8868139				930	920	200	8868139
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8868611	<2.0	2.0	8868611	<2.0	<2.0	2.0	8868611
Total Selenium (Se)	ug/L	<2.0	2.0	8868139				<2.0	<2.0	2.0	8868139
Dissolved Silicon (Si)	ug/L	1500	50	8868611	1600	50	8868611	1700	1800	50	8868611
Total Silicon (Si)	ug/L	1700	50	8868139				1800	1900	50	8868139
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8868611	<0.090	0.090	8868611	<0.090	<0.090	0.090	8868611
Total Silver (Ag)	ug/L	<0.090	0.090	8868139				<0.090	<0.090	0.090	8868139
Dissolved Sodium (Na)	ug/L	760	100	8868611	820	100	8868611	630	630	100	8868611
Total Sodium (Na)	ug/L	760	100	8868139				590	590	100	8868139
Dissolved Strontium (Sr)	ug/L	13	1.0	8868611	14	1.0	8868611	12	12	1.0	8868611
Total Strontium (Sr)	ug/L	14	1.0	8868139				12	13	1.0	8868139
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	8868611	<1.0	1.0	8868611	<1.0	<1.0	1.0	8868611
Total Tellurium (Te)	ug/L	<1.0	1.0	8868139				<1.0	<1.0	1.0	8868139
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8868611	<0.050	0.050	8868611	<0.050	<0.050	0.050	8868611
Total Thallium (Tl)	ug/L	<0.050	0.050	8868139				<0.050	<0.050	0.050	8868139
Dissolved Tin (Sn)	ug/L	<1.0	1.0	8868611	<1.0	1.0	8868611	<1.0	<1.0	1.0	8868611
Total Tin (Sn)	ug/L	<1.0	1.0	8868139				<1.0	<1.0	1.0	8868139
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8868611	<5.0	5.0	8868611	<5.0	<5.0	5.0	8868611
Total Titanium (Ti)	ug/L	<5.0	5.0	8868139				<5.0	<5.0	5.0	8868139
Dissolved Tungsten (W)	ug/L	<1.0	1.0	8868611	<1.0	1.0	8868611	<1.0	<1.0	1.0	8868611
Total Tungsten (W)	ug/L	<1.0	1.0	8868139				<1.0	<1.0	1.0	8868139
Dissolved Uranium (U)	ug/L	<0.10	0.10	8868611	<0.10	0.10	8868611	<0.10	<0.10	0.10	8868611
Total Uranium (U)	ug/L	0.10	0.10	8868139				0.15	<0.10	0.10	8868139
Dissolved Vanadium (V)	ug/L	<0.50	0.50	8868611	<0.50	0.50	8868611	<0.50	<0.50	0.50	8868611
Total Vanadium (V)	ug/L	<0.50	0.50	8868139				<0.50	<0.50	0.50	8868139
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8868611	<5.0	5.0	8868611	<5.0	<5.0	5.0	8868611
Total Zinc (Zn)	ug/L	<5.0	5.0	8868139				<5.0	<5.0	5.0	8868139
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	8868611	<1.0	1.0	8868611	<1.0	<1.0	1.0	8868611
Total Zirconium (Zr)	ug/L	<1.0	1.0	8868139				<1.0	<1.0	1.0	8868139

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WQF988		WQF989	WQF990	WQF991	WQF992		
Sampling Date		2023/08/03		2023/08/03	2023/08/03	2023/08/03	2023/08/03		
COC Number		945497-01-01		945497-01-01	945497-01-01	945497-01-01	945497-01-01		
	UNITS	WC-06	QC Batch	WC-07	WC-08	LL-02 NS	LL-02 NB	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	8868611	<4.9	<4.9	9.5	9.4	4.9	8868611
Total Aluminum (Al)	ug/L	5.7	8870524	5.0	<4.9	15	17	4.9	8868139
Dissolved Antimony (Sb)	ug/L	<0.50	8868611	<0.50	<0.50	<0.50	<0.50	0.50	8868611
Total Antimony (Sb)	ug/L	<0.50	8870524	<0.50	<0.50	<0.50	<0.50	0.50	8868139
Dissolved Arsenic (As)	ug/L	<1.0	8868611	<1.0	<1.0	<1.0	<1.0	1.0	8868611
Total Arsenic (As)	ug/L	<1.0	8870524	<1.0	<1.0	<1.0	<1.0	1.0	8868139
Dissolved Barium (Ba)	ug/L	23	8868611	20	14	9.5	9.7	2.0	8868611
Total Barium (Ba)	ug/L	23	8870524	19	15	9.2	9.7	2.0	8868139
Dissolved Beryllium (Be)	ug/L	<0.40	8868611	<0.40	<0.40	<0.40	<0.40	0.40	8868611
Total Beryllium (Be)	ug/L	<0.40	8870524	<0.40	<0.40	<0.40	<0.40	0.40	8868139
Dissolved Bismuth (Bi)	ug/L	<1.0	8868611	<1.0	<1.0	<1.0	<1.0	1.0	8868611
Total Bismuth (Bi)	ug/L	<1.0	8870524	<1.0	<1.0	<1.0	<1.0	1.0	8868139
Dissolved Boron (B)	ug/L	<10	8868611	<10	<10	<10	<10	10	8868611
Total Boron (B)	ug/L	14	8870524	<10	<10	<10	<10	10	8868139
Dissolved Cadmium (Cd)	ug/L	<0.090	8868611	<0.090	<0.090	<0.090	<0.090	0.090	8868611
Total Cadmium (Cd)	ug/L	<0.090	8870524	<0.090	<0.090	<0.090	<0.090	0.090	8868139
Dissolved Calcium (Ca)	ug/L	21000	8868611	21000	14000	8200	8300	200	8868611
Total Calcium (Ca)	ug/L	21000	8870524	20000	14000	8500	8400	200	8868139
Dissolved Chromium (Cr)	ug/L	<5.0	8868611	<5.0	<5.0	<5.0	<5.0	5.0	8868611
Total Chromium (Cr)	ug/L	<5.0	8870524	<5.0	<5.0	<5.0	<5.0	5.0	8868139
Dissolved Cobalt (Co)	ug/L	<0.50	8868611	<0.50	<0.50	<0.50	<0.50	0.50	8868611
Total Cobalt (Co)	ug/L	<0.50	8870524	<0.50	<0.50	<0.50	<0.50	0.50	8868139
Dissolved Copper (Cu)	ug/L	<0.90	8868611	<0.90	<0.90	<0.90	<0.90	0.90	8868611
Total Copper (Cu)	ug/L	<0.90	8870524	<0.90	<0.90	<0.90	<0.90	0.90	8868139
Dissolved Iron (Fe)	ug/L	<100	8868611	240	<100	<100	<100	100	8868611
Total Iron (Fe)	ug/L	<100	8870524	390	<100	<100	<100	100	8868139
Dissolved Lead (Pb)	ug/L	<0.50	8868611	<0.50	<0.50	<0.50	<0.50	0.50	8868611
Total Lead (Pb)	ug/L	<0.50	8870524	<0.50	<0.50	<0.50	<0.50	0.50	8868139
Dissolved Lithium (Li)	ug/L	<5.0	8868611	<5.0	<5.0	<5.0	<5.0	5.0	8868611
Total Lithium (Li)	ug/L	<5.0	8870524	<5.0	<5.0	<5.0	<5.0	5.0	8868139
Dissolved Magnesium (Mg)	ug/L	10000	8868611	10000	6900	3600	3700	50	8868611
Total Magnesium (Mg)	ug/L	9900	8870524	9700	6600	3600	3600	50	8868139
Dissolved Manganese (Mn)	ug/L	4.9	8868611	<2.0	<2.0	<2.0	<2.0	2.0	8868611
Total Manganese (Mn)	ug/L	31	8870524	7.4	18	7.0	13	2.0	8868139
Dissolved Molybdenum (Mo)	ug/L	0.86	8868611	0.68	0.73	<0.50	<0.50	0.50	8868611
Total Molybdenum (Mo)	ug/L	2.0	8870524	0.74	0.79	<0.50	<0.50	0.50	8868139

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WQF988		WQF989	WQF990	WQF991	WQF992		
Sampling Date		2023/08/03		2023/08/03	2023/08/03	2023/08/03	2023/08/03		
COC Number		945497-01-01		945497-01-01	945497-01-01	945497-01-01	945497-01-01		
	UNITS	WC-06	QC Batch	WC-07	WC-08	LL-02 NS	LL-02 NB	RDL	QC Batch
Dissolved Nickel (Ni)	ug/L	<1.0	8868611	<1.0	<1.0	<1.0	<1.0	1.0	8868611
Total Nickel (Ni)	ug/L	<1.0	8870524	<1.0	<1.0	<1.0	<1.0	1.0	8868139
Dissolved Phosphorus (P)	ug/L	<100	8868611	<100	<100	<100	<100	100	8868611
Dissolved Potassium (K)	ug/L	880	8868611	850	1200	910	950	200	8868611
Total Potassium (K)	ug/L	820	8870524	760	1100	940	890	200	8868139
Dissolved Selenium (Se)	ug/L	<2.0	8868611	<2.0	<2.0	<2.0	<2.0	2.0	8868611
Total Selenium (Se)	ug/L	<2.0	8870524	<2.0	<2.0	<2.0	<2.0	2.0	8868139
Dissolved Silicon (Si)	ug/L	2100	8868611	1900	1700	1400	1600	50	8868611
Total Silicon (Si)	ug/L	2200	8870524	2000	1800	1500	1700	50	8868139
Dissolved Silver (Ag)	ug/L	<0.090	8868611	<0.090	<0.090	<0.090	<0.090	0.090	8868611
Total Silver (Ag)	ug/L	<0.090	8870524	<0.090	<0.090	<0.090	<0.090	0.090	8868139
Dissolved Sodium (Na)	ug/L	650	8868611	900	540	540	540	100	8868611
Total Sodium (Na)	ug/L	680	8870524	850	500	570	540	100	8868139
Dissolved Strontium (Sr)	ug/L	18	8868611	20	17	13	13	1.0	8868611
Total Strontium (Sr)	ug/L	18	8870524	20	18	13	13	1.0	8868139
Dissolved Tellurium (Te)	ug/L	<1.0	8868611	<1.0	<1.0	<1.0	<1.0	1.0	8868611
Total Tellurium (Te)	ug/L	<1.0	8870524	<1.0	<1.0	<1.0	<1.0	1.0	8868139
Dissolved Thallium (Tl)	ug/L	<0.050	8868611	<0.050	<0.050	<0.050	<0.050	0.050	8868611
Total Thallium (Tl)	ug/L	<0.050	8870524	<0.050	<0.050	<0.050	<0.050	0.050	8868139
Dissolved Tin (Sn)	ug/L	<1.0	8868611	<1.0	<1.0	<1.0	<1.0	1.0	8868611
Total Tin (Sn)	ug/L	<1.0	8870524	<1.0	<1.0	<1.0	<1.0	1.0	8868139
Dissolved Titanium (Ti)	ug/L	<5.0	8868611	<5.0	<5.0	<5.0	<5.0	5.0	8868611
Total Titanium (Ti)	ug/L	<5.0	8870524	<5.0	<5.0	<5.0	<5.0	5.0	8868139
Dissolved Tungsten (W)	ug/L	<1.0	8868611	<1.0	<1.0	<1.0	<1.0	1.0	8868611
Total Tungsten (W)	ug/L	<1.0	8870524	<1.0	<1.0	<1.0	<1.0	1.0	8868139
Dissolved Uranium (U)	ug/L	0.33	8868611	0.49	0.25	0.11	<0.10	0.10	8868611
Total Uranium (U)	ug/L	0.36	8870524	0.50	0.25	0.11	0.11	0.10	8868139
Dissolved Vanadium (V)	ug/L	<0.50	8868611	<0.50	<0.50	<0.50	<0.50	0.50	8868611
Total Vanadium (V)	ug/L	<0.50	8870524	<0.50	<0.50	<0.50	<0.50	0.50	8868139
Dissolved Zinc (Zn)	ug/L	<5.0	8868611	<5.0	<5.0	<5.0	<5.0	5.0	8868611
Total Zinc (Zn)	ug/L	<5.0	8870524	<5.0	<5.0	<5.0	<5.0	5.0	8868139
Dissolved Zirconium (Zr)	ug/L	<1.0	8868611	<1.0	<1.0	<1.0	<1.0	1.0	8868611
Total Zirconium (Zr)	ug/L	<1.0	8870524	<1.0	<1.0	<1.0	<1.0	1.0	8868139

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WQF985
Sample ID: WC-03
Matrix: Water

Collected: 2023/07/31
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8865635	N/A	2023/08/21	Brent Boudreau
Alkalinity	AT	8879763	N/A	2023/08/26	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	8856683	N/A	2023/08/28	Automated Statchk
Anions	IC	8878528	N/A	2023/08/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	8879338	N/A	2023/08/28	Alina Dobreanu
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Conductivity	AT	8879767	N/A	2023/08/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8867112	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8879758	2023/08/26	2023/08/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		8855623	N/A	2023/08/23	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8868139	2023/08/22	2023/08/23	Azita Fazaeli
Ion Balance (% Difference)	CALC	8856922	N/A	2023/08/28	Automated Statchk
Anion and Cation Sum	CALC	8856923	N/A	2023/08/28	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8878524	N/A	2023/08/27	Viorica Rotaru
pH	AT	8879782	2023/08/26	2023/08/26	Nachiketa Gohil
Orthophosphate	SKAL	8879348	N/A	2023/08/28	Alina Dobreanu
Salinity		8867632	N/A	2023/08/22	Brent Boudreau
Sat. pH and Langelier Index (@ 20C)	CALC	8856924	N/A	2023/08/28	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8856925	N/A	2023/08/28	Automated Statchk
Reactive Silica	KONE	8871325	N/A	2023/08/24	Hope Gorveatte
Sulphate by Automated Turbidimetry	SKAL	8879349	N/A	2023/08/28	Alina Dobreanu
Total Dissolved Solids (Filt. Residue)	BAL	8868043	2023/08/18	2023/08/23	Mike MacGillivray
Total Dissolved Solids (TDS calc)	CALC	8856927	N/A	2023/08/28	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8868697	N/A	2023/08/22	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8861122	2023/08/18	2023/08/18	Robyn MacCormack
Turbidity	AT	8877968	N/A	2023/08/25	Vidhi Khatri

Bureau Veritas ID: WQF985 Dup
Sample ID: WC-03
Matrix: Water

Collected: 2023/07/31
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad
Salinity		8867632	N/A	2023/08/22	Brent Boudreau

Bureau Veritas ID: WQF986
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2023/07/31
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8865635	N/A	2023/08/21	Brent Boudreau
Alkalinity	AT	8879763	N/A	2023/08/26	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WQF986
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2023/07/31
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	8856683	N/A	2023/08/28	Automated Statchk
Anions	IC	8878528	N/A	2023/08/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	8879338	N/A	2023/08/28	Alina Dobreanu
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Conductivity	AT	8879767	N/A	2023/08/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8879758	2023/08/26	2023/08/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		8855623	N/A	2023/08/23	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8868139	2023/08/22	2023/08/23	Azita Fazaeli
Ion Balance (% Difference)	CALC	8856922	N/A	2023/08/28	Automated Statchk
Anion and Cation Sum	CALC	8856923	N/A	2023/08/28	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8878524	N/A	2023/08/27	Viorica Rotaru
pH	AT	8879782	2023/08/26	2023/08/26	Nachiketa Gohil
Orthophosphate	SKAL	8879348	N/A	2023/08/28	Alina Dobreanu
Salinity		8867632	N/A	2023/08/22	Brent Boudreau
Sat. pH and Langelier Index (@ 20C)	CALC	8856924	N/A	2023/08/28	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8856925	N/A	2023/08/28	Automated Statchk
Reactive Silica	KONE	8871325	N/A	2023/08/24	Hope Gorveatte
Sulphate by Automated Turbidimetry	SKAL	8879349	N/A	2023/08/28	Alina Dobreanu
Total Dissolved Solids (Filt. Residue)	BAL	8868043	2023/08/18	2023/08/23	Mike MacGillivray
Total Dissolved Solids (TDS calc)	CALC	8856927	N/A	2023/08/28	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8868697	N/A	2023/08/23	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8861122	2023/08/18	2023/08/18	Robyn MacCormack
Turbidity	AT	8877968	N/A	2023/08/25	Vidhi Khatri

Bureau Veritas ID: WQF986 Dup
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2023/07/31
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8879763	N/A	2023/08/26	Nachiketa Gohil
Anions	IC	8878528	N/A	2023/08/28	Surleen Kaur Romana
Conductivity	AT	8879767	N/A	2023/08/26	Nachiketa Gohil
Fluoride	ISE	8879758	2023/08/26	2023/08/26	Nachiketa Gohil
Nitrate & Nitrite as Nitrogen in Water	LACH	8878524	N/A	2023/08/27	Viorica Rotaru
pH	AT	8879782	2023/08/26	2023/08/26	Nachiketa Gohil
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WQF987
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8865635	N/A	2023/08/21	Brent Boudreau
Alkalinity	AT	8879740	N/A	2023/08/26	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	8856683	N/A	2023/08/28	Automated Statchk
Anions	IC	8878525	N/A	2023/08/29	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	8879338	N/A	2023/08/28	Alina Dobreanu
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Conductivity	AT	8879744	N/A	2023/08/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8867112	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8879750	2023/08/26	2023/08/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		8855623	N/A	2023/08/23	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8868139	2023/08/22	2023/08/23	Azita Fazaeli
Ion Balance (% Difference)	CALC	8856922	N/A	2023/08/28	Automated Statchk
Anion and Cation Sum	CALC	8856923	N/A	2023/08/28	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8878524	N/A	2023/08/27	Viorica Rotaru
pH	AT	8879717	2023/08/26	2023/08/26	Nachiketa Gohil
Orthophosphate	SKAL	8879348	N/A	2023/08/28	Alina Dobreanu
Salinity		8867632	N/A	2023/08/22	Brent Boudreau
Sat. pH and Langelier Index (@ 20C)	CALC	8856924	N/A	2023/08/28	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8856925	N/A	2023/08/28	Automated Statchk
Reactive Silica	KONE	8871325	N/A	2023/08/24	Hope Gorveatte
Sulphate by Automated Turbidimetry	SKAL	8879349	N/A	2023/08/28	Alina Dobreanu
Total Dissolved Solids (Filt. Residue)	BAL	8853486	2023/08/11	2023/08/17	Robyn MacCormack
Total Dissolved Solids (TDS calc)	CALC	8856927	N/A	2023/08/28	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8868697	N/A	2023/08/23	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8844535	2023/08/10	2023/08/18	Robyn MacCormack
Turbidity	AT	8877968	N/A	2023/08/25	Vidhi Khatri

Bureau Veritas ID: WQF988
Sample ID: WC-06
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8865635	N/A	2023/08/21	Brent Boudreau
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	8856683	N/A	2023/08/23	Automated Statchk
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8867112	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8855623	N/A	2023/08/23	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WQF988
Sample ID: WC-06
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	8870524	2023/08/23	2023/08/23	Thuy Linh Nguyen
Ion Balance (% Difference)	CALC	8856922	N/A	2023/08/23	Automated Statchk
Anion and Cation Sum	CALC	8856923	N/A	2023/08/23	Automated Statchk
Nitrate and Nitrite	CALC	8888252	N/A	2023/08/31	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8891248	N/A	2023/08/27	Shanna McKort
Nitrate (as N)	CALC	8887003	2023/08/28	2023/08/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Salinity		8867632	N/A	2023/08/22	Brent Boudreau
Sat. pH and Langelier Index (@ 20C)	CALC	8856924	N/A	2023/08/23	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8856925	N/A	2023/08/23	Automated Statchk
Reactive Silica	KONE	8871325	N/A	2023/08/24	Hope Gorveatte
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids (Filt. Residue)	BAL	8853486	2023/08/11	2023/08/17	Robyn MacCormack
Total Dissolved Solids (TDS calc)	CALC	8856927	N/A	2023/08/23	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8868697	N/A	2023/08/23	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8844535	2023/08/10	2023/08/18	Robyn MacCormack
Turbidity	AT	8869856	N/A	2023/08/22	Vidhi Khatri

Bureau Veritas ID: WQF989
Sample ID: WC-07
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8865635	N/A	2023/08/21	Brent Boudreau
Alkalinity	AT	8879740	N/A	2023/08/26	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	8856683	N/A	2023/08/28	Automated Statchk
Anions	IC	8878528	N/A	2023/08/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	8879338	N/A	2023/08/28	Alina Dobreanu
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Conductivity	AT	8879744	N/A	2023/08/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8867112	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8879750	2023/08/26	2023/08/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		8855623	N/A	2023/08/23	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8868139	2023/08/22	2023/08/23	Azita Fazaeli
Ion Balance (% Difference)	CALC	8856922	N/A	2023/08/28	Automated Statchk
Anion and Cation Sum	CALC	8856923	N/A	2023/08/28	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8878524	N/A	2023/08/27	Viorica Rotaru
pH	AT	8879717	2023/08/26	2023/08/26	Nachiketa Gohil
Orthophosphate	SKAL	8879348	N/A	2023/08/28	Alina Dobreanu
Salinity		8867632	N/A	2023/08/22	Brent Boudreau
Sat. pH and Langelier Index (@ 20C)	CALC	8856924	N/A	2023/08/28	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WQF989
Sample ID: WC-07
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sat. pH and Langelier Index (@ 4C)	CALC	8856925	N/A	2023/08/28	Automated Statchk
Reactive Silica	KONE	8871325	N/A	2023/08/24	Hope Gorveatte
Sulphate by Automated Turbidimetry	SKAL	8879349	N/A	2023/08/28	Alina Dobreanu
Total Dissolved Solids (Filt. Residue)	BAL	8853486	2023/08/11	2023/08/17	Robyn MacCormack
Total Dissolved Solids (TDS calc)	CALC	8856927	N/A	2023/08/28	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8868697	N/A	2023/08/23	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8844535	2023/08/10	2023/08/18	Robyn MacCormack
Turbidity	AT	8877968	N/A	2023/08/25	Vidhi Khatri

Bureau Veritas ID: WQF990
Sample ID: WC-08
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8865635	N/A	2023/08/21	Brent Boudreau
Alkalinity	AT	8879740	N/A	2023/08/26	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	8856683	N/A	2023/08/28	Automated Statchk
Anions	IC	8878528	N/A	2023/08/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	8879338	N/A	2023/08/28	Alina Dobreanu
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Conductivity	AT	8879744	N/A	2023/08/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8867112	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8879750	2023/08/26	2023/08/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		8855623	N/A	2023/08/23	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8868139	2023/08/22	2023/08/23	Azita Fazaeli
Ion Balance (% Difference)	CALC	8856922	N/A	2023/08/28	Automated Statchk
Anion and Cation Sum	CALC	8856923	N/A	2023/08/28	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8878524	N/A	2023/08/27	Viorica Rotaru
pH	AT	8879717	2023/08/26	2023/08/26	Nachiketa Gohil
Orthophosphate	SKAL	8879348	N/A	2023/08/28	Alina Dobreanu
Salinity		8867632	N/A	2023/08/22	Brent Boudreau
Sat. pH and Langelier Index (@ 20C)	CALC	8856924	N/A	2023/08/28	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8856925	N/A	2023/08/28	Automated Statchk
Reactive Silica	KONE	8871325	N/A	2023/08/24	Hope Gorveatte
Sulphate by Automated Turbidimetry	SKAL	8879349	N/A	2023/08/28	Alina Dobreanu
Total Dissolved Solids (Filt. Residue)	BAL	8853486	2023/08/11	2023/08/17	Robyn MacCormack
Total Dissolved Solids (TDS calc)	CALC	8856927	N/A	2023/08/28	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8868697	N/A	2023/08/23	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8844535	2023/08/10	2023/08/18	Robyn MacCormack
Turbidity	AT	8877968	N/A	2023/08/25	Vidhi Khatri

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WQF991
Sample ID: LL-02 NS
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8865635	N/A	2023/08/21	Brent Boudreau
Alkalinity	AT	8879740	N/A	2023/08/26	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	8856683	N/A	2023/08/28	Automated Statchk
Anions	IC	8878528	N/A	2023/08/28	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	8879338	N/A	2023/08/28	Alina Dobreanu
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Conductivity	AT	8879744	N/A	2023/08/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8867112	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8879750	2023/08/26	2023/08/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		8855623	N/A	2023/08/23	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8868139	2023/08/22	2023/08/23	Azita Fazaeli
Ion Balance (% Difference)	CALC	8856922	N/A	2023/08/28	Automated Statchk
Anion and Cation Sum	CALC	8856923	N/A	2023/08/28	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869459	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8878524	N/A	2023/08/27	Viorica Rotaru
pH	AT	8879717	2023/08/26	2023/08/26	Nachiketa Gohil
Orthophosphate	SKAL	8879348	N/A	2023/08/28	Alina Dobreanu
Salinity		8867632	N/A	2023/08/22	Brent Boudreau
Sat. pH and Langelier Index (@ 20C)	CALC	8856924	N/A	2023/08/28	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8856925	N/A	2023/08/28	Automated Statchk
Reactive Silica	KONE	8871325	N/A	2023/08/24	Hope Gorveatte
Sulphate by Automated Turbidimetry	SKAL	8879349	N/A	2023/08/28	Alina Dobreanu
Total Dissolved Solids (Filt. Residue)	BAL	8853486	2023/08/11	2023/08/17	Robyn MacCormack
Total Dissolved Solids (TDS calc)	CALC	8856927	N/A	2023/08/28	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8868697	N/A	2023/08/23	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8844535	2023/08/10	2023/08/18	Robyn MacCormack
Turbidity	AT	8877968	N/A	2023/08/25	Vidhi Khatri

Bureau Veritas ID: WQF991 Dup
Sample ID: LL-02 NS
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	8869459	N/A	2023/08/23	Prabhjot Kaur

Bureau Veritas ID: WQF992
Sample ID: LL-02 NB
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8865635	N/A	2023/08/21	Brent Boudreau
Alkalinity	AT	8879740	N/A	2023/08/27	Nachiketa Gohil
Carbonate, Bicarbonate and Hydroxide	CALC	8856683	N/A	2023/08/28	Automated Statchk
Anions	IC	8878525	N/A	2023/08/29	Surleen Kaur Romana

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WQF992
Sample ID: LL-02 NB
Matrix: Water

Collected: 2023/08/03
Shipped:
Received: 2023/08/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	8879338	N/A	2023/08/28	Alina Dobreanu
Colour	SPEC	8868970	N/A	2023/08/22	Gyulshen Idriz
Conductivity	AT	8879744	N/A	2023/08/27	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8867112	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8879750	2023/08/26	2023/08/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		8855623	N/A	2023/08/23	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	8868611	2023/08/22	2023/08/23	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8868139	2023/08/22	2023/08/23	Azita Fazaeli
Ion Balance (% Difference)	CALC	8856922	N/A	2023/08/28	Automated Statchk
Anion and Cation Sum	CALC	8856923	N/A	2023/08/28	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869459	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8878524	N/A	2023/08/27	Viorica Rotaru
pH	AT	8879717	2023/08/26	2023/08/27	Nachiketa Gohil
Orthophosphate	SKAL	8879348	N/A	2023/08/28	Alina Dobreanu
Salinity		8867632	N/A	2023/08/22	Brent Boudreau
Sat. pH and Langelier Index (@ 20C)	CALC	8856924	N/A	2023/08/28	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	8856925	N/A	2023/08/28	Automated Statchk
Reactive Silica	KONE	8871325	N/A	2023/08/24	Hope Gorveatte
Sulphate by Automated Turbidimetry	SKAL	8879349	N/A	2023/08/28	Alina Dobreanu
Total Dissolved Solids (Filt. Residue)	BAL	8853486	2023/08/11	2023/08/17	Robyn MacCormack
Total Dissolved Solids (TDS calc)	CALC	8856927	N/A	2023/08/28	Automated Statchk
Total Organic Carbon (TOC)	TOCV/NDIR	8868697	N/A	2023/08/23	Gyulshen Idriz
Total Phosphorus (Colourimetric)	SKAL/P	8868677	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8844535	2023/08/10	2023/08/18	Robyn MacCormack
Turbidity	AT	8877968	N/A	2023/08/25	Vidhi Khatri

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.6°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

TDS and TSS samples were received past recommended hold time and analyzed at client request.

Sample WQF985 [WC-03] : Acidity sample contained headspace.

Sample WQF986 [MIL-02 NS] : Acidity sample contained headspace.

Sample WQF987 [MIL-02 NB] : Acidity sample contained headspace.

Sample WQF988 [WC-06] : Acidity sample contained headspace. Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WQF989 [WC-07] : Acidity sample contained headspace.

Sample WQF990 [WC-08] : Acidity sample contained headspace.

Sample WQF991 [LL-02 NS] : Acidity sample contained headspace.

Sample WQF992 [LL-02 NB] : Acidity sample contained headspace.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8844535	RMK	QC Standard	Total Suspended Solids	2023/08/18		99	%	80 - 120
8844535	RMK	Method Blank	Total Suspended Solids	2023/08/18	<1.0		mg/L	
8844535	RMK	RPD	Total Suspended Solids	2023/08/18	25 (1)		%	20
8853486	RMK	QC Standard	Total Dissolved Solids	2023/08/17		95	%	80 - 120
8853486	RMK	Method Blank	Total Dissolved Solids	2023/08/17	<10		mg/L	
8853486	RMK	RPD	Total Dissolved Solids	2023/08/17	7.4		%	20
8861122	RMK	QC Standard	Total Suspended Solids	2023/08/18		99	%	80 - 120
8861122	RMK	Method Blank	Total Suspended Solids	2023/08/18	<1.0		mg/L	
8861122	RMK	RPD	Total Suspended Solids	2023/08/18	2.5		%	20
8865635	BBD	Matrix Spike	Acidity	2023/08/21		104	%	80 - 120
8865635	BBD	Spiked Blank	Acidity	2023/08/21		103	%	80 - 120
8865635	BBD	Method Blank	Acidity	2023/08/21	<5.0		mg/L	
8865635	BBD	RPD	Acidity	2023/08/21	NC		%	25
8867112	GID	Matrix Spike	Dissolved Organic Carbon	2023/08/22		94	%	80 - 120
8867112	GID	Spiked Blank	Dissolved Organic Carbon	2023/08/22		97	%	80 - 120
8867112	GID	Method Blank	Dissolved Organic Carbon	2023/08/22	<0.40		mg/L	
8867112	GID	RPD	Dissolved Organic Carbon	2023/08/22	0.86		%	20
8867632	BBD	QC Standard	Salinity	2023/08/22		102	%	80 - 120
8867632	BBD	Method Blank	Salinity	2023/08/22	<2.0		N/A	
8867632	BBD	RPD [WQF985-05]	Salinity	2023/08/22	NC		%	25
8868043	RMK	QC Standard	Total Dissolved Solids	2023/08/23		96	%	80 - 120
8868043	RMK	Method Blank	Total Dissolved Solids	2023/08/23	<10		mg/L	
8868043	RMK	RPD	Total Dissolved Solids	2023/08/23	4.1		%	20
8868139	AFZ	Matrix Spike	Total Aluminum (Al)	2023/08/23		105	%	80 - 120
			Total Antimony (Sb)	2023/08/23		107	%	80 - 120
			Total Arsenic (As)	2023/08/23		100	%	80 - 120
			Total Barium (Ba)	2023/08/23		96	%	80 - 120
			Total Beryllium (Be)	2023/08/23		100	%	80 - 120
			Total Bismuth (Bi)	2023/08/23		99	%	80 - 120
			Total Boron (B)	2023/08/23		97	%	80 - 120
			Total Cadmium (Cd)	2023/08/23		99	%	80 - 120
			Total Calcium (Ca)	2023/08/23		NC	%	80 - 120
			Total Chromium (Cr)	2023/08/23		97	%	80 - 120
			Total Cobalt (Co)	2023/08/23		96	%	80 - 120
			Total Copper (Cu)	2023/08/23		99	%	80 - 120
			Total Iron (Fe)	2023/08/23		98	%	80 - 120
			Total Lead (Pb)	2023/08/23		95	%	80 - 120
			Total Lithium (Li)	2023/08/23		99	%	80 - 120
			Total Magnesium (Mg)	2023/08/23		96	%	80 - 120
			Total Manganese (Mn)	2023/08/23		95	%	80 - 120
			Total Molybdenum (Mo)	2023/08/23		105	%	80 - 120
			Total Nickel (Ni)	2023/08/23		96	%	80 - 120
			Total Potassium (K)	2023/08/23		97	%	80 - 120
			Total Selenium (Se)	2023/08/23		103	%	80 - 120
			Total Silicon (Si)	2023/08/23		100	%	80 - 120
			Total Silver (Ag)	2023/08/23		98	%	80 - 120
			Total Sodium (Na)	2023/08/23		NC	%	80 - 120
			Total Strontium (Sr)	2023/08/23		95	%	80 - 120
			Total Tellurium (Te)	2023/08/23		101	%	80 - 120
			Total Thallium (Tl)	2023/08/23		96	%	80 - 120
			Total Tin (Sn)	2023/08/23		101	%	80 - 120
			Total Titanium (Ti)	2023/08/23		98	%	80 - 120
			Total Tungsten (W)	2023/08/23		101	%	80 - 120

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Uranium (U)	2023/08/23		101	%	80 - 120
			Total Vanadium (V)	2023/08/23		98	%	80 - 120
			Total Zinc (Zn)	2023/08/23		100	%	80 - 120
			Total Zirconium (Zr)	2023/08/23		101	%	80 - 120
8868139	AFZ	Spiked Blank	Total Aluminum (Al)	2023/08/23		99	%	80 - 120
			Total Antimony (Sb)	2023/08/23		106	%	80 - 120
			Total Arsenic (As)	2023/08/23		100	%	80 - 120
			Total Barium (Ba)	2023/08/23		97	%	80 - 120
			Total Beryllium (Be)	2023/08/23		102	%	80 - 120
			Total Bismuth (Bi)	2023/08/23		102	%	80 - 120
			Total Boron (B)	2023/08/23		98	%	80 - 120
			Total Cadmium (Cd)	2023/08/23		99	%	80 - 120
			Total Calcium (Ca)	2023/08/23		99	%	80 - 120
			Total Chromium (Cr)	2023/08/23		96	%	80 - 120
			Total Cobalt (Co)	2023/08/23		96	%	80 - 120
			Total Copper (Cu)	2023/08/23		99	%	80 - 120
			Total Iron (Fe)	2023/08/23		97	%	80 - 120
			Total Lead (Pb)	2023/08/23		97	%	80 - 120
			Total Lithium (Li)	2023/08/23		100	%	80 - 120
			Total Magnesium (Mg)	2023/08/23		98	%	80 - 120
			Total Manganese (Mn)	2023/08/23		96	%	80 - 120
			Total Molybdenum (Mo)	2023/08/23		103	%	80 - 120
			Total Nickel (Ni)	2023/08/23		96	%	80 - 120
			Total Potassium (K)	2023/08/23		97	%	80 - 120
			Total Selenium (Se)	2023/08/23		103	%	80 - 120
			Total Silicon (Si)	2023/08/23		100	%	80 - 120
			Total Silver (Ag)	2023/08/23		98	%	80 - 120
			Total Sodium (Na)	2023/08/23		98	%	80 - 120
			Total Strontium (Sr)	2023/08/23		94	%	80 - 120
			Total Tellurium (Te)	2023/08/23		104	%	80 - 120
			Total Thallium (Tl)	2023/08/23		98	%	80 - 120
			Total Tin (Sn)	2023/08/23		99	%	80 - 120
			Total Titanium (Ti)	2023/08/23		94	%	80 - 120
			Total Tungsten (W)	2023/08/23		101	%	80 - 120
			Total Uranium (U)	2023/08/23		100	%	80 - 120
			Total Vanadium (V)	2023/08/23		96	%	80 - 120
			Total Zinc (Zn)	2023/08/23		101	%	80 - 120
			Total Zirconium (Zr)	2023/08/23		99	%	80 - 120
8868139	AFZ	Method Blank	Total Aluminum (Al)	2023/08/23	<4.9		ug/L	
			Total Antimony (Sb)	2023/08/23	<0.50		ug/L	
			Total Arsenic (As)	2023/08/23	<1.0		ug/L	
			Total Barium (Ba)	2023/08/23	<2.0		ug/L	
			Total Beryllium (Be)	2023/08/23	<0.40		ug/L	
			Total Bismuth (Bi)	2023/08/23	<1.0		ug/L	
			Total Boron (B)	2023/08/23	<10		ug/L	
			Total Cadmium (Cd)	2023/08/23	<0.090		ug/L	
			Total Calcium (Ca)	2023/08/23	<200		ug/L	
			Total Chromium (Cr)	2023/08/23	<5.0		ug/L	
			Total Cobalt (Co)	2023/08/23	<0.50		ug/L	
			Total Copper (Cu)	2023/08/23	<0.90		ug/L	
			Total Iron (Fe)	2023/08/23	<100		ug/L	
			Total Lead (Pb)	2023/08/23	<0.50		ug/L	
			Total Lithium (Li)	2023/08/23	<5.0		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Magnesium (Mg)	2023/08/23	<50		ug/L	
			Total Manganese (Mn)	2023/08/23	<2.0		ug/L	
			Total Molybdenum (Mo)	2023/08/23	<0.50		ug/L	
			Total Nickel (Ni)	2023/08/23	<1.0		ug/L	
			Total Potassium (K)	2023/08/23	<200		ug/L	
			Total Selenium (Se)	2023/08/23	<2.0		ug/L	
			Total Silicon (Si)	2023/08/23	<50		ug/L	
			Total Silver (Ag)	2023/08/23	<0.090		ug/L	
			Total Sodium (Na)	2023/08/23	<100		ug/L	
			Total Strontium (Sr)	2023/08/23	<1.0		ug/L	
			Total Tellurium (Te)	2023/08/23	<1.0		ug/L	
			Total Thallium (Tl)	2023/08/23	<0.050		ug/L	
			Total Tin (Sn)	2023/08/23	<1.0		ug/L	
			Total Titanium (Ti)	2023/08/23	<5.0		ug/L	
			Total Tungsten (W)	2023/08/23	<1.0		ug/L	
			Total Uranium (U)	2023/08/23	<0.10		ug/L	
			Total Vanadium (V)	2023/08/23	<0.50		ug/L	
			Total Zinc (Zn)	2023/08/23	<5.0		ug/L	
			Total Zirconium (Zr)	2023/08/23	<1.0		ug/L	
8868139	AFZ	RPD	Total Aluminum (Al)	2023/08/23	7.2		%	20
			Total Antimony (Sb)	2023/08/23	NC		%	20
			Total Arsenic (As)	2023/08/23	NC		%	20
			Total Barium (Ba)	2023/08/23	4.0		%	20
			Total Beryllium (Be)	2023/08/23	NC		%	20
			Total Bismuth (Bi)	2023/08/23	NC		%	20
			Total Boron (B)	2023/08/23	3.2		%	20
			Total Cadmium (Cd)	2023/08/23	NC		%	20
			Total Calcium (Ca)	2023/08/23	7.6		%	20
			Total Chromium (Cr)	2023/08/23	NC		%	20
			Total Cobalt (Co)	2023/08/23	NC		%	20
			Total Copper (Cu)	2023/08/23	3.0		%	20
			Total Iron (Fe)	2023/08/23	2.4		%	20
			Total Lead (Pb)	2023/08/23	NC		%	20
			Total Lithium (Li)	2023/08/23	8.0		%	20
			Total Magnesium (Mg)	2023/08/23	2.9		%	20
			Total Manganese (Mn)	2023/08/23	0.73		%	20
			Total Molybdenum (Mo)	2023/08/23	0.76		%	20
			Total Nickel (Ni)	2023/08/23	3.3		%	20
			Total Potassium (K)	2023/08/23	2.6		%	20
			Total Selenium (Se)	2023/08/23	NC		%	20
			Total Silicon (Si)	2023/08/23	6.8		%	20
			Total Silver (Ag)	2023/08/23	NC		%	20
			Total Sodium (Na)	2023/08/23	4.9		%	20
			Total Strontium (Sr)	2023/08/23	0.31		%	20
			Total Tellurium (Te)	2023/08/23	NC		%	20
			Total Thallium (Tl)	2023/08/23	NC		%	20
			Total Tin (Sn)	2023/08/23	NC		%	20
			Total Titanium (Ti)	2023/08/23	NC		%	20
			Total Tungsten (W)	2023/08/23	NC		%	20
			Total Uranium (U)	2023/08/23	5.6		%	20
			Total Vanadium (V)	2023/08/23	17		%	20
			Total Zinc (Zn)	2023/08/23	5.3		%	20
			Total Zirconium (Zr)	2023/08/23	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8868611	ADA	Matrix Spike [WQF985-04]	Dissolved Aluminum (Al)	2023/08/23		111	%	80 - 120
			Dissolved Antimony (Sb)	2023/08/23		107	%	80 - 120
			Dissolved Arsenic (As)	2023/08/23		105	%	80 - 120
			Dissolved Barium (Ba)	2023/08/23		102	%	80 - 120
			Dissolved Beryllium (Be)	2023/08/23		102	%	80 - 120
			Dissolved Bismuth (Bi)	2023/08/23		100	%	80 - 120
			Dissolved Boron (B)	2023/08/23		102	%	80 - 120
			Dissolved Cadmium (Cd)	2023/08/23		104	%	80 - 120
			Dissolved Calcium (Ca)	2023/08/23		110	%	80 - 120
			Dissolved Chromium (Cr)	2023/08/23		103	%	80 - 120
			Dissolved Cobalt (Co)	2023/08/23		104	%	80 - 120
			Dissolved Copper (Cu)	2023/08/23		104	%	80 - 120
			Dissolved Iron (Fe)	2023/08/23		108	%	80 - 120
			Dissolved Lead (Pb)	2023/08/23		105	%	80 - 120
			Dissolved Lithium (Li)	2023/08/23		107	%	80 - 120
			Dissolved Magnesium (Mg)	2023/08/23		108	%	80 - 120
			Dissolved Manganese (Mn)	2023/08/23		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2023/08/23		110	%	80 - 120
			Dissolved Nickel (Ni)	2023/08/23		103	%	80 - 120
			Dissolved Phosphorus (P)	2023/08/23		103	%	80 - 120
			Dissolved Potassium (K)	2023/08/23		106	%	80 - 120
			Dissolved Selenium (Se)	2023/08/23		110	%	80 - 120
			Dissolved Silicon (Si)	2023/08/23		109	%	80 - 120
			Dissolved Silver (Ag)	2023/08/23		106	%	80 - 120
			Dissolved Sodium (Na)	2023/08/23		108	%	80 - 120
			Dissolved Strontium (Sr)	2023/08/23		103	%	80 - 120
			Dissolved Tellurium (Te)	2023/08/23		101	%	80 - 120
			Dissolved Thallium (Tl)	2023/08/23		105	%	80 - 120
			Dissolved Tin (Sn)	2023/08/23		107	%	80 - 120
			Dissolved Titanium (Ti)	2023/08/23		109	%	80 - 120
			Dissolved Tungsten (W)	2023/08/23		107	%	80 - 120
			Dissolved Uranium (U)	2023/08/23		107	%	80 - 120
			Dissolved Vanadium (V)	2023/08/23		105	%	80 - 120
			Dissolved Zinc (Zn)	2023/08/23		103	%	80 - 120
			Dissolved Zirconium (Zr)	2023/08/23		111	%	80 - 120
8868611	ADA	Spiked Blank	Dissolved Aluminum (Al)	2023/08/23		105	%	80 - 120
			Dissolved Antimony (Sb)	2023/08/23		98	%	80 - 120
			Dissolved Arsenic (As)	2023/08/23		99	%	80 - 120
			Dissolved Barium (Ba)	2023/08/23		96	%	80 - 120
			Dissolved Beryllium (Be)	2023/08/23		94	%	80 - 120
			Dissolved Bismuth (Bi)	2023/08/23		90	%	80 - 120
			Dissolved Boron (B)	2023/08/23		93	%	80 - 120
			Dissolved Cadmium (Cd)	2023/08/23		96	%	80 - 120
			Dissolved Calcium (Ca)	2023/08/23		101	%	80 - 120
			Dissolved Chromium (Cr)	2023/08/23		98	%	80 - 120
			Dissolved Cobalt (Co)	2023/08/23		98	%	80 - 120
			Dissolved Copper (Cu)	2023/08/23		98	%	80 - 120
			Dissolved Iron (Fe)	2023/08/23		101	%	80 - 120
			Dissolved Lead (Pb)	2023/08/23		96	%	80 - 120
			Dissolved Lithium (Li)	2023/08/23		100	%	80 - 120
			Dissolved Magnesium (Mg)	2023/08/23		102	%	80 - 120
			Dissolved Manganese (Mn)	2023/08/23		97	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Molybdenum (Mo)	2023/08/23		102	%	80 - 120
			Dissolved Nickel (Ni)	2023/08/23		97	%	80 - 120
			Dissolved Phosphorus (P)	2023/08/23		107	%	80 - 120
			Dissolved Potassium (K)	2023/08/23		100	%	80 - 120
			Dissolved Selenium (Se)	2023/08/23		104	%	80 - 120
			Dissolved Silicon (Si)	2023/08/23		102	%	80 - 120
			Dissolved Silver (Ag)	2023/08/23		101	%	80 - 120
			Dissolved Sodium (Na)	2023/08/23		102	%	80 - 120
			Dissolved Strontium (Sr)	2023/08/23		95	%	80 - 120
			Dissolved Tellurium (Te)	2023/08/23		94	%	80 - 120
			Dissolved Thallium (Tl)	2023/08/23		97	%	80 - 120
			Dissolved Tin (Sn)	2023/08/23		100	%	80 - 120
			Dissolved Titanium (Ti)	2023/08/23		100	%	80 - 120
			Dissolved Tungsten (W)	2023/08/23		99	%	80 - 120
			Dissolved Uranium (U)	2023/08/23		100	%	80 - 120
			Dissolved Vanadium (V)	2023/08/23		99	%	80 - 120
			Dissolved Zinc (Zn)	2023/08/23		97	%	80 - 120
			Dissolved Zirconium (Zr)	2023/08/23		103	%	80 - 120
8868611	ADA	Method Blank	Dissolved Aluminum (Al)	2023/08/23	<4.9		ug/L	
			Dissolved Antimony (Sb)	2023/08/23	<0.50		ug/L	
			Dissolved Arsenic (As)	2023/08/23	<1.0		ug/L	
			Dissolved Barium (Ba)	2023/08/23	<2.0		ug/L	
			Dissolved Beryllium (Be)	2023/08/23	<0.40		ug/L	
			Dissolved Bismuth (Bi)	2023/08/23	<1.0		ug/L	
			Dissolved Boron (B)	2023/08/23	<10		ug/L	
			Dissolved Cadmium (Cd)	2023/08/23	<0.090		ug/L	
			Dissolved Calcium (Ca)	2023/08/23	<200		ug/L	
			Dissolved Chromium (Cr)	2023/08/23	<5.0		ug/L	
			Dissolved Cobalt (Co)	2023/08/23	<0.50		ug/L	
			Dissolved Copper (Cu)	2023/08/23	<0.90		ug/L	
			Dissolved Iron (Fe)	2023/08/23	<100		ug/L	
			Dissolved Lead (Pb)	2023/08/23	<0.50		ug/L	
			Dissolved Lithium (Li)	2023/08/23	<5.0		ug/L	
			Dissolved Magnesium (Mg)	2023/08/23	<50		ug/L	
			Dissolved Manganese (Mn)	2023/08/23	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2023/08/23	<0.50		ug/L	
			Dissolved Nickel (Ni)	2023/08/23	<1.0		ug/L	
			Dissolved Phosphorus (P)	2023/08/23	<100		ug/L	
			Dissolved Potassium (K)	2023/08/23	<200		ug/L	
			Dissolved Selenium (Se)	2023/08/23	<2.0		ug/L	
			Dissolved Silicon (Si)	2023/08/23	<50		ug/L	
			Dissolved Silver (Ag)	2023/08/23	<0.090		ug/L	
			Dissolved Sodium (Na)	2023/08/23	<100		ug/L	
			Dissolved Strontium (Sr)	2023/08/23	<1.0		ug/L	
			Dissolved Tellurium (Te)	2023/08/23	<1.0		ug/L	
			Dissolved Thallium (Tl)	2023/08/23	<0.050		ug/L	
			Dissolved Tin (Sn)	2023/08/23	<1.0		ug/L	
			Dissolved Titanium (Ti)	2023/08/23	<5.0		ug/L	
			Dissolved Tungsten (W)	2023/08/23	<1.0		ug/L	
			Dissolved Uranium (U)	2023/08/23	<0.10		ug/L	
			Dissolved Vanadium (V)	2023/08/23	<0.50		ug/L	
			Dissolved Zinc (Zn)	2023/08/23	<5.0		ug/L	
			Dissolved Zirconium (Zr)	2023/08/23	<1.0		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8868611	ADA	RPD [WQF985-04]	Dissolved Aluminum (Al)	2023/08/23	1.9		%	20
			Dissolved Antimony (Sb)	2023/08/23	NC		%	20
			Dissolved Arsenic (As)	2023/08/23	NC		%	20
			Dissolved Barium (Ba)	2023/08/23	6.2		%	20
			Dissolved Beryllium (Be)	2023/08/23	NC		%	20
			Dissolved Bismuth (Bi)	2023/08/23	NC		%	20
			Dissolved Boron (B)	2023/08/23	NC		%	20
			Dissolved Cadmium (Cd)	2023/08/23	NC		%	20
			Dissolved Calcium (Ca)	2023/08/23	7.1		%	20
			Dissolved Chromium (Cr)	2023/08/23	NC		%	20
			Dissolved Cobalt (Co)	2023/08/23	NC		%	20
			Dissolved Copper (Cu)	2023/08/23	NC		%	20
			Dissolved Iron (Fe)	2023/08/23	NC		%	20
			Dissolved Lead (Pb)	2023/08/23	NC		%	20
			Dissolved Lithium (Li)	2023/08/23	NC		%	20
			Dissolved Magnesium (Mg)	2023/08/23	7.8		%	20
			Dissolved Manganese (Mn)	2023/08/23	NC		%	20
			Dissolved Molybdenum (Mo)	2023/08/23	9.1		%	20
			Dissolved Nickel (Ni)	2023/08/23	NC		%	20
			Dissolved Phosphorus (P)	2023/08/23	NC		%	20
			Dissolved Potassium (K)	2023/08/23	8.9		%	20
			Dissolved Selenium (Se)	2023/08/23	NC		%	20
			Dissolved Silicon (Si)	2023/08/23	4.4		%	20
			Dissolved Silver (Ag)	2023/08/23	NC		%	20
			Dissolved Sodium (Na)	2023/08/23	7.4		%	20
			Dissolved Strontium (Sr)	2023/08/23	8.1		%	20
			Dissolved Tellurium (Te)	2023/08/23	NC		%	20
			Dissolved Thallium (Tl)	2023/08/23	NC		%	20
			Dissolved Tin (Sn)	2023/08/23	NC		%	20
			Dissolved Titanium (Ti)	2023/08/23	NC		%	20
			Dissolved Tungsten (W)	2023/08/23	NC		%	20
			Dissolved Uranium (U)	2023/08/23	NC		%	20
			Dissolved Vanadium (V)	2023/08/23	NC		%	20
			Dissolved Zinc (Zn)	2023/08/23	NC		%	20
			Dissolved Zirconium (Zr)	2023/08/23	NC		%	20
8868677	MUM	Matrix Spike [WQF986-02]	Total Phosphorus	2023/08/23		97	%	80 - 120
8868677	MUM	QC Standard	Total Phosphorus	2023/08/23		100	%	N/A
8868677	MUM	Spiked Blank	Total Phosphorus	2023/08/23		98	%	80 - 120
8868677	MUM	Method Blank	Total Phosphorus	2023/08/23	<0.020		mg/L	
8868677	MUM	RPD [WQF986-02]	Total Phosphorus	2023/08/23	NC		%	20
8868697	GID	Matrix Spike	Total Organic Carbon (TOC)	2023/08/22		93	%	80 - 120
8868697	GID	Spiked Blank	Total Organic Carbon (TOC)	2023/08/22		97	%	80 - 120
8868697	GID	Method Blank	Total Organic Carbon (TOC)	2023/08/22	<0.40		mg/L	
8868697	GID	RPD	Total Organic Carbon (TOC)	2023/08/22	3.8		%	20
8868900	GID	Matrix Spike	Dissolved Organic Carbon	2023/08/22		95	%	80 - 120
8868900	GID	Spiked Blank	Dissolved Organic Carbon	2023/08/22		99	%	80 - 120
8868900	GID	Method Blank	Dissolved Organic Carbon	2023/08/22	<0.40		mg/L	
8868900	GID	RPD	Dissolved Organic Carbon	2023/08/22	1.2		%	20
8868970	GID	Spiked Blank	Colour	2023/08/22		101	%	80 - 120
8868970	GID	Method Blank	Colour	2023/08/22	<2		TCU	
8868970	GID	RPD [WQF985-04]	Colour	2023/08/22	10		%	25
8869353	KPJ	Matrix Spike	Total Ammonia-N	2023/08/23		101	%	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

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8869353	KPJ	Spiked Blank	Total Ammonia-N	2023/08/23		101	%	80 - 120
8869353	KPJ	Method Blank	Total Ammonia-N	2023/08/23	<0.050		mg/L	
8869353	KPJ	RPD	Total Ammonia-N	2023/08/23	NC		%	20
8869459	KPJ	Matrix Spike [WQF991-01]	Total Ammonia-N	2023/08/23		102	%	75 - 125
8869459	KPJ	Spiked Blank	Total Ammonia-N	2023/08/23		102	%	80 - 120
8869459	KPJ	Method Blank	Total Ammonia-N	2023/08/23	<0.050		mg/L	
8869459	KPJ	RPD [WQF991-01]	Total Ammonia-N	2023/08/23	NC		%	20
8869856	VKH	Spiked Blank	Turbidity	2023/08/22		99	%	80 - 120
8869856	VKH	Method Blank	Turbidity	2023/08/22	<0.1		NTU	
8869856	VKH	RPD	Turbidity	2023/08/22	NC		%	20
8870287	LKH	Matrix Spike	Dissolved Bromide (Br-)	2023/08/23		100	%	80 - 120
8870287	LKH	Spiked Blank	Dissolved Bromide (Br-)	2023/08/23		100	%	80 - 120
8870287	LKH	Method Blank	Dissolved Bromide (Br-)	2023/08/23	<1.0		mg/L	
8870287	LKH	RPD	Dissolved Bromide (Br-)	2023/08/23	NC		%	20
8870291	ADB	Matrix Spike	Dissolved Chloride (Cl-)	2023/08/23		NC	%	80 - 120
8870291	ADB	Spiked Blank	Dissolved Chloride (Cl-)	2023/08/23		88	%	80 - 120
8870291	ADB	Method Blank	Dissolved Chloride (Cl-)	2023/08/23	<1.0		mg/L	
8870291	ADB	RPD	Dissolved Chloride (Cl-)	2023/08/23	2.1		%	20
8870295	ADB	Matrix Spike	Dissolved Sulphate (SO4)	2023/08/23		NC	%	75 - 125
8870295	ADB	Spiked Blank	Dissolved Sulphate (SO4)	2023/08/23		105	%	80 - 120
8870295	ADB	Method Blank	Dissolved Sulphate (SO4)	2023/08/23	<1.0		mg/L	
8870295	ADB	RPD	Dissolved Sulphate (SO4)	2023/08/23	0.34		%	20
8870301	ADB	Matrix Spike	Orthophosphate (P)	2023/08/23		96	%	75 - 125
8870301	ADB	Spiked Blank	Orthophosphate (P)	2023/08/23		94	%	80 - 120
8870301	ADB	Method Blank	Orthophosphate (P)	2023/08/23	<0.010		mg/L	
8870317	NGI	Spiked Blank	Alkalinity (Total as CaCO3)	2023/08/23		96	%	85 - 115
8870317	NGI	Method Blank	Alkalinity (Total as CaCO3)	2023/08/23	<1.0		mg/L	
8870317	NGI	RPD	Alkalinity (Total as CaCO3)	2023/08/23	3.1		%	20
8870319	NGI	Matrix Spike	Fluoride (F-)	2023/08/23		94	%	80 - 120
8870319	NGI	Spiked Blank	Fluoride (F-)	2023/08/23		97	%	80 - 120
8870319	NGI	Method Blank	Fluoride (F-)	2023/08/23	<0.10		mg/L	
8870319	NGI	RPD	Fluoride (F-)	2023/08/23	NC		%	20
8870321	NGI	Spiked Blank	pH	2023/08/23		102	%	98 - 103
8870321	NGI	RPD	pH	2023/08/23	0.39		%	N/A
8870324	NGI	Spiked Blank	Conductivity	2023/08/23		100	%	85 - 115
8870324	NGI	Method Blank	Conductivity	2023/08/23	<1.0		umho/cm	
8870324	NGI	RPD	Conductivity	2023/08/23	0.41		%	10
8870524	TLG	Matrix Spike	Total Aluminum (Al)	2023/08/23		102	%	80 - 120
			Total Antimony (Sb)	2023/08/23		108	%	80 - 120
			Total Arsenic (As)	2023/08/23		97	%	80 - 120
			Total Barium (Ba)	2023/08/23		93	%	80 - 120
			Total Beryllium (Be)	2023/08/23		93	%	80 - 120
			Total Bismuth (Bi)	2023/08/23		91	%	80 - 120
			Total Boron (B)	2023/08/23		93	%	80 - 120
			Total Cadmium (Cd)	2023/08/23		96	%	80 - 120
			Total Calcium (Ca)	2023/08/23		NC	%	80 - 120
			Total Chromium (Cr)	2023/08/23		94	%	80 - 120
			Total Cobalt (Co)	2023/08/23		94	%	80 - 120
			Total Copper (Cu)	2023/08/23		96	%	80 - 120
			Total Iron (Fe)	2023/08/23		96	%	80 - 120
			Total Lead (Pb)	2023/08/23		95	%	80 - 120
			Total Lithium (Li)	2023/08/23		97	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Magnesium (Mg)	2023/08/23		98	%	80 - 120
			Total Manganese (Mn)	2023/08/23		92	%	80 - 120
			Total Molybdenum (Mo)	2023/08/23		103	%	80 - 120
			Total Nickel (Ni)	2023/08/23		92	%	80 - 120
			Total Potassium (K)	2023/08/23		95	%	80 - 120
			Total Selenium (Se)	2023/08/23		101	%	80 - 120
			Total Silicon (Si)	2023/08/23		97	%	80 - 120
			Total Silver (Ag)	2023/08/23		97	%	80 - 120
			Total Sodium (Na)	2023/08/23		NC	%	80 - 120
			Total Strontium (Sr)	2023/08/23		93	%	80 - 120
			Total Tellurium (Te)	2023/08/23		95	%	80 - 120
			Total Thallium (Tl)	2023/08/23		98	%	80 - 120
			Total Tin (Sn)	2023/08/23		99	%	80 - 120
			Total Titanium (Ti)	2023/08/23		95	%	80 - 120
			Total Tungsten (W)	2023/08/23		99	%	80 - 120
			Total Uranium (U)	2023/08/23		99	%	80 - 120
			Total Vanadium (V)	2023/08/23		95	%	80 - 120
			Total Zinc (Zn)	2023/08/23		96	%	80 - 120
			Total Zirconium (Zr)	2023/08/23		102	%	80 - 120
8870524	TLG	Spiked Blank	Total Aluminum (Al)	2023/08/23		100	%	80 - 120
			Total Antimony (Sb)	2023/08/23		108	%	80 - 120
			Total Arsenic (As)	2023/08/23		98	%	80 - 120
			Total Barium (Ba)	2023/08/23		94	%	80 - 120
			Total Beryllium (Be)	2023/08/23		92	%	80 - 120
			Total Bismuth (Bi)	2023/08/23		92	%	80 - 120
			Total Boron (B)	2023/08/23		90	%	80 - 120
			Total Cadmium (Cd)	2023/08/23		97	%	80 - 120
			Total Calcium (Ca)	2023/08/23		97	%	80 - 120
			Total Chromium (Cr)	2023/08/23		95	%	80 - 120
			Total Cobalt (Co)	2023/08/23		96	%	80 - 120
			Total Copper (Cu)	2023/08/23		96	%	80 - 120
			Total Iron (Fe)	2023/08/23		97	%	80 - 120
			Total Lead (Pb)	2023/08/23		98	%	80 - 120
			Total Lithium (Li)	2023/08/23		96	%	80 - 120
			Total Magnesium (Mg)	2023/08/23		97	%	80 - 120
			Total Manganese (Mn)	2023/08/23		93	%	80 - 120
			Total Molybdenum (Mo)	2023/08/23		102	%	80 - 120
			Total Nickel (Ni)	2023/08/23		94	%	80 - 120
			Total Potassium (K)	2023/08/23		95	%	80 - 120
			Total Selenium (Se)	2023/08/23		104	%	80 - 120
			Total Silicon (Si)	2023/08/23		97	%	80 - 120
			Total Silver (Ag)	2023/08/23		97	%	80 - 120
			Total Sodium (Na)	2023/08/23		98	%	80 - 120
			Total Strontium (Sr)	2023/08/23		94	%	80 - 120
			Total Tellurium (Te)	2023/08/23		95	%	80 - 120
			Total Thallium (Tl)	2023/08/23		98	%	80 - 120
			Total Tin (Sn)	2023/08/23		99	%	80 - 120
			Total Titanium (Ti)	2023/08/23		96	%	80 - 120
			Total Tungsten (W)	2023/08/23		99	%	80 - 120
			Total Uranium (U)	2023/08/23		100	%	80 - 120
			Total Vanadium (V)	2023/08/23		95	%	80 - 120
			Total Zinc (Zn)	2023/08/23		99	%	80 - 120
			Total Zirconium (Zr)	2023/08/23		100	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8870524	TLG	Method Blank	Total Aluminum (Al)	2023/08/23	<4.9		ug/L	
			Total Antimony (Sb)	2023/08/23	<0.50		ug/L	
			Total Arsenic (As)	2023/08/23	<1.0		ug/L	
			Total Barium (Ba)	2023/08/23	<2.0		ug/L	
			Total Beryllium (Be)	2023/08/23	<0.40		ug/L	
			Total Bismuth (Bi)	2023/08/23	<1.0		ug/L	
			Total Boron (B)	2023/08/23	<10		ug/L	
			Total Cadmium (Cd)	2023/08/23	<0.090		ug/L	
			Total Calcium (Ca)	2023/08/23	<200		ug/L	
			Total Chromium (Cr)	2023/08/23	<5.0		ug/L	
			Total Cobalt (Co)	2023/08/23	<0.50		ug/L	
			Total Copper (Cu)	2023/08/23	<0.90		ug/L	
			Total Iron (Fe)	2023/08/23	<100		ug/L	
			Total Lead (Pb)	2023/08/23	<0.50		ug/L	
			Total Lithium (Li)	2023/08/23	<5.0		ug/L	
			Total Magnesium (Mg)	2023/08/23	<50		ug/L	
			Total Manganese (Mn)	2023/08/23	<2.0		ug/L	
			Total Molybdenum (Mo)	2023/08/23	<0.50		ug/L	
			Total Nickel (Ni)	2023/08/23	<1.0		ug/L	
			Total Potassium (K)	2023/08/23	<200		ug/L	
			Total Selenium (Se)	2023/08/23	<2.0		ug/L	
			Total Silicon (Si)	2023/08/23	<50		ug/L	
			Total Silver (Ag)	2023/08/23	<0.090		ug/L	
			Total Sodium (Na)	2023/08/23	<100		ug/L	
			Total Strontium (Sr)	2023/08/23	<1.0		ug/L	
			Total Tellurium (Te)	2023/08/23	<1.0		ug/L	
			Total Thallium (Tl)	2023/08/23	<0.050		ug/L	
			Total Tin (Sn)	2023/08/23	<1.0		ug/L	
			Total Titanium (Ti)	2023/08/23	<5.0		ug/L	
			Total Tungsten (W)	2023/08/23	<1.0		ug/L	
			Total Uranium (U)	2023/08/23	<0.10		ug/L	
			Total Vanadium (V)	2023/08/23	<0.50		ug/L	
			Total Zinc (Zn)	2023/08/23	<5.0		ug/L	
			Total Zirconium (Zr)	2023/08/23	<1.0		ug/L	
8870524	TLG	RPD	Total Aluminum (Al)	2023/08/23	5.7		%	20
			Total Antimony (Sb)	2023/08/23	7.1		%	20
			Total Arsenic (As)	2023/08/23	2.3		%	20
			Total Barium (Ba)	2023/08/23	4.3		%	20
			Total Beryllium (Be)	2023/08/23	NC		%	20
			Total Bismuth (Bi)	2023/08/23	NC		%	20
			Total Boron (B)	2023/08/23	0.78		%	20
			Total Cadmium (Cd)	2023/08/23	NC		%	20
			Total Calcium (Ca)	2023/08/23	5.0		%	20
			Total Chromium (Cr)	2023/08/23	NC		%	20
			Total Cobalt (Co)	2023/08/23	NC		%	20
			Total Copper (Cu)	2023/08/23	7.8		%	20
			Total Lead (Pb)	2023/08/23	NC		%	20
			Total Lithium (Li)	2023/08/23	3.0		%	20
			Total Magnesium (Mg)	2023/08/23	2.2		%	20
			Total Manganese (Mn)	2023/08/23	2.2		%	20
			Total Molybdenum (Mo)	2023/08/23	3.8		%	20
			Total Nickel (Ni)	2023/08/23	0.72		%	20
			Total Potassium (K)	2023/08/23	2.6		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Selenium (Se)	2023/08/23	NC		%	20
			Total Silicon (Si)	2023/08/23	4.9		%	20
			Total Silver (Ag)	2023/08/23	NC		%	20
			Total Sodium (Na)	2023/08/23	2.1		%	20
			Total Strontium (Sr)	2023/08/23	0.61		%	20
			Total Tellurium (Te)	2023/08/23	NC		%	20
			Total Thallium (Tl)	2023/08/23	NC		%	20
			Total Tin (Sn)	2023/08/23	NC		%	20
			Total Titanium (Ti)	2023/08/23	NC		%	20
			Total Tungsten (W)	2023/08/23	1.1		%	20
			Total Vanadium (V)	2023/08/23	5.9		%	20
			Total Zinc (Zn)	2023/08/23	NC		%	20
8871325	HGV	Matrix Spike	Reactive Silica (SiO2)	2023/08/24		NC	%	80 - 120
8871325	HGV	Spiked Blank	Reactive Silica (SiO2)	2023/08/24		94	%	80 - 120
8871325	HGV	Method Blank	Reactive Silica (SiO2)	2023/08/24	<0.50		mg/L	
8871325	HGV	RPD	Reactive Silica (SiO2)	2023/08/24	1.5		%	20
8877968	VKH	Spiked Blank	Turbidity	2023/08/25		99	%	80 - 120
8877968	VKH	Method Blank	Turbidity	2023/08/25	<0.1		NTU	
8877968	VKH	RPD	Turbidity	2023/08/25	0.48		%	20
8878524	VRO	Matrix Spike [WQF986-05]	Nitrite (N)	2023/08/27		128 (2)	%	80 - 120
			Nitrate (N)	2023/08/27		120	%	80 - 120
8878524	VRO	Spiked Blank	Nitrite (N)	2023/08/27		106	%	80 - 120
			Nitrate (N)	2023/08/27		98	%	80 - 120
8878524	VRO	Method Blank	Nitrite (N)	2023/08/27	<0.010		mg/L	
			Nitrate (N)	2023/08/27	<0.10		mg/L	
8878524	VRO	RPD [WQF986-05]	Nitrite (N)	2023/08/27	NC		%	20
			Nitrate (N)	2023/08/27	NC		%	20
8878525	SUR	Matrix Spike	Dissolved Bromide (Br-)	2023/08/29		96	%	80 - 120
8878525	SUR	Spiked Blank	Dissolved Bromide (Br-)	2023/08/29		97	%	80 - 120
8878525	SUR	Method Blank	Dissolved Bromide (Br-)	2023/08/29	<1.0		mg/L	
8878525	SUR	RPD	Dissolved Bromide (Br-)	2023/08/29	NC		%	20
8878528	SUR	Matrix Spike [WQF986-05]	Dissolved Bromide (Br-)	2023/08/28		101	%	80 - 120
8878528	SUR	Spiked Blank	Dissolved Bromide (Br-)	2023/08/28		107	%	80 - 120
8878528	SUR	Method Blank	Dissolved Bromide (Br-)	2023/08/28	<1.0		mg/L	
8878528	SUR	RPD [WQF986-05]	Dissolved Bromide (Br-)	2023/08/28	NC		%	20
8879338	ADB	Matrix Spike	Dissolved Chloride (Cl-)	2023/08/28		NC	%	80 - 120
8879338	ADB	Spiked Blank	Dissolved Chloride (Cl-)	2023/08/28		100	%	80 - 120
8879338	ADB	Method Blank	Dissolved Chloride (Cl-)	2023/08/28	<1.0		mg/L	
8879338	ADB	RPD	Dissolved Chloride (Cl-)	2023/08/28	2.9		%	20
8879348	ADB	Matrix Spike	Orthophosphate (P)	2023/08/28		95	%	75 - 125
8879348	ADB	Spiked Blank	Orthophosphate (P)	2023/08/28		94	%	80 - 120
8879348	ADB	Method Blank	Orthophosphate (P)	2023/08/28	<0.010		mg/L	
8879348	ADB	RPD	Orthophosphate (P)	2023/08/28	4.2		%	20
8879349	ADB	Matrix Spike	Dissolved Sulphate (SO4)	2023/08/28		NC	%	75 - 125
8879349	ADB	Spiked Blank	Dissolved Sulphate (SO4)	2023/08/28		101	%	80 - 120
8879349	ADB	Method Blank	Dissolved Sulphate (SO4)	2023/08/28	<1.0		mg/L	
8879349	ADB	RPD	Dissolved Sulphate (SO4)	2023/08/28	1.5		%	20
8879717	NGI	Spiked Blank	pH	2023/08/26		102	%	98 - 103
8879717	NGI	RPD	pH	2023/08/26	0.051		%	N/A
8879740	NGI	Spiked Blank	Alkalinity (Total as CaCO3)	2023/08/26		96	%	85 - 115
8879740	NGI	Method Blank	Alkalinity (Total as CaCO3)	2023/08/26	<1.0		mg/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8879740	NGI	RPD	Alkalinity (Total as CaCO3)	2023/08/26	2.0		%	20
8879744	NGI	Spiked Blank	Conductivity	2023/08/26		101	%	85 - 115
8879744	NGI	Method Blank	Conductivity	2023/08/26	<1.0		umho/cm	
8879744	NGI	RPD	Conductivity	2023/08/26	0.82		%	10
8879750	NGI	Matrix Spike	Fluoride (F-)	2023/08/26		95	%	80 - 120
8879750	NGI	Spiked Blank	Fluoride (F-)	2023/08/26		99	%	80 - 120
8879750	NGI	Method Blank	Fluoride (F-)	2023/08/26	<0.10		mg/L	
8879750	NGI	RPD	Fluoride (F-)	2023/08/26	0		%	20
8879758	NGI	Matrix Spike [WQF986-06]	Fluoride (F-)	2023/08/26		99	%	80 - 120
8879758	NGI	Spiked Blank	Fluoride (F-)	2023/08/26		101	%	80 - 120
8879758	NGI	Method Blank	Fluoride (F-)	2023/08/26	<0.10		mg/L	
8879758	NGI	RPD [WQF986-06]	Fluoride (F-)	2023/08/26	NC		%	20
8879763	NGI	Spiked Blank	Alkalinity (Total as CaCO3)	2023/08/26		96	%	85 - 115
8879763	NGI	Method Blank	Alkalinity (Total as CaCO3)	2023/08/26	<1.0		mg/L	
8879763	NGI	RPD [WQF986-06]	Alkalinity (Total as CaCO3)	2023/08/26	0.86		%	20
8879767	NGI	Spiked Blank	Conductivity	2023/08/26		101	%	85 - 115
8879767	NGI	Method Blank	Conductivity	2023/08/26	<1.0		umho/cm	
8879767	NGI	RPD [WQF986-06]	Conductivity	2023/08/26	0.14		%	10
8879782	NGI	Spiked Blank	pH	2023/08/26		101	%	98 - 103
8879782	NGI	RPD [WQF986-06]	pH	2023/08/26	0.78		%	N/A
8891248	éH2	Matrix Spike	Dissolved Nitrite (N)	2023/08/27		103	%	80 - 120
			Dissolved Nitrate plus Nitrite (N)	2023/08/27		121 (2)	%	N/A
8891248	éH2	Spiked Blank	Dissolved Nitrite (N)	2023/08/27		96	%	80 - 120
			Dissolved Nitrate plus Nitrite (N)	2023/08/27		106	%	N/A
8891248	éH2	Method Blank	Dissolved Nitrite (N)	2023/08/31	<0.010		mg/L	
			Dissolved Nitrate plus Nitrite (N)	2023/08/31	<0.010		mg/L	
8891248	éH2	RPD	Dissolved Nitrite (N)	2023/08/27	NC		%	20
			Dissolved Nitrate plus Nitrite (N)	2023/08/27	NC		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate: results are outside acceptance limit. Sample was past recommended hold time for repeat analysis.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

Cristina Carriere, Senior Scientific Specialist

Janah Rhyno, Scientific Specialist

Mike MacGillivray, Scientific Specialist (Inorganics)

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Certified by Janah Rhyno, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#2292 WSP Canada Inc.	Company Name:	WSP CANADA INC	Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Samantha Pelayo Cazares	P.O. #:		C3N9603	945497
Address:	100 Scotia Crt Whitby ON L1N 8Y6	Address:		Project:		COC #:	Project Manager:
Tel:	(905) 723-2727 Fax: (905) 723-2182	Tel:	Fax:	Project Name:		C#945497-01-02	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	samantha.pelayocazares@wsp.com	Site #:			
				Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Hardness (calculated as CaCO3)	Dissolved Organic Carbon (DOC)	Total Dissolved Solids	Total Suspended Solids	Acidity (CaCO3) in water	Nutrients	Ammonia	General Chem			# of Bottles	Comments
1	WC-03 (S4)		July 31		WATER	✓		✓	✓	✓	✓	✓	✓	✓			6	
2	MILLS-02-SURFACE		July 31		WATER	✓		✓	✓	✓	✓	✓	✓	✓			6	
3	MILLS-02-BOTTOM		July 31		WATER	✓		✓	✓	✓	✓	✓	✓	✓			6	
4	WC-06 (S5)		Aug 3		WATER	✓		✓	✓	✓	✓	✓	✓	✓			6	
5	WC-07		Aug 3		WATER	✓		✓	✓	✓	✓	✓	✓	✓			6	
6	WC-08		Aug 3		WATER	✓		✓	✓	✓	✓	✓	✓	✓			6	
7	LONG-02-		Aug 3		WATER	✓		✓	✓	✓	✓	✓	✓	✓			6	
8	LONG-02-BOTTOM		Aug 3		WATER	✓		✓	✓	✓	✓	✓	✓	✓			6	
9																		
10																		

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☐
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Matthew Gosse			Susan Lucy	2023/08/07	2:30pm	
Alexis Jarvis	Aug 4, 2023	9:00				

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3.9, 5.8, 7.1	Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

AUG 07 2023

Parameter
General Chemistry
pH
Acidity
Total Alkalinity (Total as CaCO3)
Bicarb. Alkalinity (calc. as CaCO3)
Carb. Alkalinity (calc. as CaCO3)
Conductivity
Hardness (CaCO3)
Dissolved Organic Carbon (C)
Total Suspended Solids
Total Dissolved Solids
Turbidity
Extras
Anion Sum
Cation Sum
Calculated TDS
Ion Balance (% Difference)
Langelier Index (@ 20C)
Langelier Index (@ 4C)
Saturation pH (@ 20C)
Saturation pH (@ 4C)
Colour
Salinity
Strong Acid Dissoc. Cyanide (CN)
Orthophosphate (P)
Total Organic Carbon (C)
Dissolved Sulphate (SO4)
Reactive Silica (SiO2)
Anions and Nutrients
Nitrate (N)
Nitrate + Nitrite
Nitrite (N)
Nitrogen (Ammonia Nitrogen)
Dissolved Chloride (Cl)
Dissolved Fluoride (F-)
Total Phosphorus
Meajor cations, trace metals and metalloids (dissolved and total)
Aluminum (Al)
Aluminum (Al)
Antimony (Sb)
Arsenic (As)
Barium (Ba)
Beryllium (Be)
Bismuth (Bi)

Parameter
Hydrocarbons/PAHs
1-Methylnaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(j)fluoranthene
Benzo(k)fluoranthene
Chrysene
Dibenz(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Perylene
Phenanthrene
Pyrene
Surrogate Recovery (%)
D10-Anthracene
D14-Terphenyl
D8-Acenaphthylene
BTEX & F1 Hydrocarbons
Benzene
Toluene
Ethylbenzene
o-Xylene
p+m-Xylene
Total Xylenes
F1 (C6-C10)
F1 (C6-C10) - BTEX
F2-F4 Hydrocarbons
F4G-sg (Grav. Heavy Hydrocarbons)
F2 (C10-C16 Hydrocarbons)
F3 (C16-C34 Hydrocarbons)
F4 (C34-C50 Hydrocarbons)
Reached Baseline at C50
Surrogate Recovery (%)
1,4-Difluorobenzene
4-Bromofluorobenzene
D10-Ethylbenzene

Boron (B)
Cadmium (Cd)
Calcium (Ca)
Chromium (Cr)
Cobalt (Co)
Copper (Cu)
Iron (Fe)
Lead (Pb)
Magnesium (Mg)
Manganese (Mn)
Mercury (Hg)
Molybdenum (Mo)
Nickel (Ni)
Phosphorus (P)
Potassium (K)
Selenium (Se)
Silicon (Si)
Silver (Ag)
Sodium (Na)
Strontium (Sr)
Sulphur (S)
Tellurium (Te)
Thallium (Tl)
Tin (Sn)
Titanium (Ti)
Uranium (U)
Vanadium (V)
Zinc (Zn)
Radiunuclides
Radium 226
Thorium 230
Lead 210
Polonium 210

D4-1,2-Dichloroethane
o-Terphenyl

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-03-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401240
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2178
Received: 2023/08/18, 14:33

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	10	N/A	2023/08/23	CAM SOP-00448	SM 23 2320 B m
Anions	10	N/A	2023/08/23	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	10	N/A	2023/08/23	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	10	N/A	2023/08/23	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (3)	10	N/A	2023/08/23	CAM SOP-00446	SM 23 5310 B m
Fluoride	10	2023/08/22	2023/08/23	CAM SOP-00449	SM 24 4500-F C m
Hardness (calculated as CaCO3)	10	N/A	2023/08/25	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Mercury in Water by CVAA	10	2023/08/25	2023/08/25	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	8	2023/08/24	2023/08/24	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	1	2023/08/25	2023/08/25	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	10	N/A	2023/08/24	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	10	2023/08/24	2023/08/25	CAM SOP-00447	EPA 6020B m
Total Extractable Lanthanides-waters (1, 4)	10	2023/08/23	2023/08/24	STL SOP-00071	MA.200–Mét. 1.2 R7 m
Dissolved Lanthanides- waters (1, 4)	10	N/A	2023/08/24	STL SOP-00071	MA.200–Mét. 1.2 R5 m
Nitrate and Nitrite (2)	10	N/A	2023/08/29		
NO2 - NO2 + NO3 (N) in Water (2)	10	N/A	2023/08/27	AB SOP-00091	SM 24 4500 NO3m
Nitrate (as N) (2)	10	2023/08/28	2023/08/29	Auto Calc	Auto Calc
Total Ammonia (as NH3)	10	N/A	2023/08/24	Auto Calc.	
Total Ammonia-N	10	N/A	2023/08/24	CAM SOP-00441	USGS I-2522-90 m
pH (5)	10	2023/08/22	2023/08/23	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (6)	10	N/A	2023/09/01		Field pH Meter
Orthophosphate	10	N/A	2023/08/23	CAM SOP-00461	SM 24 4500-P E
Sulphate by Automated Turbidimetry	10	N/A	2023/08/23	CAM SOP-00464	SM 24 4500-SO42- E m
Total Dissolved Solids	10	2023/08/24	2023/08/25	CAM SOP-00428	SM 23 2540C m
Field Temperature (6)	10	N/A	2023/09/01		Field Thermometer
Total Phosphorus (Colourimetric)	10	2023/08/24	2023/08/25	CAM SOP-00407	SM 23 4500-P I
Total Suspended Solids	10	2023/08/24	2023/08/25	CAM SOP-00428	SM 23 2540D m
Un-ionized Ammonia (7)	10	2023/08/21	2023/09/01	Auto Calc.	PWQO

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-03-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
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Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401240
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2178
Received: 2023/08/18, 14:33
Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Montreal., 889 Montée de Liesse , Ville St-Laurent, QC, H4T 1P5
(2) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) Non-accredited test method
(5) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

(6) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.
(7) Un-ionized ammonia is calculated using the total ammonia result and field data provided by the client for pH and temperature.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-03-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
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Report Date: 2024/11/12
Report #: R8401240
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CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2178
Received: 2023/08/18, 14:33

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3P2178
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV467			WSV468			WSV469		
Sampling Date		2023/08/12 13:30			2023/08/13 14:45			2023/08/13 15:00		
COC Number		945899-03-01			945899-03-01			945899-03-01		
	UNITS	PL-02 NS	RDL	QC Batch	MOL-02 NB	RDL	QC Batch	MOL-02 NS	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8866393	<0.061	0.061	8866393	<0.061	0.061	8866393
Hardness (CaCO3)	mg/L	38	1.0	8866245	30	1.0	8866245	29	1.0	8866245
Dissolved Nitrate (N)	mg/L	<0.050	0.050	8899567	0.053	0.010	8899567	<0.010	0.010	8899567
Dissolved Nitrate (NO3)	mg/L	<0.044	0.044	8888252	0.24	0.044	8888252	<0.044	0.044	8886515
Dissolved Nitrite (NO2)	mg/L	<0.033	0.033	8888252	<0.033	0.033	8888252	<0.033	0.033	8886515
Total Un-ionized Ammonia	mg/L	<0.00086	0.00086	8866395	<0.00061	0.00061	8866395	<0.00098	0.00098	8866395
Field Measurements										
Field Temperature	Celsius	17.4	N/A	ONSITE	6.3	N/A	ONSITE	17.4	N/A	ONSITE
Field Measured pH	pH	7.64		ONSITE	6.45		ONSITE	7.70		ONSITE
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	8870004	<0.050	0.050	8870004	<0.050	0.050	8870004
Conductivity	umho/cm	79	1.0	8870324	62	1.0	8870324	62	1.0	8870324
Total Dissolved Solids	mg/L	50	10	8875451	45	10	8875451	35	10	8875451
Fluoride (F-)	mg/L	<0.10	0.10	8870319	<0.10	0.10	8870319	<0.10	0.10	8870319
Dissolved Organic Carbon	mg/L	4.4	0.40	8869950	3.1	0.40	8869950	3.2	0.40	8869950
Orthophosphate (P)	mg/L	<0.010	0.010	8870301	<0.010	0.010	8870301	<0.010	0.010	8870301
pH	pH	7.40		8870321	7.20		8870321	7.37		8870321
Total Phosphorus	mg/L	0.032	0.020	8874895	<0.020	0.020	8874882	<0.020	0.020	8874882
Total Suspended Solids	mg/L	<10	10	8873507	<10	10	8873507	<10	10	8873507
Dissolved Sulphate (SO4)	mg/L	3.8	1.0	8870295	2.9	1.0	8870295	3.1	1.0	8870295
Alkalinity (Total as CaCO3)	mg/L	38	1.0	8870317	29	1.0	8870317	30	1.0	8870317
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8870291	<1.0	1.0	8870291	<1.0	1.0	8870291
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8870287	<1.0	1.0	8870287	<1.0	1.0	8870287
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898336	<2.0	2.0	8898336	<2.0	2.0	8898336
Total Yttrium (Y)	ug/L	<2.0	2.0	8898334	<2.0	2.0	8899974	<2.0	2.0	8899974
Nutritional Parameters										
Dissolved Nitrite (N)	mg/L	<0.010	0.010	8885396	<0.010	0.010	8885396	<0.010	0.010	8885396
Dissolved Nitrate plus Nitrite (N)	mg/L	<0.050	0.050	8885396	0.053	0.010	8885396	<0.010	0.010	8885396

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2178
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV470			WSV470			WSV471		
Sampling Date		2023/08/13 19:00			2023/08/13 19:00			2023/08/13 19:20		
COC Number		945899-03-01			945899-03-01			945899-03-01		
	UNITS	MIL-02 NS	RDL	QC Batch	MIL-02 NS Lab-Dup	RDL	QC Batch	MIL-02 NB	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8866393				<0.061	0.061	8866393
Hardness (CaCO3)	mg/L	38	1.0	8866245				36	1.0	8866245
Dissolved Nitrate (N)	mg/L	<0.010	0.010	8887928				0.020	0.010	8887928
Dissolved Nitrate (NO3)	mg/L	<0.044	0.044	8886515				0.087	0.044	8886515
Dissolved Nitrite (NO2)	mg/L	<0.033	0.033	8886515				<0.033	0.033	8886515
Total Un-ionized Ammonia	mg/L	<0.0011	0.0011	8866395				<0.00061	0.00061	8866395
Field Measurements										
Field Temperature	Celsius	17.5	N/A	ONSITE				8.2	N/A	ONSITE
Field Measured pH	pH	7.73		ONSITE				6.82		ONSITE
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	8870004	<0.050	0.050	8870004	<0.050	0.050	8870004
Conductivity	umho/cm	73	1.0	8870324				73	1.0	8870324
Total Dissolved Solids	mg/L	50	10	8875451				60	10	8875451
Fluoride (F-)	mg/L	<0.10	0.10	8870319				<0.10	0.10	8870319
Dissolved Organic Carbon	mg/L	3.0	0.40	8869950				2.7	0.40	8869950
Orthophosphate (P)	mg/L	<0.010	0.010	8870301				<0.010	0.010	8870972
pH	pH	7.43		8870321				7.39		8870321
Total Phosphorus	mg/L	<0.020	0.020	8874882				<0.020	0.020	8874882
Total Suspended Solids	mg/L	<10	10	8873507				<10	10	8873507
Dissolved Sulphate (SO4)	mg/L	3.1	1.0	8870295				3.0	1.0	8870973
Alkalinity (Total as CaCO3)	mg/L	35	1.0	8870317				36	1.0	8870317
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8870291				<1.0	1.0	8870953
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8870287				<1.0	1.0	8870287
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898336				<2.0	2.0	8898336
Total Yttrium (Y)	ug/L	<2.0	2.0	8899974				<2.0	2.0	8899974
Nutritional Parameters										
Dissolved Nitrite (N)	mg/L	<0.010	0.010	8885396				<0.010	0.010	8885396
Dissolved Nitrate plus Nitrite (N)	mg/L	<0.010	0.010	8885396				0.020	0.010	8885396

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2178
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV472			WSV472			WSV473		
Sampling Date		2023/08/14 11:30			2023/08/14 11:30			2023/08/14 11:50		
COC Number		945899-03-01			945899-03-01			945899-03-01		
	UNITS	MIL-03 NS	RDL	QC Batch	MIL-03 NS Lab-Dup	RDL	QC Batch	MIL-03 NB	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8866393				<0.061	0.061	8866393
Hardness (CaCO3)	mg/L	37	1.0	8866245				37	1.0	8866245
Dissolved Nitrate (N)	mg/L	0.013	0.010	8887928				0.038	0.010	8887928
Dissolved Nitrate (NO3)	mg/L	0.056	0.044	8886515				0.17	0.044	8886515
Dissolved Nitrite (NO2)	mg/L	<0.033	0.033	8886515				<0.033	0.033	8886515
Total Un-ionized Ammonia	mg/L	<0.00076	0.00076	8866395				<0.00061	0.00061	8866395
Field Measurements										
Field Temperature	Celsius	17.3	N/A	ONSITE				7.5	N/A	ONSITE
Field Measured pH	pH	7.59		ONSITE				6.85		ONSITE
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	8870004				<0.050	0.050	8870004
Conductivity	umho/cm	74	1.0	8870324				74	1.0	8870324
Total Dissolved Solids	mg/L	40	10	8875451				45	10	8875451
Fluoride (F-)	mg/L	<0.10	0.10	8870319				<0.10	0.10	8870319
Dissolved Organic Carbon	mg/L	3.1	0.40	8869950				2.9	0.40	8869950
Orthophosphate (P)	mg/L	<0.010	0.010	8870301				<0.010	0.010	8870301
pH	pH	7.45		8870321				7.35		8870321
Total Phosphorus	mg/L	<0.020	0.020	8874882				<0.020	0.020	8874882
Total Suspended Solids	mg/L	<10	10	8873507				<10	10	8873507
Dissolved Sulphate (SO4)	mg/L	3.1	1.0	8870295				3.0	1.0	8870295
Alkalinity (Total as CaCO3)	mg/L	36	1.0	8870317				36	1.0	8870317
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8870291				<1.0	1.0	8870291
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8870287				<1.0	1.0	8870287
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898336				<2.0	2.0	8898336
Total Yttrium (Y)	ug/L	<2.0	2.0	8899974				<2.0	2.0	8899974
Nutritional Parameters										
Dissolved Nitrite (N)	mg/L	<0.010	0.010	8885396	<0.010	0.010	8885396	<0.010	0.010	8885396
Dissolved Nitrate plus Nitrite (N)	mg/L	0.013	0.010	8885396	0.017	0.010	8885396	0.038	0.010	8885396

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV473			WSV474		WSV475		
Sampling Date		2023/08/14 11:50			2023/08/14 14:00		2023/08/14 16:00		
COC Number		945899-03-01			945899-03-01		945899-03-01		
	UNITS	MIL-03 NB Lab-Dup	RDL	QC Batch	WC-03	RDL	WC-04	RDL	QC Batch
Calculated Parameters									
Total Ammonia (as NH3)	mg/L				<0.061	0.061	<0.061	0.061	8866393
Hardness (CaCO3)	mg/L				30	1.0	36	1.0	8866245
Dissolved Nitrate (N)	mg/L				<0.010	0.010	0.011	0.010	8887928
Dissolved Nitrate (NO3)	mg/L				<0.044	0.044	0.051	0.044	8886515
Dissolved Nitrite (NO2)	mg/L				<0.033	0.033	<0.033	0.033	8886515
Total Un-ionized Ammonia	mg/L				<0.00063	0.00063	<0.0011	0.0011	8866395
Field Measurements									
Field Temperature	Celsius				16.7	N/A	17.0	N/A	ONSITE
Field Measured pH	pH				7.53		7.76		ONSITE
Inorganics									
Total Ammonia-N	mg/L				<0.050	0.050	<0.050	0.050	8870004
Conductivity	umho/cm				62	1.0	73	1.0	8870324
Total Dissolved Solids	mg/L				45	10	55	10	8875451
Fluoride (F-)	mg/L				<0.10	0.10	<0.10	0.10	8870319
Dissolved Organic Carbon	mg/L	2.9	0.40	8869950	3.2	0.40	3.0	0.40	8869950
Orthophosphate (P)	mg/L				<0.010	0.010	<0.010	0.010	8870301
pH	pH				7.34		7.35		8870321
Total Phosphorus	mg/L				<0.020	0.020	<0.020	0.020	8874882
Total Suspended Solids	mg/L				<10	10	<10	10	8873507
Dissolved Sulphate (SO4)	mg/L				3.0	1.0	3.0	1.0	8870295
Alkalinity (Total as CaCO3)	mg/L				29	1.0	35	1.0	8870317
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	<1.0	1.0	8870291
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	<1.0	1.0	8870287
Metals									
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	<2.0	2.0	8898336
Total Yttrium (Y)	ug/L				<2.0	2.0	<2.0	2.0	8899974
Nutritional Parameters									
Dissolved Nitrite (N)	mg/L				<0.010	0.010	<0.010	0.010	8885396
Dissolved Nitrate plus Nitrite (N)	mg/L				<0.010	0.010	0.011	0.010	8885396

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV475			WSV476		
Sampling Date		2023/08/14 16:00			2023/08/15 13:00		
COC Number		945899-03-01			945899-03-01		
	UNITS	WC-04 Lab-Dup	RDL	QC Batch	LL-02 NS	RDL	QC Batch
Calculated Parameters							
Total Ammonia (as NH3)	mg/L				<0.061	0.061	8866393
Hardness (CaCO3)	mg/L				36	1.0	8866245
Dissolved Nitrate (N)	mg/L				<0.010	0.010	8887928
Dissolved Nitrate (NO3)	mg/L				<0.044	0.044	8886515
Dissolved Nitrite (NO2)	mg/L				<0.033	0.033	8886515
Total Un-ionized Ammonia	mg/L				<0.00085	0.00085	8866395
Field Measurements							
Field Temperature	Celsius				17.0	N/A	ONSITE
Field Measured pH	pH				7.65		ONSITE
Inorganics							
Total Ammonia-N	mg/L				<0.050	0.050	8870004
Conductivity	umho/cm	73	1.0	8870324	73	1.0	8870324
Total Dissolved Solids	mg/L				65	10	8875451
Fluoride (F-)	mg/L	<0.10	0.10	8870319	<0.10	0.10	8870319
Dissolved Organic Carbon	mg/L				3.2	0.40	8869950
Orthophosphate (P)	mg/L				<0.010	0.010	8870301
pH	pH	7.38		8870321	7.46		8870321
Total Phosphorus	mg/L				<0.020	0.020	8874882
Total Suspended Solids	mg/L				<10	10	8873507
Dissolved Sulphate (SO4)	mg/L				3.2	1.0	8870295
Alkalinity (Total as CaCO3)	mg/L	36	1.0	8870317	34	1.0	8870317
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	8870291
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	8870287
Metals							
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	8899975
Total Yttrium (Y)	ug/L				<2.0	2.0	8899974
Nutritional Parameters							
Dissolved Nitrite (N)	mg/L				<0.010	0.010	8885396
Dissolved Nitrate plus Nitrite (N)	mg/L				<0.010	0.010	8885396

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV467			WSV468	WSV469	WSV470		
Sampling Date		2023/08/12 13:30			2023/08/13 14:45	2023/08/13 15:00	2023/08/13 19:00		
COC Number		945899-03-01			945899-03-01	945899-03-01	945899-03-01		
	UNITS	PL-02 NS	RDL	QC Batch	MOL-02 NB	MOL-02 NS	MIL-02 NS	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L				<0.00010	<0.00010	<0.00010	0.00010	8874515
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	8876686	<0.10	<0.10	<0.10	0.10	8876686
Dissolved Aluminum (Al)	ug/L	6.2	4.9	8870905	8.4	8.4	5.3	4.9	8870905
Total Aluminum (Al)	ug/L	12	4.9	8873542	11	11	8.8	4.9	8873542
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8870905	<0.50	<0.50	<0.50	0.50	8870905
Total Antimony (Sb)	ug/L	<0.50	0.50	8873542	<0.50	<0.50	<0.50	0.50	8873542
Dissolved Arsenic (As)	ug/L	<1.0	1.0	8870905	<1.0	<1.0	<1.0	1.0	8870905
Total Arsenic (As)	ug/L	<1.0	1.0	8873542	<1.0	<1.0	<1.0	1.0	8873542
Dissolved Barium (Ba)	ug/L	13	2.0	8870905	8.0	8.7	9.3	2.0	8870905
Total Barium (Ba)	ug/L	13	2.0	8873542	7.8	7.7	10	2.0	8873542
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8870905	<0.40	<0.40	<0.40	0.40	8870905
Total Beryllium (Be)	ug/L	<0.40	0.40	8873542	<0.40	<0.40	<0.40	0.40	8873542
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8870905	<1.0	<1.0	<1.0	1.0	8870905
Total Bismuth (Bi)	ug/L	<1.0	1.0	8873542	<1.0	<1.0	<1.0	1.0	8873542
Dissolved Boron (B)	ug/L	<10	10	8870905	<10	<10	<10	10	8870905
Total Boron (B)	ug/L	<10	10	8873542	<10	<10	<10	10	8873542
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8870905	<0.090	<0.090	<0.090	0.090	8870905
Total Cadmium (Cd)	ug/L	<0.090	0.090	8873542	<0.090	<0.090	<0.090	0.090	8873542
Dissolved Calcium (Ca)	ug/L	9500	200	8870905	7200	6900	8900	200	8870905
Total Calcium (Ca)	ug/L	9900	200	8873542	7300	7000	8500	200	8873542
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8870905	<5.0	<5.0	<5.0	5.0	8870905
Total Chromium (Cr)	ug/L	<5.0	5.0	8873542	<5.0	<5.0	<5.0	5.0	8873542
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8870905	<0.50	<0.50	<0.50	0.50	8870905
Total Cobalt (Co)	ug/L	<0.50	0.50	8873542	<0.50	<0.50	<0.50	0.50	8873542
Dissolved Copper (Cu)	ug/L	1.5	0.90	8870905	1.3	1.0	1.4	0.90	8870905
Total Copper (Cu)	ug/L	<0.90	0.90	8873542	<0.90	<0.90	<0.90	0.90	8873542
Dissolved Iron (Fe)	ug/L	<100	100	8870905	<100	<100	<100	100	8870905
Total Iron (Fe)	ug/L	<100	100	8873542	<100	<100	<100	100	8873542
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8870905	<0.50	<0.50	<0.50	0.50	8870905
Total Lead (Pb)	ug/L	<0.50	0.50	8873542	<0.50	<0.50	<0.50	0.50	8873542
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8870905	<5.0	<5.0	<5.0	5.0	8870905

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV467			WSV468	WSV469	WSV470		
Sampling Date		2023/08/12 13:30			2023/08/13 14:45	2023/08/13 15:00	2023/08/13 19:00		
COC Number		945899-03-01			945899-03-01	945899-03-01	945899-03-01		
	UNITS	PL-02 NS	RDL	QC Batch	MOL-02 NB	MOL-02 NS	MIL-02 NS	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	5.0	8873542	<5.0	<5.0	<5.0	5.0	8873542
Dissolved Magnesium (Mg)	ug/L	3400	50	8870905	2800	2800	3700	50	8870905
Total Magnesium (Mg)	ug/L	3300	50	8873542	2800	2800	3600	50	8873542
Dissolved Manganese (Mn)	ug/L	4.6	2.0	8870905	<2.0	<2.0	<2.0	2.0	8870905
Total Manganese (Mn)	ug/L	52	2.0	8873542	3.1	3.4	5.1	2.0	8873542
Dissolved Molybdenum (Mo)	ug/L	1.0	0.50	8870905	<0.50	0.66	0.75	0.50	8870905
Total Molybdenum (Mo)	ug/L	1.1	0.50	8873542	0.51	0.59	0.62	0.50	8873542
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	8870905	<1.0	<1.0	<1.0	1.0	8870905
Total Nickel (Ni)	ug/L	<1.0	1.0	8873542	<1.0	<1.0	<1.0	1.0	8873542
Dissolved Phosphorus (P)	ug/L	<100	100	8870905	<100	<100	<100	100	8870905
Dissolved Potassium (K)	ug/L	1500	200	8870905	1100	1100	980	200	8870905
Total Potassium (K)	ug/L	1400	200	8873542	1000	980	860	200	8873542
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8870905	<2.0	<2.0	<2.0	2.0	8870905
Total Selenium (Se)	ug/L	<2.0	2.0	8873542	<2.0	<2.0	<2.0	2.0	8873542
Dissolved Silicon (Si)	ug/L	2000	50	8870905	2000	1600	1900	50	8870905
Total Silicon (Si)	ug/L	2000	50	8873542	1900	1500	1700	50	8873542
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8870905	<0.090	<0.090	<0.090	0.090	8870905
Total Silver (Ag)	ug/L	<0.090	0.090	8873542	<0.090	<0.090	<0.090	0.090	8873542
Dissolved Sodium (Na)	ug/L	980	100	8870905	760	760	660	100	8870905
Total Sodium (Na)	ug/L	870	100	8873542	730	710	550	100	8873542
Dissolved Strontium (Sr)	ug/L	20	1.0	8870905	13	13	12	1.0	8870905
Total Strontium (Sr)	ug/L	20	1.0	8873542	14	13	12	1.0	8873542
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	8870905	<1.0	<1.0	<1.0	1.0	8870905
Total Tellurium (Te)	ug/L	<1.0	1.0	8873542	<1.0	<1.0	<1.0	1.0	8873542
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8870905	<0.050	<0.050	<0.050	0.050	8870905
Total Thallium (Tl)	ug/L	<0.050	0.050	8873542	<0.050	<0.050	<0.050	0.050	8873542
Dissolved Thorium (Th)	ug/L	<2.0	2.0	8870905	<2.0	<2.0	<2.0	2.0	8870905
Total Thorium (Th)	ug/L	<2.0	2.0	8873542	<2.0	<2.0	<2.0	2.0	8873542
Dissolved Tin (Sn)	ug/L	<1.0	1.0	8870905	<1.0	<1.0	<1.0	1.0	8870905
Total Tin (Sn)	ug/L	<1.0	1.0	8873542	<1.0	<1.0	<1.0	1.0	8873542
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8870905	<5.0	<5.0	<5.0	5.0	8870905
Total Titanium (Ti)	ug/L	<5.0	5.0	8873542	<5.0	<5.0	<5.0	5.0	8873542

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV467			WSV468	WSV469	WSV470		
Sampling Date		2023/08/12 13:30			2023/08/13 14:45	2023/08/13 15:00	2023/08/13 19:00		
COC Number		945899-03-01			945899-03-01	945899-03-01	945899-03-01		
	UNITS	**PL-02 NS**	**RDL**	**QC Batch**	**MOL-02 NB**	**MOL-02 NS**	**MIL-02 NS**	**RDL**	**QC Batch**
Dissolved Tungsten (W)	ug/L	<1.0	1.0	8870905	<1.0	<1.0	<1.0	1.0	8870905
Total Tungsten (W)	ug/L	<1.0	1.0	8873542	<1.0	<1.0	<1.0	1.0	8873542
Dissolved Uranium (U)	ug/L	<0.10	0.10	8870905	<0.10	<0.10	<0.10	0.10	8870905
Total Uranium (U)	ug/L	<0.10	0.10	8873542	<0.10	<0.10	<0.10	0.10	8873542
Dissolved Vanadium (V)	ug/L	<0.50	0.50	8870905	<0.50	<0.50	<0.50	0.50	8870905
Total Vanadium (V)	ug/L	<0.50	0.50	8873542	<0.50	<0.50	<0.50	0.50	8873542
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8870905	<5.0	<5.0	<5.0	5.0	8870905
Total Zinc (Zn)	ug/L	<5.0	5.0	8873542	<5.0	<5.0	<5.0	5.0	8873542
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	8870905	<1.0	<1.0	<1.0	1.0	8870905
Total Zirconium (Zr)	ug/L	<1.0	1.0	8873542	<1.0	<1.0	<1.0	1.0	8873542

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV471		WSV472		WSV473	WSV474		
Sampling Date		2023/08/13 19:20		2023/08/14 11:30		2023/08/14 11:50	2023/08/14 14:00		
COC Number		945899-03-01		945899-03-01		945899-03-01	945899-03-01		
	UNITS	MIL-02 NB	QC Batch	MIL-03 NS	QC Batch	MIL-03 NB	WC-03	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	8874515	<0.00010	8876873	<0.00010	<0.00010	0.00010	8874515
Dissolved Mercury (Hg)	ug/L	<0.10	8876686	<0.10	8876686	<0.10	<0.10	0.10	8876686
Dissolved Aluminum (Al)	ug/L	<4.9	8870905	5.5	8870905	<4.9	9.5	4.9	8870905
Total Aluminum (Al)	ug/L	7.7	8873542	8.1	8873542	24	14	4.9	8873542
Dissolved Antimony (Sb)	ug/L	<0.50	8870905	<0.50	8870905	<0.50	<0.50	0.50	8870905
Total Antimony (Sb)	ug/L	<0.50	8873542	<0.50	8873542	<0.50	<0.50	0.50	8873542
Dissolved Arsenic (As)	ug/L	<1.0	8870905	<1.0	8870905	<1.0	<1.0	1.0	8870905
Total Arsenic (As)	ug/L	<1.0	8873542	<1.0	8873542	<1.0	<1.0	1.0	8873542
Dissolved Barium (Ba)	ug/L	9.0	8870905	9.7	8870905	9.2	8.8	2.0	8870905
Total Barium (Ba)	ug/L	9.5	8873542	9.2	8873542	9.5	8.8	2.0	8873542
Dissolved Beryllium (Be)	ug/L	<0.40	8870905	<0.40	8870905	<0.40	<0.40	0.40	8870905
Total Beryllium (Be)	ug/L	<0.40	8873542	<0.40	8873542	<0.40	<0.40	0.40	8873542
Dissolved Bismuth (Bi)	ug/L	<1.0	8870905	<1.0	8870905	<1.0	<1.0	1.0	8870905
Total Bismuth (Bi)	ug/L	<1.0	8873542	<1.0	8873542	<1.0	<1.0	1.0	8873542
Dissolved Boron (B)	ug/L	<10	8870905	<10	8870905	<10	<10	10	8870905
Total Boron (B)	ug/L	<10	8873542	<10	8873542	<10	<10	10	8873542
Dissolved Cadmium (Cd)	ug/L	<0.090	8870905	<0.090	8870905	<0.090	<0.090	0.090	8870905
Total Cadmium (Cd)	ug/L	<0.090	8873542	<0.090	8873542	<0.090	<0.090	0.090	8873542
Dissolved Calcium (Ca)	ug/L	8400	8870905	8700	8870905	8500	7200	200	8870905
Total Calcium (Ca)	ug/L	8600	8873542	8200	8873542	8700	7000	200	8873542
Dissolved Chromium (Cr)	ug/L	<5.0	8870905	<5.0	8870905	<5.0	<5.0	5.0	8870905
Total Chromium (Cr)	ug/L	<5.0	8873542	<5.0	8873542	<5.0	<5.0	5.0	8873542
Dissolved Cobalt (Co)	ug/L	<0.50	8870905	<0.50	8870905	<0.50	<0.50	0.50	8870905
Total Cobalt (Co)	ug/L	<0.50	8873542	<0.50	8873542	<0.50	<0.50	0.50	8873542
Dissolved Copper (Cu)	ug/L	2.0	8870905	1.4	8870905	1.1	1.2	0.90	8870905
Total Copper (Cu)	ug/L	<0.90	8873542	<0.90	8873542	<0.90	<0.90	0.90	8873542
Dissolved Iron (Fe)	ug/L	<100	8870905	<100	8870905	<100	<100	100	8870905
Total Iron (Fe)	ug/L	<100	8873542	<100	8873542	<100	<100	100	8873542
Dissolved Lead (Pb)	ug/L	<0.50	8870905	<0.50	8870905	<0.50	<0.50	0.50	8870905
Total Lead (Pb)	ug/L	<0.50	8873542	<0.50	8873542	<0.50	<0.50	0.50	8873542
Dissolved Lithium (Li)	ug/L	<5.0	8870905	<5.0	8870905	<5.0	<5.0	5.0	8870905

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV471		WSV472		WSV473	WSV474		
Sampling Date		2023/08/13 19:20		2023/08/14 11:30		2023/08/14 11:50	2023/08/14 14:00		
COC Number		945899-03-01		945899-03-01		945899-03-01	945899-03-01		
	UNITS	MIL-02 NB	QC Batch	MIL-03 NS	QC Batch	MIL-03 NB	WC-03	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	8873542	<5.0	8873542	<5.0	<5.0	5.0	8873542
Dissolved Magnesium (Mg)	ug/L	3600	8870905	3700	8870905	3700	2800	50	8870905
Total Magnesium (Mg)	ug/L	3600	8873542	3400	8873542	3500	2700	50	8873542
Dissolved Manganese (Mn)	ug/L	<2.0	8870905	<2.0	8870905	<2.0	<2.0	2.0	8870905
Total Manganese (Mn)	ug/L	4.5	8873542	4.3	8873542	4.7	5.4	2.0	8873542
Dissolved Molybdenum (Mo)	ug/L	0.55	8870905	0.71	8870905	0.52	0.59	0.50	8870905
Total Molybdenum (Mo)	ug/L	0.51	8873542	0.59	8873542	0.54	0.58	0.50	8873542
Dissolved Nickel (Ni)	ug/L	<1.0	8870905	<1.0	8870905	<1.0	<1.0	1.0	8870905
Total Nickel (Ni)	ug/L	<1.0	8873542	<1.0	8873542	<1.0	<1.0	1.0	8873542
Dissolved Phosphorus (P)	ug/L	<100	8870905	<100	8870905	<100	<100	100	8870905
Dissolved Potassium (K)	ug/L	930	8870905	960	8870905	920	1100	200	8870905
Total Potassium (K)	ug/L	870	8873542	790	8873542	820	930	200	8873542
Dissolved Selenium (Se)	ug/L	<2.0	8870905	<2.0	8870905	<2.0	<2.0	2.0	8870905
Total Selenium (Se)	ug/L	<2.0	8873542	<2.0	8873542	<2.0	<2.0	2.0	8873542
Dissolved Silicon (Si)	ug/L	2000	8870905	1800	8870905	2000	1700	50	8870905
Total Silicon (Si)	ug/L	1900	8873542	1600	8873542	1900	1500	50	8873542
Dissolved Silver (Ag)	ug/L	<0.090	8870905	<0.090	8870905	<0.090	<0.090	0.090	8870905
Total Silver (Ag)	ug/L	<0.090	8873542	<0.090	8873542	<0.090	<0.090	0.090	8873542
Dissolved Sodium (Na)	ug/L	590	8870905	640	8870905	610	750	100	8870905
Total Sodium (Na)	ug/L	580	8873542	530	8873542	550	700	100	8873542
Dissolved Strontium (Sr)	ug/L	12	8870905	12	8870905	12	13	1.0	8870905
Total Strontium (Sr)	ug/L	12	8873542	12	8873542	12	13	1.0	8873542
Dissolved Tellurium (Te)	ug/L	<1.0	8870905	<1.0	8870905	<1.0	<1.0	1.0	8870905
Total Tellurium (Te)	ug/L	<1.0	8873542	<1.0	8873542	<1.0	<1.0	1.0	8873542
Dissolved Thallium (Tl)	ug/L	<0.050	8870905	<0.050	8870905	<0.050	<0.050	0.050	8870905
Total Thallium (Tl)	ug/L	<0.050	8873542	<0.050	8873542	<0.050	<0.050	0.050	8873542
Dissolved Thorium (Th)	ug/L	<2.0	8870905	<2.0	8870905	<2.0	<2.0	2.0	8870905
Total Thorium (Th)	ug/L	<2.0	8873542	<2.0	8873542	<2.0	<2.0	2.0	8873542
Dissolved Tin (Sn)	ug/L	<1.0	8870905	<1.0	8870905	<1.0	<1.0	1.0	8870905
Total Tin (Sn)	ug/L	<1.0	8873542	<1.0	8873542	<1.0	<1.0	1.0	8873542
Dissolved Titanium (Ti)	ug/L	<5.0	8870905	<5.0	8870905	<5.0	<5.0	5.0	8870905
Total Titanium (Ti)	ug/L	<5.0	8873542	<5.0	8873542	<5.0	<5.0	5.0	8873542

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV471		WSV472		WSV473	WSV474		
Sampling Date		2023/08/13 19:20		2023/08/14 11:30		2023/08/14 11:50	2023/08/14 14:00		
COC Number		945899-03-01		945899-03-01		945899-03-01	945899-03-01		
	UNITS	**MIL-02 NB**	**QC Batch**	**MIL-03 NS**	**QC Batch**	**MIL-03 NB**	**WC-03**	**RDL**	**QC Batch**
Dissolved Tungsten (W)	ug/L	<1.0	8870905	<1.0	8870905	<1.0	<1.0	1.0	8870905
Total Tungsten (W)	ug/L	<1.0	8873542	<1.0	8873542	<1.0	<1.0	1.0	8873542
Dissolved Uranium (U)	ug/L	<0.10	8870905	<0.10	8870905	<0.10	<0.10	0.10	8870905
Total Uranium (U)	ug/L	<0.10	8873542	<0.10	8873542	<0.10	<0.10	0.10	8873542
Dissolved Vanadium (V)	ug/L	<0.50	8870905	<0.50	8870905	<0.50	<0.50	0.50	8870905
Total Vanadium (V)	ug/L	<0.50	8873542	<0.50	8873542	<0.50	<0.50	0.50	8873542
Dissolved Zinc (Zn)	ug/L	<5.0	8870905	<5.0	8870905	<5.0	<5.0	5.0	8870905
Total Zinc (Zn)	ug/L	<5.0	8873542	<5.0	8873542	<5.0	<5.0	5.0	8873542
Dissolved Zirconium (Zr)	ug/L	<1.0	8870905	<1.0	8870905	<1.0	<1.0	1.0	8870905
Total Zirconium (Zr)	ug/L	<1.0	8873542	<1.0	8873542	<1.0	<1.0	1.0	8873542

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QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV474			WSV475			WSV475		
Sampling Date		2023/08/14 14:00			2023/08/14 16:00			2023/08/14 16:00		
COC Number		945899-03-01			945899-03-01			945899-03-01		
	UNITS	WC-03 Lab-Dup	RDL	QC Batch	WC-04	RDL	QC Batch	WC-04 Lab-Dup	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L				<0.00010	0.00010	8874515	<0.00010	0.00010	8874515
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	8876686	<0.10	0.10	8876686			
Dissolved Aluminum (Al)	ug/L				5.2	4.9	8870905			
Total Aluminum (Al)	ug/L				8.9	4.9	8873542			
Dissolved Antimony (Sb)	ug/L				<0.50	0.50	8870905			
Total Antimony (Sb)	ug/L				<0.50	0.50	8873542			
Dissolved Arsenic (As)	ug/L				<1.0	1.0	8870905			
Total Arsenic (As)	ug/L				<1.0	1.0	8873542			
Dissolved Barium (Ba)	ug/L				9.6	2.0	8870905			
Total Barium (Ba)	ug/L				9.1	2.0	8873542			
Dissolved Beryllium (Be)	ug/L				<0.40	0.40	8870905			
Total Beryllium (Be)	ug/L				<0.40	0.40	8873542			
Dissolved Bismuth (Bi)	ug/L				<1.0	1.0	8870905			
Total Bismuth (Bi)	ug/L				<1.0	1.0	8873542			
Dissolved Boron (B)	ug/L				<10	10	8870905			
Total Boron (B)	ug/L				<10	10	8873542			
Dissolved Cadmium (Cd)	ug/L				<0.090	0.090	8870905			
Total Cadmium (Cd)	ug/L				<0.090	0.090	8873542			
Dissolved Calcium (Ca)	ug/L				8400	200	8870905			
Total Calcium (Ca)	ug/L				8600	200	8873542			
Dissolved Chromium (Cr)	ug/L				<5.0	5.0	8870905			
Total Chromium (Cr)	ug/L				<5.0	5.0	8873542			
Dissolved Cobalt (Co)	ug/L				<0.50	0.50	8870905			
Total Cobalt (Co)	ug/L				<0.50	0.50	8873542			
Dissolved Copper (Cu)	ug/L				<0.90	0.90	8870905			
Total Copper (Cu)	ug/L				<0.90	0.90	8873542			
Dissolved Iron (Fe)	ug/L				<100	100	8870905			
Total Iron (Fe)	ug/L				<100	100	8873542			
Dissolved Lead (Pb)	ug/L				<0.50	0.50	8870905			
Total Lead (Pb)	ug/L				<0.50	0.50	8873542			
Dissolved Lithium (Li)	ug/L				<5.0	5.0	8870905			

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QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV474			WSV475			WSV475		
Sampling Date		2023/08/14 14:00			2023/08/14 16:00			2023/08/14 16:00		
COC Number		945899-03-01			945899-03-01			945899-03-01		
	UNITS	WC-03 Lab-Dup	RDL	QC Batch	WC-04	RDL	QC Batch	WC-04 Lab-Dup	RDL	QC Batch
Total Lithium (Li)	ug/L				<5.0	5.0	8873542			
Dissolved Magnesium (Mg)	ug/L				3600	50	8870905			
Total Magnesium (Mg)	ug/L				3600	50	8873542			
Dissolved Manganese (Mn)	ug/L				<2.0	2.0	8870905			
Total Manganese (Mn)	ug/L				5.2	2.0	8873542			
Dissolved Molybdenum (Mo)	ug/L				0.64	0.50	8870905			
Total Molybdenum (Mo)	ug/L				0.67	0.50	8873542			
Dissolved Nickel (Ni)	ug/L				<1.0	1.0	8870905			
Total Nickel (Ni)	ug/L				<1.0	1.0	8873542			
Dissolved Phosphorus (P)	ug/L				<100	100	8870905			
Dissolved Potassium (K)	ug/L				940	200	8870905			
Total Potassium (K)	ug/L				850	200	8873542			
Dissolved Selenium (Se)	ug/L				<2.0	2.0	8870905			
Total Selenium (Se)	ug/L				<2.0	2.0	8873542			
Dissolved Silicon (Si)	ug/L				1800	50	8870905			
Total Silicon (Si)	ug/L				1700	50	8873542			
Dissolved Silver (Ag)	ug/L				<0.090	0.090	8870905			
Total Silver (Ag)	ug/L				<0.090	0.090	8873542			
Dissolved Sodium (Na)	ug/L				600	100	8870905			
Total Sodium (Na)	ug/L				560	100	8873542			
Dissolved Strontium (Sr)	ug/L				12	1.0	8870905			
Total Strontium (Sr)	ug/L				12	1.0	8873542			
Dissolved Tellurium (Te)	ug/L				<1.0	1.0	8870905			
Total Tellurium (Te)	ug/L				<1.0	1.0	8873542			
Dissolved Thallium (Tl)	ug/L				<0.050	0.050	8870905			
Total Thallium (Tl)	ug/L				<0.050	0.050	8873542			
Dissolved Thorium (Th)	ug/L				<2.0	2.0	8870905			
Total Thorium (Th)	ug/L				<2.0	2.0	8873542			
Dissolved Tin (Sn)	ug/L				<1.0	1.0	8870905			
Total Tin (Sn)	ug/L				<1.0	1.0	8873542			
Dissolved Titanium (Ti)	ug/L				<5.0	5.0	8870905			
Total Titanium (Ti)	ug/L				<5.0	5.0	8873542			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV474			WSV475			WSV475		
Sampling Date		2023/08/14 14:00			2023/08/14 16:00			2023/08/14 16:00		
COC Number		945899-03-01			945899-03-01			945899-03-01		
	UNITS	**WC-03 Lab-Dup**	**RDL**	**QC Batch**	**WC-04**	**RDL**	**QC Batch**	**WC-04 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Tungsten (W)	ug/L				<1.0	1.0	8870905			
Total Tungsten (W)	ug/L				<1.0	1.0	8873542			
Dissolved Uranium (U)	ug/L				<0.10	0.10	8870905			
Total Uranium (U)	ug/L				<0.10	0.10	8873542			
Dissolved Vanadium (V)	ug/L				<0.50	0.50	8870905			
Total Vanadium (V)	ug/L				<0.50	0.50	8873542			
Dissolved Zinc (Zn)	ug/L				<5.0	5.0	8870905			
Total Zinc (Zn)	ug/L				<5.0	5.0	8873542			
Dissolved Zirconium (Zr)	ug/L				<1.0	1.0	8870905			
Total Zirconium (Zr)	ug/L				<1.0	1.0	8873542			

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QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV476		
Sampling Date		2023/08/15 13:00		
COC Number		945899-03-01		
	UNITS	LL-02 NS	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00010	0.00010	8874515
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	8876686
Dissolved Aluminum (Al)	ug/L	7.9	4.9	8870905
Total Aluminum (Al)	ug/L	13	4.9	8873542
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8870905
Total Antimony (Sb)	ug/L	<0.50	0.50	8873542
Dissolved Arsenic (As)	ug/L	<1.0	1.0	8870905
Total Arsenic (As)	ug/L	<1.0	1.0	8873542
Dissolved Barium (Ba)	ug/L	10	2.0	8870905
Total Barium (Ba)	ug/L	10	2.0	8873542
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8870905
Total Beryllium (Be)	ug/L	<0.40	0.40	8873542
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8870905
Total Bismuth (Bi)	ug/L	<1.0	1.0	8873542
Dissolved Boron (B)	ug/L	<10	10	8870905
Total Boron (B)	ug/L	<10	10	8873542
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8870905
Total Cadmium (Cd)	ug/L	<0.090	0.090	8873542
Dissolved Calcium (Ca)	ug/L	8300	200	8870905
Total Calcium (Ca)	ug/L	8700	200	8873542
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8870905
Total Chromium (Cr)	ug/L	<5.0	5.0	8873542
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8870905
Total Cobalt (Co)	ug/L	<0.50	0.50	8873542
Dissolved Copper (Cu)	ug/L	1.4	0.90	8870905
Total Copper (Cu)	ug/L	<0.90	0.90	8873542
Dissolved Iron (Fe)	ug/L	<100	100	8870905
Total Iron (Fe)	ug/L	<100	100	8873542
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8870905
Total Lead (Pb)	ug/L	<0.50	0.50	8873542
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8870905

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QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV476		
Sampling Date		2023/08/15 13:00		
COC Number		945899-03-01		
	UNITS	LL-02 NS	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	5.0	8873542
Dissolved Magnesium (Mg)	ug/L	3600	50	8870905
Total Magnesium (Mg)	ug/L	3600	50	8873542
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	8870905
Total Manganese (Mn)	ug/L	8.7	2.0	8873542
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	8870905
Total Molybdenum (Mo)	ug/L	<0.50	0.50	8873542
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	8870905
Total Nickel (Ni)	ug/L	<1.0	1.0	8873542
Dissolved Phosphorus (P)	ug/L	<100	100	8870905
Dissolved Potassium (K)	ug/L	970	200	8870905
Total Potassium (K)	ug/L	880	200	8873542
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8870905
Total Selenium (Se)	ug/L	<2.0	2.0	8873542
Dissolved Silicon (Si)	ug/L	1500	50	8870905
Total Silicon (Si)	ug/L	1400	50	8873542
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8870905
Total Silver (Ag)	ug/L	<0.090	0.090	8873542
Dissolved Sodium (Na)	ug/L	610	100	8870905
Total Sodium (Na)	ug/L	600	100	8873542
Dissolved Strontium (Sr)	ug/L	13	1.0	8870905
Total Strontium (Sr)	ug/L	13	1.0	8873542
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	8870905
Total Tellurium (Te)	ug/L	<1.0	1.0	8873542
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8870905
Total Thallium (Tl)	ug/L	<0.050	0.050	8873542
Dissolved Thorium (Th)	ug/L	<2.0	2.0	8870905
Total Thorium (Th)	ug/L	<2.0	2.0	8873542
Dissolved Tin (Sn)	ug/L	<1.0	1.0	8870905
Total Tin (Sn)	ug/L	<1.0	1.0	8873542
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8870905
Total Titanium (Ti)	ug/L	<5.0	5.0	8873542

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV476		
Sampling Date		2023/08/15 13:00		
COC Number		945899-03-01		
	UNITS	LL-02 NS	RDL	QC Batch
Dissolved Tungsten (W)	ug/L	<1.0	1.0	8870905
Total Tungsten (W)	ug/L	<1.0	1.0	8873542
Dissolved Uranium (U)	ug/L	0.11	0.10	8870905
Total Uranium (U)	ug/L	0.11	0.10	8873542
Dissolved Vanadium (V)	ug/L	<0.50	0.50	8870905
Total Vanadium (V)	ug/L	<0.50	0.50	8873542
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8870905
Total Zinc (Zn)	ug/L	<5.0	5.0	8873542
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	8870905
Total Zirconium (Zr)	ug/L	<1.0	1.0	8873542

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: WSV467
Sample ID: PL-02 NS
Matrix: Water

Collected: 2023/08/12
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8888252	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8899567	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874895	2023/08/24	2023/08/25	Sachi Patel
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

Bureau Veritas ID: WSV468
Sample ID: MOL-02 NB
Matrix: Water

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV468
Sample ID: MOL-02 NB
Matrix: Water

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate and Nitrite	CALC	8888252	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8899567	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

Bureau Veritas ID: WSV469
Sample ID: MOL-02 NS
Matrix: Water

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8886515	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8899567	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV469
Sample ID: MOL-02 NS
Matrix: Water

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

Bureau Veritas ID: WSV470
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8886515	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8887928	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

Bureau Veritas ID: WSV470 Dup
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV471
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870953	N/A	2023/08/23	Samuel Law
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8886515	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8887928	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870972	N/A	2023/08/23	Samuel Law
Sulphate by Automated Turbidimetry	SKAL	8870973	N/A	2023/08/23	Samuel Law
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

Bureau Veritas ID: WSV472
Sample ID: MIL-03 NS
Matrix: Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8876873	2023/08/25	2023/08/25	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV472 **Collected:** 2023/08/14
Sample ID: MIL-03 NS **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8886515	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8887928	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

Bureau Veritas ID: WSV472 Dup **Collected:** 2023/08/14
Sample ID: MIL-03 NS **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White

Bureau Veritas ID: WSV473 **Collected:** 2023/08/14
Sample ID: MIL-03 NB **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8886515	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8887928	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV473
Sample ID: MIL-03 NB
Matrix: Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

Bureau Veritas ID: WSV473 Dup
Sample ID: MIL-03 NB
Matrix: Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz

Bureau Veritas ID: WSV474
Sample ID: WC-03
Matrix: Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8886515	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8887928	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV474 **Collected:** 2023/08/14
Sample ID: WC-03 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

Bureau Veritas ID: WSV474 Dup **Collected:** 2023/08/14
Sample ID: WC-03 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur

Bureau Veritas ID: WSV475 **Collected:** 2023/08/14
Sample ID: WC-04 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8886515	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8887928	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: WSV475 Dup
Sample ID: WC-04
Matrix: Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil

Bureau Veritas ID: WSV476
Sample ID: LL-02 NS
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8870317	N/A	2023/08/23	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8870291	N/A	2023/08/23	Alina Dobreanu
Conductivity	AT	8870324	N/A	2023/08/23	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8869950	N/A	2023/08/23	Gyulshen Idriz
Fluoride	ISE	8870319	2023/08/22	2023/08/23	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8876686	2023/08/25	2023/08/25	Jaswinder Kaur
Mercury in Water by CVAA	CV/AA	8874515	2023/08/24	2023/08/24	Jaswinder Kaur
Dissolved Metals by ICPMS	ICP/MS	8870905	N/A	2023/08/24	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8873542	2023/08/24	2023/08/25	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	8899974	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8899975	N/A	2023/08/24	Zineb El Ouali
Nitrate and Nitrite	CALC	8886515	N/A	2023/08/29	Automated Statchk
NO2 - NO2 + NO3 (N) in Water	AC/COL	8885396	N/A	2023/08/27	Isabelle White
Nitrate (as N)	CALC	8887928	2023/08/28	2023/08/29	Automated Statchk
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8870004	N/A	2023/08/24	Prabhjot Kaur
pH	AT	8870321	2023/08/22	2023/08/23	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Orthophosphate	SKAL	8870301	N/A	2023/08/23	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	8870295	N/A	2023/08/23	Alina Dobreanu
Total Dissolved Solids	BAL	8875451	2023/08/24	2023/08/25	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8874882	2023/08/24	2023/08/25	Muskan
Total Suspended Solids	BAL	8873507	2023/08/24	2023/08/25	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8866395	2023/09/01	2023/09/01	Automated Statchk

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.7°C
Package 2	3.3°C
Package 3	8.0°C
Package 4	9.3°C
Package 5	6.0°C
Package 6	5.7°C
Package 7	7.7°C
Package 8	8.0°C
Package 9	6.7°C

Revised Report [2024/11/12]: Sample ID amended as per client request.
TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.WS#8873507

Sample WSV467 [PL-02 NS] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV468 [MOL-02 NB] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV469 [MOL-02 NS] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV470 [MIL-02 NS] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV471 [MIL-02 NB] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV472 [MIL-03 NS] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV473 [MIL-03 NB] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV474 [WC-03] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV475 [WC-04] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample WSV476 [LL-02 NS] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8869950	Dissolved Organic Carbon	2023/08/23	94	80 - 120	97	80 - 120	<0.40	mg/L	0.069	20		
8870004	Total Ammonia-N	2023/08/24	103	75 - 125	102	80 - 120	<0.050	mg/L	NC	20		
8870287	Dissolved Bromide (Br-)	2023/08/23	100	80 - 120	100	80 - 120	<1.0	mg/L	NC	20		
8870291	Dissolved Chloride (Cl-)	2023/08/23	NC	80 - 120	88	80 - 120	<1.0	mg/L	2.1	20		
8870295	Dissolved Sulphate (SO4)	2023/08/23	NC	75 - 125	105	80 - 120	<1.0	mg/L	0.34	20		
8870301	Orthophosphate (P)	2023/08/23	96	75 - 125	94	80 - 120	<0.010	mg/L				
8870317	Alkalinity (Total as CaCO3)	2023/08/23			96	85 - 115	<1.0	mg/L	3.1	20		
8870319	Fluoride (F-)	2023/08/23	94	80 - 120	97	80 - 120	<0.10	mg/L	NC	20		
8870321	pH	2023/08/23			102	98 - 103			0.39	N/A		
8870324	Conductivity	2023/08/23			100	85 - 115	<1.0	umho/cm	0.41	10		
8870905	Dissolved Aluminum (Al)	2023/08/24	111	80 - 120	102	80 - 120	<4.9	ug/L				
8870905	Dissolved Antimony (Sb)	2023/08/25	115	80 - 120	105	80 - 120	<0.50	ug/L	NC	20		
8870905	Dissolved Arsenic (As)	2023/08/25	109	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
8870905	Dissolved Barium (Ba)	2023/08/25	106	80 - 120	103	80 - 120	<2.0	ug/L	1.2	20		
8870905	Dissolved Beryllium (Be)	2023/08/25	103	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
8870905	Dissolved Bismuth (Bi)	2023/08/24	100	80 - 120	95	80 - 120	<1.0	ug/L				
8870905	Dissolved Boron (B)	2023/08/25	109	80 - 120	102	80 - 120	<10	ug/L	2.6	20		
8870905	Dissolved Cadmium (Cd)	2023/08/25	105	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
8870905	Dissolved Calcium (Ca)	2023/08/24	NC	80 - 120	101	80 - 120	<200	ug/L				
8870905	Dissolved Chromium (Cr)	2023/08/25	105	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
8870905	Dissolved Cobalt (Co)	2023/08/25	102	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
8870905	Dissolved Copper (Cu)	2023/08/25	108	80 - 120	102	80 - 120	<0.90	ug/L	4.3	20		
8870905	Dissolved Iron (Fe)	2023/08/24	105	80 - 120	101	80 - 120	<100	ug/L				
8870905	Dissolved Lead (Pb)	2023/08/25	96	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8870905	Dissolved Lithium (Li)	2023/08/24	110	80 - 120	101	80 - 120	<5.0	ug/L				
8870905	Dissolved Magnesium (Mg)	2023/08/24	98	80 - 120	101	80 - 120	<50	ug/L				
8870905	Dissolved Manganese (Mn)	2023/08/24	103	80 - 120	102	80 - 120	<2.0	ug/L				
8870905	Dissolved Molybdenum (Mo)	2023/08/25	119	80 - 120	104	80 - 120	<0.50	ug/L	0.19	20		
8870905	Dissolved Nickel (Ni)	2023/08/25	101	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
8870905	Dissolved Phosphorus (P)	2023/08/24	115	80 - 120	104	80 - 120	<100	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8870905	Dissolved Potassium (K)	2023/08/24	108	80 - 120	104	80 - 120	<200	ug/L				
8870905	Dissolved Selenium (Se)	2023/08/25	104	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
8870905	Dissolved Silicon (Si)	2023/08/24	113	80 - 120	102	80 - 120	<50	ug/L				
8870905	Dissolved Silver (Ag)	2023/08/25	104	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
8870905	Dissolved Sodium (Na)	2023/08/25	NC	80 - 120	102	80 - 120	<100	ug/L	2.4	20		
8870905	Dissolved Strontium (Sr)	2023/08/24	105	80 - 120	101	80 - 120	<1.0	ug/L				
8870905	Dissolved Tellurium (Te)	2023/08/24	104	80 - 120	103	80 - 120	<1.0	ug/L				
8870905	Dissolved Thallium (Tl)	2023/08/25	97	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
8870905	Dissolved Thorium (Th)	2023/08/24	91	80 - 120	100	80 - 120	<2.0	ug/L				
8870905	Dissolved Tin (Sn)	2023/08/24	115	80 - 120	105	80 - 120	<1.0	ug/L				
8870905	Dissolved Titanium (Ti)	2023/08/24	111	80 - 120	101	80 - 120	<5.0	ug/L				
8870905	Dissolved Tungsten (W)	2023/08/24	109	80 - 120	103	80 - 120	<1.0	ug/L				
8870905	Dissolved Uranium (U)	2023/08/25	110	80 - 120	100	80 - 120	<0.10	ug/L	5.6	20		
8870905	Dissolved Vanadium (V)	2023/08/25	111	80 - 120	102	80 - 120	<0.50	ug/L	6.0	20		
8870905	Dissolved Zinc (Zn)	2023/08/25	98	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
8870905	Dissolved Zirconium (Zr)	2023/08/24	119	80 - 120	109	80 - 120	<1.0	ug/L				
8870953	Dissolved Chloride (Cl-)	2023/08/23	96	80 - 120	87	80 - 120	<1.0	mg/L	NC	20		
8870972	Orthophosphate (P)	2023/08/23	92	75 - 125	91	80 - 120	<0.010	mg/L	NC	20		
8870973	Dissolved Sulphate (SO4)	2023/08/23	102	75 - 125	90	80 - 120	<1.0	mg/L	6.7	20		
8873507	Total Suspended Solids	2023/08/25			96	80 - 120	<10	mg/L	9.5	20		
8873542	Total Aluminum (Al)	2023/08/25	124 (1)	80 - 120	99	80 - 120	<4.9	ug/L	8.0	20		
8873542	Total Antimony (Sb)	2023/08/25	106	80 - 120	103	80 - 120	<0.50	ug/L				
8873542	Total Arsenic (As)	2023/08/25	100	80 - 120	97	80 - 120	<1.0	ug/L				
8873542	Total Barium (Ba)	2023/08/25	100	80 - 120	96	80 - 120	<2.0	ug/L				
8873542	Total Beryllium (Be)	2023/08/25	102	80 - 120	97	80 - 120	<0.40	ug/L				
8873542	Total Bismuth (Bi)	2023/08/25	95	80 - 120	98	80 - 120	<1.0	ug/L				
8873542	Total Boron (B)	2023/08/25	98	80 - 120	92	80 - 120	<10	ug/L				
8873542	Total Cadmium (Cd)	2023/08/25	98	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
8873542	Total Calcium (Ca)	2023/08/25	NC	80 - 120	98	80 - 120	<200	ug/L				
8873542	Total Chromium (Cr)	2023/08/25	97	80 - 120	92	80 - 120	<5.0	ug/L	NC	20		
8873542	Total Cobalt (Co)	2023/08/25	100	80 - 120	99	80 - 120	<0.50	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8873542	Total Copper (Cu)	2023/08/25	98	80 - 120	99	80 - 120	<0.90	ug/L	1.4	20		
8873542	Total Iron (Fe)	2023/08/25	98	80 - 120	96	80 - 120	<100	ug/L	3.7	20		
8873542	Total Lead (Pb)	2023/08/25	100	80 - 120	96	80 - 120	<0.50	ug/L	1.6	20		
8873542	Total Lithium (Li)	2023/08/25	109	80 - 120	109	80 - 120	<5.0	ug/L				
8873542	Total Magnesium (Mg)	2023/08/25	100	80 - 120	98	80 - 120	<50	ug/L				
8873542	Total Manganese (Mn)	2023/08/25	100	80 - 120	94	80 - 120	<2.0	ug/L				
8873542	Total Molybdenum (Mo)	2023/08/25	99	80 - 120	96	80 - 120	<0.50	ug/L				
8873542	Total Nickel (Ni)	2023/08/25	99	80 - 120	95	80 - 120	<1.0	ug/L	1.3	20		
8873542	Total Potassium (K)	2023/08/25	104	80 - 120	97	80 - 120	<200	ug/L				
8873542	Total Selenium (Se)	2023/08/25	103	80 - 120	102	80 - 120	<2.0	ug/L				
8873542	Total Silicon (Si)	2023/08/25	101	80 - 120	98	80 - 120	<50	ug/L				
8873542	Total Silver (Ag)	2023/08/25	96	80 - 120	93	80 - 120	<0.090	ug/L				
8873542	Total Sodium (Na)	2023/08/25	104	80 - 120	96	80 - 120	<100	ug/L				
8873542	Total Strontium (Sr)	2023/08/25	99	80 - 120	94	80 - 120	<1.0	ug/L				
8873542	Total Tellurium (Te)	2023/08/25	99	80 - 120	99	80 - 120	<1.0	ug/L				
8873542	Total Thallium (Tl)	2023/08/25	108	80 - 120	100	80 - 120	<0.050	ug/L				
8873542	Total Thorium (Th)	2023/08/25	103	80 - 120	98	80 - 120	<2.0	ug/L				
8873542	Total Tin (Sn)	2023/08/25	102	80 - 120	98	80 - 120	<1.0	ug/L				
8873542	Total Titanium (Ti)	2023/08/25	100	80 - 120	97	80 - 120	<5.0	ug/L				
8873542	Total Tungsten (W)	2023/08/25	107	80 - 120	107	80 - 120	<1.0	ug/L				
8873542	Total Uranium (U)	2023/08/25	101	80 - 120	93	80 - 120	<0.10	ug/L				
8873542	Total Vanadium (V)	2023/08/25	99	80 - 120	93	80 - 120	<0.50	ug/L				
8873542	Total Zinc (Zn)	2023/08/25	102	80 - 120	98	80 - 120	<5.0	ug/L	0.90	20		
8873542	Total Zirconium (Zr)	2023/08/25	101	80 - 120	98	80 - 120	<1.0	ug/L				
8874515	Mercury (Hg)	2023/08/24	99	75 - 125	100	80 - 120	<0.00010	mg/L	NC	20		
8874882	Total Phosphorus	2023/08/25	96	80 - 120	99	80 - 120	<0.020	mg/L	5.0	20	99	80 - 120
8874895	Total Phosphorus	2023/08/25	97	80 - 120	100	80 - 120	<0.020	mg/L	9.6	20	102	80 - 120
8875451	Total Dissolved Solids	2023/08/25			97	80 - 120	<10	mg/L	3.9	20		
8876686	Dissolved Mercury (Hg)	2023/08/25	106	75 - 125	107	80 - 120	<0.10	ug/L	NC	20		
8876873	Mercury (Hg)	2023/08/25	105	75 - 125	109	80 - 120	<0.00010	mg/L	NC	20		
8885396	Dissolved Nitrate plus Nitrite (N)	2023/08/27	102	N/A	104	N/A	<0.010	mg/L	NC	20		

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8885396	Dissolved Nitrite (N)	2023/08/27	96	80 - 120	103	80 - 120	<0.010	mg/L	NC	20		
8898334	Total Yttrium (Y)	2023/08/24			106	80 - 120	<2.0	ug/L	NC	30		
8898336	Dissolved Yttrium (Y)	2023/08/24			103	80 - 120	<2.0	ug/L				
8899974	Total Yttrium (Y)	2023/08/24			101	80 - 120	<2.0	ug/L				
8899975	Dissolved Yttrium (Y)	2023/08/24			103	80 - 120	<2.0	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike exceeds acceptance limits, probable matrix interference

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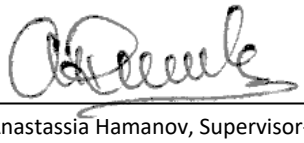
VALIDATION SIGNATURE PAGE

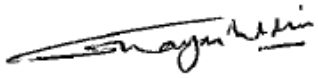
The analytical data and all QC contained in this report were reviewed and validated by:

Ankita Bhalla, Project Manager

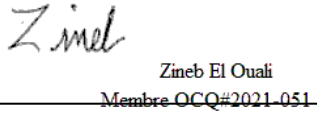


Anastassia Hamanov, Supervisor-Afternoon Shift

Cristina Carriere, Senior Scientific Specialist



Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics



Zineb El Ouali, Analyst 1

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 2	945899-03-01
Page 2 of 2	4 -03-02
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COOLER OBSERVATIONS:

BV JOB#: C3P2178

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	8 (1)	6 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	3 (1)	4 (2)	3 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	9 (1)	7 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	9 (1)	9 (2)	10 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	6 (1)	5 (2)	7 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5 (1)	5 (2)	7 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	7 (1)	8 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	10 (1)	8 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5 (1)	9 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
JAE DEGLAUR	2023/08/18	14:33

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18-Aug-23 14:33
Ankita Bhalla
C3P2178
AJH ENV-2024

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INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:	
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:	
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:	
				Sampled By:	Michael Hildebrandt / Brian Engelbach

Bottle Order #: 945899
COC #: C#945899-03-01
Project Manager: Ankita Bhalla

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: X
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): pH	Alkalinity	Conductivity	Total Dissolved Solids	Total Suspended Solids	Hardness (calculated as CaCO3)	Dissolved Organic Carbon (DOC)	Fluoride/Chloride/Sulphate/Bromide/Nitrate/Nitrite/Orthophosphate	Phosphorus/Ammonia Total (NH3+NH4/Un-ionized Ammonia	Total Metals Analysis by ICPMS	# of Bottles	Comments
1		Pike - 02 1m	2023/08/12	13:30	SW	x1 each	X	X	X	X	X	X	X	X	X	X	11	
2		ML 27m	2023/08/13	14:45	SW	x1 each												
3		ML 1m	2023/08/13	15:00	SW	x1 each												
4		Mills LP 1m	2023/08/13	19:00	SW	x1 each												
5		Mills LP 19m	2023/08/13	19:20	SW	x1 each												
6		Mills LP2 1m	2023/08/14	11:30	SW	x1 each												
7		Mills LP2 25m	2023/08/14	11:50	SW	x1 each												
8		WC-03	2023/08/14	14:00	SW	x1 each												
9		WC-04	2023/08/14	16:00	SW	x1 each												
10		Long-02 1m	2023/08/15	13:00	SW	x1 each	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/08/18		Jagdeep Kaur JAGDEEP KAUR	2023/08/18	14:33	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: AETR
Custody Seal: Present ☐ Intact ☐ — Yes ☐ No ☐
ICE

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
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Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			945899
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#945899-03-02	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ____
☐ PWQO ☐ Reg 406 Table ____
☐ Other ____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Dissolved Metals by ICPMS	Mercury in Water by CVAA	Dissolved Mercury in Water by CVAA	Total Extractable Lanthanides (Yttrium)	Dissolved Lanthanides (Yttrium)	# of Bottles	Comments
1		Pike-02 1m	2023/08/12	13:30	SW	x1 each	X	X	X	X	X	11	
2		mL 27m	2023/08/13	14:45	SW	x1 each	↓	↓	↓	↓	↓	↓	
3		mL 1m	2023/08/13	15:00	SW	x1 each							
4		Mills LP 1m	2023/08/13	19:00	SW	x1 each							
5		Mills LP 19m	2023/08/13	19:20	SW	x1 each							
6		Mills LP2 1m	2023/08/14	11:30	SW	x1 each							
7		Mills LP2 25m	2023/08/14	11:50	SW	x1 each							
8		WC-03	2023/08/14	14:00	SW	x1 each							
9		WC-04	2023/08/14	16:00	SW	x1 each							
10		Long-02 1m	2023/08/15	13:00	SW	x1 each	↓	↓	↓	↓	↓	↓	Ice

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/08/18		[illegible]	2023/08/18	14:33	

Laboratory Use Only					
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-04-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401242
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2237
Received: 2023/08/18, 14:33

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity (CaCO3) in water (1)	10	N/A	2023/08/29	ATL SOP-00205	SM 24 2310B m
Alkalinity	10	N/A	2023/08/22	CAM SOP-00448	SM 23 2320 B m
Anions	10	N/A	2023/08/22	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	10	N/A	2023/08/22	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	10	N/A	2023/08/22	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (3)	10	N/A	2023/08/22	CAM SOP-00446	SM 23 5310 B m
Fluoride	10	2023/08/21	2023/08/22	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	10	N/A	2023/08/25	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Mercury in Water by CVAA	10	2023/08/22	2023/08/22	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	10	2023/08/22	2023/08/22	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	9	N/A	2023/08/24	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2023/08/31	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	10	2023/08/22	2023/08/24	CAM SOP-00447	EPA 6020B m
Total Extractable Lanthanides-waters (2, 4)	10	2023/08/23	2023/08/24	STL SOP-00071	MA.200–Mét. 1.2 R7 m
Dissolved Lanthanides- waters (2, 4)	10	N/A	2023/08/24	STL SOP-00071	MA.200–Mét. 1.2 R5 m
Total Ammonia (as NH3)	10	N/A	2023/08/23	Auto Calc.	
Total Ammonia-N	10	N/A	2023/08/23	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (5)	10	N/A	2023/08/22	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (6)	10	2023/08/21	2023/08/22	CAM SOP-00413	SM 4500H+ B m
Field Measured pH (7)	10	N/A	2023/09/08		Field pH Meter
Orthophosphate	10	N/A	2023/08/22	CAM SOP-00461	SM 24 4500-P E
Sulphate by Automated Turbidimetry	10	N/A	2023/08/22	CAM SOP-00464	SM 24 4500-SO42- E m
Total Dissolved Solids	10	2023/08/22	2023/08/23	CAM SOP-00428	SM 23 2540C m
Field Temperature (7)	9	N/A	2023/08/31		Field Thermometer
Field Temperature (7)	1	N/A	2023/09/01		Field Thermometer
Total Phosphorus (Colourimetric)	10	2023/08/22	2023/08/23	CAM SOP-00407	SM 23 4500-P I
Total Suspended Solids	10	2023/08/22	2023/08/23	CAM SOP-00428	SM 23 2540D m
Un-ionized Ammonia (8)	9	2023/08/31	2023/08/31	Auto Calc.	PWQO
Un-ionized Ammonia (8)	1	2023/09/01	2023/09/08	Auto Calc.	PWQO

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-04-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401242
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2237
Received: 2023/08/18, 14:33

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) This test was performed by Bureau Veritas Montreal., 889 Montée de Liesse , Ville St-Laurent, QC, H4T 1P5
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) Non-accredited test method
(5) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(6) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

(7) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.
(8) Un-ionized ammonia is calculated using the total ammonia result and field data provided by the client for pH and temperature.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-04-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401242
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2237
Received: 2023/08/18, 14:33

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3P2237
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV755			WSV755			WSV756		
Sampling Date		2023/08/09 18:00			2023/08/09 18:00			2023/08/09 17:30		
COC Number		945899-04-01			945899-04-01			945899-04-01		
	UNITS	DL-02 NB	RDL	QC Batch	DL-02 NB Lab-Dup	RDL	QC Batch	DL-02 NS	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8866393				<0.061	0.061	8866393
Hardness (CaCO3)	mg/L	20	1.0	8866245				19	1.0	8866245
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	8889201				<0.00063	0.00063	8889201
Field Measurements										
Field Temperature	Celsius	7.4	N/A	ONSITE				16.6	N/A	ONSITE
Field Measured pH	pH	6.56		ONSITE				7.53		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8882702				<5.0	5.0	8882702
Total Ammonia-N	mg/L	<0.050	0.050	8869353				<0.050	0.050	8869353
Conductivity	umho/cm	51	1.0	8867083				52	1.0	8867083
Total Dissolved Solids	mg/L	60	10	8868079				50	10	8868079
Fluoride (F-)	mg/L	<0.10	0.10	8867050				<0.10	0.10	8867050
Dissolved Organic Carbon	mg/L	3.4	0.40	8868900	3.4	0.40	8868900	3.5	0.40	8868900
Orthophosphate (P)	mg/L	<0.010	0.010	8867858				<0.010	0.010	8867858
pH	pH	6.98		8867051				7.18		8867051
Total Phosphorus	mg/L	<0.020	0.020	8869971				<0.020	0.020	8869971
Total Suspended Solids	mg/L	<10	10	8868061				<10	10	8868061
Dissolved Sulphate (SO4)	mg/L	3.3	1.0	8867857				3.7	1.0	8867857
Alkalinity (Total as CaCO3)	mg/L	17	1.0	8866711				17	1.0	8866711
Dissolved Chloride (Cl-)	mg/L	1.5	1.0	8867853				2.3	1.0	8867853
Nitrite (N)	mg/L	<0.010	0.010	8866892				<0.010	0.010	8866892
Nitrate (N)	mg/L	<0.10	0.10	8866892				<0.10	0.10	8866892
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8866892				<0.10	0.10	8866892
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8866896	<1.0	1.0	8866896	<1.0	1.0	8866896
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898335				<2.0	2.0	8898335
Total Yttrium (Y)	ug/L	<2.0	2.0	8898334	<2.0	2.0	8898334	<2.0	2.0	8898334

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2237
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV757		WSV758	WSV759			WSV759		
Sampling Date		2023/08/10 13:15		2023/08/10 15:30	2023/08/10 16:45			2023/08/10 16:45		
COC Number		945899-04-01		945899-04-01	945899-04-01			945899-04-01		
	UNITS	WC-05	RDL	WC-06	WC-07	RDL	QC Batch	WC-07 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	<0.061	<0.061	0.061	8866393			
Hardness (CaCO3)	mg/L	60	1.0	65	43	1.0	8866245			
Total Un-ionized Ammonia	mg/L	<0.00068	0.00068	<0.00061	<0.00061	0.00061	8889201			
Field Measurements										
Field Temperature	Celsius	14.5	N/A	11.9	13.5	N/A	ONSITE			
Field Measured pH	pH	7.63		7.24	7.47		ONSITE			
Inorganics										
Acidity	mg/L	<5.0	5.0	<5.0	<5.0	5.0	8882702			
Total Ammonia-N	mg/L	<0.050	0.050	<0.050	<0.050	0.050	8869353	<0.050	0.050	8869353
Conductivity	umho/cm	110	1.0	120	77	1.0	8867083			
Total Dissolved Solids	mg/L	80	10	70	70	10	8868079			
Fluoride (F-)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	8867050			
Dissolved Organic Carbon	mg/L	4.6	0.40	7.3	9.4	0.40	8868900			
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	<0.010	0.010	8867858			
pH	pH	7.61		7.52	7.42		8867051			
Total Phosphorus	mg/L	<0.020	0.020	<0.020	<0.020	0.020	8869971			
Total Suspended Solids	mg/L	<10	10	<10	<10	10	8868061			
Dissolved Sulphate (SO4)	mg/L	4.5	1.0	2.9	3.0	1.0	8867857			
Alkalinity (Total as CaCO3)	mg/L	57	1.0	62	40	1.0	8866711			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	<1.0	<1.0	1.0	8867853			
Nitrite (N)	mg/L	<0.010	0.010	<0.010	<0.010	0.010	8866892			
Nitrate (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	8866892			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	8866892			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	<1.0	<1.0	1.0	8866896			
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	8898335			
Total Yttrium (Y)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	8898334			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2237
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV760			WSV761			WSV761		
Sampling Date		2023/08/10 17:30			2023/08/11 14:30			2023/08/11 14:30		
COC Number		945899-04-01			945899-04-01			945899-04-01		
	UNITS	WC-08	RDL	QC Batch	WC-02	RDL	QC Batch	WC-02 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8866393	<0.061	0.061	8866393			
Hardness (CaCO3)	mg/L	50	1.0	8866245	37	1.0	8866245			
Total Un-ionized Ammonia	mg/L	<0.00079	0.00079	8889201	<0.0006	0.0006	8891653			
Field Measurements										
Field Temperature	Celsius	16.3	N/A	ONSITE	16.9	N/A	ONSITE			
Field Measured pH	pH	7.64		ONSITE	7.50		ONSITE			
Inorganics										
Acidity	mg/L	<5.0	5.0	8882702	<5.0	5.0	8882702	<5.0	5.0	8882702
Total Ammonia-N	mg/L	<0.050	0.050	8869353	<0.050	0.050	8869353			
Conductivity	umho/cm	94	1.0	8867083	76	1.0	8867083			
Total Dissolved Solids	mg/L	45	10	8868079	65	10	8868079			
Fluoride (F-)	mg/L	<0.10	0.10	8867050	<0.10	0.10	8867050			
Dissolved Organic Carbon	mg/L	4.2	0.40	8868900	4.6	0.40	8868900			
Orthophosphate (P)	mg/L	<0.010	0.010	8867858	<0.010	0.010	8867858			
pH	pH	7.60		8867051	7.41		8867051			
Total Phosphorus	mg/L	<0.020	0.020	8869971	<0.020	0.020	8869971			
Total Suspended Solids	mg/L	<10	10	8868061	<10	10	8868061			
Dissolved Sulphate (SO4)	mg/L	4.0	1.0	8867857	4.8	1.0	8867857			
Alkalinity (Total as CaCO3)	mg/L	47	1.0	8866711	36	1.0	8866711			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8867853	<1.0	1.0	8867853			
Nitrite (N)	mg/L	<0.010	0.010	8866892	<0.010	0.010	8866892			
Nitrate (N)	mg/L	<0.10	0.10	8866892	<0.10	0.10	8866892			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8866892	<0.10	0.10	8866892			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8866896	<1.0	1.0	8866896			
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898335	<2.0	2.0	8898335			
Total Yttrium (Y)	ug/L	<2.0	2.0	8898334	<2.0	2.0	8898334			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV762			WSV762			WSV763		
Sampling Date		2023/08/11 18:30			2023/08/11 18:30			2023/08/12 11:30		
COC Number		945899-04-01			945899-04-01			945899-04-01		
	UNITS	WC-12	RDL	QC Batch	WC-12 Lab-Dup	RDL	QC Batch	WC-01	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8866393				<0.061	0.061	8866393
Hardness (CaCO3)	mg/L	21	1.0	8866245				49	1.0	8866245
Total Un-ionized Ammonia	mg/L	<0.0012	0.0012	8889201				<0.00061	0.00061	8889201
Field Measurements										
Field Temperature	Celsius	19.1	N/A	ONSITE				16.3	N/A	ONSITE
Field Measured pH	pH	7.73		ONSITE				7.20		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8882702				<5.0	5.0	8882702
Total Ammonia-N	mg/L	<0.050	0.050	8869353				<0.050	0.050	8869353
Conductivity	umho/cm	53	1.0	8867083				98	1.0	8867083
Total Dissolved Solids	mg/L	50	10	8868079				80	10	8868079
Fluoride (F-)	mg/L	<0.10	0.10	8867050				<0.10	0.10	8867050
Dissolved Organic Carbon	mg/L	3.7	0.40	8868900				5.2	0.40	8868900
Orthophosphate (P)	mg/L	<0.010	0.010	8867858	<0.010	0.010	8867858	<0.010	0.010	8867858
pH	pH	7.13		8867051				7.44		8867051
Total Phosphorus	mg/L	<0.020	0.020	8869971				<0.020	0.020	8869971
Total Suspended Solids	mg/L	<10	10	8868061				<10	10	8868061
Dissolved Sulphate (SO4)	mg/L	3.6	1.0	8867857	3.7	1.0	8867857	5.0	1.0	8867857
Alkalinity (Total as CaCO3)	mg/L	18	1.0	8866711				48	1.0	8866711
Dissolved Chloride (Cl-)	mg/L	2.6	1.0	8867853	2.4	1.0	8867853	<1.0	1.0	8867853
Nitrite (N)	mg/L	<0.010	0.010	8866892				<0.010	0.010	8866892
Nitrate (N)	mg/L	<0.10	0.10	8866892				<0.10	0.10	8866892
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8866892				<0.10	0.10	8866892
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8866896				<1.0	1.0	8866896
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898336				<2.0	2.0	8898336
Total Yttrium (Y)	ug/L	<2.0	2.0	8898334				<2.0	2.0	8898334

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV764		
Sampling Date		2023/08/12 13:15		
COC Number		945899-04-01		
	UNITS	PL-02 NB	RDL	QC Batch
Calculated Parameters				
Total Ammonia (as NH3)	mg/L	0.15	0.061	8866393
Hardness (CaCO3)	mg/L	39	1.0	8866245
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	8889201
Field Measurements				
Field Temperature	Celsius	9.5	N/A	ONSITE
Field Measured pH	pH	7.00		ONSITE
Inorganics				
Acidity	mg/L	<5.0	5.0	8882702
Total Ammonia-N	mg/L	0.12	0.050	8869353
Conductivity	umho/cm	85	1.0	8867083
Total Dissolved Solids	mg/L	60	10	8868079
Fluoride (F-)	mg/L	<0.10	0.10	8867050
Dissolved Organic Carbon	mg/L	4.3	0.40	8868900
Orthophosphate (P)	mg/L	<0.010	0.010	8867858
pH	pH	7.29		8867051
Total Phosphorus	mg/L	<0.020	0.020	8869971
Total Suspended Solids	mg/L	<10	10	8868061
Dissolved Sulphate (SO4)	mg/L	4.4	1.0	8867857
Alkalinity (Total as CaCO3)	mg/L	41	1.0	8866711
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8867853
Nitrite (N)	mg/L	<0.010	0.010	8866892
Nitrate (N)	mg/L	<0.10	0.10	8866892
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8866892
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8866896
Metals				
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898336
Total Yttrium (Y)	ug/L	<2.0	2.0	8898334

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV755		WSV756		WSV757		WSV758		
Sampling Date		2023/08/09 18:00		2023/08/09 17:30		2023/08/10 13:15		2023/08/10 15:30		
COC Number		945899-04-01		945899-04-01		945899-04-01		945899-04-01		
	UNITS	DL-02 NB	QC Batch	DL-02 NS	QC Batch	WC-05	QC Batch	WC-06	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L	<0.00010	8868148	<0.00010	8868148	<0.00010	8868148	<0.00010	0.00010	8869174
Dissolved Mercury (Hg)	ug/L	<0.10	8868929	<0.10	8868929	<0.10	8868929	<0.10	0.10	8868929
Dissolved Aluminum (Al)	ug/L	9.7	8868473	170	8888767	<4.9	8868473	<4.9	4.9	8868473
Total Aluminum (Al)	ug/L	19	8868124	18	8868124	16	8868124	6.4	4.9	8868124
Dissolved Antimony (Sb)	ug/L	<0.50	8868473	<0.50	8888767	<0.50	8868473	<0.50	0.50	8868473
Total Antimony (Sb)	ug/L	<0.50	8868124	<0.50	8868124	<0.50	8868124	<0.50	0.50	8868124
Dissolved Arsenic (As)	ug/L	<1.0	8868473	<1.0	8888767	<1.0	8868473	<1.0	1.0	8868473
Total Arsenic (As)	ug/L	<1.0	8868124	<1.0	8868124	<1.0	8868124	<1.0	1.0	8868124
Dissolved Barium (Ba)	ug/L	7.8	8868473	8.3	8888767	17	8868473	14	2.0	8868473
Total Barium (Ba)	ug/L	7.7	8868124	8.1	8868124	18	8868124	15	2.0	8868124
Dissolved Beryllium (Be)	ug/L	<0.40	8868473	<0.40	8888767	<0.40	8868473	<0.40	0.40	8868473
Total Beryllium (Be)	ug/L	<0.40	8868124	<0.40	8868124	<0.40	8868124	<0.40	0.40	8868124
Dissolved Bismuth (Bi)	ug/L	<1.0	8868473	<1.0	8888767	<1.0	8868473	<1.0	1.0	8868473
Total Bismuth (Bi)	ug/L	<1.0	8868124	<1.0	8868124	<1.0	8868124	<1.0	1.0	8868124
Dissolved Boron (B)	ug/L	<10	8868473	<10	8888767	<10	8868473	<10	10	8868473
Total Boron (B)	ug/L	<10	8868124	<10	8868124	<10	8868124	<10	10	8868124
Dissolved Cadmium (Cd)	ug/L	<0.090	8868473	<0.090	8888767	<0.090	8868473	<0.090	0.090	8868473
Total Cadmium (Cd)	ug/L	<0.090	8868124	<0.090	8868124	<0.090	8868124	<0.090	0.090	8868124
Dissolved Calcium (Ca)	ug/L	5500	8868473	5200	8888767	14000	8868473	15000	200	8868473
Total Calcium (Ca)	ug/L	5400	8868124	5200	8868124	14000	8868124	14000	200	8868124
Dissolved Chromium (Cr)	ug/L	<5.0	8868473	<5.0	8888767	<5.0	8868473	<5.0	5.0	8868473
Total Chromium (Cr)	ug/L	<5.0	8868124	<5.0	8868124	<5.0	8868124	<5.0	5.0	8868124
Dissolved Cobalt (Co)	ug/L	<0.50	8868473	<0.50	8888767	<0.50	8868473	<0.50	0.50	8868473
Total Cobalt (Co)	ug/L	<0.50	8868124	<0.50	8868124	<0.50	8868124	<0.50	0.50	8868124
Dissolved Copper (Cu)	ug/L	<0.90	8868473	1.6	8888767	<0.90	8868473	<0.90	0.90	8868473
Total Copper (Cu)	ug/L	<0.90	8868124	<0.90	8868124	<0.90	8868124	<0.90	0.90	8868124
Dissolved Iron (Fe)	ug/L	<100	8868473	<100	8888767	<100	8868473	<100	100	8868473
Total Iron (Fe)	ug/L	<100	8868124	<100	8868124	140	8868124	<100	100	8868124
Dissolved Lead (Pb)	ug/L	<0.50	8868473	<0.50	8888767	<0.50	8868473	<0.50	0.50	8868473
Total Lead (Pb)	ug/L	<0.50	8868124	0.56	8868124	<0.50	8868124	<0.50	0.50	8868124
Dissolved Lithium (Li)	ug/L	<5.0	8868473	<5.0	8888767	<5.0	8868473	<5.0	5.0	8868473

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV755		WSV756		WSV757		WSV758		
Sampling Date		2023/08/09 18:00		2023/08/09 17:30		2023/08/10 13:15		2023/08/10 15:30		
COC Number		945899-04-01		945899-04-01		945899-04-01		945899-04-01		
	UNITS	DL-02 NB	QC Batch	DL-02 NS	QC Batch	WC-05	QC Batch	WC-06	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	8868124	<5.0	8868124	<5.0	8868124	<5.0	5.0	8868124
Dissolved Magnesium (Mg)	ug/L	1600	8868473	1500	8888767	5900	8868473	6600	50	8868473
Total Magnesium (Mg)	ug/L	1600	8868124	1500	8868124	5700	8868124	6500	50	8868124
Dissolved Manganese (Mn)	ug/L	4.3	8868473	2.9	8888767	17	8868473	2.5	2.0	8868473
Total Manganese (Mn)	ug/L	19	8868124	6.2	8868124	23	8868124	28	2.0	8868124
Dissolved Molybdenum (Mo)	ug/L	0.55	8868473	0.58	8888767	0.55	8868473	<0.50	0.50	8868473
Total Molybdenum (Mo)	ug/L	0.51	8868124	0.55	8868124	<0.50	8868124	<0.50	0.50	8868124
Dissolved Nickel (Ni)	ug/L	<1.0	8868473	<1.0	8888767	<1.0	8868473	<1.0	1.0	8868473
Total Nickel (Ni)	ug/L	<1.0	8868124	<1.0	8868124	<1.0	8868124	<1.0	1.0	8868124
Dissolved Phosphorus (P)	ug/L	<100	8868473	<100	8888767	<100	8868473	<100	100	8868473
Dissolved Potassium (K)	ug/L	1100	8868473	1000	8888767	1000	8868473	430	200	8868473
Total Potassium (K)	ug/L	1100	8868124	990	8868124	950	8868124	390	200	8868124
Dissolved Selenium (Se)	ug/L	<2.0	8868473	<2.0	8888767	<2.0	8868473	<2.0	2.0	8868473
Total Selenium (Se)	ug/L	<2.0	8868124	<2.0	8868124	<2.0	8868124	<2.0	2.0	8868124
Dissolved Silicon (Si)	ug/L	2400	8868473	1700	8888767	1700	8868473	1700	50	8868473
Total Silicon (Si)	ug/L	2300	8868124	1800	8868124	1600	8868124	1500	50	8868124
Dissolved Silver (Ag)	ug/L	<0.090	8868473	<0.090	8888767	<0.090	8868473	<0.090	0.090	8868473
Total Silver (Ag)	ug/L	<0.090	8868124	<0.090	8868124	<0.090	8868124	<0.090	0.090	8868124
Dissolved Sodium (Na)	ug/L	1800	8868473	1700	8888767	450	8868473	380	100	8868473
Total Sodium (Na)	ug/L	1800	8868124	1800	8868124	410	8868124	360	100	8868124
Dissolved Strontium (Sr)	ug/L	14	8868473	15	8888767	17	8868473	12	1.0	8868473
Total Strontium (Sr)	ug/L	15	8868124	15	8868124	17	8868124	12	1.0	8868124
Dissolved Tellurium (Te)	ug/L	<1.0	8868473	<1.0	8888767	<1.0	8868473	<1.0	1.0	8868473
Total Tellurium (Te)	ug/L	<1.0	8868124	<1.0	8868124	<1.0	8868124	<1.0	1.0	8868124
Dissolved Thallium (Tl)	ug/L	<0.050	8868473	<0.050	8888767	<0.050	8868473	<0.050	0.050	8868473
Total Thallium (Tl)	ug/L	<0.050	8868124	<0.050	8868124	<0.050	8868124	<0.050	0.050	8868124
Dissolved Thorium (Th)	ug/L	<2.0	8868473	<2.0	8888767	<2.0	8868473	<2.0	2.0	8868473
Total Thorium (Th)	ug/L	<2.0	8868124	<2.0	8868124	<2.0	8868124	<2.0	2.0	8868124
Dissolved Tin (Sn)	ug/L	<1.0	8868473	<1.0	8888767	<1.0	8868473	<1.0	1.0	8868473
Total Tin (Sn)	ug/L	<1.0	8868124	<1.0	8868124	<1.0	8868124	<1.0	1.0	8868124
Dissolved Titanium (Ti)	ug/L	<5.0	8868473	<5.0	8888767	<5.0	8868473	<5.0	5.0	8868473
Total Titanium (Ti)	ug/L	<5.0	8868124	<5.0	8868124	<5.0	8868124	<5.0	5.0	8868124

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV755		WSV756		WSV757		WSV758		
Sampling Date		2023/08/09 18:00		2023/08/09 17:30		2023/08/10 13:15		2023/08/10 15:30		
COC Number		945899-04-01		945899-04-01		945899-04-01		945899-04-01		
	UNITS	DL-02 NB	QC Batch	DL-02 NS	QC Batch	WC-05	QC Batch	WC-06	RDL	QC Batch
Dissolved Tungsten (W)	ug/L	<1.0	8868473	<1.0	8888767	<1.0	8868473	<1.0	1.0	8868473
Total Tungsten (W)	ug/L	<1.0	8868124	<1.0	8868124	<1.0	8868124	<1.0	1.0	8868124
Dissolved Uranium (U)	ug/L	<0.10	8868473	<0.10	8888767	0.20	8868473	<0.10	0.10	8868473
Total Uranium (U)	ug/L	<0.10	8868124	<0.10	8868124	0.18	8868124	<0.10	0.10	8868124
Dissolved Vanadium (V)	ug/L	<0.50	8868473	<0.50	8888767	<0.50	8868473	<0.50	0.50	8868473
Total Vanadium (V)	ug/L	<0.50	8868124	<0.50	8868124	<0.50	8868124	<0.50	0.50	8868124
Dissolved Zinc (Zn)	ug/L	<5.0	8868473	<5.0	8888767	<5.0	8868473	<5.0	5.0	8868473
Total Zinc (Zn)	ug/L	<5.0	8868124	<5.0	8868124	<5.0	8868124	<5.0	5.0	8868124
Dissolved Zirconium (Zr)	ug/L	<1.0	8868473	<1.0	8888767	<1.0	8868473	<1.0	1.0	8868473
Total Zirconium (Zr)	ug/L	<1.0	8868124	<1.0	8868124	<1.0	8868124	<1.0	1.0	8868124

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QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV759		WSV760	WSV761	WSV762	WSV763		
Sampling Date		2023/08/10 16:45		2023/08/10 17:30	2023/08/11 14:30	2023/08/11 18:30	2023/08/12 11:30		
COC Number		945899-04-01		945899-04-01	945899-04-01	945899-04-01	945899-04-01		
	UNITS	WC-07	QC Batch	WC-08	WC-02	WC-12	WC-01	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	8869174	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	8868148
Dissolved Mercury (Hg)	ug/L	<0.10	8868929	<0.10	<0.10	<0.10	<0.10	0.10	8868929
Dissolved Aluminum (Al)	ug/L	<4.9	8868473	<4.9	7.9	24	7.4	4.9	8868473
Total Aluminum (Al)	ug/L	16	8868124	12	19	16	15	4.9	8868124
Dissolved Antimony (Sb)	ug/L	<0.50	8868473	<0.50	<0.50	<0.50	<0.50	0.50	8868473
Total Antimony (Sb)	ug/L	<0.50	8868124	<0.50	<0.50	<0.50	<0.50	0.50	8868124
Dissolved Arsenic (As)	ug/L	<1.0	8868473	<1.0	<1.0	<1.0	<1.0	1.0	8868473
Total Arsenic (As)	ug/L	<1.0	8868124	<1.0	<1.0	<1.0	<1.0	1.0	8868124
Dissolved Barium (Ba)	ug/L	12	8868473	12	13	9.4	16	2.0	8868473
Total Barium (Ba)	ug/L	13	8868124	14	13	8.7	15	2.0	8868124
Dissolved Beryllium (Be)	ug/L	<0.40	8868473	<0.40	<0.40	<0.40	<0.40	0.40	8868473
Total Beryllium (Be)	ug/L	<0.40	8868124	<0.40	<0.40	<0.40	<0.40	0.40	8868124
Dissolved Bismuth (Bi)	ug/L	<1.0	8868473	<1.0	<1.0	<1.0	<1.0	1.0	8868473
Total Bismuth (Bi)	ug/L	<1.0	8868124	<1.0	<1.0	<1.0	<1.0	1.0	8868124
Dissolved Boron (B)	ug/L	<10	8868473	<10	<10	<10	<10	10	8868473
Total Boron (B)	ug/L	<10	8868124	<10	<10	<10	<10	10	8868124
Dissolved Cadmium (Cd)	ug/L	<0.090	8868473	<0.090	<0.090	<0.090	<0.090	0.090	8868473
Total Cadmium (Cd)	ug/L	<0.090	8868124	<0.090	<0.090	<0.090	<0.090	0.090	8868124
Dissolved Calcium (Ca)	ug/L	9800	8868473	11000	9400	5700	13000	200	8868473
Total Calcium (Ca)	ug/L	9500	8868124	10000	9000	5500	12000	200	8868124
Dissolved Chromium (Cr)	ug/L	<5.0	8868473	<5.0	<5.0	<5.0	<5.0	5.0	8868473
Total Chromium (Cr)	ug/L	<5.0	8868124	<5.0	<5.0	<5.0	<5.0	5.0	8868124
Dissolved Cobalt (Co)	ug/L	<0.50	8868473	<0.50	<0.50	<0.50	<0.50	0.50	8868473
Total Cobalt (Co)	ug/L	<0.50	8868124	<0.50	<0.50	<0.50	<0.50	0.50	8868124
Dissolved Copper (Cu)	ug/L	1.5	8868473	<0.90	0.97	<0.90	<0.90	0.90	8868473
Total Copper (Cu)	ug/L	<0.90	8868124	<0.90	<0.90	<0.90	<0.90	0.90	8868124
Dissolved Iron (Fe)	ug/L	<100	8868473	<100	<100	<100	<100	100	8868473
Total Iron (Fe)	ug/L	120	8868124	<100	<100	<100	100	100	8868124
Dissolved Lead (Pb)	ug/L	<0.50	8868473	<0.50	<0.50	<0.50	<0.50	0.50	8868473
Total Lead (Pb)	ug/L	<0.50	8868124	<0.50	<0.50	<0.50	<0.50	0.50	8868124
Dissolved Lithium (Li)	ug/L	<5.0	8868473	<5.0	<5.0	<5.0	<5.0	5.0	8868473

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV759		WSV760	WSV761	WSV762	WSV763		
Sampling Date		2023/08/10 16:45		2023/08/10 17:30	2023/08/11 14:30	2023/08/11 18:30	2023/08/12 11:30		
COC Number		945899-04-01		945899-04-01	945899-04-01	945899-04-01	945899-04-01		
	UNITS	WC-07	QC Batch	WC-08	WC-02	WC-12	WC-01	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	8868124	<5.0	<5.0	<5.0	<5.0	5.0	8868124
Dissolved Magnesium (Mg)	ug/L	4500	8868473	5300	3200	1600	4300	50	8868473
Total Magnesium (Mg)	ug/L	4300	8868124	4900	3100	1500	4100	50	8868124
Dissolved Manganese (Mn)	ug/L	5.3	8868473	6.9	6.3	21	27	2.0	8868473
Total Manganese (Mn)	ug/L	26	8868124	44	45	11	36	2.0	8868124
Dissolved Molybdenum (Mo)	ug/L	<0.50	8868473	0.73	1.0	0.70	0.82	0.50	8868473
Total Molybdenum (Mo)	ug/L	<0.50	8868124	0.59	1.0	<0.50	0.74	0.50	8868124
Dissolved Nickel (Ni)	ug/L	<1.0	8868473	<1.0	<1.0	<1.0	<1.0	1.0	8868473
Total Nickel (Ni)	ug/L	<1.0	8868124	<1.0	<1.0	<1.0	<1.0	1.0	8868124
Dissolved Phosphorus (P)	ug/L	<100	8868473	<100	<100	<100	<100	100	8868473
Dissolved Potassium (K)	ug/L	<200	8868473	920	1400	1100	1600	200	8868473
Total Potassium (K)	ug/L	<200	8868124	840	1400	1000	1500	200	8868124
Dissolved Selenium (Se)	ug/L	<2.0	8868473	<2.0	<2.0	<2.0	<2.0	2.0	8868473
Total Selenium (Se)	ug/L	<2.0	8868124	<2.0	<2.0	<2.0	<2.0	2.0	8868124
Dissolved Silicon (Si)	ug/L	1200	8868473	1600	1900	2000	2800	50	8868473
Total Silicon (Si)	ug/L	1200	8868124	1500	1800	1800	2700	50	8868124
Dissolved Silver (Ag)	ug/L	<0.090	8868473	<0.090	<0.090	<0.090	<0.090	0.090	8868473
Total Silver (Ag)	ug/L	<0.090	8868124	<0.090	<0.090	<0.090	<0.090	0.090	8868124
Dissolved Sodium (Na)	ug/L	250	8868473	420	900	2100	940	100	8868473
Total Sodium (Na)	ug/L	230	8868124	430	900	2000	930	100	8868124
Dissolved Strontium (Sr)	ug/L	8.5	8868473	13	19	16	22	1.0	8868473
Total Strontium (Sr)	ug/L	9.0	8868124	13	20	16	22	1.0	8868124
Dissolved Tellurium (Te)	ug/L	<1.0	8868473	<1.0	<1.0	<1.0	<1.0	1.0	8868473
Total Tellurium (Te)	ug/L	<1.0	8868124	<1.0	<1.0	<1.0	<1.0	1.0	8868124
Dissolved Thallium (Tl)	ug/L	<0.050	8868473	<0.050	<0.050	<0.050	<0.050	0.050	8868473
Total Thallium (Tl)	ug/L	<0.050	8868124	<0.050	<0.050	<0.050	<0.050	0.050	8868124
Dissolved Thorium (Th)	ug/L	<2.0	8868473	<2.0	<2.0	<2.0	<2.0	2.0	8868473
Total Thorium (Th)	ug/L	<2.0	8868124	<2.0	<2.0	<2.0	<2.0	2.0	8868124
Dissolved Tin (Sn)	ug/L	<1.0	8868473	<1.0	<1.0	<1.0	<1.0	1.0	8868473
Total Tin (Sn)	ug/L	<1.0	8868124	<1.0	<1.0	<1.0	<1.0	1.0	8868124
Dissolved Titanium (Ti)	ug/L	<5.0	8868473	<5.0	<5.0	<5.0	<5.0	5.0	8868473
Total Titanium (Ti)	ug/L	<5.0	8868124	<5.0	<5.0	<5.0	<5.0	5.0	8868124

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV759		WSV760	WSV761	WSV762	WSV763		
Sampling Date		2023/08/10 16:45		2023/08/10 17:30	2023/08/11 14:30	2023/08/11 18:30	2023/08/12 11:30		
COC Number		945899-04-01		945899-04-01	945899-04-01	945899-04-01	945899-04-01		
	UNITS	WC-07	QC Batch	WC-08	WC-02	WC-12	WC-01	RDL	QC Batch
Dissolved Tungsten (W)	ug/L	<1.0	8868473	<1.0	<1.0	<1.0	<1.0	1.0	8868473
Total Tungsten (W)	ug/L	<1.0	8868124	<1.0	<1.0	<1.0	<1.0	1.0	8868124
Dissolved Uranium (U)	ug/L	<0.10	8868473	0.15	<0.10	<0.10	<0.10	0.10	8868473
Total Uranium (U)	ug/L	<0.10	8868124	0.15	<0.10	<0.10	<0.10	0.10	8868124
Dissolved Vanadium (V)	ug/L	<0.50	8868473	<0.50	<0.50	<0.50	<0.50	0.50	8868473
Total Vanadium (V)	ug/L	<0.50	8868124	<0.50	<0.50	<0.50	<0.50	0.50	8868124
Dissolved Zinc (Zn)	ug/L	<5.0	8868473	<5.0	<5.0	<5.0	<5.0	5.0	8868473
Total Zinc (Zn)	ug/L	<5.0	8868124	<5.0	<5.0	<5.0	<5.0	5.0	8868124
Dissolved Zirconium (Zr)	ug/L	<1.0	8868473	<1.0	<1.0	<1.0	<1.0	1.0	8868473
Total Zirconium (Zr)	ug/L	<1.0	8868124	<1.0	<1.0	<1.0	<1.0	1.0	8868124

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV764		
Sampling Date		2023/08/12 13:15		
COC Number		945899-04-01		
	UNITS	PL-02 NB	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00010	0.00010	8869174
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	8868929
Dissolved Aluminum (Al)	ug/L	5.5	4.9	8868473
Total Aluminum (Al)	ug/L	11	4.9	8868124
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8868473
Total Antimony (Sb)	ug/L	<0.50	0.50	8868124
Dissolved Arsenic (As)	ug/L	<1.0	1.0	8868473
Total Arsenic (As)	ug/L	<1.0	1.0	8868124
Dissolved Barium (Ba)	ug/L	24	2.0	8868473
Total Barium (Ba)	ug/L	23	2.0	8868124
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8868473
Total Beryllium (Be)	ug/L	<0.40	0.40	8868124
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8868473
Total Bismuth (Bi)	ug/L	<1.0	1.0	8868124
Dissolved Boron (B)	ug/L	<10	10	8868473
Total Boron (B)	ug/L	<10	10	8868124
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8868473
Total Cadmium (Cd)	ug/L	<0.090	0.090	8868124
Dissolved Calcium (Ca)	ug/L	10000	200	8868473
Total Calcium (Ca)	ug/L	9800	200	8868124
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8868473
Total Chromium (Cr)	ug/L	<5.0	5.0	8868124
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8868473
Total Cobalt (Co)	ug/L	<0.50	0.50	8868124
Dissolved Copper (Cu)	ug/L	2.2	0.90	8868473
Total Copper (Cu)	ug/L	<0.90	0.90	8868124
Dissolved Iron (Fe)	ug/L	<100	100	8868473
Total Iron (Fe)	ug/L	<100	100	8868124
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8868473
Total Lead (Pb)	ug/L	3.9	0.50	8868124
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8868473

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV764		
Sampling Date		2023/08/12 13:15		
COC Number		945899-04-01		
	UNITS	PL-02 NB	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	5.0	8868124
Dissolved Magnesium (Mg)	ug/L	3300	50	8868473
Total Magnesium (Mg)	ug/L	3200	50	8868124
Dissolved Manganese (Mn)	ug/L	1300	2.0	8868473
Total Manganese (Mn)	ug/L	1400	2.0	8868124
Dissolved Molybdenum (Mo)	ug/L	1.4	0.50	8868473
Total Molybdenum (Mo)	ug/L	1.3	0.50	8868124
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	8868473
Total Nickel (Ni)	ug/L	<1.0	1.0	8868124
Dissolved Phosphorus (P)	ug/L	<100	100	8868473
Dissolved Potassium (K)	ug/L	1500	200	8868473
Total Potassium (K)	ug/L	1400	200	8868124
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8868473
Total Selenium (Se)	ug/L	<2.0	2.0	8868124
Dissolved Silicon (Si)	ug/L	2700	50	8868473
Total Silicon (Si)	ug/L	2500	50	8868124
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8868473
Total Silver (Ag)	ug/L	<0.090	0.090	8868124
Dissolved Sodium (Na)	ug/L	890	100	8868473
Total Sodium (Na)	ug/L	840	100	8868124
Dissolved Strontium (Sr)	ug/L	20	1.0	8868473
Total Strontium (Sr)	ug/L	20	1.0	8868124
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	8868473
Total Tellurium (Te)	ug/L	<1.0	1.0	8868124
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8868473
Total Thallium (Tl)	ug/L	<0.050	0.050	8868124
Dissolved Thorium (Th)	ug/L	<2.0	2.0	8868473
Total Thorium (Th)	ug/L	<2.0	2.0	8868124
Dissolved Tin (Sn)	ug/L	<1.0	1.0	8868473
Total Tin (Sn)	ug/L	<1.0	1.0	8868124
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8868473
Total Titanium (Ti)	ug/L	<5.0	5.0	8868124

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QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV764		
Sampling Date		2023/08/12 13:15		
COC Number		945899-04-01		
	UNITS	PL-02 NB	RDL	QC Batch
Dissolved Tungsten (W)	ug/L	<1.0	1.0	8868473
Total Tungsten (W)	ug/L	<1.0	1.0	8868124
Dissolved Uranium (U)	ug/L	0.11	0.10	8868473
Total Uranium (U)	ug/L	0.13	0.10	8868124
Dissolved Vanadium (V)	ug/L	<0.50	0.50	8868473
Total Vanadium (V)	ug/L	<0.50	0.50	8868124
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8868473
Total Zinc (Zn)	ug/L	<5.0	5.0	8868124
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	8868473
Total Zirconium (Zr)	ug/L	<1.0	1.0	8868124

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV755
Sample ID: DL-02 NB
Matrix: Water

Collected: 2023/08/09
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898335	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV755 Dup
Sample ID: DL-02 NB
Matrix: Water

Collected: 2023/08/09
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali

Bureau Veritas ID: WSV756
Sample ID: DL-02 NS
Matrix: Water

Collected: 2023/08/09
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV756
Sample ID: DL-02 NS
Matrix: Water

Collected: 2023/08/09
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8888767	N/A	2023/08/31	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898335	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV757
Sample ID: WC-05
Matrix: Water

Collected: 2023/08/10
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898335	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV757
Sample ID: WC-05
Matrix: Water

Collected: 2023/08/10
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV758
Sample ID: WC-06
Matrix: Water

Collected: 2023/08/10
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8869174	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898335	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV759
Sample ID: WC-07
Matrix: Water

Collected: 2023/08/10
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8869174	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898335	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV759 Dup
Sample ID: WC-07
Matrix: Water

Collected: 2023/08/10
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur

Bureau Veritas ID: WSV760
Sample ID: WC-08
Matrix: Water

Collected: 2023/08/10
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV760
Sample ID: WC-08
Matrix: Water

Collected: 2023/08/10
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898335	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV761
Sample ID: WC-02
Matrix: Water

Collected: 2023/08/11
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898335	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV761 **Collected:** 2023/08/11
Sample ID: WC-02 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/09/01	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8891653	2023/09/08	2023/09/08	Automated Statchk

Bureau Veritas ID: WSV761 Dup **Collected:** 2023/08/11
Sample ID: WC-02 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau

Bureau Veritas ID: WSV762 **Collected:** 2023/08/11
Sample ID: WC-12 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV762 **Collected:** 2023/08/11
Sample ID: WC-12 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV762 Dup **Collected:** 2023/08/11
Sample ID: WC-12 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan

Bureau Veritas ID: WSV763 **Collected:** 2023/08/12
Sample ID: WC-01 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2237
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: WSV764
Sample ID: PL-02 NB
Matrix: Water

Collected: 2023/08/12
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8866711	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8866896	N/A	2023/08/22	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867083	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867050	2023/08/21	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8869174	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/23	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869353	N/A	2023/08/23	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8866892	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867051	2023/08/21	2023/08/22	Nachiketa Gohil
Field Temperature	PH	ONSITE	N/A	2023/09/08	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868079	2023/08/22	2023/08/23	Shaneil Hall
Field Temperature	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8869971	2023/08/22	2023/08/23	Muskan
Total Suspended Solids	BAL	8868061	2023/08/22	2023/08/23	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.7°C
Package 2	3.3°C
Package 3	8.0°C
Package 4	9.3°C
Package 5	6.0°C
Package 6	5.7°C
Package 7	7.7°C
Package 8	8.0°C
Package 9	7.7°C

Revised Report [2024/11/12]: Sample ID amended as per client request.
TDS/TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.WS#8868061,WS#8868079
Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample WSV756 [DL-02 NS] : Result for dissolved aluminum is greater than total aluminum. Results have been confirmed by reanalysis.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8866711	Alkalinity (Total as CaCO3)	2023/08/22			95	85 - 115	<1.0	mg/L	4.3	20		
8866892	Nitrate (N)	2023/08/22	95	80 - 120	99	80 - 120	<0.10	mg/L	1.3	20		
8866892	Nitrite (N)	2023/08/22	99	80 - 120	106	80 - 120	<0.010	mg/L	0.84	20		
8866896	Dissolved Bromide (Br-)	2023/08/22	101	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
8867050	Fluoride (F-)	2023/08/22	104	80 - 120	105	80 - 120	<0.10	mg/L	0.97	20		
8867051	pH	2023/08/22			102	98 - 103			1.5	N/A		
8867083	Conductivity	2023/08/22			100	85 - 115	<1.0	umho/cm	0.16	10		
8867853	Dissolved Chloride (Cl-)	2023/08/22	98	80 - 120	95	80 - 120	<1.0	mg/L	7.5	20		
8867857	Dissolved Sulphate (SO4)	2023/08/22	101	75 - 125	101	80 - 120	<1.0	mg/L	1.5	20		
8867858	Orthophosphate (P)	2023/08/22	97	75 - 125	95	80 - 120	<0.010	mg/L	NC	20		
8868061	Total Suspended Solids	2023/08/23			99	80 - 120	<10	mg/L	9.5	20		
8868079	Total Dissolved Solids	2023/08/23			98	80 - 120	<10	mg/L	2.6	20		
8868124	Total Aluminum (Al)	2023/08/24	140 (1)	80 - 120	104	80 - 120	<4.9	ug/L	4.0	20		
8868124	Total Antimony (Sb)	2023/08/24	113	80 - 120	112	80 - 120	<0.50	ug/L	NC	20		
8868124	Total Arsenic (As)	2023/08/24	102	80 - 120	102	80 - 120	<1.0	ug/L	1.7	20		
8868124	Total Barium (Ba)	2023/08/24	99	80 - 120	99	80 - 120	<2.0	ug/L	2.5	20		
8868124	Total Beryllium (Be)	2023/08/24	102	80 - 120	103	80 - 120	<0.40	ug/L	NC	20		
8868124	Total Bismuth (Bi)	2023/08/24	95	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Boron (B)	2023/08/24	103	80 - 120	102	80 - 120	<10	ug/L	0.51	20		
8868124	Total Cadmium (Cd)	2023/08/24	102	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
8868124	Total Calcium (Ca)	2023/08/24	NC	80 - 120	102	80 - 120	<200	ug/L	3.2	20		
8868124	Total Chromium (Cr)	2023/08/24	101	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
8868124	Total Cobalt (Co)	2023/08/24	100	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
8868124	Total Copper (Cu)	2023/08/24	101	80 - 120	101	80 - 120	<0.90	ug/L	1.3	20		
8868124	Total Iron (Fe)	2023/08/24	101	80 - 120	100	80 - 120	<100	ug/L	0.27	20		
8868124	Total Lead (Pb)	2023/08/24	99	80 - 120	99	80 - 120	<0.50	ug/L	1.7	20		
8868124	Total Lithium (Li)	2023/08/24	103	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
8868124	Total Magnesium (Mg)	2023/08/24	100	80 - 120	100	80 - 120	<50	ug/L	1.2	20		
8868124	Total Manganese (Mn)	2023/08/24	100	80 - 120	101	80 - 120	<2.0	ug/L	0.80	20		
8868124	Total Molybdenum (Mo)	2023/08/24	105	80 - 120	104	80 - 120	<0.50	ug/L	14	20		

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8868124	Total Nickel (Ni)	2023/08/24	100	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Potassium (K)	2023/08/24	100	80 - 120	99	80 - 120	<200	ug/L	0.14	20		
8868124	Total Selenium (Se)	2023/08/24	106	80 - 120	108	80 - 120	<2.0	ug/L	NC	20		
8868124	Total Silicon (Si)	2023/08/24	104	80 - 120	103	80 - 120	<50	ug/L	3.6	20		
8868124	Total Silver (Ag)	2023/08/24	99	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
8868124	Total Sodium (Na)	2023/08/24	101	80 - 120	100	80 - 120	<100	ug/L	1.4	20		
8868124	Total Strontium (Sr)	2023/08/24	102	80 - 120	100	80 - 120	<1.0	ug/L	0.77	20		
8868124	Total Tellurium (Te)	2023/08/24	104	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Thallium (Tl)	2023/08/24	101	80 - 120	101	80 - 120	<0.050	ug/L	NC	20		
8868124	Total Thorium (Th)	2023/08/24	101	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
8868124	Total Tin (Sn)	2023/08/24	103	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Titanium (Ti)	2023/08/24	102	80 - 120	101	80 - 120	<5.0	ug/L	2.2	20		
8868124	Total Tungsten (W)	2023/08/24	103	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Uranium (U)	2023/08/24	101	80 - 120	101	80 - 120	<0.10	ug/L	3.1	20		
8868124	Total Vanadium (V)	2023/08/24	102	80 - 120	101	80 - 120	<0.50	ug/L	3.1	20		
8868124	Total Zinc (Zn)	2023/08/24	105	80 - 120	106	80 - 120	<5.0	ug/L	1.5	20		
8868124	Total Zirconium (Zr)	2023/08/24	107	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
8868148	Mercury (Hg)	2023/08/22	99	75 - 125	100	80 - 120	<0.00010	mg/L	NC	20		
8868473	Dissolved Aluminum (Al)	2023/08/24	109	80 - 120	101	80 - 120	<4.9	ug/L				
8868473	Dissolved Antimony (Sb)	2023/08/24	113	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
8868473	Dissolved Arsenic (As)	2023/08/24	107	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8868473	Dissolved Barium (Ba)	2023/08/24	NC	80 - 120	100	80 - 120	<2.0	ug/L	1.1	20		
8868473	Dissolved Beryllium (Be)	2023/08/24	105	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
8868473	Dissolved Bismuth (Bi)	2023/08/24	105	80 - 120	101	80 - 120	<1.0	ug/L				
8868473	Dissolved Boron (B)	2023/08/24	NC	80 - 120	100	80 - 120	<10	ug/L	1.2	20		
8868473	Dissolved Cadmium (Cd)	2023/08/24	105	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
8868473	Dissolved Calcium (Ca)	2023/08/24	NC	80 - 120	103	80 - 120	<200	ug/L				
8868473	Dissolved Chromium (Cr)	2023/08/24	105	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
8868473	Dissolved Cobalt (Co)	2023/08/24	104	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
8868473	Dissolved Copper (Cu)	2023/08/24	107	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
8868473	Dissolved Iron (Fe)	2023/08/24	106	80 - 120	100	80 - 120	<100	ug/L				

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8868473	Dissolved Lead (Pb)	2023/08/24	102	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
8868473	Dissolved Lithium (Li)	2023/08/24	109	80 - 120	101	80 - 120	<5.0	ug/L				
8868473	Dissolved Magnesium (Mg)	2023/08/24	NC	80 - 120	98	80 - 120	<50	ug/L				
8868473	Dissolved Manganese (Mn)	2023/08/24	105	80 - 120	99	80 - 120	<2.0	ug/L				
8868473	Dissolved Molybdenum (Mo)	2023/08/24	112	80 - 120	102	80 - 120	<0.50	ug/L	0.097	20		
8868473	Dissolved Nickel (Ni)	2023/08/24	104	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8868473	Dissolved Phosphorus (P)	2023/08/24	114	80 - 120	99	80 - 120	<100	ug/L				
8868473	Dissolved Potassium (K)	2023/08/24	107	80 - 120	100	80 - 120	<200	ug/L				
8868473	Dissolved Selenium (Se)	2023/08/24	109	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
8868473	Dissolved Silicon (Si)	2023/08/24	112	80 - 120	104	80 - 120	<50	ug/L				
8868473	Dissolved Silver (Ag)	2023/08/24	84	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
8868473	Dissolved Sodium (Na)	2023/08/24	NC	80 - 120	99	80 - 120	<100	ug/L	0.36	20		
8868473	Dissolved Strontium (Sr)	2023/08/24	NC	80 - 120	98	80 - 120	<1.0	ug/L				
8868473	Dissolved Tellurium (Te)	2023/08/24	105	80 - 120	99	80 - 120	<1.0	ug/L				
8868473	Dissolved Thallium (Tl)	2023/08/24	101	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
8868473	Dissolved Thorium (Th)	2023/08/24	93	80 - 120	99	80 - 120	<2.0	ug/L				
8868473	Dissolved Tin (Sn)	2023/08/24	110	80 - 120	101	80 - 120	<1.0	ug/L				
8868473	Dissolved Titanium (Ti)	2023/08/24	110	80 - 120	103	80 - 120	<5.0	ug/L				
8868473	Dissolved Tungsten (W)	2023/08/24	108	80 - 120	101	80 - 120	<1.0	ug/L				
8868473	Dissolved Uranium (U)	2023/08/24	105	80 - 120	98	80 - 120	<0.10	ug/L	NC	20		
8868473	Dissolved Vanadium (V)	2023/08/24	108	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8868473	Dissolved Zinc (Zn)	2023/08/24	105	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
8868473	Dissolved Zirconium (Zr)	2023/08/24	111	80 - 120	102	80 - 120	<1.0	ug/L				
8868900	Dissolved Organic Carbon	2023/08/22	95	80 - 120	99	80 - 120	<0.40	mg/L	1.2	20		
8868929	Dissolved Mercury (Hg)	2023/08/22	98	75 - 125	101	80 - 120	<0.10	ug/L	NC	20		
8869174	Mercury (Hg)	2023/08/22	96	75 - 125	99	80 - 120	<0.00010	mg/L	NC	20		
8869353	Total Ammonia-N	2023/08/23	101	75 - 125	101	80 - 120	<0.050	mg/L	NC	20		
8869971	Total Phosphorus	2023/08/23	92	80 - 120	98	80 - 120	<0.020	mg/L	13	20	98	80 - 120
8882702	Acidity	2023/08/29	93	80 - 120	104	80 - 120	<5.0	mg/L	NC	25		
8888767	Dissolved Aluminum (Al)	2023/08/31	108	80 - 120	100	80 - 120	<4.9	ug/L				
8888767	Dissolved Antimony (Sb)	2023/08/31	114	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8888767	Dissolved Arsenic (As)	2023/08/31	109	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
8888767	Dissolved Barium (Ba)	2023/08/31	110	80 - 120	98	80 - 120	<2.0	ug/L	2.8	20		
8888767	Dissolved Beryllium (Be)	2023/08/31	107	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
8888767	Dissolved Bismuth (Bi)	2023/08/31	106	80 - 120	99	80 - 120	<1.0	ug/L				
8888767	Dissolved Boron (B)	2023/08/31	108	80 - 120	105	80 - 120	<10	ug/L	2.4	20		
8888767	Dissolved Cadmium (Cd)	2023/08/31	108	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
8888767	Dissolved Calcium (Ca)	2023/08/31	NC	80 - 120	99	80 - 120	<200	ug/L				
8888767	Dissolved Chromium (Cr)	2023/08/31	104	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
8888767	Dissolved Cobalt (Co)	2023/08/31	104	80 - 120	98	80 - 120	<0.50	ug/L	1.8	20		
8888767	Dissolved Copper (Cu)	2023/08/31	108	80 - 120	97	80 - 120	<0.90	ug/L	2.2	20		
8888767	Dissolved Iron (Fe)	2023/08/31	110	80 - 120	100	80 - 120	<100	ug/L				
8888767	Dissolved Lead (Pb)	2023/08/31	106	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8888767	Dissolved Lithium (Li)	2023/08/31	112	80 - 120	111	80 - 120	<5.0	ug/L				
8888767	Dissolved Magnesium (Mg)	2023/08/31	NC	80 - 120	103	80 - 120	<50	ug/L				
8888767	Dissolved Manganese (Mn)	2023/08/31	108	80 - 120	98	80 - 120	<2.0	ug/L				
8888767	Dissolved Molybdenum (Mo)	2023/08/31	108	80 - 120	98	80 - 120	<0.50	ug/L	5.6	20		
8888767	Dissolved Nickel (Ni)	2023/08/31	102	80 - 120	99	80 - 120	<1.0	ug/L	5.0	20		
8888767	Dissolved Phosphorus (P)	2023/08/31	118	80 - 120	104	80 - 120	<100	ug/L				
8888767	Dissolved Potassium (K)	2023/08/31	113	80 - 120	103	80 - 120	<200	ug/L				
8888767	Dissolved Selenium (Se)	2023/08/31	105	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
8888767	Dissolved Silicon (Si)	2023/08/31	109	80 - 120	101	80 - 120	<50	ug/L				
8888767	Dissolved Silver (Ag)	2023/08/31	104	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
8888767	Dissolved Sodium (Na)	2023/08/31	NC	80 - 120	98	80 - 120	<100	ug/L	0.85	20		
8888767	Dissolved Strontium (Sr)	2023/08/31	NC	80 - 120	98	80 - 120	<1.0	ug/L				
8888767	Dissolved Tellurium (Te)	2023/08/31	110	80 - 120	101	80 - 120	<1.0	ug/L				
8888767	Dissolved Thallium (Tl)	2023/08/31	112	80 - 120	98	80 - 120	<0.050	ug/L	NC	20		
8888767	Dissolved Thorium (Th)	2023/08/31	93	80 - 120	100	80 - 120	<2.0	ug/L				
8888767	Dissolved Tin (Sn)	2023/08/31	112	80 - 120	102	80 - 120	<1.0	ug/L				
8888767	Dissolved Titanium (Ti)	2023/08/31	111	80 - 120	101	80 - 120	<5.0	ug/L				
8888767	Dissolved Tungsten (W)	2023/08/31	112	80 - 120	100	80 - 120	<1.0	ug/L				
8888767	Dissolved Uranium (U)	2023/08/31	111	80 - 120	99	80 - 120	<0.10	ug/L	0.81	20		

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8888767	Dissolved Vanadium (V)	2023/08/31	105	80 - 120	96	80 - 120	<0.50	ug/L	6.6	20		
8888767	Dissolved Zinc (Zn)	2023/08/31	107	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
8888767	Dissolved Zirconium (Zr)	2023/08/31	111	80 - 120	103	80 - 120	<1.0	ug/L				
8898334	Total Yttrium (Y)	2023/08/24			106	80 - 120	<2.0	ug/L	NC	30		
8898335	Dissolved Yttrium (Y)	2023/08/24			101	80 - 120	<2.0	ug/L				
8898336	Dissolved Yttrium (Y)	2023/08/24			103	80 - 120	<2.0	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ankita Bhalla, Project Manager

Anastassia Hamanov, Supervisor-Afternoon Shift

Cristina Carriere, Senior Scientific Specialist

Janah Rhyno, Scientific Specialist

Zineb El Ouali
Membre OCQ#2021-051

Zineb El Ouali, Analyst 1

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
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COOLER OBSERVATIONS:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	8 (1)	6 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	3 (1)	4 (2)	3 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	9 (1)	7 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	9 (1)	9 (2)	10 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	6 (1)	5 (2)	7 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5 (1)	5 (2)	7 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	7 (1)	8 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	10 (1)	8 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5 (1)	9 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

BV JOB#: C3P 2237

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
JAE DEGRACE	2023/08/18	14:33

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

18-Aug-23 14:33
Ankita Bhalla
C3P2237
AJH ENV-1789

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INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bottle Order #: 945899
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:		
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		COC #: C#945899-04-01 / Project Manager: Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:		
				Sampled By:	Michael Hildebrandt + Brian Lingelbach	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals/Hg/Cr VI)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): pH	Alkalinity	Conductivity	Total Dissolved Solids	Total Suspended Solids	Hardness (calculated as CaCO3)	Dissolved Organic Carbon (DOC)	Fluoride/Chloride/Sulphate/Bromide/Nitrate/Nitrite/Orthophosphate	Phosphorus/Ammonia Total (NH3+NH4)/Un-ionized Ammonia	Total Metals Analysis by ICPMS	# of Bottles	Comments
1		DL 22m	2023/08/09	18:00	SW	x1 each	X	X	X	X	X	X	X	X	X	X	11	
2		DL 1m	2023/08/09	17:30	SW	x1 each												
3		WC-05	2023/08/10	13:15	SW	x1 each												
4		WC-06	2023/08/10	15:30	SW	x1 each												
5		WC-07	2023/08/10	16:45	SW	x1 each												
6		WC-08	2023/08/10	17:30	SW	x1 each												
7		WC-02	2023/08/11	14:30	SW	x1 each												
8		Davidhill-01	2023/08/11	18:30	SW	x1 each												
9		WC-01	2023/08/12	11:30	SW	x1 each												
10		Pike-02 8m	2023/08/12	13:15	SW	x1 each												

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only
Michael Hildebrandt	23/08/18		[illegible] JHATPER KAUR	2023/08/18	14:33		Time Sensitive; Temperature (°C) on Recei: ACTP; Custody Seal Present: Yes; Intact: Yes; No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #: 945899
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #: C#945899-04-02	Project Manager: Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Langelaan		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ____
- ☐ PWQO ☐ Reg 406 Table ____
- ☐ Other ____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Dissolved Metals by ICPMS	Mercury in Water by CVAA	Dissolved Mercury in Water by CVAA	Total Extractable Lanthanides (Yttrium)	Dissolved Lanthanides (Yttrium)	# of Bottles	Comments
1		DL 22m	2023/08/09	18:00	SW	x1 each	X	X	X	X	X	11	
2		DL 1m	2023/08/09	17:30	SW	x1 each	↓	↓	↓	↓	↓	↓	
3		WC-05	2023/08/10	13:15	SW	x1 each							
4		WC-06	2023/08/10	15:30	SW	x1 each							
5		WC-07	2023/08/10	16:45	SW	x1 each							
6		WC-08	2023/08/10	17:30	SW	x1 each							
7		WC-02	2023/08/11	14:30	SW	x1 each							
8		Daviault-01	2023/08/11	18:30	SW	x1 each							
9		WC-01	2023/08/12	11:30	SW	x1 each							
10		Pike-02 8m	2023/08/12	13:15	SW	x1 each	↓	↓	↓	↓	↓	↓	Ice

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/08/18		[illegible]	2023/08/18	14:33	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	ACTR	Present	✓	
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401233
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2242
Received: 2023/08/18, 14:33

Sample Matrix: Water
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity (CaCO3) in water (1)	8	N/A	2023/08/29	ATL SOP-00205	SM 24 2310B m
Alkalinity	8	N/A	2023/08/22	CAM SOP-00448	SM 23 2320 B m
Anions	7	N/A	2023/08/23	CAM SOP-00435	SM 23 4110 B m
Anions	1	N/A	2023/08/24	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	8	N/A	2023/08/22	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	8	N/A	2023/08/22	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (3)	8	N/A	2023/08/22	CAM SOP-00446	SM 23 5310 B m
Fluoride	8	2023/08/22	2023/08/22	CAM SOP-00449	SM 24 4500-F C m
Hardness (calculated as CaCO3)	8	N/A	2023/08/25	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Mercury in Water by CVAA	8	2023/08/22	2023/08/22	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	8	2023/08/22	2023/08/22	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	7	N/A	2023/08/24	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2023/08/31	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	7	2023/08/22	2023/08/24	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	2023/08/31	2023/08/31	CAM SOP-00447	EPA 6020B m
Total Extractable Lanthanides-waters (2, 4)	8	2023/08/23	2023/08/24	STL SOP-00071	MA.200–Mét. 1.2 R7 m
Dissolved Lanthanides- waters (2, 4)	8	N/A	2023/08/24	STL SOP-00071	MA.200–Mét. 1.2 R5 m
Total Ammonia (as NH3)	8	N/A	2023/08/24	Auto Calc.	
Total Ammonia-N	8	N/A	2023/08/24	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (5)	8	N/A	2023/08/22	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (6)	8	2023/08/22	2023/08/22	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (7)	8	N/A	2023/08/31		Field pH Meter
Orthophosphate	8	N/A	2023/08/22	CAM SOP-00461	SM 23 4500-P E m
Sulphate by Automated Turbidimetry	8	N/A	2023/08/22	CAM SOP-00464	SM 23 4500-SO42- E m
Total Dissolved Solids	8	2023/08/22	2023/08/23	CAM SOP-00428	SM 23 2540C m
Field Temperature (7)	8	N/A	2023/08/31		Field Thermometer
Total Phosphorus (Colourimetric)	8	2023/08/23	2023/08/24	CAM SOP-00407	SM 23 4500-P I
Total Suspended Solids	8	2023/08/22	2023/08/22	CAM SOP-00428	SM 23 2540D m
Un-ionized Ammonia (8)	8	2023/08/31	2023/08/31	Auto Calc.	PWQO

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401233
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2242
Received: 2023/08/18, 14:33

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) This test was performed by Bureau Veritas Montreal., 889 Montée de Liesse , Ville St-Laurent, QC, H4T 1P5
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) Non-accredited test method
(5) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(6) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

(7) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.
(8) Un-ionized ammonia is calculated using the total ammonia result and field data provided by the client for pH and temperature.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945899-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401233
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2242
Received: 2023/08/18, 14:33

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3P2242
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV800			WSV800			WSV801		
Sampling Date		2023/08/15 13:30			2023/08/15 13:30			2023/08/15		
COC Number		945899-01-01			945899-01-01			945899-01-01		
	UNITS	LL-02 NB	RDL	QC Batch	LL-02 NB Lab-Dup	RDL	QC Batch	DUP	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	0.098	0.061	8866393				<0.061	0.061	8866393
Hardness (CaCO3)	mg/L	36	1.0	8866245				36	1.0	8866245
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	8889201				<0.00085	0.00085	8889201
Field Measurements										
Field Temperature	Celsius	8.0	N/A	ONSITE				17.0	N/A	ONSITE
Field Measured pH	pH	6.60		ONSITE				7.65		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8882702				<5.0	5.0	8882702
Total Ammonia-N	mg/L	0.080	0.050	8869940				<0.050	0.050	8869940
Conductivity	umho/cm	73	1.0	8867969	73	1.0	8867969	72	1.0	8867969
Total Dissolved Solids	mg/L	55	10	8865316				50	10	8865316
Fluoride (F-)	mg/L	<0.10	0.10	8867970	<0.10	0.10	8867970	<0.10	0.10	8867970
Dissolved Organic Carbon	mg/L	3.2	0.40	8868900				3.3	0.40	8868900
Orthophosphate (P)	mg/L	<0.010	0.010	8867858				<0.010	0.010	8867858
pH	pH	7.19		8867971	7.25		8867971	7.48		8867971
Total Phosphorus	mg/L	<0.020	0.020	8871268				<0.020	0.020	8871268
Total Suspended Solids	mg/L	<10	10	8867747				<10	10	8867747
Dissolved Sulphate (SO4)	mg/L	3.8	1.0	8867857				3.8	1.0	8867857
Alkalinity (Total as CaCO3)	mg/L	34	1.0	8867967	35	1.0	8867967	35	1.0	8867967
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8867853				<1.0	1.0	8867853
Nitrite (N)	mg/L	<0.010	0.010	8867966				<0.010	0.010	8867966
Nitrate (N)	mg/L	<0.10	0.10	8867966				<0.10	0.10	8867966
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8867966				<0.10	0.10	8867966
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8870287	<1.0	1.0	8870287	<1.0	1.0	8870280
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898336				<2.0	2.0	8898336
Total Yttrium (Y)	ug/L	<2.0	2.0	8898334				<2.0	2.0	8898334

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2242
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV801			WSV802			WSV803		
Sampling Date		2023/08/15			2023/08/15 15:30			2023/08/15 15:50		
COC Number		945899-01-01			945899-01-01			945899-01-01		
	UNITS	DUP Lab-Dup	RDL	QC Batch	LL-03 NS	RDL	QC Batch	LL-03 NB	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L				<0.061	0.061	8866393	<0.061	0.061	8866393
Hardness (CaCO3)	mg/L				34	1.0	8866245	33	1.0	8866245
Total Un-ionized Ammonia	mg/L				<0.0012	0.0012	8889201	<0.00061	0.00061	8889201
Field Measurements										
Field Temperature	Celsius				17.5	N/A	ONSITE	9.1	N/A	ONSITE
Field Measured pH	pH				7.80		ONSITE	7.08		ONSITE
Inorganics										
Acidity	mg/L				<5.0	5.0	8882702	<5.0	5.0	8882702
Total Ammonia-N	mg/L				<0.050	0.050	8869940	<0.050	0.050	8869940
Conductivity	umho/cm				69	1.0	8867969	69	1.0	8867969
Total Dissolved Solids	mg/L				60	10	8865316	50	10	8865316
Fluoride (F-)	mg/L				<0.10	0.10	8867970	<0.10	0.10	8867970
Dissolved Organic Carbon	mg/L				3.5	0.40	8868900	3.3	0.40	8868900
Orthophosphate (P)	mg/L				<0.010	0.010	8867858	<0.010	0.010	8867858
pH	pH				7.48		8867971	7.27		8867971
Total Phosphorus	mg/L				<0.020	0.020	8871268	<0.020	0.020	8871268
Total Suspended Solids	mg/L				<10	10	8866222	<10	10	8867747
Dissolved Sulphate (SO4)	mg/L				3.7	1.0	8867857	3.6	1.0	8867857
Alkalinity (Total as CaCO3)	mg/L				33	1.0	8867967	33	1.0	8867967
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	8867853	<1.0	1.0	8867853
Nitrite (N)	mg/L	<0.010	0.010	8867966	<0.010	0.010	8867966	<0.010	0.010	8867966
Nitrate (N)	mg/L	<0.10	0.10	8867966	<0.10	0.10	8867966	<0.10	0.10	8867966
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8867966	<0.10	0.10	8867966	<0.10	0.10	8867966
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	8870280	<1.0	1.0	8870280
Metals										
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	8898336	<2.0	2.0	8898336
Total Yttrium (Y)	ug/L				<2.0	2.0	8898334	<2.0	2.0	8898334

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2242
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV804			WSV805			WSV806		
Sampling Date		2023/08/15 17:30			2023/08/16 13:00			2023/08/16 13:15		
COC Number		945899-01-01			945899-01-01			945899-01-01		
	UNITS	WC-09	RDL	QC Batch	RL-02 NS	RDL	QC Batch	RL-02 NB	RDL	QC Batch
Calculated Parameters										
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8866393	<0.061	0.061	8866393	<0.061	0.061	8866393
Hardness (CaCO3)	mg/L	14	1.0	8866245	45	1.0	8866245	44	1.0	8866245
Total Un-ionized Ammonia	mg/L	<0.00062	0.00062	8889201	<0.0017	0.0017	8889201	<0.00061	0.00061	8889201
Field Measurements										
Field Temperature	Celsius	19.5	N/A	ONSITE	16.6	N/A	ONSITE	9.4	N/A	ONSITE
Field Measured pH	pH	7.43		ONSITE	7.96		ONSITE	6.84		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	8882702	<5.0	5.0	8882702	<5.0	5.0	8882702
Total Ammonia-N	mg/L	<0.050	0.050	8869940	<0.050	0.050	8869940	<0.050	0.050	8869940
Conductivity	umho/cm	34	1.0	8867969	88	1.0	8867969	86	1.0	8867969
Total Dissolved Solids	mg/L	35	10	8865316	40	10	8868411	65	10	8865316
Fluoride (F-)	mg/L	<0.10	0.10	8867970	<0.10	0.10	8867970	<0.10	0.10	8867970
Dissolved Organic Carbon	mg/L	5.4	0.40	8868900	3.1	0.40	8868900	2.8	0.40	8868900
Orthophosphate (P)	mg/L	<0.010	0.010	8867858	<0.010	0.010	8867858	<0.010	0.010	8867858
pH	pH	7.01		8867971	7.61		8867971	7.38		8867971
Total Phosphorus	mg/L	<0.020	0.020	8871268	<0.020	0.020	8871268	<0.020	0.020	8871268
Total Suspended Solids	mg/L	<10	10	8867747	<10	10	8866222	<10	10	8867747
Dissolved Sulphate (SO4)	mg/L	2.9	1.0	8867857	3.4	1.0	8867857	3.8	1.0	8867857
Alkalinity (Total as CaCO3)	mg/L	12	1.0	8867967	45	1.0	8867967	43	1.0	8867967
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8867853	<1.0	1.0	8867853	<1.0	1.0	8867853
Nitrite (N)	mg/L	<0.010	0.010	8867966	<0.010	0.010	8867966	<0.010	0.010	8867966
Nitrate (N)	mg/L	<0.10	0.10	8867966	<0.10	0.10	8867966	<0.10	0.10	8867966
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8867966	<0.10	0.10	8867966	<0.10	0.10	8867966
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8870280	<1.0	1.0	8870280	<1.0	1.0	8870280
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898336	<2.0	2.0	8898336	<2.0	2.0	8898336
Total Yttrium (Y)	ug/L	<2.0	2.0	8898334	<2.0	2.0	8898334	<2.0	2.0	8898334

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2242
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV807		
Sampling Date		2023/08/16 19:00		
COC Number		945899-01-01		
	UNITS	**WC-10**	**RDL**	**QC Batch**
Calculated Parameters				
Total Ammonia (as NH3)	mg/L	<0.061	0.061	8866393
Hardness (CaCO3)	mg/L	11	1.0	8866245
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	8889201
Field Measurements				
Field Temperature	Celsius	17.5	N/A	ONSITE
Field Measured pH	pH	7.21		ONSITE
Inorganics				
Acidity	mg/L	<5.0	5.0	8882702
Total Ammonia-N	mg/L	<0.050	0.050	8869940
Conductivity	umho/cm	27	1.0	8867969
Total Dissolved Solids	mg/L	25	10	8865316
Fluoride (F-)	mg/L	<0.10	0.10	8867970
Dissolved Organic Carbon	mg/L	5.5	0.40	8868900
Orthophosphate (P)	mg/L	<0.010	0.010	8867858
pH	pH	6.96		8867971
Total Phosphorus	mg/L	<0.020	0.020	8871268
Total Suspended Solids	mg/L	<10	10	8866222
Dissolved Sulphate (SO4)	mg/L	2.5	1.0	8867857
Alkalinity (Total as CaCO3)	mg/L	10	1.0	8867967
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	8867853
Nitrite (N)	mg/L	<0.010	0.010	8867966
Nitrate (N)	mg/L	<0.10	0.10	8867966
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	8867966
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	8870287
Metals				
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	8898336
Total Yttrium (Y)	ug/L	<2.0	2.0	8898334

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV800	WSV801	WSV802		WSV803		
Sampling Date		2023/08/15 13:30	2023/08/15	2023/08/15 15:30		2023/08/15 15:50		
COC Number		945899-01-01	945899-01-01	945899-01-01		945899-01-01		
	UNITS	LL-02 NB	DUP	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	8868148	<0.00010	0.00010	8868148
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	<0.10	8868929	<0.10	0.10	8868929
Dissolved Aluminum (Al)	ug/L	6.5	7.9	9.1	8868473	13	4.9	8888767
Total Aluminum (Al)	ug/L	20	14	16	8868124	12	4.9	8888815
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	8868473	<0.50	0.50	8888767
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	8868124	<0.50	0.50	8888815
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	8868473	<1.0	1.0	8888767
Total Arsenic (As)	ug/L	<1.0	<1.0	<1.0	8868124	<1.0	1.0	8888815
Dissolved Barium (Ba)	ug/L	12	9.8	9.4	8868473	11	2.0	8888767
Total Barium (Ba)	ug/L	12	9.8	9.5	8868124	10	2.0	8888815
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	8868473	<0.40	0.40	8888767
Total Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	8868124	<0.40	0.40	8888815
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	8868473	<1.0	1.0	8888767
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	8868124	<1.0	1.0	8888815
Dissolved Boron (B)	ug/L	<10	<10	<10	8868473	<10	10	8888767
Total Boron (B)	ug/L	<10	<10	<10	8868124	<10	10	8888815
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	8868473	<0.090	0.090	8888767
Total Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	8868124	<0.090	0.090	8888815
Dissolved Calcium (Ca)	ug/L	8400	8500	8000	8868473	7700	200	8888767
Total Calcium (Ca)	ug/L	8500	7900	7500	8868124	8000	200	8888815
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	8868473	<5.0	5.0	8888767
Total Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	8868124	<5.0	5.0	8888815
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	8868473	<0.50	0.50	8888767
Total Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	8868124	<0.50	0.50	8888815
Dissolved Copper (Cu)	ug/L	1.0	<0.90	1.3	8868473	<0.90	0.90	8888767
Total Copper (Cu)	ug/L	<0.90	<0.90	<0.90	8868124	1.6	0.90	8888815
Dissolved Iron (Fe)	ug/L	<100	<100	<100	8868473	<100	100	8888767
Total Iron (Fe)	ug/L	<100	<100	<100	8868124	<100	100	8888815
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	8868473	<0.50	0.50	8888767
Total Lead (Pb)	ug/L	<0.50	<0.50	<0.50	8868124	<0.50	0.50	8888815
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	<5.0	8868473	<5.0	5.0	8888767

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV800	WSV801	WSV802		WSV803		
Sampling Date		2023/08/15 13:30	2023/08/15	2023/08/15 15:30		2023/08/15 15:50		
COC Number		945899-01-01	945899-01-01	945899-01-01		945899-01-01		
	UNITS	LL-02 NB	DUP	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	<5.0	<5.0	8868124	<5.0	5.0	8888815
Dissolved Magnesium (Mg)	ug/L	3600	3500	3400	8868473	3300	50	8888767
Total Magnesium (Mg)	ug/L	3600	3300	3200	8868124	3400	50	8888815
Dissolved Manganese (Mn)	ug/L	<2.0	<2.0	<2.0	8868473	10	2.0	8888767
Total Manganese (Mn)	ug/L	22	8.1	7.1	8868124	<2.0	2.0	8888815
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	<0.50	8868473	<0.50	0.50	8888767
Total Molybdenum (Mo)	ug/L	<0.50	<0.50	<0.50	8868124	<0.50	0.50	8888815
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	8868473	<1.0	1.0	8888767
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	8868124	<1.0	1.0	8888815
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	8868473	<100	100	8888767
Dissolved Potassium (K)	ug/L	910	940	910	8868473	820	200	8888767
Total Potassium (K)	ug/L	890	840	840	8868124	890	200	8888815
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	8868473	<2.0	2.0	8888767
Total Selenium (Se)	ug/L	<2.0	<2.0	<2.0	8868124	<2.0	2.0	8888815
Dissolved Silicon (Si)	ug/L	1900	1500	1400	8868473	1600	50	8888767
Total Silicon (Si)	ug/L	1900	1300	1300	8868124	1700	50	8888815
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	8868473	<0.090	0.090	8888767
Total Silver (Ag)	ug/L	<0.090	<0.090	<0.090	8868124	<0.090	0.090	8888815
Dissolved Sodium (Na)	ug/L	520	540	540	8868473	490	100	8888767
Total Sodium (Na)	ug/L	590	510	550	8868124	540	100	8888815
Dissolved Strontium (Sr)	ug/L	13	13	13	8868473	12	1.0	8888767
Total Strontium (Sr)	ug/L	13	13	13	8868124	12	1.0	8888815
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	8868473	<1.0	1.0	8888767
Total Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	8868124	<1.0	1.0	8888815
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	8868473	<0.050	0.050	8888767
Total Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	8868124	<0.050	0.050	8888815
Dissolved Thorium (Th)	ug/L	<2.0	<2.0	<2.0	8868473	<2.0	2.0	8888767
Total Thorium (Th)	ug/L	<2.0	<2.0	<2.0	8868124	<2.0	2.0	8888815
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	8868473	<1.0	1.0	8888767
Total Tin (Sn)	ug/L	<1.0	<1.0	<1.0	8868124	<1.0	1.0	8888815
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	8868473	<5.0	5.0	8888767
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	8868124	<5.0	5.0	8888815

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV800	WSV801	WSV802		WSV803		
Sampling Date		2023/08/15 13:30	2023/08/15	2023/08/15 15:30		2023/08/15 15:50		
COC Number		945899-01-01	945899-01-01	945899-01-01		945899-01-01		
	UNITS	**LL-02 NB**	**DUP**	**LL-03 NS**	**QC Batch**	**LL-03 NB**	**RDL**	**QC Batch**
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	<1.0	8868473	<1.0	1.0	8888767
Total Tungsten (W)	ug/L	<1.0	<1.0	<1.0	8868124	<1.0	1.0	8888815
Dissolved Uranium (U)	ug/L	<0.10	0.12	0.11	8868473	<0.10	0.10	8888767
Total Uranium (U)	ug/L	0.10	0.12	0.11	8868124	<0.10	0.10	8888815
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	8868473	<0.50	0.50	8888767
Total Vanadium (V)	ug/L	<0.50	<0.50	<0.50	8868124	<0.50	0.50	8888815
Dissolved Zinc (Zn)	ug/L	6.0	<5.0	<5.0	8868473	<5.0	5.0	8888767
Total Zinc (Zn)	ug/L	6.9	<5.0	<5.0	8868124	<5.0	5.0	8888815
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	8868473	<1.0	1.0	8888767
Total Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	8868124	<1.0	1.0	8888815

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV804			WSV804			WSV805		
Sampling Date		2023/08/15 17:30			2023/08/15 17:30			2023/08/16 13:00		
COC Number		945899-01-01			945899-01-01			945899-01-01		
	UNITS	WC-09	RDL	QC Batch	WC-09 Lab-Dup	RDL	QC Batch	RL-02 NS	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L	<0.00010	0.00010	8868148				<0.00010	0.00010	8869174
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	8868929	<0.10	0.10	8868929	<0.10	0.10	8868929
Dissolved Aluminum (Al)	ug/L	35	4.9	8868473				<4.9	4.9	8868473
Total Aluminum (Al)	ug/L	55	4.9	8868124				29	4.9	8868124
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8868473				<0.50	0.50	8868473
Total Antimony (Sb)	ug/L	<0.50	0.50	8868124				<0.50	0.50	8868124
Dissolved Arsenic (As)	ug/L	<1.0	1.0	8868473				<1.0	1.0	8868473
Total Arsenic (As)	ug/L	<1.0	1.0	8868124				<1.0	1.0	8868124
Dissolved Barium (Ba)	ug/L	7.1	2.0	8868473				12	2.0	8868473
Total Barium (Ba)	ug/L	7.4	2.0	8868124				13	2.0	8868124
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	8868473				<0.40	0.40	8868473
Total Beryllium (Be)	ug/L	<0.40	0.40	8868124				<0.40	0.40	8868124
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8868473				<1.0	1.0	8868473
Total Bismuth (Bi)	ug/L	<1.0	1.0	8868124				<1.0	1.0	8868124
Dissolved Boron (B)	ug/L	<10	10	8868473				<10	10	8868473
Total Boron (B)	ug/L	<10	10	8868124				<10	10	8868124
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	8868473				<0.090	0.090	8868473
Total Cadmium (Cd)	ug/L	<0.090	0.090	8868124				<0.090	0.090	8868124
Dissolved Calcium (Ca)	ug/L	3700	200	8868473				10000	200	8868473
Total Calcium (Ca)	ug/L	3700	200	8868124				9700	200	8868124
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	8868473				<5.0	5.0	8868473
Total Chromium (Cr)	ug/L	<5.0	5.0	8868124				<5.0	5.0	8868124
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8868473				<0.50	0.50	8868473
Total Cobalt (Co)	ug/L	<0.50	0.50	8868124				<0.50	0.50	8868124
Dissolved Copper (Cu)	ug/L	<0.90	0.90	8868473				1.0	0.90	8868473
Total Copper (Cu)	ug/L	<0.90	0.90	8868124				<0.90	0.90	8868124
Dissolved Iron (Fe)	ug/L	<100	100	8868473				<100	100	8868473
Total Iron (Fe)	ug/L	160	100	8868124				130	100	8868124
Dissolved Lead (Pb)	ug/L	<0.50	0.50	8868473				<0.50	0.50	8868473
Total Lead (Pb)	ug/L	2.4	0.50	8868124				<0.50	0.50	8868124
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8868473				<5.0	5.0	8868473

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV804			WSV804			WSV805		
Sampling Date		2023/08/15 17:30			2023/08/15 17:30			2023/08/16 13:00		
COC Number		945899-01-01			945899-01-01			945899-01-01		
	UNITS	WC-09	RDL	QC Batch	WC-09 Lab-Dup	RDL	QC Batch	RL-02 NS	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	5.0	8868124				<5.0	5.0	8868124
Dissolved Magnesium (Mg)	ug/L	1200	50	8868473				4900	50	8868473
Total Magnesium (Mg)	ug/L	1200	50	8868124				4800	50	8868124
Dissolved Manganese (Mn)	ug/L	13	2.0	8868473				5.7	2.0	8868473
Total Manganese (Mn)	ug/L	24	2.0	8868124				39	2.0	8868124
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	8868473				0.65	0.50	8868473
Total Molybdenum (Mo)	ug/L	<0.50	0.50	8868124				0.61	0.50	8868124
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	8868473				<1.0	1.0	8868473
Total Nickel (Ni)	ug/L	<1.0	1.0	8868124				<1.0	1.0	8868124
Dissolved Phosphorus (P)	ug/L	<100	100	8868473				<100	100	8868473
Dissolved Potassium (K)	ug/L	790	200	8868473				800	200	8868473
Total Potassium (K)	ug/L	750	200	8868124				780	200	8868124
Dissolved Selenium (Se)	ug/L	<2.0	2.0	8868473				<2.0	2.0	8868473
Total Selenium (Se)	ug/L	<2.0	2.0	8868124				<2.0	2.0	8868124
Dissolved Silicon (Si)	ug/L	940	50	8868473				1500	50	8868473
Total Silicon (Si)	ug/L	910	50	8868124				1400	50	8868124
Dissolved Silver (Ag)	ug/L	<0.090	0.090	8868473				<0.090	0.090	8868473
Total Silver (Ag)	ug/L	<0.090	0.090	8868124				<0.090	0.090	8868124
Dissolved Sodium (Na)	ug/L	770	100	8868473				430	100	8868473
Total Sodium (Na)	ug/L	740	100	8868124				400	100	8868124
Dissolved Strontium (Sr)	ug/L	12	1.0	8868473				11	1.0	8868473
Total Strontium (Sr)	ug/L	12	1.0	8868124				11	1.0	8868124
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	8868473				<1.0	1.0	8868473
Total Tellurium (Te)	ug/L	<1.0	1.0	8868124				<1.0	1.0	8868124
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8868473				<0.050	0.050	8868473
Total Thallium (Tl)	ug/L	<0.050	0.050	8868124				<0.050	0.050	8868124
Dissolved Thorium (Th)	ug/L	<2.0	2.0	8868473				<2.0	2.0	8868473
Total Thorium (Th)	ug/L	<2.0	2.0	8868124				<2.0	2.0	8868124
Dissolved Tin (Sn)	ug/L	<1.0	1.0	8868473				<1.0	1.0	8868473
Total Tin (Sn)	ug/L	<1.0	1.0	8868124				<1.0	1.0	8868124
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8868473				<5.0	5.0	8868473
Total Titanium (Ti)	ug/L	<5.0	5.0	8868124				<5.0	5.0	8868124

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV804			WSV804			WSV805		
Sampling Date		2023/08/15 17:30			2023/08/15 17:30			2023/08/16 13:00		
COC Number		945899-01-01			945899-01-01			945899-01-01		
	UNITS	WC-09	RDL	QC Batch	WC-09 Lab-Dup	RDL	QC Batch	RL-02 NS	RDL	QC Batch
Dissolved Tungsten (W)	ug/L	<1.0	1.0	8868473				<1.0	1.0	8868473
Total Tungsten (W)	ug/L	<1.0	1.0	8868124				<1.0	1.0	8868124
Dissolved Uranium (U)	ug/L	<0.10	0.10	8868473				<0.10	0.10	8868473
Total Uranium (U)	ug/L	<0.10	0.10	8868124				0.10	0.10	8868124
Dissolved Vanadium (V)	ug/L	<0.50	0.50	8868473				<0.50	0.50	8868473
Total Vanadium (V)	ug/L	<0.50	0.50	8868124				<0.50	0.50	8868124
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8868473				<5.0	5.0	8868473
Total Zinc (Zn)	ug/L	5.9	5.0	8868124				<5.0	5.0	8868124
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	8868473				<1.0	1.0	8868473
Total Zirconium (Zr)	ug/L	<1.0	1.0	8868124				<1.0	1.0	8868124

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV806	WSV807		
Sampling Date		2023/08/16 13:15	2023/08/16 19:00		
COC Number		945899-01-01	945899-01-01		
	UNITS	RL-02 NB	WC-10	RDL	QC Batch
Metals					
Mercury (Hg)	mg/L	<0.00010	<0.00010	0.00010	8868148
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	0.10	8868929
Dissolved Aluminum (Al)	ug/L	<4.9	39	4.9	8868473
Total Aluminum (Al)	ug/L	<4.9	43	4.9	8868124
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	8868473
Total Antimony (Sb)	ug/L	<0.50	<0.50	0.50	8868124
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	8868473
Total Arsenic (As)	ug/L	<1.0	<1.0	1.0	8868124
Dissolved Barium (Ba)	ug/L	17	6.2	2.0	8868473
Total Barium (Ba)	ug/L	16	6.0	2.0	8868124
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	8868473
Total Beryllium (Be)	ug/L	<0.40	<0.40	0.40	8868124
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	8868473
Total Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	8868124
Dissolved Boron (B)	ug/L	<10	<10	10	8868473
Total Boron (B)	ug/L	<10	<10	10	8868124
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	8868473
Total Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	8868124
Dissolved Calcium (Ca)	ug/L	9800	2900	200	8868473
Total Calcium (Ca)	ug/L	9200	3000	200	8868124
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	8868473
Total Chromium (Cr)	ug/L	<5.0	<5.0	5.0	8868124
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	8868473
Total Cobalt (Co)	ug/L	<0.50	<0.50	0.50	8868124
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	8868473
Total Copper (Cu)	ug/L	1.2	<0.90	0.90	8868124
Dissolved Iron (Fe)	ug/L	<100	<100	100	8868473
Total Iron (Fe)	ug/L	<100	<100	100	8868124
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	8868473
Total Lead (Pb)	ug/L	<0.50	<0.50	0.50	8868124
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	5.0	8868473

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV806	WSV807		
Sampling Date		2023/08/16 13:15	2023/08/16 19:00		
COC Number		945899-01-01	945899-01-01		
	UNITS	RL-02 NB	WC-10	RDL	QC Batch
Total Lithium (Li)	ug/L	<5.0	<5.0	5.0	8868124
Dissolved Magnesium (Mg)	ug/L	4700	990	50	8868473
Total Magnesium (Mg)	ug/L	4500	930	50	8868124
Dissolved Manganese (Mn)	ug/L	200	6.5	2.0	8868473
Total Manganese (Mn)	ug/L	150	6.3	2.0	8868124
Dissolved Molybdenum (Mo)	ug/L	0.63	<0.50	0.50	8868473
Total Molybdenum (Mo)	ug/L	0.54	<0.50	0.50	8868124
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	8868473
Total Nickel (Ni)	ug/L	<1.0	<1.0	1.0	8868124
Dissolved Phosphorus (P)	ug/L	<100	<100	100	8868473
Dissolved Potassium (K)	ug/L	800	690	200	8868473
Total Potassium (K)	ug/L	750	620	200	8868124
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	8868473
Total Selenium (Se)	ug/L	<2.0	<2.0	2.0	8868124
Dissolved Silicon (Si)	ug/L	1600	860	50	8868473
Total Silicon (Si)	ug/L	1500	810	50	8868124
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	8868473
Total Silver (Ag)	ug/L	<0.090	<0.090	0.090	8868124
Dissolved Sodium (Na)	ug/L	480	560	100	8868473
Total Sodium (Na)	ug/L	410	530	100	8868124
Dissolved Strontium (Sr)	ug/L	11	11	1.0	8868473
Total Strontium (Sr)	ug/L	11	11	1.0	8868124
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	8868473
Total Tellurium (Te)	ug/L	<1.0	<1.0	1.0	8868124
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	8868473
Total Thallium (Tl)	ug/L	<0.050	<0.050	0.050	8868124
Dissolved Thorium (Th)	ug/L	<2.0	<2.0	2.0	8868473
Total Thorium (Th)	ug/L	<2.0	<2.0	2.0	8868124
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	8868473
Total Tin (Sn)	ug/L	<1.0	<1.0	1.0	8868124
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	8868473
Total Titanium (Ti)	ug/L	<5.0	<5.0	5.0	8868124

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV806	WSV807		
Sampling Date		2023/08/16 13:15	2023/08/16 19:00		
COC Number		945899-01-01	945899-01-01		
	UNITS	RL-02 NB	WC-10	RDL	QC Batch
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	8868473
Total Tungsten (W)	ug/L	<1.0	<1.0	1.0	8868124
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	8868473
Total Uranium (U)	ug/L	<0.10	<0.10	0.10	8868124
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	8868473
Total Vanadium (V)	ug/L	<0.50	<0.50	0.50	8868124
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	8868473
Total Zinc (Zn)	ug/L	<5.0	<5.0	5.0	8868124
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	8868473
Total Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	8868124

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QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV800
Sample ID: LL-02 NB
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869940	N/A	2023/08/24	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8865316	2023/08/22	2023/08/23	Shaneil Hall
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8871268	2023/08/23	2023/08/24	Sachi Patel
Total Suspended Solids	BAL	8867747	2023/08/22	2023/08/22	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV800 Dup
Sample ID: LL-02 NB
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/23	Lusine Khachatryan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil

Bureau Veritas ID: WSV801
Sample ID: DUP
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV801 **Collected:** 2023/08/15
Sample ID: DUP **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	8870280	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869940	N/A	2023/08/24	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8865316	2023/08/22	2023/08/23	Shaneil Hall
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8871268	2023/08/23	2023/08/24	Sachi Patel
Total Suspended Solids	BAL	8867747	2023/08/22	2023/08/22	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV801 Dup **Collected:** 2023/08/15
Sample ID: DUP **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal

Bureau Veritas ID: WSV802 **Collected:** 2023/08/15
Sample ID: LL-03 NS **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8870280	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV802
Sample ID: LL-03 NS
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869940	N/A	2023/08/24	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8865316	2023/08/22	2023/08/23	Shaneil Hall
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8871268	2023/08/23	2023/08/24	Sachi Patel
Total Suspended Solids	BAL	8866222	2023/08/22	2023/08/22	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV803
Sample ID: LL-03 NB
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8870280	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8888767	N/A	2023/08/31	Arefa Dabhad
Total Metals Analysis by ICPMS	ICP/MS	8888815	2023/08/31	2023/08/31	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869940	N/A	2023/08/24	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan

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TEST SUMMARY

Bureau Veritas ID: WSV803 **Collected:** 2023/08/15
Sample ID: LL-03 NB **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	8865316	2023/08/22	2023/08/23	Shaneil Hall
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8871268	2023/08/23	2023/08/24	Sachi Patel
Total Suspended Solids	BAL	8867747	2023/08/22	2023/08/22	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV804 **Collected:** 2023/08/15
Sample ID: WC-09 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8870280	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869940	N/A	2023/08/24	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8865316	2023/08/22	2023/08/23	Shaneil Hall
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8871268	2023/08/23	2023/08/24	Sachi Patel
Total Suspended Solids	BAL	8867747	2023/08/22	2023/08/22	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV804 Dup **Collected:** 2023/08/15
Sample ID: WC-09 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV805
Sample ID: RL-02 NS
Matrix: Water

Collected: 2023/08/16
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8870280	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8869174	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869940	N/A	2023/08/24	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8868411	2023/08/22	2023/08/23	Shaneil Hall
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8871268	2023/08/23	2023/08/24	Sachi Patel
Total Suspended Solids	BAL	8866222	2023/08/22	2023/08/22	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV806
Sample ID: RL-02 NB
Matrix: Water

Collected: 2023/08/16
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8870280	N/A	2023/08/23	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV806
Sample ID: RL-02 NB
Matrix: Water

Collected: 2023/08/16
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869940	N/A	2023/08/24	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8865316	2023/08/22	2023/08/23	Shaneil Hall
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8871268	2023/08/23	2023/08/24	Sachi Patel
Total Suspended Solids	BAL	8867747	2023/08/22	2023/08/22	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

Bureau Veritas ID: WSV807
Sample ID: WC-10
Matrix: Water

Collected: 2023/08/16
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	8882702	N/A	2023/08/29	Brent Boudreau
Alkalinity	AT	8867967	N/A	2023/08/22	Nachiketa Gohil
Anions	IC	8870287	N/A	2023/08/24	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	8867853	N/A	2023/08/22	Massarat Jan
Conductivity	AT	8867969	N/A	2023/08/22	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	8868900	N/A	2023/08/22	Gyulshen Idriz
Fluoride	ISE	8867970	2023/08/22	2023/08/22	Nachiketa Gohil
Hardness (calculated as CaCO3)		8866245	N/A	2023/08/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	8868929	2023/08/22	2023/08/22	Japneet Gill
Mercury in Water by CVAA	CV/AA	8868148	2023/08/22	2023/08/22	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8868473	N/A	2023/08/24	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8868124	2023/08/22	2023/08/24	Thuy Linh Nguyen
Total Extractable Lanthanides-waters	ICP/MSMS	8898334	2023/08/23	2023/08/24	Zineb El Ouali
Dissolved Lanthanides- waters	ICP/MSMS	8898336	N/A	2023/08/24	Zineb El Ouali
Total Ammonia (as NH3)	CALC	8866393	N/A	2023/08/24	Automated Statchk
Total Ammonia-N	SKAL/NH4	8869940	N/A	2023/08/24	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	8867966	N/A	2023/08/22	Chandra Nandlal
pH	AT	8867971	2023/08/22	2023/08/22	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Orthophosphate	SKAL	8867858	N/A	2023/08/22	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	8867857	N/A	2023/08/22	Massarat Jan
Total Dissolved Solids	BAL	8865316	2023/08/22	2023/08/23	Shaneil Hall
Field Measured pH	PH	ONSITE	N/A	2023/08/31	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	8871268	2023/08/23	2023/08/24	Sachi Patel
Total Suspended Solids	BAL	8866222	2023/08/22	2023/08/22	Razieh Tabesh
Un-ionized Ammonia	CALC/NH3	8889201	2023/08/31	2023/08/31	Automated Statchk

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.7°C
Package 2	3.3°C
Package 3	8.0°C
Package 4	9.3°C
Package 5	6.0°C
Package 6	5.7°C
Package 7	7.7°C
Package 8	8.0°C
Package 9	6.7°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

Sample WSV806 [RL-02 NB] : Acidity sample contained headspace.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8865316	Total Dissolved Solids	2023/08/23			100	80 - 120	<10	mg/L	4.9	20		
8866222	Total Suspended Solids	2023/08/22			97	80 - 120	<10	mg/L	NC	20		
8867747	Total Suspended Solids	2023/08/22			101	80 - 120	<10	mg/L	NC	20		
8867853	Dissolved Chloride (Cl-)	2023/08/22	98	80 - 120	95	80 - 120	<1.0	mg/L	7.5	20		
8867857	Dissolved Sulphate (SO4)	2023/08/22	101	75 - 125	101	80 - 120	<1.0	mg/L	1.5	20		
8867858	Orthophosphate (P)	2023/08/22	97	75 - 125	95	80 - 120	<0.010	mg/L	NC	20		
8867966	Nitrate (N)	2023/08/22	94	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		
8867966	Nitrite (N)	2023/08/22	105	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
8867967	Alkalinity (Total as CaCO3)	2023/08/22			95	85 - 115	<1.0	mg/L	2.7	20		
8867969	Conductivity	2023/08/22			100	85 - 115	<1.0	umho/cm	0	10		
8867970	Fluoride (F-)	2023/08/22	99	80 - 120	106	80 - 120	<0.10	mg/L	NC	20		
8867971	pH	2023/08/22			102	98 - 103			0.89	N/A		
8868124	Total Aluminum (Al)	2023/08/24	140 (1)	80 - 120	104	80 - 120	<4.9	ug/L	4.0	20		
8868124	Total Antimony (Sb)	2023/08/24	113	80 - 120	112	80 - 120	<0.50	ug/L	NC	20		
8868124	Total Arsenic (As)	2023/08/24	102	80 - 120	102	80 - 120	<1.0	ug/L	1.7	20		
8868124	Total Barium (Ba)	2023/08/24	99	80 - 120	99	80 - 120	<2.0	ug/L	2.5	20		
8868124	Total Beryllium (Be)	2023/08/24	102	80 - 120	103	80 - 120	<0.40	ug/L	NC	20		
8868124	Total Bismuth (Bi)	2023/08/24	95	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Boron (B)	2023/08/24	103	80 - 120	102	80 - 120	<10	ug/L	0.51	20		
8868124	Total Cadmium (Cd)	2023/08/24	102	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
8868124	Total Calcium (Ca)	2023/08/24	NC	80 - 120	102	80 - 120	<200	ug/L	3.2	20		
8868124	Total Chromium (Cr)	2023/08/24	101	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
8868124	Total Cobalt (Co)	2023/08/24	100	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
8868124	Total Copper (Cu)	2023/08/24	101	80 - 120	101	80 - 120	<0.90	ug/L	1.3	20		
8868124	Total Iron (Fe)	2023/08/24	101	80 - 120	100	80 - 120	<100	ug/L	0.27	20		
8868124	Total Lead (Pb)	2023/08/24	99	80 - 120	99	80 - 120	<0.50	ug/L	1.7	20		
8868124	Total Lithium (Li)	2023/08/24	103	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
8868124	Total Magnesium (Mg)	2023/08/24	100	80 - 120	100	80 - 120	<50	ug/L	1.2	20		
8868124	Total Manganese (Mn)	2023/08/24	100	80 - 120	101	80 - 120	<2.0	ug/L	0.80	20		
8868124	Total Molybdenum (Mo)	2023/08/24	105	80 - 120	104	80 - 120	<0.50	ug/L	14	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8868124	Total Nickel (Ni)	2023/08/24	100	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Potassium (K)	2023/08/24	100	80 - 120	99	80 - 120	<200	ug/L	0.14	20		
8868124	Total Selenium (Se)	2023/08/24	106	80 - 120	108	80 - 120	<2.0	ug/L	NC	20		
8868124	Total Silicon (Si)	2023/08/24	104	80 - 120	103	80 - 120	<50	ug/L	3.6	20		
8868124	Total Silver (Ag)	2023/08/24	99	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
8868124	Total Sodium (Na)	2023/08/24	101	80 - 120	100	80 - 120	<100	ug/L	1.4	20		
8868124	Total Strontium (Sr)	2023/08/24	102	80 - 120	100	80 - 120	<1.0	ug/L	0.77	20		
8868124	Total Tellurium (Te)	2023/08/24	104	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Thallium (Tl)	2023/08/24	101	80 - 120	101	80 - 120	<0.050	ug/L	NC	20		
8868124	Total Thorium (Th)	2023/08/24	101	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
8868124	Total Tin (Sn)	2023/08/24	103	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Titanium (Ti)	2023/08/24	102	80 - 120	101	80 - 120	<5.0	ug/L	2.2	20		
8868124	Total Tungsten (W)	2023/08/24	103	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
8868124	Total Uranium (U)	2023/08/24	101	80 - 120	101	80 - 120	<0.10	ug/L	3.1	20		
8868124	Total Vanadium (V)	2023/08/24	102	80 - 120	101	80 - 120	<0.50	ug/L	3.1	20		
8868124	Total Zinc (Zn)	2023/08/24	105	80 - 120	106	80 - 120	<5.0	ug/L	1.5	20		
8868124	Total Zirconium (Zr)	2023/08/24	107	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
8868148	Mercury (Hg)	2023/08/22	99	75 - 125	100	80 - 120	<0.00010	mg/L	NC	20		
8868411	Total Dissolved Solids	2023/08/23			97	80 - 120	<10	mg/L	0.67	20		
8868473	Dissolved Aluminum (Al)	2023/08/24	109	80 - 120	101	80 - 120	<4.9	ug/L				
8868473	Dissolved Antimony (Sb)	2023/08/24	113	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
8868473	Dissolved Arsenic (As)	2023/08/24	107	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8868473	Dissolved Barium (Ba)	2023/08/24	NC	80 - 120	100	80 - 120	<2.0	ug/L	1.1	20		
8868473	Dissolved Beryllium (Be)	2023/08/24	105	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
8868473	Dissolved Bismuth (Bi)	2023/08/24	105	80 - 120	101	80 - 120	<1.0	ug/L				
8868473	Dissolved Boron (B)	2023/08/24	NC	80 - 120	100	80 - 120	<10	ug/L	1.2	20		
8868473	Dissolved Cadmium (Cd)	2023/08/24	105	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
8868473	Dissolved Calcium (Ca)	2023/08/24	NC	80 - 120	103	80 - 120	<200	ug/L				
8868473	Dissolved Chromium (Cr)	2023/08/24	105	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
8868473	Dissolved Cobalt (Co)	2023/08/24	104	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
8868473	Dissolved Copper (Cu)	2023/08/24	107	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8868473	Dissolved Iron (Fe)	2023/08/24	106	80 - 120	100	80 - 120	<100	ug/L				
8868473	Dissolved Lead (Pb)	2023/08/24	102	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
8868473	Dissolved Lithium (Li)	2023/08/24	109	80 - 120	101	80 - 120	<5.0	ug/L				
8868473	Dissolved Magnesium (Mg)	2023/08/24	NC	80 - 120	98	80 - 120	<50	ug/L				
8868473	Dissolved Manganese (Mn)	2023/08/24	105	80 - 120	99	80 - 120	<2.0	ug/L				
8868473	Dissolved Molybdenum (Mo)	2023/08/24	112	80 - 120	102	80 - 120	<0.50	ug/L	0.097	20		
8868473	Dissolved Nickel (Ni)	2023/08/24	104	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8868473	Dissolved Phosphorus (P)	2023/08/24	114	80 - 120	99	80 - 120	<100	ug/L				
8868473	Dissolved Potassium (K)	2023/08/24	107	80 - 120	100	80 - 120	<200	ug/L				
8868473	Dissolved Selenium (Se)	2023/08/24	109	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
8868473	Dissolved Silicon (Si)	2023/08/24	112	80 - 120	104	80 - 120	<50	ug/L				
8868473	Dissolved Silver (Ag)	2023/08/24	84	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
8868473	Dissolved Sodium (Na)	2023/08/24	NC	80 - 120	99	80 - 120	<100	ug/L	0.36	20		
8868473	Dissolved Strontium (Sr)	2023/08/24	NC	80 - 120	98	80 - 120	<1.0	ug/L				
8868473	Dissolved Tellurium (Te)	2023/08/24	105	80 - 120	99	80 - 120	<1.0	ug/L				
8868473	Dissolved Thallium (Tl)	2023/08/24	101	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
8868473	Dissolved Thorium (Th)	2023/08/24	93	80 - 120	99	80 - 120	<2.0	ug/L				
8868473	Dissolved Tin (Sn)	2023/08/24	110	80 - 120	101	80 - 120	<1.0	ug/L				
8868473	Dissolved Titanium (Ti)	2023/08/24	110	80 - 120	103	80 - 120	<5.0	ug/L				
8868473	Dissolved Tungsten (W)	2023/08/24	108	80 - 120	101	80 - 120	<1.0	ug/L				
8868473	Dissolved Uranium (U)	2023/08/24	105	80 - 120	98	80 - 120	<0.10	ug/L	NC	20		
8868473	Dissolved Vanadium (V)	2023/08/24	108	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8868473	Dissolved Zinc (Zn)	2023/08/24	105	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
8868473	Dissolved Zirconium (Zr)	2023/08/24	111	80 - 120	102	80 - 120	<1.0	ug/L				
8868900	Dissolved Organic Carbon	2023/08/22	95	80 - 120	99	80 - 120	<0.40	mg/L	1.2	20		
8868929	Dissolved Mercury (Hg)	2023/08/22	98	75 - 125	101	80 - 120	<0.10	ug/L	NC	20		
8869174	Mercury (Hg)	2023/08/22	96	75 - 125	99	80 - 120	<0.00010	mg/L	NC	20		
8869940	Total Ammonia-N	2023/08/24	102	75 - 125	103	80 - 120	<0.050	mg/L	1.4	20		
8870280	Dissolved Bromide (Br-)	2023/08/23	100	80 - 120	100	80 - 120	<1.0	mg/L	NC	20		
8870287	Dissolved Bromide (Br-)	2023/08/23	100	80 - 120	100	80 - 120	<1.0	mg/L	NC	20		
8871268	Total Phosphorus	2023/08/24	99	80 - 120	99	80 - 120	<0.020	mg/L	NC	20	101	80 - 120

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8882702	Acidity	2023/08/29	93	80 - 120	104	80 - 120	<5.0	mg/L	NC	25		
8888767	Dissolved Aluminum (Al)	2023/08/31	108	80 - 120	100	80 - 120	<4.9	ug/L				
8888767	Dissolved Antimony (Sb)	2023/08/31	114	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
8888767	Dissolved Arsenic (As)	2023/08/31	109	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
8888767	Dissolved Barium (Ba)	2023/08/31	110	80 - 120	98	80 - 120	<2.0	ug/L	2.8	20		
8888767	Dissolved Beryllium (Be)	2023/08/31	107	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
8888767	Dissolved Bismuth (Bi)	2023/08/31	106	80 - 120	99	80 - 120	<1.0	ug/L				
8888767	Dissolved Boron (B)	2023/08/31	108	80 - 120	105	80 - 120	<10	ug/L	2.4	20		
8888767	Dissolved Cadmium (Cd)	2023/08/31	108	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
8888767	Dissolved Calcium (Ca)	2023/08/31	NC	80 - 120	99	80 - 120	<200	ug/L				
8888767	Dissolved Chromium (Cr)	2023/08/31	104	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
8888767	Dissolved Cobalt (Co)	2023/08/31	104	80 - 120	98	80 - 120	<0.50	ug/L	1.8	20		
8888767	Dissolved Copper (Cu)	2023/08/31	108	80 - 120	97	80 - 120	<0.90	ug/L	2.2	20		
8888767	Dissolved Iron (Fe)	2023/08/31	110	80 - 120	100	80 - 120	<100	ug/L				
8888767	Dissolved Lead (Pb)	2023/08/31	106	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8888767	Dissolved Lithium (Li)	2023/08/31	112	80 - 120	111	80 - 120	<5.0	ug/L				
8888767	Dissolved Magnesium (Mg)	2023/08/31	NC	80 - 120	103	80 - 120	<50	ug/L				
8888767	Dissolved Manganese (Mn)	2023/08/31	108	80 - 120	98	80 - 120	<2.0	ug/L				
8888767	Dissolved Molybdenum (Mo)	2023/08/31	108	80 - 120	98	80 - 120	<0.50	ug/L	5.6	20		
8888767	Dissolved Nickel (Ni)	2023/08/31	102	80 - 120	99	80 - 120	<1.0	ug/L	5.0	20		
8888767	Dissolved Phosphorus (P)	2023/08/31	118	80 - 120	104	80 - 120	<100	ug/L				
8888767	Dissolved Potassium (K)	2023/08/31	113	80 - 120	103	80 - 120	<200	ug/L				
8888767	Dissolved Selenium (Se)	2023/08/31	105	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
8888767	Dissolved Silicon (Si)	2023/08/31	109	80 - 120	101	80 - 120	<50	ug/L				
8888767	Dissolved Silver (Ag)	2023/08/31	104	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
8888767	Dissolved Sodium (Na)	2023/08/31	NC	80 - 120	98	80 - 120	<100	ug/L	0.85	20		
8888767	Dissolved Strontium (Sr)	2023/08/31	NC	80 - 120	98	80 - 120	<1.0	ug/L				
8888767	Dissolved Tellurium (Te)	2023/08/31	110	80 - 120	101	80 - 120	<1.0	ug/L				
8888767	Dissolved Thallium (Tl)	2023/08/31	112	80 - 120	98	80 - 120	<0.050	ug/L	NC	20		
8888767	Dissolved Thorium (Th)	2023/08/31	93	80 - 120	100	80 - 120	<2.0	ug/L				
8888767	Dissolved Tin (Sn)	2023/08/31	112	80 - 120	102	80 - 120	<1.0	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8888767	Dissolved Titanium (Ti)	2023/08/31	111	80 - 120	101	80 - 120	<5.0	ug/L				
8888767	Dissolved Tungsten (W)	2023/08/31	112	80 - 120	100	80 - 120	<1.0	ug/L				
8888767	Dissolved Uranium (U)	2023/08/31	111	80 - 120	99	80 - 120	<0.10	ug/L	0.81	20		
8888767	Dissolved Vanadium (V)	2023/08/31	105	80 - 120	96	80 - 120	<0.50	ug/L	6.6	20		
8888767	Dissolved Zinc (Zn)	2023/08/31	107	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
8888767	Dissolved Zirconium (Zr)	2023/08/31	111	80 - 120	103	80 - 120	<1.0	ug/L				
8888815	Total Aluminum (Al)	2023/08/31	160 (2)	80 - 120	102	80 - 120	<4.9	ug/L	3.7	20		
8888815	Total Antimony (Sb)	2023/08/31	114	80 - 120	111	80 - 120	<0.50	ug/L	4.5	20		
8888815	Total Arsenic (As)	2023/08/31	104	80 - 120	101	80 - 120	<1.0	ug/L	0.30	20		
8888815	Total Barium (Ba)	2023/08/31	100	80 - 120	100	80 - 120	<2.0	ug/L	0.96	20		
8888815	Total Beryllium (Be)	2023/08/31	101	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
8888815	Total Bismuth (Bi)	2023/08/31	95	80 - 120	94	80 - 120	<1.0	ug/L	0.17	20		
8888815	Total Boron (B)	2023/08/31	102	80 - 120	98	80 - 120	<10	ug/L	5.5	20		
8888815	Total Cadmium (Cd)	2023/08/31	102	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
8888815	Total Calcium (Ca)	2023/08/31	NC	80 - 120	104	80 - 120	<200	ug/L	2.5	20		
8888815	Total Chromium (Cr)	2023/08/31	100	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
8888815	Total Cobalt (Co)	2023/08/31	99	80 - 120	98	80 - 120	<0.50	ug/L	0.32	20		
8888815	Total Copper (Cu)	2023/08/31	101	80 - 120	101	80 - 120	<0.90	ug/L	0.57	20		
8888815	Total Iron (Fe)	2023/08/31	101	80 - 120	99	80 - 120	<100	ug/L	1.1	20		
8888815	Total Lead (Pb)	2023/08/31	99	80 - 120	98	80 - 120	<0.50	ug/L	0.95	20		
8888815	Total Lithium (Li)	2023/08/31	104	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
8888815	Total Magnesium (Mg)	2023/08/31	103	80 - 120	101	80 - 120	<50	ug/L	2.1	20		
8888815	Total Manganese (Mn)	2023/08/31	100	80 - 120	99	80 - 120	<2.0	ug/L	1.3	20		
8888815	Total Molybdenum (Mo)	2023/08/31	106	80 - 120	105	80 - 120	<0.50	ug/L	2.1	20		
8888815	Total Nickel (Ni)	2023/08/31	98	80 - 120	97	80 - 120	<1.0	ug/L	2.0	20		
8888815	Total Potassium (K)	2023/08/31	104	80 - 120	102	80 - 120	<200	ug/L	1.5	20		
8888815	Total Selenium (Se)	2023/08/31	105	80 - 120	104	80 - 120	<2.0	ug/L	NC	20		
8888815	Total Silicon (Si)	2023/08/31	110	80 - 120	103	80 - 120	<50	ug/L	3.5	20		
8888815	Total Silver (Ag)	2023/08/31	101	80 - 120	100	80 - 120	<0.090	ug/L	0.31	20		
8888815	Total Sodium (Na)	2023/08/31	105	80 - 120	100	80 - 120	<100	ug/L	2.0	20		
8888815	Total Strontium (Sr)	2023/08/31	99	80 - 120	97	80 - 120	<1.0	ug/L	0.90	20		

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8888815	Total Tellurium (Te)	2023/08/31	105	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
8888815	Total Thallium (Tl)	2023/08/31	100	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
8888815	Total Thorium (Th)	2023/08/31	99	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
8888815	Total Tin (Sn)	2023/08/31	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
8888815	Total Titanium (Ti)	2023/08/31	106	80 - 120	101	80 - 120	<5.0	ug/L	3.2	20		
8888815	Total Tungsten (W)	2023/08/31	104	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
8888815	Total Uranium (U)	2023/08/31	NC	80 - 120	97	80 - 120	<0.10	ug/L	1.5	20		
8888815	Total Vanadium (V)	2023/08/31	101	80 - 120	99	80 - 120	<0.50	ug/L	1.7	20		
8888815	Total Zinc (Zn)	2023/08/31	102	80 - 120	102	80 - 120	<5.0	ug/L	5.2	20		
8888815	Total Zirconium (Zr)	2023/08/31	118	80 - 120	107	80 - 120	<1.0	ug/L	0.30	20		
8898334	Total Yttrium (Y)	2023/08/24			106	80 - 120	<2.0	ug/L	NC	30		
8898336	Dissolved Yttrium (Y)	2023/08/24			103	80 - 120	<2.0	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Matrix Spike exceeds acceptance limits, probable matrix interference

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ankita Bhalla, Project Manager

Cristina Carriere, Senior Scientific Specialist

Janah Rhyno, Scientific Specialist

Zineb El Ouali
Membre OCQ#2021-051

Zineb El Ouali, Analyst 1

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
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COOLER OBSERVATIONS:

BV JOB#: C3P2242

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	8 (1)	6 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	3 (1)	4 (2)	3 (3)
INTACT	✓					
ICE PRESENT		✓				
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	9 (1)	7 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	9 (1)	9 (2)	10 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	6 (1)	5 (2)	7 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5 (1)	5 (2)	7 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	7 (1)	8 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	10 (1)	8 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5 (1)	9 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
JAN DECLERCQ	2023/08/18	14:33

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18-Aug-23 14:33
Ankita Bhalla
C3P2242
JH ENV-1625

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:			
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bottle Order #:	
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			945899
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	Project Manager:	
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:		C#945899-01-01	Ankita Bhalla
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ____
☐ PWQO ☐ Reg 406 Table ____
☐ Other ____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / (Cr VI)	pH	Alkalinity	Conductivity	Total Dissolved Solids	Total Suspended Solids	Hardness (calculated as CaCO3)	Dissolved Organic Carbon (DOC)	Fluoride/Chloride/Sulphate/Bromide/Nitrate/Nitrite/Orthophosphate	Total Phosphorus/Ammonia (NH3+NH4)/Un-ionized Ammonia	Total Metals Analysis by ICPMS	# of Bottles	Comments
1		Long-02 27m	2023/08/15	13:30	SW	x1 each	X	X	X	X	X	X	X	X	X	X	11	
2		DUP	2023/08/15		SW	x1 each												
3		Long-03 1m	2023/08/15	15:30	SW	x1 each												
4		Long-03 15m	2023/08/15	15:50	SW	x1 each												
5		WC-09	2023/08/15	17:30	SW	x1 each												
6		Riordan-02 1m	2023/08/16	13:00	SW	x1 each												
7		Riordan-02 14m	2023/08/16	13:15	SW	x1 each												
8		WC-10	2023/08/16	19:00	SW	x1 each	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
Michael Hildebrandt	23/08/18		[illegible]	2023/08/18	14:33		Time Sensitive	Temperature (°C) on Recei A6 6R	Custody Seal	Yes / No
									Present	5
									Intact	

ice

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #: 945899
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #: C#945899-01-02	Project Manager: Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ____
- ☐ PWQO ☐ Reg 406 Table ____
- ☐ Other ____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Dissolved Metals by ICPMS	Mercury in Water by CVAA	Dissolved Mercury in Water by CVAA	Total Extractable Lanthanides (Yttrium)	Dissolved Lanthanides (Yttrium)	# of Bottles	Comments
1		Long-02 27m	2023/08/15	13:30	SW	x1 each	X	X	X	X	X	11	
2		DUP	2023/08/15		SW	x1 each	↓	↓	↓	↓	↓	↓	
3		Long-03 1m	2023/08/15	15:30	SW	x1 each							
4		Long-03 15m	2023/08/15	15:50	SW	x1 each							
5		WC-09	2023/08/15	17:30	SW	x1 each							
6		Riordan-02 1m	2023/08/16	13:00	SW	x1 each							
7		Riordan-02 14m	2023/08/16	13:15	SW	x1 each							
8		WC-10	2023/08/16	19:00	SW	x1 each	↓	↓	↓	↓	↓	↓	
9													
10													

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Michael Hildebrandt	23/08/18		JAGDEEP RAHR	2023/08/18	14:33		Time Sensitive	Temperature (°C) on Recei: AGR	Custody Seal	Yes	No
									Present	✓	
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 947047-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401230
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2166
Received: 2023/08/18, 16:38

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Total Metals Analysis by ICPMS	6	2023/08/23	2023/08/23	CAM SOP-00447	EPA 6020B m
B[a]P Total Potency Equivalent (1, 3)	2	N/A	2023/08/26		CCME
B[a]P Total Potency Equivalent (1, 3)	4	N/A	2023/08/27		CCME
PAH in Water by GC/MS (1)	6	2023/08/25	2023/08/26	AB SOP-00037/AB SOP-00003	EPA 3510C/8270E m
NORM Group Analysis (2)	1	N/A	2023/08/26	BQL SOP-00007	Gamma Spectrometry
NORM Group Analysis (2)	1	N/A	2023/08/27	BQL SOP-00007	Gamma Spectrometry
NORM Group Analysis (2)	1	N/A	2023/08/28	BQL SOP-00007	Gamma Spectrometry
NORM Group Analysis (2)	1	N/A	2023/08/29	BQL SOP-00007	Gamma Spectrometry
NORM Group Analysis (2)	2	N/A	2023/08/30	BQL SOP-00007	Gamma Spectrometry
Polonium-210 by Alpha Spectrometry (2)	6	N/A	2023/09/02	BQL SOP-00006	Alpha Spectrometry

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 947047-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401230
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P2166

Received: 2023/08/18, 16:38

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8

(2) This test was performed by Bureau Veritas Kitimat, 6790 Kitimat Road, Unit 4 , Mississauga, ON, L5N 5L9

(3) B[a]P TPE is calculated using 1/2 of the RDL for non detect results as per Alberta Environment instructions. This protocol may not apply in other jurisdictions.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

CCME PAHS (WATER)

Bureau Veritas ID		WSV393	WSV394	WSV395	WSV396	WSV397		
Sampling Date		2023/08/11 14:30	2023/08/14 14:00	2023/08/15 13:00	2023/08/15 13:30	2023/08/15 17:30		
COC Number		947047-01-01	947047-01-01	947047-01-01	947047-01-01	947047-01-01		
	UNITS	**WC-02**	**WC-03**	**LL-02 NS**	**LL-02 NB**	**WC-09**	**RDL**	**QC Batch**
Polyaromatic Hydrocarbons								
Benzo(a)pyrene Total Potency Equiv.	ug/L	0.012	<0.010	<0.010	<0.010	<0.010	0.010	8883954
Acenaphthene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8879906
Acenaphthylene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8879906
Acridine	ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	8879906
Anthracene	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8879906
Benzo(a)anthracene	ug/L	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	0.0085	8879906
Benzo(b/j)fluoranthene	ug/L	0.016	<0.0085	<0.0085	<0.0085	<0.0085	0.0085	8879906
Benzo(k)fluoranthene	ug/L	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	0.0085	8879906
Benzo(g,h,i)perylene	ug/L	0.17	<0.0085	<0.0085	<0.0085	<0.0085	0.0085	8879906
Benzo(c)phenanthrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8879906
Benzo(a)pyrene	ug/L	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0075	8879906
Benzo(e)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8879906
Chrysene	ug/L	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	0.0085	8879906
Dibenzo(a,h)anthracene	ug/L	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0075	8879906
Fluoranthene	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8879906
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8879906
Indeno(1,2,3-cd)pyrene	ug/L	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	0.0085	8879906
1-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8879906
2-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8879906
Naphthalene	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8879906
Phenanthrene	ug/L	0.078	<0.050	<0.050	<0.050	<0.050	0.050	8879906
Perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8879906
Pyrene	ug/L	0.022	<0.020	<0.020	<0.020	<0.020	0.020	8879906
Quinoline	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8879906
Surrogate Recovery (%)								
D10-Anthracene	%	103	104	99	102	102		8879906
D14-Terphenyl	%	107	99	92	97	93		8879906
D8-Acenaphthylene	%	105	101	95	101	98		8879906
D8-Naphthalene	%	86	81	74	75	70		8879906

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

CCME PAHS (WATER)

Bureau Veritas ID		WSV398			WSV398		
Sampling Date		2023/08/16 19:00			2023/08/16 19:00		
COC Number		947047-01-01			947047-01-01		
	UNITS	WC-10	RDL	QC Batch	WC-10 Lab-Dup	RDL	QC Batch
Polyaromatic Hydrocarbons							
Benzo(a)pyrene Total Potency Equiv.	ug/L	<0.010	0.010	8883954			
Acenaphthene	ug/L	<0.10	0.10	8879906	<0.10	0.10	8879906
Acenaphthylene	ug/L	<0.10	0.10	8879906	<0.10	0.10	8879906
Acridine	ug/L	<0.040	0.040	8879906	<0.040	0.040	8879906
Anthracene	ug/L	<0.010	0.010	8879906	<0.010	0.010	8879906
Benzo(a)anthracene	ug/L	<0.0085	0.0085	8879906	<0.0085	0.0085	8879906
Benzo(b/j)fluoranthene	ug/L	<0.0085	0.0085	8879906	<0.0085	0.0085	8879906
Benzo(k)fluoranthene	ug/L	<0.0085	0.0085	8879906	<0.0085	0.0085	8879906
Benzo(g,h,i)perylene	ug/L	<0.0085	0.0085	8879906	<0.0085	0.0085	8879906
Benzo(c)phenanthrene	ug/L	<0.050	0.050	8879906	<0.050	0.050	8879906
Benzo(a)pyrene	ug/L	<0.0075	0.0075	8879906	<0.0075	0.0075	8879906
Benzo(e)pyrene	ug/L	<0.050	0.050	8879906	<0.050	0.050	8879906
Chrysene	ug/L	<0.0085	0.0085	8879906	<0.0085	0.0085	8879906
Dibenzo(a,h)anthracene	ug/L	<0.0075	0.0075	8879906	<0.0075	0.0075	8879906
Fluoranthene	ug/L	<0.010	0.010	8879906	<0.010	0.010	8879906
Fluorene	ug/L	<0.050	0.050	8879906	<0.050	0.050	8879906
Indeno(1,2,3-cd)pyrene	ug/L	<0.0085	0.0085	8879906	<0.0085	0.0085	8879906
1-Methylnaphthalene	ug/L	<0.10	0.10	8879906	<0.10	0.10	8879906
2-Methylnaphthalene	ug/L	<0.10	0.10	8879906	<0.10	0.10	8879906
Naphthalene	ug/L	<0.10	0.10	8879906	<0.10	0.10	8879906
Phenanthrene	ug/L	<0.050	0.050	8879906	<0.050	0.050	8879906
Perylene	ug/L	<0.050	0.050	8879906	<0.050	0.050	8879906
Pyrene	ug/L	<0.020	0.020	8879906	<0.020	0.020	8879906
Quinoline	ug/L	<0.20	0.20	8879906	<0.20	0.20	8879906
Surrogate Recovery (%)							
D10-Anthracene	%	102		8879906	96		8879906
D14-Terphenyl	%	100		8879906	92		8879906
D8-Acenaphthylene	%	105		8879906	94		8879906
D8-Naphthalene	%	89		8879906	69		8879906

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2166
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WSV393	WSV394	WSV395	WSV396	WSV397	WSV398		
Sampling Date		2023/08/11 14:30	2023/08/14 14:00	2023/08/15 13:00	2023/08/15 13:30	2023/08/15 17:30	2023/08/16 19:00		
COC Number		947047-01-01	947047-01-01	947047-01-01	947047-01-01	947047-01-01	947047-01-01		
	UNITS	WC-02	WC-03	LL-02 NS	LL-02 NB	WC-09	WC-10	RDL	QC Batch
RADIONUCLIDE									
Polonium-210	Bq/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8881943
Lead-210	Bq/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8869670
Radium-226	Bq/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8869670
Thorium-230	Bq/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8869670

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		WSV398		
Sampling Date		2023/08/16 19:00		
COC Number		947047-01-01		
	UNITS	WC-10 Lab-Dup	RDL	QC Batch
RADIONUCLIDE				
Polonium-210	Bq/L	<0.010	0.010	8881943

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P2166
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		WSV393	WSV394	WSV395	WSV396	WSV397	WSV398		
Sampling Date		2023/08/11 14:30	2023/08/14 14:00	2023/08/15 13:00	2023/08/15 13:30	2023/08/15 17:30	2023/08/16 19:00		
COC Number		947047-01-01	947047-01-01	947047-01-01	947047-01-01	947047-01-01	947047-01-01		
	UNITS	**WC-02**	**WC-03**	**LL-02 NS**	**LL-02 NB**	**WC-09**	**WC-10**	**RDL**	**QC Batch**
Metals									
Total Uranium (U)	ug/L	0.11	<0.10	0.14	0.12	<0.10	<0.10	0.10	8871091

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV393 **Collected:** 2023/08/11
Sample ID: WC-02 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	8871091	2023/08/23	2023/08/23	Azita Fazaeli
B[a]P Total Potency Equivalent	GC/MS	8883954	N/A	2023/08/26	Automated Statchk
PAH in Water by GC/MS	GC/MS	8879906	2023/08/25	2023/08/26	Jiby Uthup
NORM Group Analysis	GS	8869670	N/A	2023/08/26	Danish Samad
Polonium-210 by Alpha Spectrometry	AS	8881943	N/A	2023/09/02	Magdalena Onderco

Bureau Veritas ID: WSV394 **Collected:** 2023/08/14
Sample ID: WC-03 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	8871091	2023/08/23	2023/08/23	Azita Fazaeli
B[a]P Total Potency Equivalent	GC/MS	8883954	N/A	2023/08/27	Automated Statchk
PAH in Water by GC/MS	GC/MS	8879906	2023/08/25	2023/08/26	Jiby Uthup
NORM Group Analysis	GS	8869670	N/A	2023/08/27	Danish Samad
Polonium-210 by Alpha Spectrometry	AS	8881943	N/A	2023/09/02	Magdalena Onderco

Bureau Veritas ID: WSV395 **Collected:** 2023/08/15
Sample ID: LL-02 NS **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	8871091	2023/08/23	2023/08/23	Azita Fazaeli
B[a]P Total Potency Equivalent	GC/MS	8883954	N/A	2023/08/27	Automated Statchk
PAH in Water by GC/MS	GC/MS	8879906	2023/08/25	2023/08/26	Jiby Uthup
NORM Group Analysis	GS	8869670	N/A	2023/08/28	Danish Samad
Polonium-210 by Alpha Spectrometry	AS	8881943	N/A	2023/09/02	Magdalena Onderco

Bureau Veritas ID: WSV396 **Collected:** 2023/08/15
Sample ID: LL-02 NB **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	8871091	2023/08/23	2023/08/23	Azita Fazaeli
B[a]P Total Potency Equivalent	GC/MS	8883954	N/A	2023/08/27	Automated Statchk
PAH in Water by GC/MS	GC/MS	8879906	2023/08/25	2023/08/26	Jiby Uthup
NORM Group Analysis	GS	8869670	N/A	2023/08/29	Danish Samad
Polonium-210 by Alpha Spectrometry	AS	8881943	N/A	2023/09/02	Magdalena Onderco

Bureau Veritas ID: WSV397 **Collected:** 2023/08/15
Sample ID: WC-09 **Shipped:**
Matrix: Water **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	8871091	2023/08/23	2023/08/23	Azita Fazaeli
B[a]P Total Potency Equivalent	GC/MS	8883954	N/A	2023/08/27	Automated Statchk

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSV397
Sample ID: WC-09
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH in Water by GC/MS	GC/MS	8879906	2023/08/25	2023/08/26	Jiby Uthup
NORM Group Analysis	GS	8869670	N/A	2023/08/30	Danish Samad
Polonium-210 by Alpha Spectrometry	AS	8881943	N/A	2023/09/02	Magdalena Onderco

Bureau Veritas ID: WSV398
Sample ID: WC-10
Matrix: Water

Collected: 2023/08/16
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	8871091	2023/08/23	2023/08/23	Azita Fazaeli
B[a]P Total Potency Equivalent	GC/MS	8883954	N/A	2023/08/26	Automated Statchk
PAH in Water by GC/MS	GC/MS	8879906	2023/08/25	2023/08/26	Jiby Uthup
NORM Group Analysis	GS	8869670	N/A	2023/08/30	Danish Samad
Polonium-210 by Alpha Spectrometry	AS	8881943	N/A	2023/09/02	Magdalena Onderco

Bureau Veritas ID: WSV398 Dup
Sample ID: WC-10
Matrix: Water

Collected: 2023/08/16
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH in Water by GC/MS	GC/MS	8879906	2023/08/25	2023/08/26	Jiby Uthup
Polonium-210 by Alpha Spectrometry	AS	8881943	N/A	2023/09/02	Magdalena Onderco

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.7°C
Package 2	3.3°C
Package 3	8.0°C
Package 4	9.3°C
Package 5	6.0°C
Package 6	5.7°C
Package 7	7.7°C
Package 8	8.0°C
Package 9	6.7°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8879906	D10-Anthracene	2023/08/26	100	50 - 130	97	50 - 130	98	%				
8879906	D14-Terphenyl	2023/08/26	92	50 - 130	108	50 - 130	111	%				
8879906	D8-Acenaphthylene	2023/08/26	100	50 - 130	86	50 - 130	81	%				
8879906	D8-Naphthalene	2023/08/26	82	50 - 130	70	50 - 130	64	%				
8869670	Lead-210	2023/08/23					<1.0	Bq/L			92	74 - 126
8869670	Radium-226	2023/08/23					<1.0	Bq/L			86	74 - 126
8869670	Thorium-230	2023/08/23					<5.0	Bq/L			93	74 - 126
8871091	Total Uranium (U)	2023/08/23	103	80 - 120	100	80 - 120	<0.10	ug/L	3.9	20		
8879906	1-Methylnaphthalene	2023/08/26	67	50 - 130	71	50 - 130	<0.10	ug/L	NC	30		
8879906	2-Methylnaphthalene	2023/08/26	88	50 - 130	91	50 - 130	<0.10	ug/L	NC	30		
8879906	Acenaphthene	2023/08/26	78	50 - 130	81	50 - 130	<0.10	ug/L	NC	30		
8879906	Acenaphthylene	2023/08/26	104	50 - 130	92	50 - 130	<0.10	ug/L	NC	30		
8879906	Acridine	2023/08/26	82	50 - 130	80	50 - 130	<0.040	ug/L	NC	30		
8879906	Anthracene	2023/08/26	87	50 - 130	76	50 - 130	<0.010	ug/L	NC	30		
8879906	Benzo(a)anthracene	2023/08/26	92	50 - 130	99	50 - 130	<0.0085	ug/L	NC	30		
8879906	Benzo(a)pyrene	2023/08/26	97	50 - 130	100	50 - 130	<0.0075	ug/L	NC	30		
8879906	Benzo(b/j)fluoranthene	2023/08/26	94	50 - 130	99	50 - 130	<0.0085	ug/L	NC	30		
8879906	Benzo(c)phenanthrene	2023/08/26	96	50 - 130	112	50 - 130	<0.050	ug/L	NC	30		
8879906	Benzo(e)pyrene	2023/08/26	86	50 - 130	89	50 - 130	<0.050	ug/L	NC	30		
8879906	Benzo(g,h,i)perylene	2023/08/26	91	50 - 130	86	50 - 130	<0.0085	ug/L	NC	30		
8879906	Benzo(k)fluoranthene	2023/08/26	81	50 - 130	95	50 - 130	<0.0085	ug/L	NC	30		
8879906	Chrysene	2023/08/26	95	50 - 130	101	50 - 130	<0.0085	ug/L	NC	30		
8879906	Dibenzo(a,h)anthracene	2023/08/26	94	50 - 130	85	50 - 130	<0.0075	ug/L	NC	30		
8879906	Fluoranthene	2023/08/26	97	50 - 130	93	50 - 130	<0.010	ug/L	NC	30		
8879906	Fluorene	2023/08/26	84	50 - 130	91	50 - 130	<0.050	ug/L	NC	30		
8879906	Indeno(1,2,3-cd)pyrene	2023/08/26	73	50 - 130	85	50 - 130	<0.0085	ug/L	NC	30		
8879906	Naphthalene	2023/08/26	91	50 - 130	84	50 - 130	<0.10	ug/L	NC	30		
8879906	Perylene	2023/08/26	84	50 - 130	74	50 - 130	<0.050	ug/L	NC	30		
8879906	Phenanthrene	2023/08/26	104	50 - 130	103	50 - 130	<0.050	ug/L	NC	30		
8879906	Pyrene	2023/08/26	94	50 - 130	95	50 - 130	<0.020	ug/L	NC	30		
8879906	Quinoline	2023/08/26	86	50 - 130	85	50 - 130	<0.20	ug/L	NC	30		

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8881943	Polonium-210	2023/09/02			100	74 - 126	<0.010	Bq/L	NC	N/A		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Veronica Falk, B.Sc., P.Chem., QP, Scientific Specialist, Organics

Jared Wiseman, B.Sc., P.Chem., QP, Senior Analyst, Organics

Steven Simpson, BSc.,MBA,C.Chem,Miss.-Kitimat, Lab Director

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 1	947047-01-01
Page ___ of ___	
Page ___ of ___	
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COOLER OBSERVATIONS:

BV JOB#: C3P2166

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	8 (1)	6 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	3 (1)	4 (2)	3 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	9 (1)	7 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	9 (1)	9 (2)	10 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	6 (1)	5 (2)	7 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5 (1)	5 (2)	7 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	7 (1)	8 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	10 (1)	8 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	5 (1)	9 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
JAEDEGLAUR	2023/08/18	14:33

BUREAU VERITAS

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

18-Aug-23 16:38
Ankita Bhalla
C3P2166
AJH ENV-2024

Page of

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:	
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500
	Mississauga ON L5N 7K2			Project Name:	
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:	
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Sampled By:	Michael Hildebrandt & Brian Lingelbach

Bottle Order #: 947047
COC #: C#947047-01-01
Project Manager: Ankita Bhalla

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ___
- ☐ PWQO ☐ Reg 406 Table ___
- ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	CCME PAHs	Total Metals Analysis by ICPMS - U	NORM Group Analysis	Polonium-210 by Alpha Spectrometry	~~Fecal coliform; (EFI/H60mL)~~	# of Bottles	Comments
1		WC-02	2023/08/11	14:30	SW		X	X	X	X		5	
2		WC-03	2023/08/14	14:00	SW		↓	↓	↓	↓		↓	
3		Long-02 1m	2023/08/15	13:00	SW								
4		Long-02 27m	2023/08/15	13:30	SW								
5		WC-09	2023/08/15	17:30	SW								
6		WC-10	2023/08/16	19:00	SW		↓	↓	↓	↓		↓	
7													
8													
9													
10													

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/08/18			23/08/18	16:38	

Laboratory Use Only
Time Sensitive ___ Temperature (°C) on Receipt 10.4°C
Custody Seal: Present ☑ Intact ☑ — Yes ☑ No ☐

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 956426-05-03, 956426-05-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401245
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3X5472
Received: 2023/10/26, 14:06

Sample Matrix: Water
Samples Received: 33

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity (CaCO3) in water (1)	23	N/A	2023/11/01	ATL SOP-00205	SM 24 2310B m
Alkalinity	22	N/A	2023/10/29	CAM SOP-00448	SM 23 2320 B m
Alkalinity	1	N/A	2023/10/30	CAM SOP-00448	SM 23 2320 B m
Anions	10	N/A	2023/10/30	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	10	N/A	2023/11/01	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	22	N/A	2023/10/29	CAM SOP-00414	SM 23 2510 m
Conductivity	1	N/A	2023/10/30	CAM SOP-00414	SM 23 2510 m
Dissolved Organic Carbon (DOC) (3)	10	N/A	2023/11/01	CAM SOP-00446	SM 23 5310 B m
Fluoride	9	2023/10/27	2023/10/27	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2023/11/01	2023/11/01	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	10	N/A	2023/10/31	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Mercury in Water by CVAA	5	2023/10/31	2023/11/01	CAM SOP-00453	EPA 7470A m
Dissolved Mercury in Water by CVAA	18	2023/11/01	2023/11/01	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	23	2023/11/01	2023/11/01	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	23	N/A	2023/10/31	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	3	2023/10/31	2023/11/01	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	19	2023/11/01	2023/11/01	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	2023/11/01	2023/11/02	CAM SOP-00447	EPA 6020B m
Total Extractable Lanthanides-waters (2, 4)	23	2023/11/03	2023/11/04	STL SOP-00071	MA. 200-Met 1.2 R7 m
Dissolved Lanthanides- waters (2, 4)	23	N/A	2023/11/04	STL SOP-00071	MA 200-Met 1.2 R7 m
Total Ammonia-N	10	N/A	2023/10/27	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (5)	10	N/A	2023/10/28	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH (6)	22	2023/10/27	2023/10/29	CAM SOP-00413	SM 4500H+ B m
pH (6)	1	2023/10/30	2023/10/30	CAM SOP-00413	SM 4500H+ B m
Field Measured pH (7)	10	N/A	2023/11/09		Field pH Meter
Sulphate by Automated Turbidimetry	10	N/A	2023/11/01	CAM SOP-00464	SM 23 4500-SO42- E m
Total Dissolved Solids	6	2023/10/27	2023/10/28	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	3	2023/10/28	2023/10/31	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	1	2023/10/30	2023/11/01	CAM SOP-00428	SM 23 2540C m

Your Project #: CA0003092.5894/500
Your C.O.C. #: 956426-05-03, 956426-05-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401245
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3X5472
Received: 2023/10/26, 14:06

Sample Matrix: Water
Samples Received: 33

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Field Temperature (7)	10	N/A	2023/11/09		Field Thermometer
Total Phosphorus (Colourimetric)	20	2023/10/27	2023/10/31	CAM SOP-00407	SM 23 4500-P I
Total Phosphorus (Colourimetric)	3	2023/10/31	2023/11/01	CAM SOP-00407	SM 23 4500-P I
Total Suspended Solids	10	2023/10/27	2023/10/28	CAM SOP-00428	SM 23 2540D m
Total Suspended Solids	8	2023/10/27	2023/10/30	CAM SOP-00428	SM 23 2540D m
Total Suspended Solids	5	2023/10/28	2023/10/31	CAM SOP-00428	SM 23 2540D m
Un-ionized Ammonia (8)	10	2023/10/27	2023/11/09	Auto Calc.	PWQO

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) This test was performed by Bureau Veritas Montreal., 889 Montée de Liesse , Ville St-Laurent, QC, H4T 1P5
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 956426-05-03, 956426-05-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401245
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3X5472

Received: 2023/10/26, 14:06

(4) Non-accredited test method
(5) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(6) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

(7) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.
(8) Un-ionized ammonia is calculated using the total ammonia result and field data provided by the client for pH and temperature.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas Job #: C3X5472
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO105			XKO105			XKO106	XKO107		
Sampling Date		2023/10/13 12:00			2023/10/13 12:00			2023/10/13 13:30	2023/10/13 15:30		
COC Number		956426-05-01			956426-05-01			956426-05-01	956426-05-01		
	UNITS	WC-15	RDL	QC Batch	WC-15 Lab-Dup	RDL	QC Batch	WC-14	WC-13	RDL	QC Batch
Inorganics											
Acidity	mg/L	<5.0	5.0	9020279				<5.0	<5.0	5.0	9020279
Conductivity	umho/cm	87	1.0	9011104				83	94	1.0	9011104
pH	pH	7.79		9011106				7.73	7.83		9011106
Total Phosphorus	mg/L	<0.020	0.020	9012721				<0.020	<0.020	0.020	9019822
Total Suspended Solids	mg/L	<10	10	9010952	<10	10	9010952	<10	<10	10	9010952
Alkalinity (Total as CaCO3)	mg/L	40	1.0	9011095				39	45	1.0	9011095
Metals											
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9052716	<2.0	2.0	9052716	<2.0	<2.0	2.0	9052716
Total Yttrium (Y)	ug/L	<2.0	2.0	9052715				<2.0	<2.0	2.0	9052715

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		XKO107			XKO108	XKO109		XKO110		
Sampling Date		2023/10/13 15:30			2023/10/13 13:00	2023/10/14 15:00		2023/10/15 12:00		
COC Number		956426-05-01			956426-05-01	956426-05-01		956426-05-01		
	UNITS	WC-13 Lab-Dup	RDL	QC Batch	WC-05	WC-12	QC Batch	WC - 10	RDL	QC Batch
Inorganics										
Acidity	mg/L				<5.0	<5.0	9020279	<5.0	5.0	9020181
Conductivity	umho/cm	94	1.0	9011104	120	56	9011104	49	1.0	9011104
pH	pH	7.84		9011106	7.91	7.45	9011106	7.53		9011106
Total Phosphorus	mg/L				<0.020	<0.020	9012721	<0.020	0.020	9012721
Total Suspended Solids	mg/L				<10	<10	9010952	<10	10	9010952
Alkalinity (Total as CaCO3)	mg/L	47	1.0	9011095	62	20	9011095	21	1.0	9011095
Metals										
Dissolved Yttrium (Y)	ug/L				<2.0	<2.0	9052716	<2.0	2.0	9052716
Total Yttrium (Y)	ug/L				<2.0	<2.0	9052715	<2.0	2.0	9052715

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO111		XKO112		XKO113		XKO114		
Sampling Date		2023/10/16 11:00		2023/10/16 15:00		2023/10/17 11:00		2023/10/17		
COC Number		956426-05-01		956426-05-01		956426-05-01		956426-05-01		
	UNITS	WC - 06	QC Batch	WC - 07	QC Batch	WC - 08	QC Batch	DUP	RDL	QC Batch
Inorganics										
Acidity	mg/L	<5.0	9020279	<5.0	9020181	<5.0	9020279	<5.0	5.0	9020279
Conductivity	umho/cm	130	9011104	82	9011104	95	9011104	94	1.0	9011809
pH	pH	8.01	9011106	7.80	9011106	7.89	9011106	7.87		9011803
Total Phosphorus	mg/L	<0.020	9012721	<0.020	9012721	<0.020	9019822	<0.020	0.020	9012721
Total Suspended Solids	mg/L	<10	9010952	<10	9010952	<10	9010952	<10	10	9010952
Alkalinity (Total as CaCO3)	mg/L	67	9011095	41	9011095	47	9011095	46	1.0	9011811
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	9052716	<2.0	9052716	<2.0	9052716	<2.0	2.0	9052716
Total Yttrium (Y)	ug/L	<2.0	9052715	<2.0	9052715	<2.0	9052715	<2.0	2.0	9052715

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3X5472
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO115			XKO115			XKO116		
Sampling Date		2023/10/17 15:00			2023/10/17 15:00			2023/10/18 14:00		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	WC - 09	RDL	QC Batch	WC - 09 Lab-Dup	RDL	QC Batch	WC - 02	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	25	1.0	9010139				39	1.0	9010139
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	9011061				<0.00061	0.00061	9011061
Field Measurements										
Field Temperature	Celsius	6.74	N/A	ONSITE				7.99	N/A	ONSITE
Field Measured pH	pH	7.05		ONSITE				7.20		ONSITE
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	9010492				<0.050	0.050	9010492
Total Dissolved Solids	mg/L	<10	10	9011139				25	10	9011139
Fluoride (F-)	mg/L	<0.10	0.10	9011027				<0.10	0.10	9011027
Dissolved Organic Carbon	mg/L	5.2	0.40	9011512				4.8	0.40	9011512
Dissolved Sulphate (SO4)	mg/L	2.5	1.0	9011802	2.5	1.0	9011802	3.6	1.0	9011802
Dissolved Chloride (Cl-)	mg/L	1.1	1.0	9011799	<1.0	1.0	9011799	<1.0	1.0	9011799
Nitrite (N)	mg/L	<0.010	0.010	9011563				<0.010	0.010	9011563
Nitrate (N)	mg/L	0.11	0.10	9011563				<0.10	0.10	9011563
Nitrate + Nitrite (N)	mg/L	0.11	0.10	9011563				<0.10	0.10	9011563
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9011503				<1.0	1.0	9011503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO117	XKO118			XKO118		
Sampling Date		2023/10/19 12:45	2023/10/19 15:00			2023/10/19 15:00		
COC Number		956426-05-01	956426-05-01			956426-05-01		
	UNITS	**WC - 01**	**PL-02 NS**	**RDL**	**QC Batch**	**PL-02 NS Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters								
Hardness (CaCO3)	mg/L	56	41	1.0	9010139			
Total Un-ionized Ammonia	mg/L	<0.00061	<0.00061	0.00061	9011061			
Field Measurements								
Field Temperature	Celsius	4.96	7.31	N/A	ONSITE			
Field Measured pH	pH	6.86	7.44		ONSITE			
Inorganics								
Total Ammonia-N	mg/L	<0.050	<0.050	0.050	9010492			
Total Dissolved Solids	mg/L	40	20	10	9011139	20	10	9011139
Fluoride (F-)	mg/L	<0.10	<0.10	0.10	9011027			
Dissolved Organic Carbon	mg/L	4.3	4.8	0.40	9011504			
Dissolved Sulphate (SO4)	mg/L	4.3	4.0	1.0	9011802			
Dissolved Chloride (Cl-)	mg/L	<1.0	<1.0	1.0	9011799			
Nitrite (N)	mg/L	<0.010	<0.010	0.010	9011563			
Nitrate (N)	mg/L	<0.10	<0.10	0.10	9011563			
Nitrate + Nitrite (N)	mg/L	<0.10	<0.10	0.10	9011563			
Dissolved Bromide (Br-)	mg/L	<1.0	<1.0	1.0	9011503	<1.0	1.0	9011503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO119			XKO119			XKO120		
Sampling Date		2023/10/19 15:15			2023/10/19 15:15			2023/10/20 12:00		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	PL-02 NB	RDL	QC Batch	PL-02 NB Lab-Dup	RDL	QC Batch	WC-03	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	39	1.0	9010139				31	1.0	9010139
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	9011061				<0.00061	0.00061	9011061
Field Measurements										
Field Temperature	Celsius	7.24	N/A	ONSITE				8.80	N/A	ONSITE
Field Measured pH	pH	7.41		ONSITE				7.48		ONSITE
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	9010492				<0.050	0.050	9010492
Total Dissolved Solids	mg/L	20	10	9011139				30	10	9011139
Fluoride (F-)	mg/L	<0.10	0.10	9011027	<0.10	0.10	9011027	<0.10	0.10	9011027
Dissolved Organic Carbon	mg/L	4.8	0.40	9011512				3.2	0.40	9011504
Dissolved Sulphate (SO4)	mg/L	3.5	1.0	9013799				2.9	1.0	9011802
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9013798				<1.0	1.0	9011799
Nitrite (N)	mg/L	<0.010	0.010	9011563				<0.010	0.010	9011563
Nitrate (N)	mg/L	<0.10	0.10	9011563				<0.10	0.10	9011563
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9011563				<0.10	0.10	9011563
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9011503				<1.0	1.0	9011503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3X5472
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO121			XKO122			XKO123		
Sampling Date		2023/10/21 12:00			2023/10/21 11:00			2023/10/21 11:15		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	WC-04	RDL	QC Batch	MIL-03 NS	RDL	QC Batch	MIL-03 NB	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	39	1.0	9010139	38	1.0	9010139	39	1.0	9010139
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	9011061	<0.0005	0.0005	9011061	<0.00061	0.00061	9011061
Field Measurements										
Field Temperature	Celsius	8.60	N/A	ONSITE	9.10	N/A	ONSITE	9.00	N/A	ONSITE
Field Measured pH	pH	7.67		ONSITE	7.68		ONSITE	7.30		ONSITE
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	9010492	<0.050	0.050	9010492	<0.050	0.050	9010492
Total Dissolved Solids	mg/L	20	10	9013590	45	10	9013590	40	10	9013589
Fluoride (F-)	mg/L	<0.10	0.10	9011027	<0.10	0.10	9011027	<0.10	0.10	9020966
Dissolved Organic Carbon	mg/L	3.0	0.40	9011504	3.0	0.40	9011512	3.1	0.40	9011504
Dissolved Sulphate (SO4)	mg/L	2.8	1.0	9011802	2.8	1.0	9011802	2.7	1.0	9011802
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9011799	<1.0	1.0	9011799	<1.0	1.0	9011799
Nitrite (N)	mg/L	<0.010	0.010	9011563	<0.010	0.010	9011563	<0.010	0.010	9011563
Nitrate (N)	mg/L	<0.10	0.10	9011563	<0.10	0.10	9011563	<0.10	0.10	9011563
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9011563	<0.10	0.10	9011563	<0.10	0.10	9011563
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9011503	<1.0	1.0	9011503	<1.0	1.0	9011503

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3X5472
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO123			XKO124			XKO125		
Sampling Date		2023/10/21 11:15			2023/10/21 13:00			2023/10/21 13:15		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	MIL-03 NB Lab-Dup	RDL	QC Batch	MIL-02 NS	RDL	QC Batch	MIL-02 NB	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				38	1.0	9010139			
Total Un-ionized Ammonia	mg/L				<0.00061	0.00061	9011061			
Field Measurements										
Field Temperature	Celsius				8.80	N/A	ONSITE			
Field Measured pH	pH				7.65		ONSITE			
Inorganics										
Acidity	mg/L							<5.0	5.0	9020279
Total Ammonia-N	mg/L				<0.050	0.050	9010492			
Conductivity	umho/cm							75	1.0	9011809
Total Dissolved Solids	mg/L	35	10	9013589	40	10	9013590			
Fluoride (F-)	mg/L				<0.10	0.10	9011027			
Dissolved Organic Carbon	mg/L				3.0	0.40	9011504			
pH	pH							7.74		9011803
Total Phosphorus	mg/L							<0.020	0.020	9012721
Total Suspended Solids	mg/L							<10	10	9012166
Dissolved Sulphate (SO4)	mg/L				2.7	1.0	9011802			
Alkalinity (Total as CaCO3)	mg/L							36	1.0	9011811
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9011799			
Nitrite (N)	mg/L				<0.010	0.010	9011563			
Nitrate (N)	mg/L				<0.10	0.10	9011563			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	9011563			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9011503			
Metals										
Dissolved Yttrium (Y)	ug/L							<2.0	2.0	9052716
Total Yttrium (Y)	ug/L							<2.0	2.0	9052717

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO125			XKO126		XKO127		
Sampling Date		2023/10/21 13:15			2023/10/22 11:00		2023/10/22 11:15		
COC Number		956426-05-01			956426-05-01		956426-05-01		
	UNITS	MIL-02 NB Lab-Dup	RDL	QC Batch	MOL-02 NS	QC Batch	MOL-02 NB	RDL	QC Batch
Inorganics									
Acidity	mg/L				<5.0	9020279	<5.0	5.0	9020181
Conductivity	umho/cm	75	1.0	9011809	64	9011104	64	1.0	9011104
pH	pH	7.76		9011803	7.69	9011106	7.71		9011106
Total Phosphorus	mg/L				<0.020	9012721	<0.020	0.020	9012721
Total Suspended Solids	mg/L				<10	9013462	<10	10	9012166
Alkalinity (Total as CaCO3)	mg/L	36	1.0	9011811	31	9011095	30	1.0	9011095
Metals									
Dissolved Yttrium (Y)	ug/L				<2.0	9052716	<2.0	2.0	9052716
Total Yttrium (Y)	ug/L				<2.0	9052717	<2.0	2.0	9052717

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		XKO128	XKO129	XKO130		XKO131		
Sampling Date		2023/10/22 15:00	2023/10/22 15:15	2023/10/23 12:00		2023/10/23 12:15		
COC Number		956426-05-01	956426-05-01	956426-05-01		956426-05-01		
	UNITS	DL-02 NS	DL-02 NB	RL-02 NS	QC Batch	RL-02 NB	RDL	QC Batch
Inorganics								
Acidity	mg/L	<5.0	<5.0	<5.0	9020279	<5.0	5.0	9020279
Conductivity	umho/cm	54	54	88	9011104	88	1.0	9011104
pH	pH	7.47	7.48	7.86	9011106	7.87		9011106
Total Phosphorus	mg/L	<0.020	<0.020	<0.020	9012721	<0.020	0.020	9012721
Total Suspended Solids	mg/L	<10	<10	<10	9012166	<10	10	9013462
Alkalinity (Total as CaCO3)	mg/L	17	17	45	9011095	40	1.0	9011095
Metals								
Dissolved Yttrium (Y)	ug/L	<2.0	<2.0	<2.0	9052716	<2.0	2.0	9052716
Total Yttrium (Y)	ug/L	<2.0	<2.0	<2.0	9052717	<2.0	2.0	9052717

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3X5472
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO132			XKO132			XKO133		
Sampling Date		2023/10/23 15:00			2023/10/23 15:00			2023/10/24 11:00		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	WC-16	RDL	QC Batch	WC-16 Lab-Dup	RDL	QC Batch	LL-02 NS	RDL	QC Batch
Inorganics										
Acidity	mg/L	<5.0	5.0	9020181				<5.0	5.0	9020181
Conductivity	umho/cm	91	1.0	9011104				73	1.0	9011104
pH	pH	7.86		9011106				7.76		9011106
Total Phosphorus	mg/L	<0.020	0.020	9012721				<0.020	0.020	9012721
Total Suspended Solids	mg/L	<10	10	9013462	<10	10	9013462	<10	10	9012166
Alkalinity (Total as CaCO3)	mg/L	46	1.0	9011095				34	1.0	9011095
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9052716				<2.0	2.0	9052716
Total Yttrium (Y)	ug/L	<2.0	2.0	9052717				<2.0	2.0	9052717

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		XKO134			XKO134			XKO135		
Sampling Date		2023/10/24 11:30			2023/10/24 11:30			2023/10/24 14:00		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	LL-02 NB	RDL	QC Batch	LL-02 NB Lab-Dup	RDL	QC Batch	LL-03 NS	RDL	QC Batch
Inorganics										
Acidity	mg/L	<5.0	5.0	9020279				<5.0	5.0	9020279
Conductivity	umho/cm	73	1.0	9011809				70	1.0	9011104
pH	pH	7.75		9011803				7.70		9011106
Total Phosphorus	mg/L	<0.020	0.020	9012721	<0.020	0.020	9012721	<0.020	0.020	9012721
Total Suspended Solids	mg/L	<10	10	9012166				<10	10	9013462
Alkalinity (Total as CaCO3)	mg/L	34	1.0	9011811				34	1.0	9011095
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9052716				<2.0	2.0	9052719
Total Yttrium (Y)	ug/L	<2.0	2.0	9052717				<2.0	2.0	9052718

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XKO136			XKO136			XKO137		
Sampling Date		2023/10/24 14:15			2023/10/24 14:15			2023/10/24 15:45		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	LL-03 NB	RDL	QC Batch	LL-03 NB Lab-Dup	RDL	QC Batch	BLANK	RDL	QC Batch
Inorganics										
Acidity	mg/L	<5.0	5.0	9020181				<5.0	5.0	9020279
Conductivity	umho/cm	70	1.0	9015217	69	1.0	9015217	2.1	1.0	9011104
pH	pH	7.68		9015206	7.70		9015206	6.24		9011106
Total Phosphorus	mg/L	<0.020	0.020	9012721				<0.020	0.020	9012721
Total Suspended Solids	mg/L	<10	10	9012166				<10	10	9013462
Alkalinity (Total as CaCO3)	mg/L	33	1.0	9015175	33	1.0	9015175	1.1	1.0	9011095
Metals										
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9052719				<2.0	2.0	9052719
Total Yttrium (Y)	ug/L	<2.0	2.0	9052718				<2.0	2.0	9052718

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		XKO137		
Sampling Date		2023/10/24 15:45		
COC Number		956426-05-01		
	UNITS	BLANK Lab-Dup	RDL	QC Batch
Inorganics				
Acidity	mg/L	<5.0	5.0	9020279

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO105			XKO105			XKO106		
Sampling Date		2023/10/13 12:00			2023/10/13 12:00			2023/10/13 13:30		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	WC-15	RDL	QC Batch	WC-15 Lab-Dup	RDL	QC Batch	WC-14	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L	<0.00010	0.00010	9021361				<0.00010	0.00010	9021361
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	9020733				<0.10	0.10	9020733
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	9011646	<4.9	4.9	9011646	6.1	4.9	9011620
Total Aluminum (Al)	ug/L	13	4.9	9020292				7.3	4.9	9020292
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9011646	<0.50	0.50	9011646	<0.50	0.50	9011620
Total Antimony (Sb)	ug/L	<0.50	0.50	9020292				<0.50	0.50	9020292
Dissolved Arsenic (As)	ug/L	<1.0	1.0	9011646	<1.0	1.0	9011646	<1.0	1.0	9011620
Total Arsenic (As)	ug/L	<1.0	1.0	9020292				<1.0	1.0	9020292
Dissolved Barium (Ba)	ug/L	12	2.0	9011646	12	2.0	9011646	15	2.0	9011620
Total Barium (Ba)	ug/L	12	2.0	9020292				12	2.0	9020292
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	9011646	<0.40	0.40	9011646	<0.40	0.40	9011620
Total Beryllium (Be)	ug/L	<0.40	0.40	9020292				<0.40	0.40	9020292
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	9011646	<1.0	1.0	9011646	<1.0	1.0	9011620
Total Bismuth (Bi)	ug/L	<1.0	1.0	9020292				<1.0	1.0	9020292
Dissolved Boron (B)	ug/L	<10	10	9011646	<10	10	9011646	<10	10	9011620
Total Boron (B)	ug/L	<10	10	9020292				<10	10	9020292
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	9011646	<0.090	0.090	9011646	<0.090	0.090	9011620
Total Cadmium (Cd)	ug/L	<0.090	0.090	9020292				<0.090	0.090	9020292
Dissolved Calcium (Ca)	ug/L	9500	200	9011646	9400	200	9011646	9600	200	9011620
Total Calcium (Ca)	ug/L	9200	200	9020292				8700	200	9020292
Dissolved Cesium (Cs)	ug/L	<0.20	0.20	9011646	<0.20	0.20	9011646	<0.20	0.20	9011620
Total Cesium (Cs)	ug/L	<0.20	0.20	9020292				<0.20	0.20	9020292
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	9011646	<5.0	5.0	9011646	<5.0	5.0	9011620
Total Chromium (Cr)	ug/L	<5.0	5.0	9020292				<5.0	5.0	9020292
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	9011646	<0.50	0.50	9011646	<0.50	0.50	9011620
Total Cobalt (Co)	ug/L	<0.50	0.50	9020292				<0.50	0.50	9020292
Dissolved Copper (Cu)	ug/L	1.1	0.90	9011646	1.2	0.90	9011646	1.0	0.90	9011620
Total Copper (Cu)	ug/L	0.98	0.90	9020292				<0.90	0.90	9020292
Dissolved Iron (Fe)	ug/L	<100	100	9011646	<100	100	9011646	<100	100	9011620
Total Iron (Fe)	ug/L	<100	100	9020292				<100	100	9020292

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO105			XKO105			XKO106		
Sampling Date		2023/10/13 12:00			2023/10/13 12:00			2023/10/13 13:30		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	WC-15	RDL	QC Batch	WC-15 Lab-Dup	RDL	QC Batch	WC-14	RDL	QC Batch
Dissolved Lead (Pb)	ug/L	<0.50	0.50	9011646	<0.50	0.50	9011646	<0.50	0.50	9011620
Total Lead (Pb)	ug/L	<0.50	0.50	9020292				<0.50	0.50	9020292
Dissolved Lithium (Li)	ug/L	<5.0	5.0	9011646	<5.0	5.0	9011646	<5.0	5.0	9011620
Total Lithium (Li)	ug/L	<5.0	5.0	9020292				<5.0	5.0	9020292
Dissolved Magnesium (Mg)	ug/L	3800	50	9011646	3900	50	9011646	3900	50	9011620
Total Magnesium (Mg)	ug/L	3800	50	9020292				3700	50	9020292
Dissolved Manganese (Mn)	ug/L	14	2.0	9011646	14	2.0	9011646	51	2.0	9011620
Total Manganese (Mn)	ug/L	27	2.0	9020292				35	2.0	9020292
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	9011646	<0.50	0.50	9011646	0.56	0.50	9011620
Total Molybdenum (Mo)	ug/L	<0.50	0.50	9020292				<0.50	0.50	9020292
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9011646	<1.0	1.0	9011646	<1.0	1.0	9011620
Total Nickel (Ni)	ug/L	<1.0	1.0	9020292				<1.0	1.0	9020292
Dissolved Phosphorus (P)	ug/L	<100	100	9011646	<100	100	9011646	<100	100	9011620
Total Phosphorus (P)	ug/L	<100	100	9020292				<100	100	9020292
Dissolved Potassium (K)	ug/L	1000	200	9011646	1000	200	9011646	1300	200	9011620
Total Potassium (K)	ug/L	960	200	9020292				1200	200	9020292
Dissolved Rubidium (Rb)	ug/L	1.6	0.20	9011646	1.7	0.20	9011646	1.3	0.20	9011620
Total Rubidium (Rb)	ug/L	1.7	0.20	9020292				1.2	0.20	9020292
Dissolved Selenium (Se)	ug/L	<2.0	2.0	9011646	<2.0	2.0	9011646	<2.0	2.0	9011620
Total Selenium (Se)	ug/L	<2.0	2.0	9020292				<2.0	2.0	9020292
Dissolved Silicon (Si)	ug/L	1800	50	9011646	1800	50	9011646	2100	50	9011620
Total Silicon (Si)	ug/L	1800	50	9020292				2000	50	9020292
Dissolved Silver (Ag)	ug/L	<0.090	0.090	9011646	<0.090	0.090	9011646	<0.090	0.090	9011620
Total Silver (Ag)	ug/L	<0.090	0.090	9020292				<0.090	0.090	9020292
Dissolved Sodium (Na)	ug/L	830	100	9011646	840	100	9011646	660	100	9011620
Total Sodium (Na)	ug/L	820	100	9020292				600	100	9020292
Dissolved Strontium (Sr)	ug/L	16	1.0	9011646	17	1.0	9011646	13	1.0	9011620
Total Strontium (Sr)	ug/L	16	1.0	9020292				13	1.0	9020292
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	9011646	<1.0	1.0	9011646	<1.0	1.0	9011620
Total Tellurium (Te)	ug/L	<1.0	1.0	9020292				<1.0	1.0	9020292
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	9011646	<0.050	0.050	9011646	<0.050	0.050	9011620

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO105			XKO105			XKO106		
Sampling Date		2023/10/13 12:00			2023/10/13 12:00			2023/10/13 13:30		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	WC-15	RDL	QC Batch	WC-15 Lab-Dup	RDL	QC Batch	WC-14	RDL	QC Batch
Total Thallium (Tl)	ug/L	<0.050	0.050	9020292				<0.050	0.050	9020292
Dissolved Thorium (Th)	ug/L	<2.0	2.0	9011646	<2.0	2.0	9011646	<2.0	2.0	9011620
Total Thorium (Th)	ug/L	<2.0	2.0	9020292				<2.0	2.0	9020292
Dissolved Tin (Sn)	ug/L	<1.0	1.0	9011646	<1.0	1.0	9011646	<1.0	1.0	9011620
Total Tin (Sn)	ug/L	<1.0	1.0	9020292				<1.0	1.0	9020292
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	9011646	<5.0	5.0	9011646	<5.0	5.0	9011620
Total Titanium (Ti)	ug/L	<5.0	5.0	9020292				<5.0	5.0	9020292
Dissolved Tungsten (W)	ug/L	<1.0	1.0	9011646	<1.0	1.0	9011646	<1.0	1.0	9011620
Total Tungsten (W)	ug/L	<1.0	1.0	9020292				<1.0	1.0	9020292
Dissolved Uranium (U)	ug/L	<0.10	0.10	9011646	<0.10	0.10	9011646	<0.10	0.10	9011620
Total Uranium (U)	ug/L	<0.10	0.10	9020292				<0.10	0.10	9020292
Dissolved Vanadium (V)	ug/L	<0.50	0.50	9011646	<0.50	0.50	9011646	<0.50	0.50	9011620
Total Vanadium (V)	ug/L	<0.50	0.50	9020292				<0.50	0.50	9020292
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9011646	<5.0	5.0	9011646	<5.0	5.0	9011620
Total Zinc (Zn)	ug/L	<5.0	5.0	9020292				<5.0	5.0	9020292
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	9011646	<1.0	1.0	9011646	<1.0	1.0	9011620
Total Zirconium (Zr)	ug/L	<1.0	1.0	9020292				<1.0	1.0	9020292

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO107	XKO108		XKO109		XKO110		
Sampling Date		2023/10/13 15:30	2023/10/13 13:00		2023/10/14 15:00		2023/10/15 12:00		
COC Number		956426-05-01	956426-05-01		956426-05-01		956426-05-01		
	UNITS	WC-13	WC-05	QC Batch	WC-12	QC Batch	WC - 10	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	<0.00010	9020689	<0.00010	9021361	<0.00010	0.00010	9020689
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	9020733	<0.10	9019571	<0.10	0.10	9020733
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	9011646	12	9011646	41	4.9	9011646
Total Aluminum (Al)	ug/L	5.3	12	9020292	31	9020292	58	4.9	9020292
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	9011646	<0.50	9011646	<0.50	0.50	9011646
Total Antimony (Sb)	ug/L	<0.50	<0.50	9020292	<0.50	9020292	<0.50	0.50	9020292
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011646
Total Arsenic (As)	ug/L	<1.0	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Barium (Ba)	ug/L	12	17	9011646	9.8	9011646	7.9	2.0	9011646
Total Barium (Ba)	ug/L	11	17	9020292	10	9020292	8.0	2.0	9020292
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	9011646	<0.40	9011646	<0.40	0.40	9011646
Total Beryllium (Be)	ug/L	<0.40	<0.40	9020292	<0.40	9020292	<0.40	0.40	9020292
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011646
Total Bismuth (Bi)	ug/L	<1.0	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Boron (B)	ug/L	<10	<10	9011646	<10	9011646	<10	10	9011646
Total Boron (B)	ug/L	<10	<10	9020292	<10	9020292	<10	10	9020292
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	9011646	<0.090	9011646	<0.090	0.090	9011646
Total Cadmium (Cd)	ug/L	<0.090	<0.090	9020292	<0.090	9020292	<0.090	0.090	9020292
Dissolved Calcium (Ca)	ug/L	10000	15000	9011646	5400	9011646	5100	200	9011646
Total Calcium (Ca)	ug/L	9800	14000	9020292	5200	9020292	5100	200	9020292
Dissolved Cesium (Cs)	ug/L	<0.20	<0.20	9011646	<0.20	9011646	<0.20	0.20	9011646
Total Cesium (Cs)	ug/L	<0.20	<0.20	9020292	<0.20	9020292	<0.20	0.20	9020292
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	9011646	<5.0	9011646	<5.0	5.0	9011646
Total Chromium (Cr)	ug/L	<5.0	<5.0	9020292	<5.0	9020292	<5.0	5.0	9020292
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	9011646	<0.50	9011646	<0.50	0.50	9011646
Total Cobalt (Co)	ug/L	<0.50	<0.50	9020292	<0.50	9020292	<0.50	0.50	9020292
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	9011646	<0.90	9011646	<0.90	0.90	9011646
Total Copper (Cu)	ug/L	<0.90	<0.90	9020292	<0.90	9020292	<0.90	0.90	9020292
Dissolved Iron (Fe)	ug/L	<100	<100	9011646	<100	9011646	<100	100	9011646
Total Iron (Fe)	ug/L	<100	110	9020292	<100	9020292	160	100	9020292
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	9011646	<0.50	9011646	<0.50	0.50	9011646

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO107	XKO108		XKO109		XKO110		
Sampling Date		2023/10/13 15:30	2023/10/13 13:00		2023/10/14 15:00		2023/10/15 12:00		
COC Number		956426-05-01	956426-05-01		956426-05-01		956426-05-01		
	UNITS	WC-13	WC-05	QC Batch	WC-12	QC Batch	WC - 10	RDL	QC Batch
Total Lead (Pb)	ug/L	<0.50	<0.50	9020292	<0.50	9020292	<0.50	0.50	9020292
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	9011646	<5.0	9011646	<5.0	5.0	9011646
Total Lithium (Li)	ug/L	<5.0	<5.0	9020292	<5.0	9020292	<5.0	5.0	9020292
Dissolved Magnesium (Mg)	ug/L	4900	6600	9011646	1500	9011646	2200	50	9011646
Total Magnesium (Mg)	ug/L	4700	5900	9020292	1500	9020292	2100	50	9020292
Dissolved Manganese (Mn)	ug/L	2.0	18	9011646	7.2	9011646	5.1	2.0	9011646
Total Manganese (Mn)	ug/L	6.4	18	9020292	26	9020292	13	2.0	9020292
Dissolved Molybdenum (Mo)	ug/L	0.51	<0.50	9011646	0.53	9011646	<0.50	0.50	9011646
Total Molybdenum (Mo)	ug/L	<0.50	0.52	9020292	0.82	9020292	<0.50	0.50	9020292
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011646
Total Nickel (Ni)	ug/L	<1.0	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Phosphorus (P)	ug/L	<100	<100	9011646	<100	9011646	<100	100	9011646
Total Phosphorus (P)	ug/L	<100	<100	9020292	<100	9020292	<100	100	9020292
Dissolved Potassium (K)	ug/L	910	1100	9011646	1100	9011646	840	200	9011646
Total Potassium (K)	ug/L	840	1100	9020292	1000	9020292	760	200	9020292
Dissolved Rubidium (Rb)	ug/L	1.5	2.5	9011646	2.1	9011646	1.9	0.20	9011646
Total Rubidium (Rb)	ug/L	1.5	2.4	9020292	1.9	9020292	1.9	0.20	9020292
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	9011646	<2.0	9011646	<2.0	2.0	9011646
Total Selenium (Se)	ug/L	<2.0	<2.0	9020292	<2.0	9020292	<2.0	2.0	9020292
Dissolved Silicon (Si)	ug/L	1700	1700	9011646	2000	9011646	1200	50	9011646
Total Silicon (Si)	ug/L	1600	1700	9020292	2000	9020292	1200	50	9020292
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	9011646	<0.090	9011646	<0.090	0.090	9011646
Total Silver (Ag)	ug/L	<0.090	<0.090	9020292	<0.090	9020292	<0.090	0.090	9020292
Dissolved Sodium (Na)	ug/L	430	480	9011646	2200	9011646	610	100	9011646
Total Sodium (Na)	ug/L	420	450	9020292	2200	9020292	580	100	9020292
Dissolved Strontium (Sr)	ug/L	13	17	9011646	16	9011646	14	1.0	9011646
Total Strontium (Sr)	ug/L	13	18	9020292	16	9020292	14	1.0	9020292
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011646
Total Tellurium (Te)	ug/L	<1.0	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	9011646	<0.050	9011646	<0.050	0.050	9011646
Total Thallium (Tl)	ug/L	<0.050	<0.050	9020292	<0.050	9020292	<0.050	0.050	9020292
Dissolved Thorium (Th)	ug/L	<2.0	<2.0	9011646	<2.0	9011646	<2.0	2.0	9011646

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO107	XKO108		XKO109		XKO110		
Sampling Date		2023/10/13 15:30	2023/10/13 13:00		2023/10/14 15:00		2023/10/15 12:00		
COC Number		956426-05-01	956426-05-01		956426-05-01		956426-05-01		
	UNITS	WC-13	WC-05	QC Batch	WC-12	QC Batch	WC - 10	RDL	QC Batch
Total Thorium (Th)	ug/L	<2.0	<2.0	9020292	<2.0	9020292	<2.0	2.0	9020292
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011646
Total Tin (Sn)	ug/L	<1.0	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	9011646	<5.0	9011646	<5.0	5.0	9011646
Total Titanium (Ti)	ug/L	<5.0	<5.0	9020292	<5.0	9020292	<5.0	5.0	9020292
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011646
Total Tungsten (W)	ug/L	<1.0	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Uranium (U)	ug/L	<0.10	0.24	9011646	<0.10	9011646	<0.10	0.10	9011646
Total Uranium (U)	ug/L	<0.10	0.24	9020292	<0.10	9020292	<0.10	0.10	9020292
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	9011646	<0.50	9011646	<0.50	0.50	9011646
Total Vanadium (V)	ug/L	<0.50	<0.50	9020292	<0.50	9020292	<0.50	0.50	9020292
Dissolved Zinc (Zn)	ug/L	<5.0	6.6	9011646	<5.0	9011646	<5.0	5.0	9011646
Total Zinc (Zn)	ug/L	<5.0	<5.0	9020292	<5.0	9020292	<5.0	5.0	9020292
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011646
Total Zirconium (Zr)	ug/L	<1.0	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292

RDL = Reportable Detection Limit
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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO110			XKO111		XKO112		
Sampling Date		2023/10/15 12:00			2023/10/16 11:00		2023/10/16 15:00		
COC Number		956426-05-01			956426-05-01		956426-05-01		
	UNITS	WC - 10 Lab-Dup	RDL	QC Batch	WC - 06	QC Batch	WC - 07	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L				<0.00010	9021361	<0.00010	0.00010	9020689
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	9020733	<0.10	9020733	<0.10	0.10	9020733
Dissolved Aluminum (Al)	ug/L				<4.9	9011646	<4.9	4.9	9011646
Total Aluminum (Al)	ug/L				5.4	9020292	5.2	4.9	9020292
Dissolved Antimony (Sb)	ug/L				<0.50	9011646	<0.50	0.50	9011646
Total Antimony (Sb)	ug/L				<0.50	9020292	<0.50	0.50	9020292
Dissolved Arsenic (As)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Arsenic (As)	ug/L				<1.0	9020292	<1.0	1.0	9020292
Dissolved Barium (Ba)	ug/L				13	9011646	11	2.0	9011646
Total Barium (Ba)	ug/L				13	9020292	11	2.0	9020292
Dissolved Beryllium (Be)	ug/L				<0.40	9011646	<0.40	0.40	9011646
Total Beryllium (Be)	ug/L				<0.40	9020292	<0.40	0.40	9020292
Dissolved Bismuth (Bi)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Bismuth (Bi)	ug/L				<1.0	9020292	<1.0	1.0	9020292
Dissolved Boron (B)	ug/L				<10	9011646	<10	10	9011646
Total Boron (B)	ug/L				<10	9020292	<10	10	9020292
Dissolved Cadmium (Cd)	ug/L				<0.090	9011646	<0.090	0.090	9011646
Total Cadmium (Cd)	ug/L				<0.090	9020292	<0.090	0.090	9020292
Dissolved Calcium (Ca)	ug/L				15000	9011646	9100	200	9011646
Total Calcium (Ca)	ug/L				15000	9020292	8700	200	9020292
Dissolved Cesium (Cs)	ug/L				<0.20	9011646	<0.20	0.20	9011646
Total Cesium (Cs)	ug/L				<0.20	9020292	<0.20	0.20	9020292
Dissolved Chromium (Cr)	ug/L				<5.0	9011646	<5.0	5.0	9011646
Total Chromium (Cr)	ug/L				<5.0	9020292	<5.0	5.0	9020292
Dissolved Cobalt (Co)	ug/L				<0.50	9011646	<0.50	0.50	9011646
Total Cobalt (Co)	ug/L				<0.50	9020292	<0.50	0.50	9020292
Dissolved Copper (Cu)	ug/L				<0.90	9011646	1.2	0.90	9011646
Total Copper (Cu)	ug/L				<0.90	9020292	<0.90	0.90	9020292
Dissolved Iron (Fe)	ug/L				<100	9011646	<100	100	9011646
Total Iron (Fe)	ug/L				<100	9020292	<100	100	9020292

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Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO110			XKO111		XKO112		
Sampling Date		2023/10/15 12:00			2023/10/16 11:00		2023/10/16 15:00		
COC Number		956426-05-01			956426-05-01		956426-05-01		
	UNITS	WC - 10 Lab-Dup	RDL	QC Batch	WC - 06	QC Batch	WC - 07	RDL	QC Batch
Dissolved Lead (Pb)	ug/L				<0.50	9011646	<0.50	0.50	9011646
Total Lead (Pb)	ug/L				<0.50	9020292	<0.50	0.50	9020292
Dissolved Lithium (Li)	ug/L				<5.0	9011646	<5.0	5.0	9011646
Total Lithium (Li)	ug/L				<5.0	9020292	<5.0	5.0	9020292
Dissolved Magnesium (Mg)	ug/L				7200	9011646	4600	50	9011646
Total Magnesium (Mg)	ug/L				7000	9020292	4400	50	9020292
Dissolved Manganese (Mn)	ug/L				6.8	9011646	5.0	2.0	9011646
Total Manganese (Mn)	ug/L				17	9020292	12	2.0	9020292
Dissolved Molybdenum (Mo)	ug/L				0.54	9011646	<0.50	0.50	9011646
Total Molybdenum (Mo)	ug/L				1.1	9020292	<0.50	0.50	9020292
Dissolved Nickel (Ni)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Nickel (Ni)	ug/L				<1.0	9020292	<1.0	1.0	9020292
Dissolved Phosphorus (P)	ug/L				<100	9011646	<100	100	9011646
Total Phosphorus (P)	ug/L				<100	9020292	<100	100	9020292
Dissolved Potassium (K)	ug/L				760	9011646	400	200	9011646
Total Potassium (K)	ug/L				760	9020292	350	200	9020292
Dissolved Rubidium (Rb)	ug/L				1.5	9011646	0.73	0.20	9011646
Total Rubidium (Rb)	ug/L				1.6	9020292	0.78	0.20	9020292
Dissolved Selenium (Se)	ug/L				<2.0	9011646	<2.0	2.0	9011646
Total Selenium (Se)	ug/L				<2.0	9020292	<2.0	2.0	9020292
Dissolved Silicon (Si)	ug/L				1700	9011646	1100	50	9011646
Total Silicon (Si)	ug/L				1600	9020292	1100	50	9020292
Dissolved Silver (Ag)	ug/L				<0.090	9011646	<0.090	0.090	9011646
Total Silver (Ag)	ug/L				<0.090	9020292	<0.090	0.090	9020292
Dissolved Sodium (Na)	ug/L				440	9011646	340	100	9011646
Total Sodium (Na)	ug/L				420	9020292	310	100	9020292
Dissolved Strontium (Sr)	ug/L				12	9011646	8.2	1.0	9011646
Total Strontium (Sr)	ug/L				12	9020292	8.0	1.0	9020292
Dissolved Tellurium (Te)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Tellurium (Te)	ug/L				<1.0	9020292	<1.0	1.0	9020292
Dissolved Thallium (Tl)	ug/L				<0.050	9011646	<0.050	0.050	9011646

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO110			XKO111		XKO112		
Sampling Date		2023/10/15 12:00			2023/10/16 11:00		2023/10/16 15:00		
COC Number		956426-05-01			956426-05-01		956426-05-01		
	UNITS	WC - 10 Lab-Dup	RDL	QC Batch	WC - 06	QC Batch	WC - 07	RDL	QC Batch
Total Thallium (Tl)	ug/L				<0.050	9020292	<0.050	0.050	9020292
Dissolved Thorium (Th)	ug/L				<2.0	9011646	<2.0	2.0	9011646
Total Thorium (Th)	ug/L				<2.0	9020292	<2.0	2.0	9020292
Dissolved Tin (Sn)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Tin (Sn)	ug/L				<1.0	9020292	<1.0	1.0	9020292
Dissolved Titanium (Ti)	ug/L				<5.0	9011646	<5.0	5.0	9011646
Total Titanium (Ti)	ug/L				<5.0	9020292	<5.0	5.0	9020292
Dissolved Tungsten (W)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Tungsten (W)	ug/L				<1.0	9020292	<1.0	1.0	9020292
Dissolved Uranium (U)	ug/L				<0.10	9011646	<0.10	0.10	9011646
Total Uranium (U)	ug/L				<0.10	9020292	<0.10	0.10	9020292
Dissolved Vanadium (V)	ug/L				<0.50	9011646	<0.50	0.50	9011646
Total Vanadium (V)	ug/L				<0.50	9020292	<0.50	0.50	9020292
Dissolved Zinc (Zn)	ug/L				13	9011646	<5.0	5.0	9011646
Total Zinc (Zn)	ug/L				27	9020292	<5.0	5.0	9020292
Dissolved Zirconium (Zr)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Zirconium (Zr)	ug/L				<1.0	9020292	<1.0	1.0	9020292

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO113		XKO114		XKO125		
Sampling Date		2023/10/17 11:00		2023/10/17		2023/10/21 13:15		
COC Number		956426-05-01		956426-05-01		956426-05-01		
	UNITS	WC - 08	QC Batch	DUP	QC Batch	MIL-02 NB	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9021361	<0.00010	9021361	<0.00010	0.00010	9021361
Dissolved Mercury (Hg)	ug/L	<0.10	9020733	<0.10	9019571	<0.10	0.10	9020733
Dissolved Aluminum (Al)	ug/L	<4.9	9011646	<4.9	9011646	<4.9	4.9	9011637
Total Aluminum (Al)	ug/L	5.2	9020292	<4.9	9020292	6.7	4.9	9020292
Dissolved Antimony (Sb)	ug/L	<0.50	9011646	<0.50	9011646	<0.50	0.50	9011637
Total Antimony (Sb)	ug/L	<0.50	9020292	<0.50	9020292	<0.50	0.50	9020292
Dissolved Arsenic (As)	ug/L	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011637
Total Arsenic (As)	ug/L	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Barium (Ba)	ug/L	14	9011646	16	9011646	11	2.0	9011637
Total Barium (Ba)	ug/L	13	9020292	14	9020292	8.8	2.0	9020292
Dissolved Beryllium (Be)	ug/L	<0.40	9011646	<0.40	9011646	<0.40	0.40	9011637
Total Beryllium (Be)	ug/L	<0.40	9020292	<0.40	9020292	<0.40	0.40	9020292
Dissolved Bismuth (Bi)	ug/L	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011637
Total Bismuth (Bi)	ug/L	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Boron (B)	ug/L	<10	9011646	<10	9011646	<10	10	9011637
Total Boron (B)	ug/L	<10	9020292	<10	9020292	<10	10	9020292
Dissolved Cadmium (Cd)	ug/L	<0.090	9011646	<0.090	9011646	<0.090	0.090	9011637
Total Cadmium (Cd)	ug/L	<0.090	9020292	<0.090	9020292	<0.090	0.090	9020292
Dissolved Calcium (Ca)	ug/L	10000	9011646	10000	9011646	8500	200	9011637
Total Calcium (Ca)	ug/L	9700	9020292	10000	9020292	7900	200	9020292
Dissolved Cesium (Cs)	ug/L	<0.20	9011646	<0.20	9011646	<0.20	0.20	9011637
Total Cesium (Cs)	ug/L	<0.20	9020292	<0.20	9020292	<0.20	0.20	9020292
Dissolved Chromium (Cr)	ug/L	<5.0	9011646	<5.0	9011646	<5.0	5.0	9011637
Total Chromium (Cr)	ug/L	<5.0	9020292	<5.0	9020292	<5.0	5.0	9020292
Dissolved Cobalt (Co)	ug/L	<0.50	9011646	<0.50	9011646	<0.50	0.50	9011637
Total Cobalt (Co)	ug/L	<0.50	9020292	<0.50	9020292	<0.50	0.50	9020292
Dissolved Copper (Cu)	ug/L	<0.90	9011646	1.4	9011646	1.2	0.90	9011637
Total Copper (Cu)	ug/L	<0.90	9020292	<0.90	9020292	<0.90	0.90	9020292
Dissolved Iron (Fe)	ug/L	<100	9011646	<100	9011646	<100	100	9011637
Total Iron (Fe)	ug/L	<100	9020292	<100	9020292	<100	100	9020292
Dissolved Lead (Pb)	ug/L	<0.50	9011646	<0.50	9011646	<0.50	0.50	9011637

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO113		XKO114		XKO125		
Sampling Date		2023/10/17 11:00		2023/10/17		2023/10/21 13:15		
COC Number		956426-05-01		956426-05-01		956426-05-01		
	UNITS	WC - 08	QC Batch	DUP	QC Batch	MIL-02 NB	RDL	QC Batch
Total Lead (Pb)	ug/L	<0.50	9020292	<0.50	9020292	<0.50	0.50	9020292
Dissolved Lithium (Li)	ug/L	<5.0	9011646	<5.0	9011646	<5.0	5.0	9011637
Total Lithium (Li)	ug/L	<5.0	9020292	<5.0	9020292	<5.0	5.0	9020292
Dissolved Magnesium (Mg)	ug/L	5100	9011646	5000	9011646	3700	50	9011637
Total Magnesium (Mg)	ug/L	4800	9020292	5000	9020292	3500	50	9020292
Dissolved Manganese (Mn)	ug/L	2.0	9011646	<2.0	9011646	<2.0	2.0	9011637
Total Manganese (Mn)	ug/L	15	9020292	16	9020292	4.6	2.0	9020292
Dissolved Molybdenum (Mo)	ug/L	0.66	9011646	0.72	9011646	0.77	0.50	9011637
Total Molybdenum (Mo)	ug/L	0.65	9020292	0.73	9020292	0.69	0.50	9020292
Dissolved Nickel (Ni)	ug/L	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011637
Total Nickel (Ni)	ug/L	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Phosphorus (P)	ug/L	<100	9011646	<100	9011646	<100	100	9011637
Total Phosphorus (P)	ug/L	<100	9020292	<100	9020292	<100	100	9020292
Dissolved Potassium (K)	ug/L	950	9011646	920	9011646	910	200	9011637
Total Potassium (K)	ug/L	850	9020292	900	9020292	840	200	9020292
Dissolved Rubidium (Rb)	ug/L	1.6	9011646	1.6	9011646	1.6	0.20	9011637
Total Rubidium (Rb)	ug/L	1.6	9020292	1.6	9020292	1.7	0.20	9020292
Dissolved Selenium (Se)	ug/L	<2.0	9011646	<2.0	9011646	<2.0	2.0	9011637
Total Selenium (Se)	ug/L	<2.0	9020292	<2.0	9020292	<2.0	2.0	9020292
Dissolved Silicon (Si)	ug/L	1600	9011646	1600	9011646	1800	50	9011637
Total Silicon (Si)	ug/L	1500	9020292	1600	9020292	1700	50	9020292
Dissolved Silver (Ag)	ug/L	<0.090	9011646	<0.090	9011646	<0.090	0.090	9011637
Total Silver (Ag)	ug/L	<0.090	9020292	<0.090	9020292	<0.090	0.090	9020292
Dissolved Sodium (Na)	ug/L	440	9011646	440	9011646	590	100	9011637
Total Sodium (Na)	ug/L	420	9020292	470	9020292	520	100	9020292
Dissolved Strontium (Sr)	ug/L	12	9011646	12	9011646	12	1.0	9011637
Total Strontium (Sr)	ug/L	12	9020292	13	9020292	12	1.0	9020292
Dissolved Tellurium (Te)	ug/L	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011637
Total Tellurium (Te)	ug/L	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Thallium (Tl)	ug/L	<0.050	9011646	<0.050	9011646	<0.050	0.050	9011637
Total Thallium (Tl)	ug/L	<0.050	9020292	<0.050	9020292	<0.050	0.050	9020292
Dissolved Thorium (Th)	ug/L	<2.0	9011646	<2.0	9011646	<2.0	2.0	9011637

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO113		XKO114		XKO125		
Sampling Date		2023/10/17 11:00		2023/10/17		2023/10/21 13:15		
COC Number		956426-05-01		956426-05-01		956426-05-01		
	UNITS	WC - 08	QC Batch	DUP	QC Batch	MIL-02 NB	RDL	QC Batch
Total Thorium (Th)	ug/L	<2.0	9020292	<2.0	9020292	<2.0	2.0	9020292
Dissolved Tin (Sn)	ug/L	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011637
Total Tin (Sn)	ug/L	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Titanium (Ti)	ug/L	<5.0	9011646	<5.0	9011646	<5.0	5.0	9011637
Total Titanium (Ti)	ug/L	<5.0	9020292	<5.0	9020292	<5.0	5.0	9020292
Dissolved Tungsten (W)	ug/L	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011637
Total Tungsten (W)	ug/L	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292
Dissolved Uranium (U)	ug/L	0.13	9011646	0.12	9011646	<0.10	0.10	9011637
Total Uranium (U)	ug/L	0.12	9020292	0.15	9020292	<0.10	0.10	9020292
Dissolved Vanadium (V)	ug/L	<0.50	9011646	<0.50	9011646	<0.50	0.50	9011637
Total Vanadium (V)	ug/L	<0.50	9020292	<0.50	9020292	<0.50	0.50	9020292
Dissolved Zinc (Zn)	ug/L	<5.0	9011646	<5.0	9011646	<5.0	5.0	9011637
Total Zinc (Zn)	ug/L	<5.0	9020292	<5.0	9020292	<5.0	5.0	9020292
Dissolved Zirconium (Zr)	ug/L	<1.0	9011646	<1.0	9011646	<1.0	1.0	9011637
Total Zirconium (Zr)	ug/L	<1.0	9020292	<1.0	9020292	<1.0	1.0	9020292

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO125			XKO126			XKO126		
Sampling Date		2023/10/21 13:15			2023/10/22 11:00			2023/10/22 11:00		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	MIL-02 NB Lab-Dup	RDL	QC Batch	MOL-02 NS	RDL	QC Batch	MOL-02 NS Lab-Dup	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L				<0.00010	0.00010	9020689	<0.00010	0.00010	9020689
Dissolved Mercury (Hg)	ug/L				<0.10	0.10	9020733			
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	9011637	6.9	4.9	9011646			
Total Aluminum (Al)	ug/L				9.4	4.9	9020292			
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9011637	<0.50	0.50	9011646			
Total Antimony (Sb)	ug/L				<0.50	0.50	9020292			
Dissolved Arsenic (As)	ug/L	<1.0	1.0	9011637	<1.0	1.0	9011646			
Total Arsenic (As)	ug/L				<1.0	1.0	9020292			
Dissolved Barium (Ba)	ug/L	8.9	2.0	9011637	8.5	2.0	9011646			
Total Barium (Ba)	ug/L				8.0	2.0	9020292			
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	9011637	<0.40	0.40	9011646			
Total Beryllium (Be)	ug/L				<0.40	0.40	9020292			
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	9011637	<1.0	1.0	9011646			
Total Bismuth (Bi)	ug/L				<1.0	1.0	9020292			
Dissolved Boron (B)	ug/L	<10	10	9011637	<10	10	9011646			
Total Boron (B)	ug/L				<10	10	9020292			
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	9011637	<0.090	0.090	9011646			
Total Cadmium (Cd)	ug/L				<0.090	0.090	9020292			
Dissolved Calcium (Ca)	ug/L	8600	200	9011637	6900	200	9011646			
Total Calcium (Ca)	ug/L				6600	200	9020292			
Dissolved Cesium (Cs)	ug/L	<0.20	0.20	9011637	<0.20	0.20	9011646			
Total Cesium (Cs)	ug/L				<0.20	0.20	9020292			
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	9011637	<5.0	5.0	9011646			
Total Chromium (Cr)	ug/L				<5.0	5.0	9020292			
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	9011637	<0.50	0.50	9011646			
Total Cobalt (Co)	ug/L				<0.50	0.50	9020292			
Dissolved Copper (Cu)	ug/L	1.2	0.90	9011637	0.93	0.90	9011646			
Total Copper (Cu)	ug/L				<0.90	0.90	9020292			
Dissolved Iron (Fe)	ug/L	<100	100	9011637	<100	100	9011646			
Total Iron (Fe)	ug/L				<100	100	9020292			

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QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO125			XKO126			XKO126		
Sampling Date		2023/10/21 13:15			2023/10/22 11:00			2023/10/22 11:00		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	MIL-02 NB Lab-Dup	RDL	QC Batch	MOL-02 NS	RDL	QC Batch	MOL-02 NS Lab-Dup	RDL	QC Batch
Dissolved Lead (Pb)	ug/L	<0.50	0.50	9011637	<0.50	0.50	9011646			
Total Lead (Pb)	ug/L				<0.50	0.50	9020292			
Dissolved Lithium (Li)	ug/L	<5.0	5.0	9011637	<5.0	5.0	9011646			
Total Lithium (Li)	ug/L				<5.0	5.0	9020292			
Dissolved Magnesium (Mg)	ug/L	3600	50	9011637	2700	50	9011646			
Total Magnesium (Mg)	ug/L				2700	50	9020292			
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	9011637	<2.0	2.0	9011646			
Total Manganese (Mn)	ug/L				3.2	2.0	9020292			
Dissolved Molybdenum (Mo)	ug/L	0.79	0.50	9011637	0.66	0.50	9011646			
Total Molybdenum (Mo)	ug/L				0.62	0.50	9020292			
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9011637	<1.0	1.0	9011646			
Total Nickel (Ni)	ug/L				<1.0	1.0	9020292			
Dissolved Phosphorus (P)	ug/L	<100	100	9011637	<100	100	9011646			
Total Phosphorus (P)	ug/L				<100	100	9020292			
Dissolved Potassium (K)	ug/L	900	200	9011637	1000	200	9011646			
Total Potassium (K)	ug/L				980	200	9020292			
Dissolved Rubidium (Rb)	ug/L	1.6	0.20	9011637	1.3	0.20	9011646			
Total Rubidium (Rb)	ug/L				1.3	0.20	9020292			
Dissolved Selenium (Se)	ug/L	<2.0	2.0	9011637	<2.0	2.0	9011646			
Total Selenium (Se)	ug/L				<2.0	2.0	9020292			
Dissolved Silicon (Si)	ug/L	1800	50	9011637	1700	50	9011646			
Total Silicon (Si)	ug/L				1600	50	9020292			
Dissolved Silver (Ag)	ug/L	<0.090	0.090	9011637	<0.090	0.090	9011646			
Total Silver (Ag)	ug/L				<0.090	0.090	9020292			
Dissolved Sodium (Na)	ug/L	570	100	9011637	690	100	9011646			
Total Sodium (Na)	ug/L				670	100	9020292			
Dissolved Strontium (Sr)	ug/L	12	1.0	9011637	13	1.0	9011646			
Total Strontium (Sr)	ug/L				13	1.0	9020292			
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	9011637	<1.0	1.0	9011646			
Total Tellurium (Te)	ug/L				<1.0	1.0	9020292			
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	9011637	<0.050	0.050	9011646			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO125			XKO126			XKO126		
Sampling Date		2023/10/21 13:15			2023/10/22 11:00			2023/10/22 11:00		
COC Number		956426-05-01			956426-05-01			956426-05-01		
	UNITS	**MIL-02 NB Lab-Dup**	**RDL**	**QC Batch**	**MOL-02 NS**	**RDL**	**QC Batch**	**MOL-02 NS Lab-Dup**	**RDL**	**QC Batch**
Total Thallium (Tl)	ug/L				<0.050	0.050	9020292			
Dissolved Thorium (Th)	ug/L	<2.0	2.0	9011637	<2.0	2.0	9011646			
Total Thorium (Th)	ug/L				<2.0	2.0	9020292			
Dissolved Tin (Sn)	ug/L	<1.0	1.0	9011637	<1.0	1.0	9011646			
Total Tin (Sn)	ug/L				<1.0	1.0	9020292			
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	9011637	<5.0	5.0	9011646			
Total Titanium (Ti)	ug/L				<5.0	5.0	9020292			
Dissolved Tungsten (W)	ug/L	<1.0	1.0	9011637	<1.0	1.0	9011646			
Total Tungsten (W)	ug/L				<1.0	1.0	9020292			
Dissolved Uranium (U)	ug/L	<0.10	0.10	9011637	<0.10	0.10	9011646			
Total Uranium (U)	ug/L				<0.10	0.10	9020292			
Dissolved Vanadium (V)	ug/L	<0.50	0.50	9011637	<0.50	0.50	9011646			
Total Vanadium (V)	ug/L				<0.50	0.50	9020292			
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9011637	<5.0	5.0	9011646			
Total Zinc (Zn)	ug/L				<5.0	5.0	9020292			
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	9011637	<1.0	1.0	9011646			
Total Zirconium (Zr)	ug/L				<1.0	1.0	9020292			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO127	XKO128	XKO129		XKO130		
Sampling Date		2023/10/22 11:15	2023/10/22 15:00	2023/10/22 15:15		2023/10/23 12:00		
COC Number		956426-05-01	956426-05-01	956426-05-01		956426-05-01		
	UNITS	MOL-02 NB	DL-02 NS	DL-02 NB	QC Batch	RL-02 NS	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	9021361	<0.00010	0.00010	9021361
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	<0.10	9020733	<0.10	0.10	9019571
Dissolved Aluminum (Al)	ug/L	6.2	13	12	9011646	<4.9	4.9	9011646
Total Aluminum (Al)	ug/L	9.8	28	29	9020292	<4.9	4.9	9020340
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	9011646	<0.50	0.50	9011646
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	9020292	<0.50	0.50	9020340
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	9011646	<1.0	1.0	9011646
Total Arsenic (As)	ug/L	<1.0	<1.0	<1.0	9020292	<1.0	1.0	9020340
Dissolved Barium (Ba)	ug/L	8.3	9.2	8.7	9011646	13	2.0	9011646
Total Barium (Ba)	ug/L	8.0	9.4	9.2	9020292	13	2.0	9020340
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	9011646	<0.40	0.40	9011646
Total Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	9020292	<0.40	0.40	9020340
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	9011646	<1.0	1.0	9011646
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	9020292	<1.0	1.0	9020340
Dissolved Boron (B)	ug/L	<10	<10	<10	9011646	<10	10	9011646
Total Boron (B)	ug/L	<10	<10	<10	9020292	<10	10	9020340
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	9011646	<0.090	0.090	9011646
Total Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	9020292	<0.090	0.090	9020340
Dissolved Calcium (Ca)	ug/L	7200	5400	5200	9011646	9400	200	9011646
Total Calcium (Ca)	ug/L	6500	5200	5100	9020292	9500	200	9020340
Dissolved Cesium (Cs)	ug/L	<0.20	<0.20	<0.20	9011646	<0.20	0.20	9011646
Total Cesium (Cs)	ug/L	<0.20	<0.20	<0.20	9020292	<0.20	0.20	9020340
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	9011646	<5.0	5.0	9011646
Total Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	9020292	<5.0	5.0	9020340
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	9011646	<0.50	0.50	9011646
Total Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	9020292	<0.50	0.50	9020340
Dissolved Copper (Cu)	ug/L	1.6	<0.90	1.3	9011646	1.4	0.90	9011646
Total Copper (Cu)	ug/L	<0.90	<0.90	<0.90	9020292	<0.90	0.90	9020340
Dissolved Iron (Fe)	ug/L	<100	<100	<100	9011646	<100	100	9011646
Total Iron (Fe)	ug/L	<100	<100	<100	9020292	<100	100	9020340
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	9011646	<0.50	0.50	9011646

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO127	XKO128	XKO129		XKO130		
Sampling Date		2023/10/22 11:15	2023/10/22 15:00	2023/10/22 15:15		2023/10/23 12:00		
COC Number		956426-05-01	956426-05-01	956426-05-01		956426-05-01		
	UNITS	MOL-02 NB	DL-02 NS	DL-02 NB	QC Batch	RL-02 NS	RDL	QC Batch
Total Lead (Pb)	ug/L	<0.50	<0.50	<0.50	9020292	<0.50	0.50	9020340
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	<5.0	9011646	<5.0	5.0	9011646
Total Lithium (Li)	ug/L	<5.0	<5.0	<5.0	9020292	<5.0	5.0	9020340
Dissolved Magnesium (Mg)	ug/L	2900	1500	1500	9011646	4600	50	9011646
Total Magnesium (Mg)	ug/L	2700	1500	1500	9020292	4600	50	9020340
Dissolved Manganese (Mn)	ug/L	<2.0	4.7	4.8	9011646	<2.0	2.0	9011646
Total Manganese (Mn)	ug/L	4.0	22	23	9020292	16	2.0	9020340
Dissolved Molybdenum (Mo)	ug/L	0.68	0.56	0.51	9011646	0.61	0.50	9011646
Total Molybdenum (Mo)	ug/L	0.66	<0.50	0.53	9020292	0.54	0.50	9020340
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	9011646	<1.0	1.0	9011646
Total Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	9020292	<1.0	1.0	9020340
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	9011646	<100	100	9011646
Total Phosphorus (P)	ug/L	<100	<100	<100	9020292	<100	100	9020340
Dissolved Potassium (K)	ug/L	1100	1100	1100	9011646	790	200	9011646
Total Potassium (K)	ug/L	950	1000	1000	9020292	770	200	9020340
Dissolved Rubidium (Rb)	ug/L	1.4	2.0	2.0	9011646	1.3	0.20	9011646
Total Rubidium (Rb)	ug/L	1.2	1.9	2.0	9020292	1.3	0.20	9020340
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	9011646	<2.0	2.0	9011646
Total Selenium (Se)	ug/L	<2.0	<2.0	<2.0	9020292	<2.0	2.0	9020340
Dissolved Silicon (Si)	ug/L	1700	2000	2000	9011646	1400	50	9011646
Total Silicon (Si)	ug/L	1600	2000	2000	9020292	1400	50	9020340
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	9011646	<0.090	0.090	9011646
Total Silver (Ag)	ug/L	<0.090	<0.090	<0.090	9020292	<0.090	0.090	9020340
Dissolved Sodium (Na)	ug/L	740	2200	2100	9011646	400	100	9011646
Total Sodium (Na)	ug/L	650	2000	2000	9020292	410	100	9020340
Dissolved Strontium (Sr)	ug/L	13	16	16	9011646	11	1.0	9011646
Total Strontium (Sr)	ug/L	13	16	16	9020292	11	1.0	9020340
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	9011646	<1.0	1.0	9011646
Total Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	9020292	<1.0	1.0	9020340
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	9011646	<0.050	0.050	9011646
Total Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	9020292	<0.050	0.050	9020340
Dissolved Thorium (Th)	ug/L	<2.0	<2.0	<2.0	9011646	<2.0	2.0	9011646

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO127	XKO128	XKO129		XKO130		
Sampling Date		2023/10/22 11:15	2023/10/22 15:00	2023/10/22 15:15		2023/10/23 12:00		
COC Number		956426-05-01	956426-05-01	956426-05-01		956426-05-01		
	UNITS	MOL-02 NB	DL-02 NS	DL-02 NB	QC Batch	RL-02 NS	RDL	QC Batch
Total Thorium (Th)	ug/L	<2.0	<2.0	<2.0	9020292	<2.0	2.0	9020340
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	9011646	<1.0	1.0	9011646
Total Tin (Sn)	ug/L	<1.0	<1.0	<1.0	9020292	<1.0	1.0	9020340
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	9011646	<5.0	5.0	9011646
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	9020292	<5.0	5.0	9020340
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	<1.0	9011646	<1.0	1.0	9011646
Total Tungsten (W)	ug/L	<1.0	<1.0	<1.0	9020292	<1.0	1.0	9020340
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	9011646	<0.10	0.10	9011646
Total Uranium (U)	ug/L	<0.10	<0.10	<0.10	9020292	<0.10	0.10	9020340
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	9011646	<0.50	0.50	9011646
Total Vanadium (V)	ug/L	<0.50	<0.50	<0.50	9020292	<0.50	0.50	9020340
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	9011646	<5.0	5.0	9011646
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	9020292	<5.0	5.0	9020340
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	9011646	<1.0	1.0	9011646
Total Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	9020292	<1.0	1.0	9020340

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO130			XKO131		XKO132		
Sampling Date		2023/10/23 12:00			2023/10/23 12:15		2023/10/23 15:00		
COC Number		956426-05-01			956426-05-01		956426-05-01		
	UNITS	RL-02 NS Lab-Dup	RDL	QC Batch	RL-02 NB	QC Batch	WC-16	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	0.00010	9021361	<0.00010	9021361	<0.00010	0.00010	9020689
Dissolved Mercury (Hg)	ug/L				<0.10	9020733	<0.10	0.10	9020733
Dissolved Aluminum (Al)	ug/L				<4.9	9011646	5.9	4.9	9011646
Total Aluminum (Al)	ug/L				<4.9	9020292	5.9	4.9	9018093
Dissolved Antimony (Sb)	ug/L				<0.50	9011646	<0.50	0.50	9011646
Total Antimony (Sb)	ug/L				<0.50	9020292	<0.50	0.50	9018093
Dissolved Arsenic (As)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Arsenic (As)	ug/L				<1.0	9020292	<1.0	1.0	9018093
Dissolved Barium (Ba)	ug/L				13	9011646	13	2.0	9011646
Total Barium (Ba)	ug/L				13	9020292	15	2.0	9018093
Dissolved Beryllium (Be)	ug/L				<0.40	9011646	<0.40	0.40	9011646
Total Beryllium (Be)	ug/L				<0.40	9020292	<0.40	0.40	9018093
Dissolved Bismuth (Bi)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Bismuth (Bi)	ug/L				<1.0	9020292	<1.0	1.0	9018093
Dissolved Boron (B)	ug/L				<10	9011646	<10	10	9011646
Total Boron (B)	ug/L				<10	9020292	<10	10	9018093
Dissolved Cadmium (Cd)	ug/L				<0.090	9011646	<0.090	0.090	9011646
Total Cadmium (Cd)	ug/L				<0.090	9020292	<0.090	0.090	9018093
Dissolved Calcium (Ca)	ug/L				9300	9011646	10000	200	9011646
Total Calcium (Ca)	ug/L				8900	9020292	11000	200	9018093
Dissolved Cesium (Cs)	ug/L				<0.20	9011646	<0.20	0.20	9011646
Total Cesium (Cs)	ug/L				<0.20	9020292	<0.20	0.20	9018093
Dissolved Chromium (Cr)	ug/L				<5.0	9011646	<5.0	5.0	9011646
Total Chromium (Cr)	ug/L				<5.0	9020292	<5.0	5.0	9018093
Dissolved Cobalt (Co)	ug/L				<0.50	9011646	<0.50	0.50	9011646
Total Cobalt (Co)	ug/L				<0.50	9020292	<0.50	0.50	9018093
Dissolved Copper (Cu)	ug/L				1.3	9011646	<0.90	0.90	9011646
Total Copper (Cu)	ug/L				<0.90	9020292	<0.90	0.90	9018093
Dissolved Iron (Fe)	ug/L				<100	9011646	<100	100	9011646
Total Iron (Fe)	ug/L				<100	9020292	<100	100	9018093

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO130			XKO131		XKO132		
Sampling Date		2023/10/23 12:00			2023/10/23 12:15		2023/10/23 15:00		
COC Number		956426-05-01			956426-05-01		956426-05-01		
	UNITS	RL-02 NS Lab-Dup	RDL	QC Batch	RL-02 NB	QC Batch	WC-16	RDL	QC Batch
Dissolved Lead (Pb)	ug/L				<0.50	9011646	<0.50	0.50	9011646
Total Lead (Pb)	ug/L				<0.50	9020292	<0.50	0.50	9018093
Dissolved Lithium (Li)	ug/L				<5.0	9011646	<5.0	5.0	9011646
Total Lithium (Li)	ug/L				<5.0	9020292	<5.0	5.0	9018093
Dissolved Magnesium (Mg)	ug/L				4600	9011646	4900	50	9011646
Total Magnesium (Mg)	ug/L				4400	9020292	5000	50	9018093
Dissolved Manganese (Mn)	ug/L				<2.0	9011646	3.0	2.0	9011646
Total Manganese (Mn)	ug/L				15	9020292	11	2.0	9018093
Dissolved Molybdenum (Mo)	ug/L				0.54	9011646	0.58	0.50	9011646
Total Molybdenum (Mo)	ug/L				0.56	9020292	0.54	0.50	9018093
Dissolved Nickel (Ni)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Nickel (Ni)	ug/L				<1.0	9020292	<1.0	1.0	9018093
Dissolved Phosphorus (P)	ug/L				<100	9011646	<100	100	9011646
Total Phosphorus (P)	ug/L				<100	9020292	<100	100	9018093
Dissolved Potassium (K)	ug/L				780	9011646	820	200	9011646
Total Potassium (K)	ug/L				720	9020292	850	200	9018093
Dissolved Rubidium (Rb)	ug/L				1.5	9011646	1.3	0.20	9011646
Total Rubidium (Rb)	ug/L				1.3	9020292	1.5	0.20	9018093
Dissolved Selenium (Se)	ug/L				<2.0	9011646	<2.0	2.0	9011646
Total Selenium (Se)	ug/L				<2.0	9020292	<2.0	2.0	9018093
Dissolved Silicon (Si)	ug/L				1400	9011646	1400	50	9011646
Total Silicon (Si)	ug/L				1300	9020292	1500	50	9018093
Dissolved Silver (Ag)	ug/L				<0.090	9011646	<0.090	0.090	9011646
Total Silver (Ag)	ug/L				<0.090	9020292	<0.090	0.090	9018093
Dissolved Sodium (Na)	ug/L				400	9011646	430	100	9011646
Total Sodium (Na)	ug/L				380	9020292	420	100	9018093
Dissolved Strontium (Sr)	ug/L				11	9011646	11	1.0	9011646
Total Strontium (Sr)	ug/L				11	9020292	11	1.0	9018093
Dissolved Tellurium (Te)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Tellurium (Te)	ug/L				<1.0	9020292	<1.0	1.0	9018093
Dissolved Thallium (Tl)	ug/L				<0.050	9011646	<0.050	0.050	9011646

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO130			XKO131		XKO132		
Sampling Date		2023/10/23 12:00			2023/10/23 12:15		2023/10/23 15:00		
COC Number		956426-05-01			956426-05-01		956426-05-01		
	UNITS	RL-02 NS Lab-Dup	RDL	QC Batch	RL-02 NB	QC Batch	WC-16	RDL	QC Batch
Total Thallium (Tl)	ug/L				<0.050	9020292	<0.050	0.050	9018093
Dissolved Thorium (Th)	ug/L				<2.0	9011646	<2.0	2.0	9011646
Total Thorium (Th)	ug/L				<2.0	9020292	<2.0	2.0	9018093
Dissolved Tin (Sn)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Tin (Sn)	ug/L				<1.0	9020292	<1.0	1.0	9018093
Dissolved Titanium (Ti)	ug/L				<5.0	9011646	<5.0	5.0	9011646
Total Titanium (Ti)	ug/L				<5.0	9020292	<5.0	5.0	9018093
Dissolved Tungsten (W)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Tungsten (W)	ug/L				<1.0	9020292	<1.0	1.0	9018093
Dissolved Uranium (U)	ug/L				<0.10	9011646	<0.10	0.10	9011646
Total Uranium (U)	ug/L				<0.10	9020292	<0.10	0.10	9018093
Dissolved Vanadium (V)	ug/L				<0.50	9011646	<0.50	0.50	9011646
Total Vanadium (V)	ug/L				<0.50	9020292	<0.50	0.50	9018093
Dissolved Zinc (Zn)	ug/L				<5.0	9011646	53	5.0	9011646
Total Zinc (Zn)	ug/L				<5.0	9020292	<5.0	5.0	9018093
Dissolved Zirconium (Zr)	ug/L				<1.0	9011646	<1.0	1.0	9011646
Total Zirconium (Zr)	ug/L				<1.0	9020292	<1.0	1.0	9018093

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO133		XKO134		XKO135		XKO136		
Sampling Date		2023/10/24 11:00		2023/10/24 11:30		2023/10/24 14:00		2023/10/24 14:15		
COC Number		956426-05-01		956426-05-01		956426-05-01		956426-05-01		
	UNITS	LL-02 NS	QC Batch	LL-02 NB	QC Batch	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L	<0.00010	9020689	<0.00010	9020689	<0.00010	9020689	<0.00010	0.00010	9021361
Dissolved Mercury (Hg)	ug/L	<0.10	9019571	<0.10	9020733	<0.10	9020733	<0.10	0.10	9020733
Dissolved Aluminum (Al)	ug/L	6.7	9011646	8.2	9011637	8.1	9011646	9.1	4.9	9011646
Total Aluminum (Al)	ug/L	13	9020292	17	9018093	20	9018093	18	4.9	9020292
Dissolved Antimony (Sb)	ug/L	<0.50	9011646	<0.50	9011637	<0.50	9011646	<0.50	0.50	9011646
Total Antimony (Sb)	ug/L	<0.50	9020292	<0.50	9018093	<0.50	9018093	<0.50	0.50	9020292
Dissolved Arsenic (As)	ug/L	<1.0	9011646	<1.0	9011637	<1.0	9011646	<1.0	1.0	9011646
Total Arsenic (As)	ug/L	<1.0	9020292	<1.0	9018093	<1.0	9018093	<1.0	1.0	9020292
Dissolved Barium (Ba)	ug/L	10	9011646	10	9011637	10	9011646	9.8	2.0	9011646
Total Barium (Ba)	ug/L	10	9020292	11	9018093	12	9018093	9.9	2.0	9020292
Dissolved Beryllium (Be)	ug/L	<0.40	9011646	<0.40	9011637	<0.40	9011646	<0.40	0.40	9011646
Total Beryllium (Be)	ug/L	<0.40	9020292	<0.40	9018093	<0.40	9018093	<0.40	0.40	9020292
Dissolved Bismuth (Bi)	ug/L	<1.0	9011646	<1.0	9011637	<1.0	9011646	<1.0	1.0	9011646
Total Bismuth (Bi)	ug/L	<1.0	9020292	<1.0	9018093	<1.0	9018093	<1.0	1.0	9020292
Dissolved Boron (B)	ug/L	<10	9011646	<10	9011637	<10	9011646	<10	10	9011646
Total Boron (B)	ug/L	<10	9020292	<10	9018093	<10	9018093	<10	10	9020292
Dissolved Cadmium (Cd)	ug/L	<0.090	9011646	<0.090	9011637	<0.090	9011646	<0.090	0.090	9011646
Total Cadmium (Cd)	ug/L	<0.090	9020292	<0.090	9018093	<0.090	9018093	<0.090	0.090	9020292
Dissolved Calcium (Ca)	ug/L	8000	9011646	8300	9011637	7700	9011646	7500	200	9011646
Total Calcium (Ca)	ug/L	7800	9020292	8800	9018093	8600	9018093	7400	200	9020292
Dissolved Cesium (Cs)	ug/L	<0.20	9011646	<0.20	9011637	<0.20	9011646	<0.20	0.20	9011646
Total Cesium (Cs)	ug/L	<0.20	9020292	<0.20	9018093	<0.20	9018093	<0.20	0.20	9020292
Dissolved Chromium (Cr)	ug/L	<5.0	9011646	<5.0	9011637	<5.0	9011646	<5.0	5.0	9011646
Total Chromium (Cr)	ug/L	<5.0	9020292	<5.0	9018093	<5.0	9018093	<5.0	5.0	9020292
Dissolved Cobalt (Co)	ug/L	<0.50	9011646	<0.50	9011637	<0.50	9011646	<0.50	0.50	9011646
Total Cobalt (Co)	ug/L	<0.50	9020292	<0.50	9018093	<0.50	9018093	<0.50	0.50	9020292
Dissolved Copper (Cu)	ug/L	1.2	9011646	<0.90	9011637	1.1	9011646	1.2	0.90	9011646
Total Copper (Cu)	ug/L	<0.90	9020292	<0.90	9018093	<0.90	9018093	<0.90	0.90	9020292
Dissolved Iron (Fe)	ug/L	<100	9011646	<100	9011637	<100	9011646	<100	100	9011646
Total Iron (Fe)	ug/L	<100	9020292	<100	9018093	<100	9018093	<100	100	9020292
Dissolved Lead (Pb)	ug/L	<0.50	9011646	<0.50	9011637	<0.50	9011646	<0.50	0.50	9011646

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO133		XKO134		XKO135		XKO136		
Sampling Date		2023/10/24 11:00		2023/10/24 11:30		2023/10/24 14:00		2023/10/24 14:15		
COC Number		956426-05-01		956426-05-01		956426-05-01		956426-05-01		
	UNITS	LL-02 NS	QC Batch	LL-02 NB	QC Batch	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Total Lead (Pb)	ug/L	<0.50	9020292	<0.50	9018093	<0.50	9018093	<0.50	0.50	9020292
Dissolved Lithium (Li)	ug/L	<5.0	9011646	<5.0	9011637	<5.0	9011646	<5.0	5.0	9011646
Total Lithium (Li)	ug/L	<5.0	9020292	<5.0	9018093	<5.0	9018093	<5.0	5.0	9020292
Dissolved Magnesium (Mg)	ug/L	3300	9011646	3400	9011637	3200	9011646	3000	50	9011646
Total Magnesium (Mg)	ug/L	3300	9020292	3500	9018093	3400	9018093	3200	50	9020292
Dissolved Manganese (Mn)	ug/L	<2.0	9011646	<2.0	9011637	<2.0	9011646	<2.0	2.0	9011646
Total Manganese (Mn)	ug/L	11	9020292	12	9018093	12	9018093	10	2.0	9020292
Dissolved Molybdenum (Mo)	ug/L	0.63	9011646	<0.50	9011637	<0.50	9011646	<0.50	0.50	9011646
Total Molybdenum (Mo)	ug/L	0.57	9020292	<0.50	9018093	<0.50	9018093	<0.50	0.50	9020292
Dissolved Nickel (Ni)	ug/L	<1.0	9011646	<1.0	9011637	<1.0	9011646	<1.0	1.0	9011646
Total Nickel (Ni)	ug/L	<1.0	9020292	<1.0	9018093	<1.0	9018093	<1.0	1.0	9020292
Dissolved Phosphorus (P)	ug/L	<100	9011646	<100	9011637	<100	9011646	<100	100	9011646
Total Phosphorus (P)	ug/L	<100	9020292	<100	9018093	<100	9018093	<100	100	9020292
Dissolved Potassium (K)	ug/L	880	9011646	880	9011637	870	9011646	860	200	9011646
Total Potassium (K)	ug/L	840	9020292	960	9018093	970	9018093	850	200	9020292
Dissolved Rubidium (Rb)	ug/L	1.8	9011646	1.8	9011637	1.8	9011646	1.8	0.20	9011646
Total Rubidium (Rb)	ug/L	1.6	9020292	1.9	9018093	2.0	9018093	1.7	0.20	9020292
Dissolved Selenium (Se)	ug/L	<2.0	9011646	<2.0	9011637	<2.0	9011646	<2.0	2.0	9011646
Total Selenium (Se)	ug/L	<2.0	9020292	<2.0	9018093	<2.0	9018093	<2.0	2.0	9020292
Dissolved Silicon (Si)	ug/L	1400	9011646	1500	9011637	1400	9011646	1400	50	9011646
Total Silicon (Si)	ug/L	1400	9020292	1500	9018093	1500	9018093	1400	50	9020292
Dissolved Silver (Ag)	ug/L	<0.090	9011646	<0.090	9011637	<0.090	9011646	<0.090	0.090	9011646
Total Silver (Ag)	ug/L	<0.090	9020292	<0.090	9018093	<0.090	9018093	<0.090	0.090	9020292
Dissolved Sodium (Na)	ug/L	520	9011646	550	9011637	550	9011646	540	100	9011646
Total Sodium (Na)	ug/L	510	9020292	550	9018093	600	9018093	560	100	9020292
Dissolved Strontium (Sr)	ug/L	13	9011646	13	9011637	13	9011646	13	1.0	9011646
Total Strontium (Sr)	ug/L	13	9020292	13	9018093	14	9018093	13	1.0	9020292
Dissolved Tellurium (Te)	ug/L	<1.0	9011646	<1.0	9011637	<1.0	9011646	<1.0	1.0	9011646
Total Tellurium (Te)	ug/L	<1.0	9020292	<1.0	9018093	<1.0	9018093	<1.0	1.0	9020292
Dissolved Thallium (Tl)	ug/L	<0.050	9011646	<0.050	9011637	<0.050	9011646	<0.050	0.050	9011646
Total Thallium (Tl)	ug/L	<0.050	9020292	<0.050	9018093	<0.050	9018093	<0.050	0.050	9020292
Dissolved Thorium (Th)	ug/L	<2.0	9011646	<2.0	9011637	<2.0	9011646	<2.0	2.0	9011646

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO133		XKO134		XKO135		XKO136		
Sampling Date		2023/10/24 11:00		2023/10/24 11:30		2023/10/24 14:00		2023/10/24 14:15		
COC Number		956426-05-01		956426-05-01		956426-05-01		956426-05-01		
	UNITS	LL-02 NS	QC Batch	LL-02 NB	QC Batch	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Total Thorium (Th)	ug/L	<2.0	9020292	<2.0	9018093	<2.0	9018093	<2.0	2.0	9020292
Dissolved Tin (Sn)	ug/L	<1.0	9011646	<1.0	9011637	<1.0	9011646	<1.0	1.0	9011646
Total Tin (Sn)	ug/L	<1.0	9020292	<1.0	9018093	<1.0	9018093	<1.0	1.0	9020292
Dissolved Titanium (Ti)	ug/L	<5.0	9011646	<5.0	9011637	<5.0	9011646	<5.0	5.0	9011646
Total Titanium (Ti)	ug/L	<5.0	9020292	<5.0	9018093	<5.0	9018093	<5.0	5.0	9020292
Dissolved Tungsten (W)	ug/L	<1.0	9011646	<1.0	9011637	<1.0	9011646	<1.0	1.0	9011646
Total Tungsten (W)	ug/L	<1.0	9020292	<1.0	9018093	<1.0	9018093	<1.0	1.0	9020292
Dissolved Uranium (U)	ug/L	<0.10	9011646	0.11	9011637	<0.10	9011646	0.11	0.10	9011646
Total Uranium (U)	ug/L	<0.10	9020292	0.11	9018093	0.11	9018093	0.10	0.10	9020292
Dissolved Vanadium (V)	ug/L	<0.50	9011646	<0.50	9011637	<0.50	9011646	<0.50	0.50	9011646
Total Vanadium (V)	ug/L	<0.50	9020292	<0.50	9018093	<0.50	9018093	<0.50	0.50	9020292
Dissolved Zinc (Zn)	ug/L	<5.0	9011646	<5.0	9011637	<5.0	9011646	<5.0	5.0	9011646
Total Zinc (Zn)	ug/L	<5.0	9020292	<5.0	9018093	<5.0	9018093	<5.0	5.0	9020292
Dissolved Zirconium (Zr)	ug/L	<1.0	9011646	<1.0	9011637	<1.0	9011646	<1.0	1.0	9011646
Total Zirconium (Zr)	ug/L	<1.0	9020292	<1.0	9018093	<1.0	9018093	<1.0	1.0	9020292

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO137		
Sampling Date		2023/10/24 15:45		
COC Number		956426-05-01		
	UNITS	BLANK	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00010	0.00010	9020689
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	9019571
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	9011646
Total Aluminum (Al)	ug/L	<4.9	4.9	9020292
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9011646
Total Antimony (Sb)	ug/L	<0.50	0.50	9020292
Dissolved Arsenic (As)	ug/L	<1.0	1.0	9011646
Total Arsenic (As)	ug/L	<1.0	1.0	9020292
Dissolved Barium (Ba)	ug/L	<2.0	2.0	9011646
Total Barium (Ba)	ug/L	<2.0	2.0	9020292
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	9011646
Total Beryllium (Be)	ug/L	<0.40	0.40	9020292
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	9011646
Total Bismuth (Bi)	ug/L	<1.0	1.0	9020292
Dissolved Boron (B)	ug/L	<10	10	9011646
Total Boron (B)	ug/L	<10	10	9020292
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	9011646
Total Cadmium (Cd)	ug/L	<0.090	0.090	9020292
Dissolved Calcium (Ca)	ug/L	<200	200	9011646
Total Calcium (Ca)	ug/L	<200	200	9020292
Dissolved Cesium (Cs)	ug/L	<0.20	0.20	9011646
Total Cesium (Cs)	ug/L	<0.20	0.20	9020292
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	9011646
Total Chromium (Cr)	ug/L	<5.0	5.0	9020292
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	9011646
Total Cobalt (Co)	ug/L	<0.50	0.50	9020292
Dissolved Copper (Cu)	ug/L	<0.90	0.90	9011646
Total Copper (Cu)	ug/L	<0.90	0.90	9020292
Dissolved Iron (Fe)	ug/L	<100	100	9011646
Total Iron (Fe)	ug/L	<100	100	9020292
Dissolved Lead (Pb)	ug/L	<0.50	0.50	9011646

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO137		
Sampling Date		2023/10/24 15:45		
COC Number		956426-05-01		
	UNITS	BLANK	RDL	QC Batch
Total Lead (Pb)	ug/L	<0.50	0.50	9020292
Dissolved Lithium (Li)	ug/L	<5.0	5.0	9011646
Total Lithium (Li)	ug/L	<5.0	5.0	9020292
Dissolved Magnesium (Mg)	ug/L	<50	50	9011646
Total Magnesium (Mg)	ug/L	<50	50	9020292
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	9011646
Total Manganese (Mn)	ug/L	<2.0	2.0	9020292
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	9011646
Total Molybdenum (Mo)	ug/L	<0.50	0.50	9020292
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9011646
Total Nickel (Ni)	ug/L	<1.0	1.0	9020292
Dissolved Phosphorus (P)	ug/L	<100	100	9011646
Total Phosphorus (P)	ug/L	<100	100	9020292
Dissolved Potassium (K)	ug/L	<200	200	9011646
Total Potassium (K)	ug/L	<200	200	9020292
Dissolved Rubidium (Rb)	ug/L	<0.20	0.20	9011646
Total Rubidium (Rb)	ug/L	<0.20	0.20	9020292
Dissolved Selenium (Se)	ug/L	<2.0	2.0	9011646
Total Selenium (Se)	ug/L	<2.0	2.0	9020292
Dissolved Silicon (Si)	ug/L	<50	50	9011646
Total Silicon (Si)	ug/L	<50	50	9020292
Dissolved Silver (Ag)	ug/L	<0.090	0.090	9011646
Total Silver (Ag)	ug/L	<0.090	0.090	9020292
Dissolved Sodium (Na)	ug/L	260	100	9011646
Total Sodium (Na)	ug/L	300	100	9020292
Dissolved Strontium (Sr)	ug/L	<1.0	1.0	9011646
Total Strontium (Sr)	ug/L	<1.0	1.0	9020292
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	9011646
Total Tellurium (Te)	ug/L	<1.0	1.0	9020292
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	9011646
Total Thallium (Tl)	ug/L	<0.050	0.050	9020292
Dissolved Thorium (Th)	ug/L	<2.0	2.0	9011646

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		XKO137		
Sampling Date		2023/10/24 15:45		
COC Number		956426-05-01		
	UNITS	BLANK	RDL	QC Batch
Total Thorium (Th)	ug/L	<2.0	2.0	9020292
Dissolved Tin (Sn)	ug/L	<1.0	1.0	9011646
Total Tin (Sn)	ug/L	<1.0	1.0	9020292
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	9011646
Total Titanium (Ti)	ug/L	<5.0	5.0	9020292
Dissolved Tungsten (W)	ug/L	<1.0	1.0	9011646
Total Tungsten (W)	ug/L	<1.0	1.0	9020292
Dissolved Uranium (U)	ug/L	<0.10	0.10	9011646
Total Uranium (U)	ug/L	<0.10	0.10	9020292
Dissolved Vanadium (V)	ug/L	<0.50	0.50	9011646
Total Vanadium (V)	ug/L	<0.50	0.50	9020292
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9011646
Total Zinc (Zn)	ug/L	5.8	5.0	9020292
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	9011646
Total Zirconium (Zr)	ug/L	<1.0	1.0	9020292

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO105
Sample ID: WC-15
Matrix: Water

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO105 Dup
Sample ID: WC-15
Matrix: Water

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO106
Sample ID: WC-14
Matrix: Water

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011620	N/A	2023/10/31	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9019822	2023/10/31	2023/11/01	Sachi Patel
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO107
Sample ID: WC-13
Matrix: Water

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9019822	2023/10/31	2023/11/01	Sachi Patel
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO107 Dup
Sample ID: WC-13
Matrix: Water

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel

Bureau Veritas ID: XKO108
Sample ID: WC-05
Matrix: Water

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO109
Sample ID: WC-12
Matrix: Water

Collected: 2023/10/14
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9019571	2023/10/31	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO110
Sample ID: WC - 10
Matrix: Water

Collected: 2023/10/15
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020181	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO110 Dup
Sample ID: WC - 10
Matrix: Water

Collected: 2023/10/15
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai

Bureau Veritas ID: XKO111
Sample ID: WC - 06
Matrix: Water

Collected: 2023/10/16
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel

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TEST SUMMARY

Bureau Veritas ID: XKO111 **Collected:** 2023/10/16
Sample ID: WC - 06 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO112 **Collected:** 2023/10/16
Sample ID: WC - 07 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020181	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO113 **Collected:** 2023/10/17
Sample ID: WC - 08 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9019822	2023/10/31	2023/11/01	Sachi Patel

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO113 **Collected:** 2023/10/17
Sample ID: WC - 08 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO114 **Collected:** 2023/10/17
Sample ID: DUP **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011811	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011809	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9019571	2023/10/31	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052715	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011803	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9010952	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO115 **Collected:** 2023/10/17
Sample ID: WC - 09 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011512	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan
Total Dissolved Solids	BAL	9011139	2023/10/27	2023/10/28	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO115 Dup **Collected:** 2023/10/17
Sample ID: WC - 09 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO116
Sample ID: WC - 02
Matrix: Water

Collected: 2023/10/18
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011512	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan
Total Dissolved Solids	BAL	9011139	2023/10/27	2023/10/28	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO117
Sample ID: WC - 01
Matrix: Water

Collected: 2023/10/19
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011504	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan
Total Dissolved Solids	BAL	9011139	2023/10/27	2023/10/28	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO118
Sample ID: PL-02 NS
Matrix: Water

Collected: 2023/10/19
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011504	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO118 **Collected:** 2023/10/19
Sample ID: PL-02 NS **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9011139	2023/10/27	2023/10/28	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO118 Dup **Collected:** 2023/10/19
Sample ID: PL-02 NS **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Total Dissolved Solids	BAL	9011139	2023/10/27	2023/10/28	Darshan Patel

Bureau Veritas ID: XKO119 **Collected:** 2023/10/19
Sample ID: PL-02 NB **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9013798	N/A	2023/11/01	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011512	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9013799	N/A	2023/11/01	Alina Dobreanu
Total Dissolved Solids	BAL	9011139	2023/10/27	2023/10/28	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO119 Dup **Collected:** 2023/10/19
Sample ID: PL-02 NB **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil

Bureau Veritas ID: XKO120 **Collected:** 2023/10/20
Sample ID: WC-03 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011504	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO120
Sample ID: WC-03
Matrix: Water

Collected: 2023/10/20
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan
Total Dissolved Solids	BAL	9011139	2023/10/27	2023/10/28	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO121
Sample ID: WC-04
Matrix: Water

Collected: 2023/10/21
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011504	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan
Total Dissolved Solids	BAL	9013590	2023/10/28	2023/10/31	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO122
Sample ID: MIL-03 NS
Matrix: Water

Collected: 2023/10/21
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011512	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan
Total Dissolved Solids	BAL	9013590	2023/10/28	2023/10/31	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO123
Sample ID: MIL-03 NB
Matrix: Water

Collected: 2023/10/21
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011504	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9020966	2023/11/01	2023/11/01	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan
Total Dissolved Solids	BAL	9013589	2023/10/30	2023/11/01	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO123 Dup
Sample ID: MIL-03 NB
Matrix: Water

Collected: 2023/10/21
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9013589	2023/10/30	2023/11/01	Razieh Tabesh

Bureau Veritas ID: XKO124
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2023/10/21
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9011503	N/A	2023/10/30	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9011799	N/A	2023/11/01	Massarat Jan
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9011504	N/A	2023/11/01	Gyulshen Idriz
Fluoride	ISE	9011027	2023/10/27	2023/10/27	Nachiketa Gohil
Hardness (calculated as CaCO3)		9010139	N/A	2023/10/31	Automated Statchk
Total Ammonia-N	SKAL/NH4	9010492	N/A	2023/10/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9011563	N/A	2023/10/28	Chandra Nandlal
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9011802	N/A	2023/11/01	Massarat Jan
Total Dissolved Solids	BAL	9013590	2023/10/28	2023/10/31	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2023/11/09	Ankita Bhalla
Un-ionized Ammonia	CALC/NH3	9011061	2023/11/09	2023/11/09	Automated Statchk

Bureau Veritas ID: XKO125
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2023/10/21
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011811	N/A	2023/10/29	Yogesh Patel

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO125
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2023/10/21
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9011809	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011637	N/A	2023/10/31	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011803	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9012166	2023/10/27	2023/10/30	Tina Teng

Bureau Veritas ID: XKO125 Dup
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2023/10/21
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9011811	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011809	N/A	2023/10/29	Yogesh Patel
Dissolved Metals by ICPMS	ICP/MS	9011637	N/A	2023/10/31	Azita Fazaeli
pH	AT	9011803	2023/10/27	2023/10/29	Yogesh Patel

Bureau Veritas ID: XKO126
Sample ID: MOL-02 NS
Matrix: Water

Collected: 2023/10/22
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9013462	2023/10/28	2023/10/31	Tina Teng

Bureau Veritas ID: XKO126 Dup
Sample ID: MOL-02 NS
Matrix: Water

Collected: 2023/10/22
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO127
Sample ID: MOL-02 NB
Matrix: Water

Collected: 2023/10/22
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020181	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9012166	2023/10/27	2023/10/30	Tina Teng

Bureau Veritas ID: XKO128
Sample ID: DL-02 NS
Matrix: Water

Collected: 2023/10/22
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9012166	2023/10/27	2023/10/30	Tina Teng

Bureau Veritas ID: XKO129
Sample ID: DL-02 NB
Matrix: Water

Collected: 2023/10/22
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO129
Sample ID: DL-02 NB
Matrix: Water

Collected: 2023/10/22
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9012166	2023/10/27	2023/10/30	Tina Teng

Bureau Veritas ID: XKO130
Sample ID: RL-02 NS
Matrix: Water

Collected: 2023/10/23
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9019571	2023/10/31	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020340	2023/11/01	2023/11/02	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9012166	2023/10/27	2023/10/30	Tina Teng

Bureau Veritas ID: XKO130 Dup
Sample ID: RL-02 NS
Matrix: Water

Collected: 2023/10/23
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai

Bureau Veritas ID: XKO131
Sample ID: RL-02 NB
Matrix: Water

Collected: 2023/10/23
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO131 **Collected:** 2023/10/23
Sample ID: RL-02 NB **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	9013462	2023/10/28	2023/10/31	Tina Teng

Bureau Veritas ID: XKO132 **Collected:** 2023/10/23
Sample ID: WC-16 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020181	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9018093	2023/10/31	2023/11/01	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9013462	2023/10/28	2023/10/31	Tina Teng

Bureau Veritas ID: XKO132 Dup **Collected:** 2023/10/23
Sample ID: WC-16 **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	9013462	2023/10/28	2023/10/31	Tina Teng

Bureau Veritas ID: XKO133 **Collected:** 2023/10/24
Sample ID: LL-02 NS **Shipped:**
Matrix: Water **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020181	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9019571	2023/10/31	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9012166	2023/10/27	2023/10/30	Tina Teng

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO134
Sample ID: LL-02 NB
Matrix: Water

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011811	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011809	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011637	N/A	2023/10/31	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9018093	2023/10/31	2023/11/01	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	9052717	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052716	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011803	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9012166	2023/10/27	2023/10/30	Tina Teng

Bureau Veritas ID: XKO134 Dup
Sample ID: LL-02 NB
Matrix: Water

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan

Bureau Veritas ID: XKO135
Sample ID: LL-03 NS
Matrix: Water

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9018093	2023/10/31	2023/11/01	Arefa Dabhad
Total Extractable Lanthanides-waters	ICP/MSMS	9052718	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052719	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9013462	2023/10/28	2023/10/31	Tina Teng

Bureau Veritas ID: XKO136
Sample ID: LL-03 NB
Matrix: Water

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020181	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9015175	N/A	2023/10/30	Surinder Rai

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKO136
Sample ID: LL-03 NB
Matrix: Water

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9015217	N/A	2023/10/30	Surinder Rai
Dissolved Mercury in Water by CVAA	CV/AA	9020733	2023/11/01	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9021361	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052718	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052719	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9015206	2023/10/30	2023/10/30	Surinder Rai
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9012166	2023/10/27	2023/10/30	Tina Teng

Bureau Veritas ID: XKO136 Dup
Sample ID: LL-03 NB
Matrix: Water

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9015175	N/A	2023/10/31	Surinder Rai
Conductivity	AT	9015217	N/A	2023/10/31	Surinder Rai
pH	AT	9015206	2023/10/30	2023/10/31	Surinder Rai

Bureau Veritas ID: XKO137
Sample ID: BLANK
Matrix: Water

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau
Alkalinity	AT	9011095	N/A	2023/10/29	Yogesh Patel
Conductivity	AT	9011104	N/A	2023/10/29	Yogesh Patel
Dissolved Mercury in Water by CVAA	CV/AA	9019571	2023/10/31	2023/11/01	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9020689	2023/11/01	2023/11/01	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9011646	N/A	2023/10/31	Indira HarryPaul
Total Metals Analysis by ICPMS	ICP/MS	9020292	2023/11/01	2023/11/01	Indira HarryPaul
Total Extractable Lanthanides-waters	ICP/MSMS	9052718	2023/11/03	2023/11/04	Darya Mitrofanova
Dissolved Lanthanides- waters	ICP/MSMS	9052719	N/A	2023/11/04	Darya Mitrofanova
pH	AT	9011106	2023/10/27	2023/10/29	Yogesh Patel
Total Phosphorus (Colourimetric)	SKAL/P	9012721	2023/10/27	2023/10/31	Muskan
Total Suspended Solids	BAL	9013462	2023/10/28	2023/10/31	Tina Teng

Bureau Veritas ID: XKO137 Dup
Sample ID: BLANK
Matrix: Water

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9020279	N/A	2023/11/01	Brent Boudreau

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.0°C
Package 2	5.0°C
Package 3	8.3°C
Package 4	5.3°C
Package 5	8.7°C
Package 6	5.3°C
Package 7	7.0°C
Package 8	5.7°C
Package 9	5.7°C

Revised Report [2024/11/12]: Sample ID amended as per client request.
TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample XKO105 [WC-15] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO106 [WC-14] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO107 [WC-13] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO108 [WC-05] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO109 [WC-12] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO110 [WC - 10] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO111 [WC - 06] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO112 [WC - 07] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO113 [WC - 08] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO114 [DUP] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample XKO123 [MIL-03 NB] : TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9010492	Total Ammonia-N	2023/10/27	99	75 - 125	101	80 - 120	<0.050	mg/L	0.74	20		
9010952	Total Suspended Solids	2023/10/28			97	80 - 120	<10	mg/L	NC	20		
9011027	Fluoride (F-)	2023/10/27	108	80 - 120	110	80 - 120	<0.10	mg/L	NC	20		
9011095	Alkalinity (Total as CaCO3)	2023/10/29			96	85 - 115	<1.0	mg/L	3.8	20		
9011104	Conductivity	2023/10/29			102	85 - 115	<1.0	umho/cm	0.11	10		
9011106	pH	2023/10/29			102	98 - 103			0.16	N/A		
9011139	Total Dissolved Solids	2023/10/28			95	80 - 120	<10	mg/L	0	20		
9011503	Dissolved Bromide (Br-)	2023/10/30	95	80 - 120	99	80 - 120	<1.0	mg/L	NC	20		
9011504	Dissolved Organic Carbon	2023/11/01	94	80 - 120	100	80 - 120	<0.40	mg/L	2.7	20		
9011512	Dissolved Organic Carbon	2023/11/01	96	80 - 120	99	80 - 120	<0.40	mg/L	2.2	20		
9011563	Nitrate (N)	2023/10/28	99	80 - 120	98	80 - 120	<0.10	mg/L	1.0	20		
9011563	Nitrite (N)	2023/10/28	107	80 - 120	103	80 - 120	<0.010	mg/L	NC	20		
9011620	Dissolved Aluminum (Al)	2023/10/31	99	80 - 120	99	80 - 120	<4.9	ug/L	NC	20		
9011620	Dissolved Antimony (Sb)	2023/10/31	105	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
9011620	Dissolved Arsenic (As)	2023/10/31	100	80 - 120	95	80 - 120	<1.0	ug/L	0.086	20		
9011620	Dissolved Barium (Ba)	2023/10/31	98	80 - 120	94	80 - 120	<2.0	ug/L	3.2	20		
9011620	Dissolved Beryllium (Be)	2023/10/31	100	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
9011620	Dissolved Bismuth (Bi)	2023/10/31	98	80 - 120	100	80 - 120	<1.0	ug/L				
9011620	Dissolved Boron (B)	2023/10/31	95	80 - 120	95	80 - 120	<10	ug/L	1.9	20		
9011620	Dissolved Cadmium (Cd)	2023/10/31	99	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
9011620	Dissolved Calcium (Ca)	2023/10/31	NC	80 - 120	102	80 - 120	<200	ug/L	0.75	20		
9011620	Dissolved Cesium (Cs)	2023/10/31	97	80 - 120	96	80 - 120	<0.20	ug/L				
9011620	Dissolved Chromium (Cr)	2023/10/31	97	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
9011620	Dissolved Cobalt (Co)	2023/10/31	96	80 - 120	96	80 - 120	<0.50	ug/L	1.0	20		
9011620	Dissolved Copper (Cu)	2023/10/31	97	80 - 120	95	80 - 120	<0.90	ug/L	NC	20		
9011620	Dissolved Iron (Fe)	2023/10/31	98	80 - 120	98	80 - 120	<100	ug/L	NC	20		
9011620	Dissolved Lead (Pb)	2023/10/31	93	80 - 120	94	80 - 120	<0.50	ug/L	NC	20		
9011620	Dissolved Lithium (Li)	2023/10/31	101	80 - 120	100	80 - 120	<5.0	ug/L				
9011620	Dissolved Magnesium (Mg)	2023/10/31	NC	80 - 120	94	80 - 120	<50	ug/L	0.66	20		
9011620	Dissolved Manganese (Mn)	2023/10/31	94	80 - 120	95	80 - 120	<2.0	ug/L	0.55	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9011620	Dissolved Molybdenum (Mo)	2023/10/31	104	80 - 120	98	80 - 120	<0.50	ug/L	0.16	20		
9011620	Dissolved Nickel (Ni)	2023/10/31	95	80 - 120	97	80 - 120	<1.0	ug/L	16	20		
9011620	Dissolved Phosphorus (P)	2023/10/31	103	80 - 120	95	80 - 120	<100	ug/L				
9011620	Dissolved Potassium (K)	2023/10/31	97	80 - 120	95	80 - 120	<200	ug/L	0.18	20		
9011620	Dissolved Rubidium (Rb)	2023/10/31	99	80 - 120	96	80 - 120	<0.20	ug/L				
9011620	Dissolved Selenium (Se)	2023/10/31	102	80 - 120	102	80 - 120	<2.0	ug/L	NC	20		
9011620	Dissolved Silicon (Si)	2023/10/31	98	80 - 120	99	80 - 120	<50	ug/L				
9011620	Dissolved Silver (Ag)	2023/10/31	77 (1)	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
9011620	Dissolved Sodium (Na)	2023/10/31	NC	80 - 120	95	80 - 120	<100	ug/L	1.9	20		
9011620	Dissolved Strontium (Sr)	2023/10/31	NC	80 - 120	96	80 - 120	<1.0	ug/L	0.51	20		
9011620	Dissolved Tellurium (Te)	2023/10/31	98	80 - 120	95	80 - 120	<1.0	ug/L				
9011620	Dissolved Thallium (Tl)	2023/10/31	94	80 - 120	96	80 - 120	<0.050	ug/L	NC	20		
9011620	Dissolved Thorium (Th)	2023/10/31	97	80 - 120	96	80 - 120	<2.0	ug/L				
9011620	Dissolved Tin (Sn)	2023/10/31	104	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
9011620	Dissolved Titanium (Ti)	2023/10/31	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
9011620	Dissolved Tungsten (W)	2023/10/31	104	80 - 120	100	80 - 120	<1.0	ug/L				
9011620	Dissolved Uranium (U)	2023/10/31	101	80 - 120	101	80 - 120	<0.10	ug/L	0.032	20		
9011620	Dissolved Vanadium (V)	2023/10/31	99	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
9011620	Dissolved Zinc (Zn)	2023/10/31	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
9011620	Dissolved Zirconium (Zr)	2023/10/31	105	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
9011637	Dissolved Aluminum (Al)	2023/10/31	102	80 - 120	100	80 - 120	<4.9	ug/L	NC	20		
9011637	Dissolved Antimony (Sb)	2023/10/31	102	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
9011637	Dissolved Arsenic (As)	2023/10/31	99	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
9011637	Dissolved Barium (Ba)	2023/10/31	99	80 - 120	96	80 - 120	<2.0	ug/L	18	20		
9011637	Dissolved Beryllium (Be)	2023/10/31	99	80 - 120	96	80 - 120	<0.40	ug/L	NC	20		
9011637	Dissolved Bismuth (Bi)	2023/10/31	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
9011637	Dissolved Boron (B)	2023/10/31	103	80 - 120	98	80 - 120	<10	ug/L	NC	20		
9011637	Dissolved Cadmium (Cd)	2023/10/31	98	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
9011637	Dissolved Calcium (Ca)	2023/10/31	105	80 - 120	102	80 - 120	<200	ug/L	1.3	20		
9011637	Dissolved Cesium (Cs)	2023/10/31	100	80 - 120	97	80 - 120	<0.20	ug/L	NC	20		
9011637	Dissolved Chromium (Cr)	2023/10/31	99	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9011637	Dissolved Cobalt (Co)	2023/10/31	98	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
9011637	Dissolved Copper (Cu)	2023/10/31	96	80 - 120	96	80 - 120	<0.90	ug/L	1.1	20		
9011637	Dissolved Iron (Fe)	2023/10/31	103	80 - 120	98	80 - 120	<100	ug/L	NC	20		
9011637	Dissolved Lead (Pb)	2023/10/31	95	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
9011637	Dissolved Lithium (Li)	2023/10/31	101	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
9011637	Dissolved Magnesium (Mg)	2023/10/31	99	80 - 120	96	80 - 120	<50	ug/L	2.1	20		
9011637	Dissolved Manganese (Mn)	2023/10/31	99	80 - 120	97	80 - 120	<2.0	ug/L	NC	20		
9011637	Dissolved Molybdenum (Mo)	2023/10/31	101	80 - 120	99	80 - 120	<0.50	ug/L	1.9	20		
9011637	Dissolved Nickel (Ni)	2023/10/31	98	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
9011637	Dissolved Phosphorus (P)	2023/10/31	101	80 - 120	98	80 - 120	<100	ug/L	NC	20		
9011637	Dissolved Potassium (K)	2023/10/31	102	80 - 120	97	80 - 120	<200	ug/L	0.69	20		
9011637	Dissolved Rubidium (Rb)	2023/10/31	101	80 - 120	98	80 - 120	<0.20	ug/L	0.19	20		
9011637	Dissolved Selenium (Se)	2023/10/31	100	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
9011637	Dissolved Silicon (Si)	2023/10/31	103	80 - 120	100	80 - 120	<50	ug/L	1.6	20		
9011637	Dissolved Silver (Ag)	2023/10/31	97	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
9011637	Dissolved Sodium (Na)	2023/10/31	100	80 - 120	97	80 - 120	<100	ug/L	2.3	20		
9011637	Dissolved Strontium (Sr)	2023/10/31	101	80 - 120	96	80 - 120	<1.0	ug/L	3.3	20		
9011637	Dissolved Tellurium (Te)	2023/10/31	100	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
9011637	Dissolved Thallium (Tl)	2023/10/31	96	80 - 120	95	80 - 120	<0.050	ug/L	NC	20		
9011637	Dissolved Thorium (Th)	2023/10/31	97	80 - 120	95	80 - 120	<2.0	ug/L	NC	20		
9011637	Dissolved Tin (Sn)	2023/10/31	103	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
9011637	Dissolved Titanium (Ti)	2023/10/31	102	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
9011637	Dissolved Tungsten (W)	2023/10/31	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
9011637	Dissolved Uranium (U)	2023/10/31	103	80 - 120	100	80 - 120	<0.10	ug/L	NC	20		
9011637	Dissolved Vanadium (V)	2023/10/31	100	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
9011637	Dissolved Zinc (Zn)	2023/10/31	98	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
9011637	Dissolved Zirconium (Zr)	2023/10/31	103	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
9011646	Dissolved Aluminum (Al)	2023/10/31	113	80 - 120	95	80 - 120	<4.9	ug/L	NC	20		
9011646	Dissolved Antimony (Sb)	2023/10/31	117	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
9011646	Dissolved Arsenic (As)	2023/10/31	114	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
9011646	Dissolved Barium (Ba)	2023/10/31	112	80 - 120	98	80 - 120	<2.0	ug/L	1.8	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9011646	Dissolved Beryllium (Be)	2023/10/31	111	80 - 120	95	80 - 120	<0.40	ug/L	NC	20		
9011646	Dissolved Bismuth (Bi)	2023/10/31	105	80 - 120	89	80 - 120	<1.0	ug/L	NC	20		
9011646	Dissolved Boron (B)	2023/10/31	108	80 - 120	93	80 - 120	<10	ug/L	NC	20		
9011646	Dissolved Cadmium (Cd)	2023/10/31	113	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
9011646	Dissolved Calcium (Ca)	2023/10/31	122 (1)	80 - 120	99	80 - 120	<200	ug/L	1.1	20		
9011646	Dissolved Cesium (Cs)	2023/10/31	116	80 - 120	100	80 - 120	<0.20	ug/L	NC	20		
9011646	Dissolved Chromium (Cr)	2023/10/31	113	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
9011646	Dissolved Cobalt (Co)	2023/10/31	113	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
9011646	Dissolved Copper (Cu)	2023/10/31	114	80 - 120	98	80 - 120	<0.90	ug/L	2.7	20		
9011646	Dissolved Iron (Fe)	2023/10/31	116	80 - 120	99	80 - 120	<100	ug/L	NC	20		
9011646	Dissolved Lead (Pb)	2023/10/31	110	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
9011646	Dissolved Lithium (Li)	2023/10/31	115	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
9011646	Dissolved Magnesium (Mg)	2023/10/31	114	80 - 120	96	80 - 120	<50	ug/L	1.7	20		
9011646	Dissolved Manganese (Mn)	2023/10/31	114	80 - 120	97	80 - 120	<2.0	ug/L	1.3	20		
9011646	Dissolved Molybdenum (Mo)	2023/10/31	118	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
9011646	Dissolved Nickel (Ni)	2023/10/31	113	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
9011646	Dissolved Phosphorus (P)	2023/10/31	118	80 - 120	99	80 - 120	<100	ug/L	NC	20		
9011646	Dissolved Potassium (K)	2023/10/31	117	80 - 120	100	80 - 120	<200	ug/L	0.61	20		
9011646	Dissolved Rubidium (Rb)	2023/10/31	113	80 - 120	97	80 - 120	<0.20	ug/L	5.9	20		
9011646	Dissolved Selenium (Se)	2023/10/31	114	80 - 120	96	80 - 120	<2.0	ug/L	NC	20		
9011646	Dissolved Silicon (Si)	2023/10/31	117	80 - 120	98	80 - 120	<50	ug/L	0.73	20		
9011646	Dissolved Silver (Ag)	2023/10/31	113	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
9011646	Dissolved Sodium (Na)	2023/10/31	114	80 - 120	97	80 - 120	<100	ug/L	1.1	20		
9011646	Dissolved Strontium (Sr)	2023/10/31	114	80 - 120	97	80 - 120	<1.0	ug/L	1.7	20		
9011646	Dissolved Tellurium (Te)	2023/10/31	112	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
9011646	Dissolved Thallium (Tl)	2023/10/31	111	80 - 120	92	80 - 120	<0.050	ug/L	NC	20		
9011646	Dissolved Thorium (Th)	2023/10/31	115	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
9011646	Dissolved Tin (Sn)	2023/10/31	119	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
9011646	Dissolved Titanium (Ti)	2023/10/31	114	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
9011646	Dissolved Tungsten (W)	2023/10/31	115	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
9011646	Dissolved Uranium (U)	2023/10/31	111	80 - 120	93	80 - 120	<0.10	ug/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9011646	Dissolved Vanadium (V)	2023/10/31	115	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
9011646	Dissolved Zinc (Zn)	2023/10/31	111	80 - 120	93	80 - 120	<5.0	ug/L	NC	20		
9011646	Dissolved Zirconium (Zr)	2023/10/31	122 (1)	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
9011799	Dissolved Chloride (Cl-)	2023/11/01	89	80 - 120	99	80 - 120	<1.0	mg/L	13	20		
9011802	Dissolved Sulphate (SO4)	2023/11/01	90	75 - 125	97	80 - 120	<1.0	mg/L	2.7	20		
9011803	pH	2023/10/29			102	98 - 103			0.32	N/A		
9011809	Conductivity	2023/10/29			101	85 - 115	<1.0	umho/cm	0.13	10		
9011811	Alkalinity (Total as CaCO3)	2023/10/29			96	85 - 115	<1.0	mg/L	1.9	20		
9012166	Total Suspended Solids	2023/10/30			99	80 - 120	<10	mg/L	5.4	20		
9012721	Total Phosphorus	2023/10/31	93	80 - 120	103	80 - 120	<0.020	mg/L	NC	20	97	80 - 120
9013462	Total Suspended Solids	2023/10/31			98	80 - 120	<10	mg/L	NC	20		
9013589	Total Dissolved Solids	2023/11/01			95	80 - 120	<10	mg/L	13	20		
9013590	Total Dissolved Solids	2023/10/31			97	80 - 120	<10	mg/L	13	20		
9013798	Dissolved Chloride (Cl-)	2023/11/01	NC	80 - 120	93	80 - 120	<1.0	mg/L	2.0	20		
9013799	Dissolved Sulphate (SO4)	2023/11/01	89	75 - 125	98	80 - 120	<1.0	mg/L	0.88	20		
9015175	Alkalinity (Total as CaCO3)	2023/10/31			98	85 - 115	<1.0	mg/L	0.61	20		
9015206	pH	2023/10/31			102	98 - 103			0.18	N/A		
9015217	Conductivity	2023/10/31			102	85 - 115	1.1, RDL=1.0	umho/cm	0.43	10		
9018093	Total Aluminum (Al)	2023/11/01	NC	80 - 120	107	80 - 120	<4.9	ug/L	6.2	20		
9018093	Total Antimony (Sb)	2023/11/01	112	80 - 120	106	80 - 120	<0.50	ug/L	7.8	20		
9018093	Total Arsenic (As)	2023/11/01	102	80 - 120	99	80 - 120	<1.0	ug/L	3.6	20		
9018093	Total Barium (Ba)	2023/11/01	106	80 - 120	101	80 - 120	<2.0	ug/L	1.7	20		
9018093	Total Beryllium (Be)	2023/11/01	109	80 - 120	106	80 - 120	<0.40	ug/L	NC	20		
9018093	Total Bismuth (Bi)	2023/11/01	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
9018093	Total Boron (B)	2023/11/01	NC	80 - 120	100	80 - 120	<10	ug/L	0.88	20		
9018093	Total Cadmium (Cd)	2023/11/01	102	80 - 120	100	80 - 120	<0.090	ug/L	18	20		
9018093	Total Calcium (Ca)	2023/11/01	NC	80 - 120	109	80 - 120	<200	ug/L	0.050	20		
9018093	Total Cesium (Cs)	2023/11/01	105	80 - 120	102	80 - 120	<0.20	ug/L				
9018093	Total Chromium (Cr)	2023/11/01	98	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9018093	Total Cobalt (Co)	2023/11/01	101	80 - 120	99	80 - 120	<0.50	ug/L	0.17	20		
9018093	Total Copper (Cu)	2023/11/01	104	80 - 120	103	80 - 120	<0.90	ug/L	17	20		
9018093	Total Iron (Fe)	2023/11/01	99	80 - 120	99	80 - 120	<100	ug/L	0.75	20		
9018093	Total Lead (Pb)	2023/11/01	97	80 - 120	98	80 - 120	<0.50	ug/L	6.1	20		
9018093	Total Lithium (Li)	2023/11/01	107	80 - 120	102	80 - 120	<5.0	ug/L	4.6	20		
9018093	Total Magnesium (Mg)	2023/11/01	NC	80 - 120	103	80 - 120	<50	ug/L	1.6	20		
9018093	Total Manganese (Mn)	2023/11/01	97	80 - 120	98	80 - 120	<2.0	ug/L	4.0	20		
9018093	Total Molybdenum (Mo)	2023/11/01	107	80 - 120	100	80 - 120	<0.50	ug/L	6.9	20		
9018093	Total Nickel (Ni)	2023/11/01	95	80 - 120	96	80 - 120	<1.0	ug/L	1.7	20		
9018093	Total Phosphorus (P)	2023/11/01	109	80 - 120	113	80 - 120	<100	ug/L				
9018093	Total Potassium (K)	2023/11/01	NC	80 - 120	106	80 - 120	<200	ug/L	0.12	20		
9018093	Total Rubidium (Rb)	2023/11/01	102	80 - 120	99	80 - 120	<0.20	ug/L				
9018093	Total Selenium (Se)	2023/11/01	101	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
9018093	Total Silicon (Si)	2023/11/01	115	80 - 120	106	80 - 120	<50	ug/L	0.74	20		
9018093	Total Silver (Ag)	2023/11/01	97	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
9018093	Total Sodium (Na)	2023/11/01	NC	80 - 120	104	80 - 120	<100	ug/L	1.1	20		
9018093	Total Strontium (Sr)	2023/11/01	NC	80 - 120	97	80 - 120	<1.0	ug/L	3.0	20		
9018093	Total Tellurium (Te)	2023/11/01	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
9018093	Total Thallium (Tl)	2023/11/01	101	80 - 120	101	80 - 120	<0.050	ug/L	NC	20		
9018093	Total Thorium (Th)	2023/11/01	100	80 - 120	96	80 - 120	<2.0	ug/L				
9018093	Total Tin (Sn)	2023/11/01	108	80 - 120	102	80 - 120	<1.0	ug/L	16	20		
9018093	Total Titanium (Ti)	2023/11/01	108	80 - 120	104	80 - 120	<5.0	ug/L	1.9	20		
9018093	Total Tungsten (W)	2023/11/01	107	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
9018093	Total Uranium (U)	2023/11/01	98	80 - 120	96	80 - 120	<0.10	ug/L	4.3	20		
9018093	Total Vanadium (V)	2023/11/01	102	80 - 120	98	80 - 120	<0.50	ug/L	0.90	20		
9018093	Total Zinc (Zn)	2023/11/01	97	80 - 120	96	80 - 120	<5.0	ug/L	0.26	20		
9018093	Total Zirconium (Zr)	2023/11/01	109	80 - 120	104	80 - 120	<1.0	ug/L	5.3	20		
9019571	Dissolved Mercury (Hg)	2023/11/01	102	75 - 125	102	80 - 120	<0.10	ug/L	NC	20		
9019822	Total Phosphorus	2023/11/01	98	80 - 120	103	80 - 120	<0.020	mg/L	2.0	20	104	80 - 120
9020181	Acidity	2023/11/01	104	80 - 120	104	80 - 120	<5.0	mg/L	NC	25		
9020279	Acidity	2023/11/01	107	80 - 120	105	80 - 120	<5.0	mg/L	NC	25		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9020292	Total Aluminum (Al)	2023/11/01	NC (2)	80 - 120	97	80 - 120	<4.9	ug/L	2.7	20		
9020292	Total Antimony (Sb)	2023/11/01	NC (2)	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
9020292	Total Arsenic (As)	2023/11/01	NC (2)	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
9020292	Total Barium (Ba)	2023/11/01	NC (2)	80 - 120	93	80 - 120	<2.0	ug/L	NC	20		
9020292	Total Beryllium (Be)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<0.40	ug/L	NC	20		
9020292	Total Bismuth (Bi)	2023/11/01	NC (2)	80 - 120	93	80 - 120	<1.0	ug/L	NC	20		
9020292	Total Boron (B)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<10	ug/L	3.0	20		
9020292	Total Cadmium (Cd)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
9020292	Total Calcium (Ca)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<200	ug/L	3.4	20		
9020292	Total Cesium (Cs)	2023/11/01	NC (2)	80 - 120	92	80 - 120	<0.20	ug/L				
9020292	Total Chromium (Cr)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
9020292	Total Cobalt (Co)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
9020292	Total Copper (Cu)	2023/11/01	NC (2)	80 - 120	92	80 - 120	<0.90	ug/L	NC	20		
9020292	Total Iron (Fe)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<100	ug/L	0.65	20		
9020292	Total Lead (Pb)	2023/11/01	NC (2)	80 - 120	94	80 - 120	<0.50	ug/L	NC	20		
9020292	Total Lithium (Li)	2023/11/01	NC (2)	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
9020292	Total Magnesium (Mg)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<50	ug/L	2.3	20		
9020292	Total Manganese (Mn)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<2.0	ug/L	0.55	20		
9020292	Total Molybdenum (Mo)	2023/11/01	NC (2)	80 - 120	99	80 - 120	<0.50	ug/L	3.1	20		
9020292	Total Nickel (Ni)	2023/11/01	NC (2)	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
9020292	Total Phosphorus (P)	2023/11/01	NC (2)	80 - 120	107	80 - 120	<100	ug/L	NC	20		
9020292	Total Potassium (K)	2023/11/01	NC (2)	80 - 120	93	80 - 120	<200	ug/L	4.1	20		
9020292	Total Rubidium (Rb)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<0.20	ug/L				
9020292	Total Selenium (Se)	2023/11/01	NC (2)	80 - 120	99	80 - 120	<2.0	ug/L	2.3	20		
9020292	Total Silicon (Si)	2023/11/01	NC (2)	80 - 120	97	80 - 120	<50	ug/L	3.8	20		
9020292	Total Silver (Ag)	2023/11/01	NC (2)	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
9020292	Total Sodium (Na)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<100	ug/L	1.8	20		
9020292	Total Strontium (Sr)	2023/11/01	NC (2)	80 - 120	97	80 - 120	<1.0	ug/L	0.19	20		
9020292	Total Tellurium (Te)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
9020292	Total Thallium (Tl)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<0.050	ug/L	NC	20		
9020292	Total Thorium (Th)	2023/11/01	NC (2)	80 - 120	94	80 - 120	<2.0	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9020292	Total Tin (Sn)	2023/11/01	NC (2)	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
9020292	Total Titanium (Ti)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
9020292	Total Tungsten (W)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
9020292	Total Uranium (U)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<0.10	ug/L	NC	20		
9020292	Total Vanadium (V)	2023/11/01	NC (2)	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
9020292	Total Zinc (Zn)	2023/11/01	NC (2)	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
9020292	Total Zirconium (Zr)	2023/11/01	NC (2)	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
9020340	Total Aluminum (Al)	2023/11/02	98	80 - 120	115	80 - 120	<4.9	ug/L				
9020340	Total Antimony (Sb)	2023/11/02	109	80 - 120	102	80 - 120	<0.50	ug/L				
9020340	Total Arsenic (As)	2023/11/02	102	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
9020340	Total Barium (Ba)	2023/11/02	99	80 - 120	93	80 - 120	<2.0	ug/L				
9020340	Total Beryllium (Be)	2023/11/02	100	80 - 120	94	80 - 120	<0.40	ug/L				
9020340	Total Bismuth (Bi)	2023/11/02	96	80 - 120	94	80 - 120	<1.0	ug/L				
9020340	Total Boron (B)	2023/11/02	100	80 - 120	92	80 - 120	<10	ug/L				
9020340	Total Cadmium (Cd)	2023/11/02	100	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
9020340	Total Calcium (Ca)	2023/11/02	NC	80 - 120	109	80 - 120	<200	ug/L				
9020340	Total Cesium (Cs)	2023/11/02	98	80 - 120	92	80 - 120	<0.20	ug/L				
9020340	Total Chromium (Cr)	2023/11/02	99	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
9020340	Total Cobalt (Co)	2023/11/02	100	80 - 120	95	80 - 120	<0.50	ug/L				
9020340	Total Copper (Cu)	2023/11/02	99	80 - 120	93	80 - 120	<0.90	ug/L	2.4	20		
9020340	Total Iron (Fe)	2023/11/02	100	80 - 120	96	80 - 120	<100	ug/L				
9020340	Total Lead (Pb)	2023/11/02	98	80 - 120	94	80 - 120	<0.50	ug/L	NC	20		
9020340	Total Lithium (Li)	2023/11/02	104	80 - 120	97	80 - 120	<5.0	ug/L				
9020340	Total Magnesium (Mg)	2023/11/02	97	80 - 120	96	80 - 120	<50	ug/L				
9020340	Total Manganese (Mn)	2023/11/02	98	80 - 120	94	80 - 120	<2.0	ug/L	11	20		
9020340	Total Molybdenum (Mo)	2023/11/02	106	80 - 120	98	80 - 120	<0.50	ug/L				
9020340	Total Nickel (Ni)	2023/11/02	99	80 - 120	95	80 - 120	<1.0	ug/L	4.4	20		
9020340	Total Phosphorus (P)	2023/11/02	102	80 - 120	92	80 - 120	<100	ug/L	NC	20		
9020340	Total Potassium (K)	2023/11/02	99	80 - 120	94	80 - 120	<200	ug/L				
9020340	Total Rubidium (Rb)	2023/11/02	100	80 - 120	95	80 - 120	<0.20	ug/L				
9020340	Total Selenium (Se)	2023/11/02	103	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9020340	Total Silicon (Si)	2023/11/02	99	80 - 120	93	80 - 120	<50	ug/L				
9020340	Total Silver (Ag)	2023/11/02	100	80 - 120	94	80 - 120	<0.090	ug/L	NC	20		
9020340	Total Sodium (Na)	2023/11/02	NC	80 - 120	94	80 - 120	<100	ug/L				
9020340	Total Strontium (Sr)	2023/11/02	NC	80 - 120	96	80 - 120	<1.0	ug/L				
9020340	Total Tellurium (Te)	2023/11/02	98	80 - 120	93	80 - 120	<1.0	ug/L				
9020340	Total Thallium (Tl)	2023/11/02	97	80 - 120	96	80 - 120	<0.050	ug/L				
9020340	Total Thorium (Th)	2023/11/02	103	80 - 120	98	80 - 120	<2.0	ug/L				
9020340	Total Tin (Sn)	2023/11/02	107	80 - 120	101	80 - 120	<1.0	ug/L				
9020340	Total Titanium (Ti)	2023/11/02	101	80 - 120	94	80 - 120	<5.0	ug/L				
9020340	Total Tungsten (W)	2023/11/02	102	80 - 120	97	80 - 120	<1.0	ug/L				
9020340	Total Uranium (U)	2023/11/02	99	80 - 120	97	80 - 120	<0.10	ug/L				
9020340	Total Vanadium (V)	2023/11/02	100	80 - 120	95	80 - 120	<0.50	ug/L				
9020340	Total Zinc (Zn)	2023/11/02	100	80 - 120	96	80 - 120	<5.0	ug/L	2.7	20		
9020340	Total Zirconium (Zr)	2023/11/02	104	80 - 120	97	80 - 120	<1.0	ug/L				
9020689	Mercury (Hg)	2023/11/01	102	75 - 125	103	80 - 120	<0.00010	mg/L	NC	20		
9020733	Dissolved Mercury (Hg)	2023/11/01	105	75 - 125	109	80 - 120	<0.10	ug/L	NC	20		
9020966	Fluoride (F-)	2023/11/01	95	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
9021361	Mercury (Hg)	2023/11/01	104	75 - 125	103	80 - 120	<0.00010	mg/L	NC	20		
9052715	Total Yttrium (Y)	2023/11/04			97	80 - 120	<2.0	ug/L				
9052716	Dissolved Yttrium (Y)	2023/11/04			110	80 - 120	<2.0	ug/L	NC	30		
9052717	Total Yttrium (Y)	2023/11/04			96	80 - 120	<2.0	ug/L				
9052718	Total Yttrium (Y)	2023/11/04			97	80 - 120	<2.0	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9052719	Dissolved Yttrium (Y)	2023/11/04			107	80 - 120	<2.0	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike exceeds acceptance limits, probable matrix interference

(2) Matrix Spike not calculated. Original sample and matrix spike sample were analyzed at a dilution, due to high target analytes, or sample matrix interference

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ankita Bhalla, Project Manager

Anastassia Hamanov, Supervisor-Afternoon Shift

Jonathan Fauvel, B.Sc, Chimiste, Scientific Specialist

Janah Rhyno, Scientific Specialist

Zineb El Ouali
Membre OCQ#2021-051

Zineb El Ouali, Analyst 1

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
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COOLER OBSERVATIONS:

BV JOB#: C3X5472

	YES	NO				
CUSTODY SEAL			COOLER ID	1		
PRESENT	✓		TEMP	5 (1)	6 (2)	10 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID	2		
PRESENT	✓		TEMP	6 (1)	5 (2)	4 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID	3		
PRESENT	✓		TEMP	9 (1)	8 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID	4		
PRESENT	✓		TEMP	7 (1)	5 (2)	4 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID	5		
PRESENT	✓		TEMP	8 (1)	9 (2)	9 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID	6		
PRESENT	✓		TEMP	7 (1)	4 (2)	5 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID	7		
PRESENT	✓		TEMP	7 (1)	6 (2)	8 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID	8		
PRESENT	✓		TEMP	6 (1)	5 (2)	6 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID			
PRESENT	✓		TEMP	7 (1)	5 (2)	5 (3)
INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

	YES	NO				
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID			
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Raven Ko	Raven Khemed	2023/10/26	14:06

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			956426
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#956426-05-03	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
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Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Total Suspended Solids	Total Phosphorus (Colourimetric)	Total Extractable Lanthanides-waters	Total Metals Analysis by ICPMS	Dissolved Lanthanides- waters	Dissolved Metals by ICPMS	Mercury in Water by CVAA	Dissolved Mercury in Water by CVAA	pH	Alkalinity	Acidity	Conductivity	# of Bottles	Comments
1		SC15	23/10/13	1200	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	
2		SC14	23/10/13	1330	SW															
3		SC13	23/10/13	1530	SW															
4		WC-05	23/10/13	1300	SW															
5		Davidson-01	23/10/14	1500	SW															
6		WC-10	23/10/15	1200	SW															
7		WC-06	23/10/16	1100	SW															
8		WC-07	23/10/16	1500	SW															
9		WC-08	23/10/17	1100	SW															
10		DUP	23/10/17	—	SW															

26-Oct-23 14:06
Ankita Bhalla
C3X5472
AK0 ENV-913

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
M. Hildebrandt	23/10/26	1345	Receipt Copy Brian Lingelbach	2023/10/26	14:06	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	4.1 4.1 ACTR	Present	✓	
		Intact		

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #: 956426
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #: C#956426-02-02	Project Manager: Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☐ Coarse; ☐ Table 3 ☐ Agri/Other ☐ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Total Dissolved Solids	Hardness (calculated as CaCO3)	Dissolved Organic Carbon (DOC)	Nitrate & Nitrite as Nitrogen in Water	Total Ammonia-N	Sulphate by Automated Turbidimetry	Anions	Chloride by Automated Colourimetry	Fluoride	Un-ionized Ammonia	# of Bottles	Comments
1		WC-09	23/10/17	1500	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	11	
2		WC-02	23/10/18	1400	SW													
3		WC-01	23/10/19	1245	SW													
4		Pike-02 1m	23/10/19	1500	SW													
5		Pike-02 8m	23/10/19	1515	SW													
6		WC-03	23/10/20	1200	SW													
7		WC-04	23/10/21	1200	SW													
8		Mills LP2 1m	23/10/21	1100	SW													
9		Mills LP2 25m	23/10/21	1115	SW													
10		Mills LP 1m	23/10/21	1300	SW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
M. Hildebrandt	23/10/26	1345	See Page 1						Present		
									Intact		

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #: 956426
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #: C#956426-04-03	Project Manager: Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558. ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality ____	
☐ Table ___	☐ PWQO ☐ Reg 406 Table ____	
	☐ Other ____	

Include Criteria on Certificate of Analysis (Y/N)? ____

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Total Suspended Solids	Total Phosphorus (Colourimetric)	Total Extractable Lanthanides-waters	Total Metals Analysis by ICPMS	Dissolved Lanthanides- waters	Dissolved Metals by ICPMS	Mercury in Water by CVAA	Dissolved Mercury in Water by CVAA	pH	Alkalinity	Acidity	Conductivity	# of Bottles	Comments
1		Mills LP 19m	23/10/21	1315	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	
2		Molar LP 1m	23/10/22	1100	SW														11	
3		Molar LP 27m	23/10/22	1115	SW														11	
4		DL 1m	23/10/22	1500	SW														11	
5		DL 9m	23/10/22	1515	SW														11	
6		Riordan-02 1m	23/10/23	1200	SW														11	
7		Riordan-02 14m	23/10/23	1215	SW														12	
8		SC12	23/10/23	1500	SW														11	
9		Long-02 1m	23/10/24	1100	SW														11	
10		Long-02 27m	23/10/24	1130	SW														11	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
M. Hildebrandt	23/10/26	1345	See Page 1			

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			956426
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#956426-03-03	Arkita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality ____	
☐ Table ___	☐ PWQO ☐ Reg 406 Table ____	
	☐ Other ____	

Include Criteria on Certificate of Analysis (Y/N)? ____

Turnaround Time (TAT) Required:
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Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Total Suspended Solids	Total Phosphorus (Colourimetric)	Total Extractable Lanthanides-waters	Total Metals Analysis by ICPMS	Dissolved Lanthanides- waters	Dissolved Metals by ICPMS	Mercury in Water by CVAA	Dissolved Mercury in Water by CVAA	pH	Alkalinity	Acidity	Conductivity	# of Bottles	Comments
1		Long-03 1m	23/10/24	1400	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	DI = Deionized water
2		Long-03 15m	23/10/24	1415	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	
3		BLANK	23/10/24	1545	DI	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	
4																				
5																				
6																				
7																				
8																				
9																				
10																				

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
M. Hildebrandt	23/10/26	1345	See Page 1			

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

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CHAIN OF CUSTODY RECORD

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Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			956426
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#956426-01-02	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Sampled By:	Michael Hildebrandt + Brian Lingelbach		

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Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☐ Coarse; ☐ Table 3 ☐ Agri/Other ☐ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ Other ___

Special Instructions

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Date Required: ___ Time Required: ___ ☐
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	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Total Dissolved Solids	Hardness (calculated as CaCO3)	Dissolved Organic Carbon (DOC)	Nitrate & Nitrite as Nitrogen in Water	Total Ammonia-N	Sulphate by Automated Turbidimetry	Anions	Chloride by Automated Colourimetry	Fluoride	Un-ionized Ammonia	# of Bottles	Comments
1		SC15	23/10/13	1200	SW	x / metals x / Hg	X	X	X	X	X	X	X	X	X	X	11	
2		SC14	23/10/13	1330	SW													
3		SC13	23/10/13	1530	SW													
4		WC-05	23/10/13	1300	SW													
5		DavianH-01	23/10/14	1500	SW													
6		WC-10	23/10/15	1200	SW													
7		WC-06	23/10/16	1100	SW													
8		WC-07	23/10/16	1500	SW													
9		WC-08	23/10/17	1100	SW													
10		DUP	23/10/17	—	SW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
M. Hildebrandt	23/10/26	1345							Present		
									Intact		

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CHAIN OF CUSTODY RECORD

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Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #: C#956426-05-03	Project Manager: Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

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Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
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☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ____
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1		SC15	23/10/13	1200	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	
2		SC14	23/10/13	1330	SW															
3		SC13	23/10/13	1530	SW															
4		WC-05	23/10/13	1300	SW															
5		Daviau H - 01	23/10/14	1500	SW															
6		WC-10	23/10/15	1200	SW															
7		WC-06	23/10/16	1100	SW															
8		WC-07	23/10/16	1500	SW															
9		WC-08	23/10/17	1100	SW															
10		DUP	23/10/17	—	SW															

26-Oct-23 14:06
Ankita Bhalla
C3X5472
AK0 ENV-913

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
M. Hildebrandt	23/10/26	1345	Rozenn Le Borgne	2023/10/26	14:06			1.1 1.1 ACTR	Intact	✓	

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Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			956426
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#956426-02-02	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Sampled By:	Michael Hildebrandt + Brian Lingenbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
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☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
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Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Total Dissolved Solids	Hardness (calculated as CaCO3)	Dissolved Organic Carbon (DOC)	Nitrate & Nitrite as Nitrogen in Water	Total Ammonia-N	Sulphate by Automated Turbidimetry	Anions	Chloride by Automated Colourimetry	Fluoride	Un-ionized Ammonia	# of Bottles	Comments
1		WC-09	23/10/17	1500	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	11	
2		WC-02	23/10/18	1400	SW													
3		WC-01	23/10/19	1245	SW													
4		Pike-02 1m	23/10/19	1500	SW													
5		Pike-02 8m	23/10/19	1515	SW													
6		WC-03	23/10/20	1200	SW													
7		WC-04	23/10/21	1200	SW													
8		Mills LP2 1m	23/10/21	1100	SW													
9		Mills LP2 25m	23/10/21	1115	SW													
10		Mills LP 1m	23/10/21	1300	SW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

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M. Hildebrandt	23/10/26	1345	See Payl			

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

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CHAIN OF CUSTODY RECORD

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Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			956426
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#956426-01-03	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

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☐ Table 1 ☐ Res/Park ☐ Medium/Fine
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Special Instructions

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6		WC-03	23/10/20	1200	SW														
7		WC-04	23/10/21	1200	SW														
8		Mills LP2 1m	23/10/21	1100	SW														
9		Mills LP2 25m	23/10/21	1115	SW														
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M. Hildebrandt	23/10/26	1345					Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
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Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			956426
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#956426-03-02	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Sampled By:	Michael Hildebrandt + Brian Lingelbach		

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1		Mills LP 19m	23/10/21	1315	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	11	
2		Molar LP 1m	23/10/22	1100	SW												11	
3		Molar LP 27m	23/10/22	1115	SW												11	
4		DL 1m	23/10/22	1500	SW												11	
5		DL 9m	23/10/22	1515	SW												11	
6		Riordan-02 1m	23/10/23	1200	SW												11	
7		Riordan-02 14m	23/10/23	1215	SW												12	
8		SC12	23/10/23	1500	SW												11	
9		Long-02 1m	23/10/24	1100	SW												11	
10		Long-02 27m	23/10/24	1130	SW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	11	

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M. Hildebrandt	23/10/26	1345				

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei | Custody Seal: Present / Intact | Yes | No

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	Mississauga ON L5N 7K2			Project Name:		C#956426-04-03	Ankita Bhalla
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3		BLANK	23/10/24	1545	DI	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	11	
4																		
5																		
6																		
7																		
8																		
9																		
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Bureau Veritas Canada (2019) Inc.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: #1326 WSP Canada Inc.	Company Name:	Quotation #: C31027	Bureau Veritas Job #: / Bottle Order #: 956426
Attention: Accounts Payable	Attention: Michael Hildebrandt	P.O. #:	
Address: 6925 Century Ave Suite 100, Mississauga ON L5N 7K2	Address:	Project: CA0003092.5894/500	COC #: C#956426-03-03 / Project Manager: Ankita Bhalla
Tel: (905) 567-4444 Fax: (905) 567-6561	Tel: Fax:	Project Name:	
Email: CAPayablesInvoice@wsp.com	Email: michael_hildebrandt@golder.com	Site #:	
		Sampled By: Michael Hildebrandt + Brian Lingelbach	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Total Suspended Solids	Total Phosphorus (Colourimetric)	Total Extractable Lanthanides-waters	Total Metals Analysis by ICPMS	Dissolved Lanthanides- waters	Dissolved Metals by ICPMS	Mercury in Water by CVAA	Dissolved Mercury in Water by CVAA	pH	Alkalinity	Acidity	Conductivity	# of Bottles	Comments
1		Long-03 1m	23/10/24	1400	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	DI = Deionized water
2		Long-03 15m	23/10/24	1415	SW	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	
3		BLANK	23/10/24	1545	DI	x1 metals x1 Hg	X	X	X	X	X	X	X	X	X	X	X	X	11	
4																				
5																				
6																				
7																				
8																				
9																				
10																				

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
M. Hildebrandt	23/10/26	1345	See Page 1						Present		
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

* SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0003092.5894/500
Your C.O.C. #: C#979992-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401249
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C488336
Received: 2024/03/25, 08:00

Sample Matrix: Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity (CaCO3) in water (1)	11	N/A	2024/03/28	ATL SOP-00205	SM 24 2310B m
Alkalinity	11	N/A	2024/03/26	CAM SOP-00448	SM 24 2320 B m
Anions	4	N/A	2024/03/26	CAM SOP-00435	SM 23 4110 B m
Anions	7	N/A	2024/03/27	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	11	N/A	2024/03/27	CAM SOP-00463	SM 24 4500-Cl E m
Conductivity	11	N/A	2024/03/26	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (3)	11	N/A	2024/03/25	CAM SOP-00446	SM 24 5310 B m
Fluoride	11	2024/03/25	2024/03/26	CAM SOP-00449	SM 24 4500-F C m
Hardness (calculated as CaCO3)	11	N/A	2024/04/01	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Mercury in Water by CVAA	11	2024/03/28	2024/04/01	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	1	2024/03/27	2024/03/27	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	10	2024/03/28	2024/04/01	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	11	N/A	2024/03/28	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	10	2024/03/28	2024/03/28	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	2024/03/28	2024/04/01	CAM SOP-00447	EPA 6020B m
Total Extractable Lanthanides-waters (2, 4)	11	2024/04/01	2024/04/01	STL SOP-00071	MA. 200-Met 1.2 R7 m
Dissolved Lanthanides- waters (2, 4)	10	N/A	2024/04/01	STL SOP-00071	MA 200-Met 1.2 R7 m
Dissolved Lanthanides- waters (2, 4)	1	N/A	2024/04/03	STL SOP-00071	MA 200-Met 1.2 R7 m
Total Ammonia-N	11	N/A	2024/03/27	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (5)	11	N/A	2024/03/26	CAM SOP-00440	SM 24 4500-NO3I/NO2B
pH (6)	11	2024/03/25	2024/03/26	CAM SOP-00413	SM 24th - 4500H+ B
Sulphate by Automated Turbidimetry	11	N/A	2024/03/27	CAM SOP-00464	SM 24 4500-SO42- E m
Total Dissolved Solids	8	2024/03/27	2024/03/28	CAM SOP-00428	SM 24 2540C m
Total Dissolved Solids	3	2024/04/01	2024/04/02	CAM SOP-00428	SM 24 2540C m
Total Phosphorus (Colourimetric)	11	2024/03/25	2024/03/27	CAM SOP-00407	SM 24 4500-P I
Total Suspended Solids	11	2024/03/27	2024/03/28	CAM SOP-00428	SM 24 2540D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau

Your Project #: CA0003092.5894/500
Your C.O.C. #: C#979992-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
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Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C488336
Received: 2024/03/25, 08:00

Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) This test was performed by Bureau Veritas Montreal., 889 Montée de Liesse , Ville St-Laurent, QC, H4T 1P5
(3) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(4) Non-accredited test method
(5) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(6) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

Your Project #: CA0003092.5894/500
Your C.O.C. #: C#979992-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
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Report Date: 2024/11/12
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CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C488336
Received: 2024/03/25, 08:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C488336
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK183			YSK183			YSK184		
Sampling Date		2024/03/20 12:00			2024/03/20 12:00			2024/03/20 13:00		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	LL-02 NS	RDL	QC Batch	LL-02 NS Lab-Dup	RDL	QC Batch	LL-02 NB	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	38	1.0	9294985				51	1.0	9294985
Inorganics										
Acidity	mg/L	<5.0	5.0	9302128				7.0	5.0	9302128
Total Ammonia-N	mg/L	<0.050	0.050	9297403				<0.050	0.050	9297403
Conductivity	mS/cm	0.078	0.001	9295623				0.103	0.001	9295623
Total Dissolved Solids	mg/L	55	10	9300454				50	10	9300454
Fluoride (F-)	mg/L	<0.10	0.10	9295630				<0.10	0.10	9295630
Dissolved Organic Carbon	mg/L	3.5	0.40	9295346				2.8	0.40	9295346
pH	pH	7.47		9295629				7.45		9295629
Total Phosphorus	mg/L	<0.020	0.020	9295899	<0.020	0.020	9295899	<0.020	0.020	9295899
Total Suspended Solids	mg/L	<10	10	9299440				<10	10	9299440
Dissolved Sulphate (SO4)	mg/L	3.1	1.0	9297758				3.3	1.0	9297758
Alkalinity (Total as CaCO3)	mg/L	37	1.0	9295628				49	1.0	9295628
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9297749				<1.0	1.0	9297749
Nitrite (N)	mg/L	<0.010	0.010	9295387				<0.010	0.010	9295387
Nitrate (N)	mg/L	<0.10	0.10	9295387				0.16	0.10	9295387
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9295387				0.16	0.10	9295387
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9297251				<1.0	1.0	9297521
Metals										
Dissolved Cerium (Ce)	ug/L	<0.30	0.30	9330926				<0.30	0.30	9330926
Dissolved Dysprosium (Dy)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Dissolved Erbium (Er)	ug/L	<0.50	0.50	9330926				<0.50	0.50	9330926
Dissolved Europium (Eu)	ug/L	<0.40	0.40	9330926				<0.40	0.40	9330926
Dissolved Gadolinium (Gd)	ug/L	<0.50	0.50	9330926				<0.50	0.50	9330926
Dissolved Holmium (Ho)	ug/L	<0.30	0.30	9330926				<0.30	0.30	9330926
Dissolved Iridium (Ir)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Dissolved Lanthanum (La)	ug/L	<0.30	0.30	9330926				<0.30	0.30	9330926
Dissolved Lutetium (Lu)	ug/L	<1.0	1.0	9330926				<1.0	1.0	9330926
Dissolved Neodymium (Nd)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Dissolved Gold (Au)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C488336
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK183			YSK183			YSK184		
Sampling Date		2024/03/20 12:00			2024/03/20 12:00			2024/03/20 13:00		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	LL-02 NS	RDL	QC Batch	LL-02 NS Lab-Dup	RDL	QC Batch	LL-02 NB	RDL	QC Batch
Dissolved Palladium (Pd)	ug/L	<1.0	1.0	9330926				<1.0	1.0	9330926
Dissolved Platinum (Pt)	ug/L	<3.0	3.0	9330926				<3.0	3.0	9330926
Dissolved Praseodymium (Pr)	ug/L	<0.40	0.40	9330926				<0.40	0.40	9330926
Dissolved Ruthenium (Ru)	ug/L	<0.20	0.20	9330926				<0.20	0.20	9330926
Dissolved Samarium (Sm)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Dissolved Scandium (Sc)	ug/L	<3.0	3.0	9330926				<3.0	3.0	9330926
Dissolved Tellurium (Te)	ug/L	<10	10	9330926				<10	10	9330926
Dissolved Terbium (Tb)	ug/L	<1.0	1.0	9330926				<1.0	1.0	9330926
Dissolved Thulium (Tm)	ug/L	<0.30	0.30	9330926				<0.30	0.30	9330926
Dissolved Ytterbium (Yb)	ug/L	<3.0	3.0	9330926				<3.0	3.0	9330926
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Total Yttrium (Y)	ug/L	<2.0	2.0	9330925				<2.0	2.0	9330925

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C488336
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK184			YSK185		YSK186		
Sampling Date		2024/03/20 13:00			2024/03/20 15:00		2024/03/20 16:00		
COC Number		C#979992-01-01			C#979992-01-01		C#979992-01-01		
	UNITS	LL-02 NB Lab-Dup	RDL	QC Batch	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				39	9294985	38	1.0	9294985
Inorganics									
Acidity	mg/L				<5.0	9302128	<5.0	5.0	9302128
Total Ammonia-N	mg/L	<0.050	0.050	9297403	<0.050	9297403	<0.050	0.050	9297403
Conductivity	mS/cm				0.082	9295623	0.080	0.001	9295623
Total Dissolved Solids	mg/L				55	9300454	50	10	9300454
Fluoride (F-)	mg/L				<0.10	9295630	<0.10	0.10	9295630
Dissolved Organic Carbon	mg/L				3.5	9295346	3.1	0.40	9295346
pH	pH				7.44	9295629	7.36		9295629
Total Phosphorus	mg/L				<0.020	9295899	<0.020	0.020	9295899
Total Suspended Solids	mg/L				<10	9299440	<10	10	9299440
Dissolved Sulphate (SO4)	mg/L				3.1	9297758	3.1	1.0	9297758
Alkalinity (Total as CaCO3)	mg/L				38	9295628	38	1.0	9295628
Dissolved Chloride (Cl-)	mg/L				<1.0	9297749	<1.0	1.0	9297749
Nitrite (N)	mg/L				<0.010	9295387	<0.010	0.010	9295387
Nitrate (N)	mg/L				<0.10	9295387	0.11	0.10	9295387
Nitrate + Nitrite (N)	mg/L				<0.10	9295387	0.11	0.10	9295387
Dissolved Bromide (Br-)	mg/L				<1.0	9297251	<1.0	1.0	9297521
Metals									
Dissolved Cerium (Ce)	ug/L				<0.30	9330926	<0.30	0.30	9330926
Dissolved Dysprosium (Dy)	ug/L				<2.0	9330926	<2.0	2.0	9330926
Dissolved Erbium (Er)	ug/L				<0.50	9330926	<0.50	0.50	9330926
Dissolved Europium (Eu)	ug/L				<0.40	9330926	<0.40	0.40	9330926
Dissolved Gadolinium (Gd)	ug/L				<0.50	9330926	<0.50	0.50	9330926
Dissolved Holmium (Ho)	ug/L				<0.30	9330926	<0.30	0.30	9330926
Dissolved Iridium (Ir)	ug/L				<2.0	9330926	<2.0	2.0	9330926
Dissolved Lanthanum (La)	ug/L				<0.30	9330926	<0.30	0.30	9330926
Dissolved Lutetium (Lu)	ug/L				<1.0	9330926	<1.0	1.0	9330926
Dissolved Neodymium (Nd)	ug/L				<2.0	9330926	<2.0	2.0	9330926
Dissolved Gold (Au)	ug/L				<2.0	9330926	<2.0	2.0	9330926

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK184			YSK185		YSK186		
Sampling Date		2024/03/20 13:00			2024/03/20 15:00		2024/03/20 16:00		
COC Number		C#979992-01-01			C#979992-01-01		C#979992-01-01		
	UNITS	LL-02 NB Lab-Dup	RDL	QC Batch	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Dissolved Palladium (Pd)	ug/L				<1.0	9330926	<1.0	1.0	9330926
Dissolved Platinum (Pt)	ug/L				<3.0	9330926	<3.0	3.0	9330926
Dissolved Praseodymium (Pr)	ug/L				<0.40	9330926	<0.40	0.40	9330926
Dissolved Ruthenium (Ru)	ug/L				<0.20	9330926	<0.20	0.20	9330926
Dissolved Samarium (Sm)	ug/L				<2.0	9330926	<2.0	2.0	9330926
Dissolved Scandium (Sc)	ug/L				<3.0	9330926	<3.0	3.0	9330926
Dissolved Tellurium (Te)	ug/L				<10	9330926	<10	10	9330926
Dissolved Terbium (Tb)	ug/L				<1.0	9330926	<1.0	1.0	9330926
Dissolved Thulium (Tm)	ug/L				<0.30	9330926	<0.30	0.30	9330926
Dissolved Ytterbium (Yb)	ug/L				<3.0	9330926	<3.0	3.0	9330926
Dissolved Yttrium (Y)	ug/L				<2.0	9330926	<2.0	2.0	9330926
Total Yttrium (Y)	ug/L				<2.0	9330925	<2.0	2.0	9330925

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK187		YSK188		YSK189		
Sampling Date		2024/03/20 17:30		2024/03/21 11:30		2024/03/21 14:30		
COC Number		C#979992-01-01		C#979992-01-01		C#979992-01-01		
	UNITS	WC-09	QC Batch	WC-01	QC Batch	WC-02	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	33	9294985	63	9294985	48	1.0	9294985
Inorganics								
Acidity	mg/L	<5.0	9302128	<5.0	9302128	8.0	5.0	9302128
Total Ammonia-N	mg/L	<0.050	9297403	<0.050	9297403	<0.050	0.050	9297403
Conductivity	mS/cm	0.074	9295623	0.134	9295623	0.103	0.001	9295623
Total Dissolved Solids	mg/L	70	9306800	100	9300454	50	10	9300454
Fluoride (F-)	mg/L	<0.10	9295630	<0.10	9295630	<0.10	0.10	9295630
Dissolved Organic Carbon	mg/L	3.5	9295346	2.2	9295346	4.0	0.40	9295346
pH	pH	7.35	9295629	7.47	9295629	7.22		9295629
Total Phosphorus	mg/L	<0.020	9295899	<0.020	9295899	<0.020	0.020	9295899
Total Suspended Solids	mg/L	<10	9299440	<10	9299440	<10	10	9299440
Dissolved Sulphate (SO4)	mg/L	3.3	9297758	5.0	9297758	4.0	1.0	9297758
Alkalinity (Total as CaCO3)	mg/L	33	9295628	62	9295628	48	1.0	9295628
Dissolved Chloride (Cl-)	mg/L	<1.0	9297749	<1.0	9297749	<1.0	1.0	9297749
Nitrite (N)	mg/L	<0.010	9295387	<0.010	9295387	<0.010	0.010	9295387
Nitrate (N)	mg/L	0.27	9295387	<0.10	9295387	0.16	0.10	9295387
Nitrate + Nitrite (N)	mg/L	0.27	9295387	<0.10	9295387	0.16	0.10	9295387
Dissolved Bromide (Br-)	mg/L	<1.0	9297251	<1.0	9297521	<1.0	1.0	9297251
Metals								
Dissolved Cerium (Ce)	ug/L	<0.30	9330926	<0.30	9330926	<0.30	0.30	9330926
Dissolved Dysprosium (Dy)	ug/L	<2.0	9330926	<2.0	9330926	<2.0	2.0	9330926
Dissolved Erbium (Er)	ug/L	<0.50	9330926	<0.50	9330926	<0.50	0.50	9330926
Dissolved Europium (Eu)	ug/L	<0.40	9330926	<0.40	9330926	<0.40	0.40	9330926
Dissolved Gadolinium (Gd)	ug/L	<0.50	9330926	<0.50	9330926	<0.50	0.50	9330926
Dissolved Holmium (Ho)	ug/L	<0.30	9330926	<0.30	9330926	<0.30	0.30	9330926
Dissolved Iridium (Ir)	ug/L	<2.0	9330926	<2.0	9330926	<2.0	2.0	9330926
Dissolved Lanthanum (La)	ug/L	<0.30	9330926	<0.30	9330926	<0.30	0.30	9330926
Dissolved Lutetium (Lu)	ug/L	<1.0	9330926	<1.0	9330926	<1.0	1.0	9330926
Dissolved Neodymium (Nd)	ug/L	<2.0	9330926	<2.0	9330926	<2.0	2.0	9330926
Dissolved Gold (Au)	ug/L	<2.0	9330926	<2.0	9330926	<2.0	2.0	9330926
Dissolved Palladium (Pd)	ug/L	<1.0	9330926	<1.0	9330926	<1.0	1.0	9330926

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK187		YSK188		YSK189		
Sampling Date		2024/03/20 17:30		2024/03/21 11:30		2024/03/21 14:30		
COC Number		C#979992-01-01		C#979992-01-01		C#979992-01-01		
	UNITS	WC-09	QC Batch	WC-01	QC Batch	WC-02	RDL	QC Batch
Dissolved Platinum (Pt)	ug/L	<3.0	9330926	<3.0	9330926	<3.0	3.0	9330926
Dissolved Praseodymium (Pr)	ug/L	<0.40	9330926	<0.40	9330926	<0.40	0.40	9330926
Dissolved Ruthenium (Ru)	ug/L	<0.20	9330926	<0.20	9330926	<0.20	0.20	9330926
Dissolved Samarium (Sm)	ug/L	<2.0	9330926	<2.0	9330926	<2.0	2.0	9330926
Dissolved Scandium (Sc)	ug/L	<3.0	9330926	<3.0	9330926	<3.0	3.0	9330926
Dissolved Tellurium (Te)	ug/L	<10	9330926	<10	9330926	<10	10	9330926
Dissolved Terbium (Tb)	ug/L	<1.0	9330926	<1.0	9330926	<1.0	1.0	9330926
Dissolved Thulium (Tm)	ug/L	<0.30	9330926	<0.30	9330926	<0.30	0.30	9330926
Dissolved Ytterbium (Yb)	ug/L	<3.0	9330926	<3.0	9330926	<3.0	3.0	9330926
Dissolved Yttrium (Y)	ug/L	<2.0	9330926	<2.0	9330926	<2.0	2.0	9330926
Total Yttrium (Y)	ug/L	<2.0	9330925	<2.0	9330925	<2.0	2.0	9330925

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK189			YSK190			YSK190		
Sampling Date		2024/03/21 14:30			2024/03/22 14:00			2024/03/22 14:00		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	WC-02 Lab-Dup	RDL	QC Batch	PL-02 NS	RDL	QC Batch	PL-02 NS Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				53	1.0	9294985			
Inorganics										
Acidity	mg/L	8.4	5.0	9302128	7.4	5.0	9302128			
Total Ammonia-N	mg/L				<0.050	0.050	9297403			
Conductivity	mS/cm				0.112	0.001	9295623			
Total Dissolved Solids	mg/L				105	10	9306800			
Fluoride (F-)	mg/L				<0.10	0.10	9295630			
Dissolved Organic Carbon	mg/L				3.4	0.40	9295346			
pH	pH				7.25		9295629			
Total Phosphorus	mg/L				<0.020	0.020	9295899			
Total Suspended Solids	mg/L				<10	10	9299440			
Dissolved Sulphate (SO4)	mg/L				4.3	1.0	9297758			
Alkalinity (Total as CaCO3)	mg/L				51	1.0	9295628			
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9297749			
Nitrite (N)	mg/L				<0.010	0.010	9295387			
Nitrate (N)	mg/L				0.18	0.10	9295387			
Nitrate + Nitrite (N)	mg/L				0.18	0.10	9295387			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9297251			
Metals										
Dissolved Cerium (Ce)	ug/L				<0.30	0.30	9330926			
Dissolved Dysprosium (Dy)	ug/L				<2.0	2.0	9330926			
Dissolved Erbium (Er)	ug/L				<0.50	0.50	9330926			
Dissolved Europium (Eu)	ug/L				<0.40	0.40	9330926			
Dissolved Gadolinium (Gd)	ug/L				<0.50	0.50	9330926			
Dissolved Holmium (Ho)	ug/L				<0.30	0.30	9330926			
Dissolved Iridium (Ir)	ug/L				<2.0	2.0	9330926			
Dissolved Lanthanum (La)	ug/L				<0.30	0.30	9330926			
Dissolved Lutetium (Lu)	ug/L				<1.0	1.0	9330926			
Dissolved Neodymium (Nd)	ug/L				<2.0	2.0	9330926			
Dissolved Gold (Au)	ug/L				<2.0	2.0	9330926			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK189			YSK190			YSK190		
Sampling Date		2024/03/21 14:30			2024/03/22 14:00			2024/03/22 14:00		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	WC-02 Lab-Dup	RDL	QC Batch	PL-02 NS	RDL	QC Batch	PL-02 NS Lab-Dup	RDL	QC Batch
Dissolved Palladium (Pd)	ug/L				<1.0	1.0	9330926			
Dissolved Platinum (Pt)	ug/L				<3.0	3.0	9330926			
Dissolved Praseodymium (Pr)	ug/L				<0.40	0.40	9330926			
Dissolved Ruthenium (Ru)	ug/L				<0.20	0.20	9330926			
Dissolved Samarium (Sm)	ug/L				<2.0	2.0	9330926			
Dissolved Scandium (Sc)	ug/L				<3.0	3.0	9330926			
Dissolved Tellurium (Te)	ug/L				<10	10	9330926			
Dissolved Terbium (Tb)	ug/L				<1.0	1.0	9330926			
Dissolved Thulium (Tm)	ug/L				<0.30	0.30	9330926			
Dissolved Ytterbium (Yb)	ug/L				<3.0	3.0	9330926			
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9330926			
Total Yttrium (Y)	ug/L				<2.0	2.0	9330925	<2.0	2.0	9330925

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK191			YSK191			YSK192		
Sampling Date		2024/03/22 15:00			2024/03/22 15:00			2024/03/20		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	PL-02 NB	RDL	QC Batch	PL-02 NB Lab-Dup	RDL	QC Batch	DUP	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	62	1.0	9294985				34	1.0	9294985
Inorganics										
Acidity	mg/L	8.2	5.0	9302128				<5.0	5.0	9302128
Total Ammonia-N	mg/L	<0.050	0.050	9297403				<0.050	0.050	9297403
Conductivity	mS/cm	0.132	0.001	9295623				0.073	0.001	9295623
Total Dissolved Solids	mg/L	60	10	9300454				80	10	9306800
Fluoride (F-)	mg/L	<0.10	0.10	9295630				<0.10	0.10	9295630
Dissolved Organic Carbon	mg/L	2.8	0.40	9295346				3.5	0.40	9295346
pH	pH	7.32		9295629				7.30		9295629
Total Phosphorus	mg/L	<0.020	0.020	9295899				<0.020	0.020	9295899
Total Suspended Solids	mg/L	<10	10	9299440				<10	10	9299440
Dissolved Sulphate (SO4)	mg/L	4.8	1.0	9297758				3.4	1.0	9297758
Alkalinity (Total as CaCO3)	mg/L	62	1.0	9295628				32	1.0	9295628
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9297749				<1.0	1.0	9297749
Nitrite (N)	mg/L	<0.010	0.010	9295387				<0.010	0.010	9295387
Nitrate (N)	mg/L	0.20	0.10	9295387				0.26	0.10	9295387
Nitrate + Nitrite (N)	mg/L	0.20	0.10	9295387				0.26	0.10	9295387
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9297521	<1.0	1.0	9297521	<1.0	1.0	9297251
Metals										
Dissolved Cerium (Ce)	ug/L	<0.30	0.30	9330926				<0.30	0.30	9330926
Dissolved Dysprosium (Dy)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Dissolved Erbium (Er)	ug/L	<0.50	0.50	9330926				<0.50	0.50	9330926
Dissolved Europium (Eu)	ug/L	<0.40	0.40	9330926				<0.40	0.40	9330926
Dissolved Gadolinium (Gd)	ug/L	<0.50	0.50	9330926				<0.50	0.50	9330926
Dissolved Holmium (Ho)	ug/L	<0.30	0.30	9330926				<0.30	0.30	9330926
Dissolved Iridium (Ir)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Dissolved Lanthanum (La)	ug/L	<0.30	0.30	9330926				<0.30	0.30	9330926
Dissolved Lutetium (Lu)	ug/L	<1.0	1.0	9330926				<1.0	1.0	9330926
Dissolved Neodymium (Nd)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Dissolved Gold (Au)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK191			YSK191			YSK192		
Sampling Date		2024/03/22 15:00			2024/03/22 15:00			2024/03/20		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	PL-02 NB	RDL	QC Batch	PL-02 NB Lab-Dup	RDL	QC Batch	DUP	RDL	QC Batch
Dissolved Palladium (Pd)	ug/L	<1.0	1.0	9330926				<1.0	1.0	9330926
Dissolved Platinum (Pt)	ug/L	<3.0	3.0	9330926				<3.0	3.0	9330926
Dissolved Praseodymium (Pr)	ug/L	<0.40	0.40	9330926				<0.40	0.40	9330926
Dissolved Ruthenium (Ru)	ug/L	<0.20	0.20	9330926				<0.20	0.20	9330926
Dissolved Samarium (Sm)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Dissolved Scandium (Sc)	ug/L	<3.0	3.0	9330926				<3.0	3.0	9330926
Dissolved Tellurium (Te)	ug/L	<10	10	9330926				<10	10	9330926
Dissolved Terbium (Tb)	ug/L	<1.0	1.0	9330926				<1.0	1.0	9330926
Dissolved Thulium (Tm)	ug/L	<0.30	0.30	9330926				<0.30	0.30	9330926
Dissolved Ytterbium (Yb)	ug/L	<3.0	3.0	9330926				<3.0	3.0	9330926
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9330926				<2.0	2.0	9330926
Total Yttrium (Y)	ug/L	<2.0	2.0	9330925				<2.0	2.0	9330925

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK193			YSK193		
Sampling Date		2024/03/22			2024/03/22		
COC Number		C#979992-01-01			C#979992-01-01		
	UNITS	BLANK	RDL	QC Batch	BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	<1.0	1.0	9294985			
Inorganics							
Acidity	mg/L	<5.0	5.0	9302128			
Total Ammonia-N	mg/L	<0.050	0.050	9297403			
Conductivity	mS/cm	0.002	0.001	9295623			
Total Dissolved Solids	mg/L	<10	10	9300454			
Fluoride (F-)	mg/L	<0.10	0.10	9295630			
Dissolved Organic Carbon	mg/L	<0.40	0.40	9295346			
pH	pH	6.40		9295629			
Total Phosphorus	mg/L	<0.020	0.020	9295899			
Total Suspended Solids	mg/L	<10	10	9299440			
Dissolved Sulphate (SO4)	mg/L	<1.0	1.0	9297758	<1.0	1.0	9297758
Alkalinity (Total as CaCO3)	mg/L	1.3	1.0	9295628			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9297749	<1.0	1.0	9297749
Nitrite (N)	mg/L	<0.010	0.010	9295387			
Nitrate (N)	mg/L	<0.10	0.10	9295387			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9295387			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9297251			
Metals							
Dissolved Cerium (Ce)	ug/L	<0.30	0.30	9330926			
Dissolved Dysprosium (Dy)	ug/L	<2.0	2.0	9330926			
Dissolved Erbium (Er)	ug/L	<0.50	0.50	9330926			
Dissolved Europium (Eu)	ug/L	<0.40	0.40	9330926			
Dissolved Gadolinium (Gd)	ug/L	<0.50	0.50	9330926			
Dissolved Holmium (Ho)	ug/L	<0.30	0.30	9330926			
Dissolved Iridium (Ir)	ug/L	<2.0	2.0	9330926			
Dissolved Lanthanum (La)	ug/L	<0.30	0.30	9330926			
Dissolved Lutetium (Lu)	ug/L	<1.0	1.0	9330926			
Dissolved Neodymium (Nd)	ug/L	<2.0	2.0	9330926			
Dissolved Gold (Au)	ug/L	<2.0	2.0	9330926			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YSK193			YSK193		
Sampling Date		2024/03/22			2024/03/22		
COC Number		C#979992-01-01			C#979992-01-01		
	UNITS	BLANK	RDL	QC Batch	BLANK Lab-Dup	RDL	QC Batch
Dissolved Palladium (Pd)	ug/L	<1.0	1.0	9330926			
Dissolved Platinum (Pt)	ug/L	<3.0	3.0	9330926			
Dissolved Praseodymium (Pr)	ug/L	<0.40	0.40	9330926			
Dissolved Ruthenium (Ru)	ug/L	<0.20	0.20	9330926			
Dissolved Samarium (Sm)	ug/L	<2.0	2.0	9330926			
Dissolved Scandium (Sc)	ug/L	<3.0	3.0	9330926			
Dissolved Tellurium (Te)	ug/L	<10	10	9330926			
Dissolved Terbium (Tb)	ug/L	<1.0	1.0	9330926			
Dissolved Thulium (Tm)	ug/L	<0.30	0.30	9330926			
Dissolved Ytterbium (Yb)	ug/L	<3.0	3.0	9330926			
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9330926			
Total Yttrium (Y)	ug/L	<2.0	2.0	9330925			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK183	YSK184			YSK184		
Sampling Date		2024/03/20 12:00	2024/03/20 13:00			2024/03/20 13:00		
COC Number		C#979992-01-01	C#979992-01-01			C#979992-01-01		
	UNITS	LL-02 NS	LL-02 NB	RDL	QC Batch	LL-02 NB Lab-Dup	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	<0.00010	0.00010	9302809	<0.00010	0.00010	9302809
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	0.10	9303219			
Dissolved Aluminum (Al)	ug/L	6.4	<4.9	4.9	9301589			
Total Aluminum (Al)	ug/L	9.6	7.5	4.9	9302202			
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	9301589			
Total Antimony (Sb)	ug/L	<0.50	<0.50	0.50	9302202			
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	9301589			
Total Arsenic (As)	ug/L	<1.0	<1.0	1.0	9302202			
Dissolved Barium (Ba)	ug/L	10	12	2.0	9301589			
Total Barium (Ba)	ug/L	11	12	2.0	9302202			
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	9301589			
Total Beryllium (Be)	ug/L	<0.40	<0.40	0.40	9302202			
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	9301589			
Total Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	9302202			
Dissolved Boron (B)	ug/L	<10	<10	10	9301589			
Total Boron (B)	ug/L	<10	<10	10	9302202			
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	9301589			
Total Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	9302202			
Dissolved Calcium (Ca)	ug/L	8800	12000	200	9301589			
Total Calcium (Ca)	ug/L	8800	12000	200	9302202			
Dissolved Cesium (Cs)	ug/L	<0.20	<0.20	0.20	9301589			
Total Cesium (Cs)	ug/L	<0.20	<0.20	0.20	9302202			
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	9301589			
Total Chromium (Cr)	ug/L	<5.0	<5.0	5.0	9302202			
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	9301589			
Total Cobalt (Co)	ug/L	<0.50	<0.50	0.50	9302202			
Dissolved Copper (Cu)	ug/L	1.4	<0.90	0.90	9301589			
Total Copper (Cu)	ug/L	<0.90	<0.90	0.90	9302202			
Dissolved Iron (Fe)	ug/L	<100	<100	100	9301589			
Total Iron (Fe)	ug/L	<100	<100	100	9302202			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK183	YSK184			YSK184		
Sampling Date		2024/03/20 12:00	2024/03/20 13:00			2024/03/20 13:00		
COC Number		C#979992-01-01	C#979992-01-01			C#979992-01-01		
	UNITS	LL-02 NS	LL-02 NB	RDL	QC Batch	LL-02 NB Lab-Dup	RDL	QC Batch
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	9301589			
Total Lead (Pb)	ug/L	0.72	<0.50	0.50	9302202			
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	5.0	9301589			
Total Lithium (Li)	ug/L	<5.0	<5.0	5.0	9302202			
Dissolved Magnesium (Mg)	ug/L	3800	5200	50	9301589			
Total Magnesium (Mg)	ug/L	3600	4800	50	9302202			
Dissolved Manganese (Mn)	ug/L	<2.0	<2.0	2.0	9301589			
Total Manganese (Mn)	ug/L	<2.0	27	2.0	9302202			
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	9301589			
Total Molybdenum (Mo)	ug/L	<0.50	0.54	0.50	9302202			
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	9301589			
Total Nickel (Ni)	ug/L	<1.0	<1.0	1.0	9302202			
Dissolved Phosphorus (P)	ug/L	<100	<100	100	9301589			
Total Phosphorus (P)	ug/L	<100	<100	100	9302202			
Dissolved Potassium (K)	ug/L	1000	1100	200	9301589			
Total Potassium (K)	ug/L	900	950	200	9302202			
Dissolved Rubidium (Rb)	ug/L	2.1	2.3	0.20	9301589			
Total Rubidium (Rb)	ug/L	1.9	2.0	0.20	9302202			
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	9301589			
Total Selenium (Se)	ug/L	<2.0	<2.0	2.0	9302202			
Dissolved Silicon (Si)	ug/L	1600	3000	50	9301589			
Total Silicon (Si)	ug/L	1500	2900	50	9302202			
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	9301589			
Total Silver (Ag)	ug/L	<0.090	<0.090	0.090	9302202			
Dissolved Sodium (Na)	ug/L	620	590	100	9301589			
Total Sodium (Na)	ug/L	650	580	100	9302202			
Dissolved Strontium (Sr)	ug/L	15	18	1.0	9301589			
Total Strontium (Sr)	ug/L	14	17	1.0	9302202			
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	9301589			
Total Tellurium (Te)	ug/L	<1.0	<1.0	1.0	9302202			
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	9301589			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK183	YSK184			YSK184		
Sampling Date		2024/03/20 12:00	2024/03/20 13:00			2024/03/20 13:00		
COC Number		C#979992-01-01	C#979992-01-01			C#979992-01-01		
	UNITS	LL-02 NS	LL-02 NB	RDL	QC Batch	LL-02 NB Lab-Dup	RDL	QC Batch
Total Thallium (Tl)	ug/L	<0.050	<0.050	0.050	9302202			
Dissolved Thorium (Th)	ug/L	<2.0	<2.0	2.0	9301589			
Total Thorium (Th)	ug/L	<2.0	<2.0	2.0	9302202			
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	9301589			
Total Tin (Sn)	ug/L	<1.0	<1.0	1.0	9302202			
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	9301589			
Total Titanium (Ti)	ug/L	<5.0	<5.0	5.0	9302202			
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	9301589			
Total Tungsten (W)	ug/L	<1.0	<1.0	1.0	9302202			
Dissolved Uranium (U)	ug/L	0.10	0.15	0.10	9301589			
Total Uranium (U)	ug/L	0.15	0.18	0.10	9302202			
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	9301589			
Total Vanadium (V)	ug/L	<0.50	<0.50	0.50	9302202			
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	9301589			
Total Zinc (Zn)	ug/L	<5.0	<5.0	5.0	9302202			
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	9301589			
Total Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	9302202			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK185	YSK186		YSK187		YSK188		
Sampling Date		2024/03/20 15:00	2024/03/20 16:00		2024/03/20 17:30		2024/03/21 11:30		
COC Number		C#979992-01-01	C#979992-01-01		C#979992-01-01		C#979992-01-01		
	UNITS	LL-03 NS	LL-03 NB	QC Batch	WC-09	QC Batch	WC-01	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	<0.00010	9302809	<0.00010	9302809	<0.00010	0.00010	9302526
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	9303219	<0.10	9303219	<0.10	0.10	9303219
Dissolved Aluminum (Al)	ug/L	5.9	4.9	9301589	27	9301589	<4.9	4.9	9301589
Total Aluminum (Al)	ug/L	10	9.9	9302202	31	9302903	12	4.9	9302202
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	9301589	<0.50	9301589	<0.50	0.50	9301589
Total Antimony (Sb)	ug/L	<0.50	<0.50	9302202	<0.50	9302903	<0.50	0.50	9302202
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Arsenic (As)	ug/L	<1.0	<1.0	9302202	<1.0	9302903	<1.0	1.0	9302202
Dissolved Barium (Ba)	ug/L	11	12	9301589	11	9301589	21	2.0	9301589
Total Barium (Ba)	ug/L	11	11	9302202	10	9302903	20	2.0	9302202
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	9301589	<0.40	9301589	<0.40	0.40	9301589
Total Beryllium (Be)	ug/L	<0.40	<0.40	9302202	<0.40	9302903	<0.40	0.40	9302202
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Bismuth (Bi)	ug/L	<1.0	<1.0	9302202	<1.0	9302903	<1.0	1.0	9302202
Dissolved Boron (B)	ug/L	<10	<10	9301589	<10	9301589	<10	10	9301589
Total Boron (B)	ug/L	<10	<10	9302202	<10	9302903	<10	10	9302202
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	9301589	<0.090	9301589	<0.090	0.090	9301589
Total Cadmium (Cd)	ug/L	<0.090	<0.090	9302202	<0.090	9302903	<0.090	0.090	9302202
Dissolved Calcium (Ca)	ug/L	9100	8900	9301589	7800	9301589	16000	200	9301589
Total Calcium (Ca)	ug/L	9400	8800	9302202	7900	9302903	16000	200	9302202
Dissolved Cesium (Cs)	ug/L	<0.20	<0.20	9301589	<0.20	9301589	<0.20	0.20	9301589
Total Cesium (Cs)	ug/L	<0.20	<0.20	9302202	<0.20	9302903	<0.20	0.20	9302202
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	9301589	<5.0	9301589	<5.0	5.0	9301589
Total Chromium (Cr)	ug/L	<5.0	<5.0	9302202	<5.0	9302903	<5.0	5.0	9302202
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	9301589	<0.50	9301589	<0.50	0.50	9301589
Total Cobalt (Co)	ug/L	<0.50	<0.50	9302202	<0.50	9302903	<0.50	0.50	9302202
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	9301589	<0.90	9301589	<0.90	0.90	9301589
Total Copper (Cu)	ug/L	<0.90	<0.90	9302202	<0.90	9302903	<0.90	0.90	9302202
Dissolved Iron (Fe)	ug/L	<100	<100	9301589	<100	9301589	110	100	9301589
Total Iron (Fe)	ug/L	<100	<100	9302202	100	9302903	170	100	9302202
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	9301589	<0.50	9301589	<0.50	0.50	9301589

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK185	YSK186		YSK187		YSK188		
Sampling Date		2024/03/20 15:00	2024/03/20 16:00		2024/03/20 17:30		2024/03/21 11:30		
COC Number		C#979992-01-01	C#979992-01-01		C#979992-01-01		C#979992-01-01		
	UNITS	LL-03 NS	LL-03 NB	QC Batch	WC-09	QC Batch	WC-01	RDL	QC Batch
Total Lead (Pb)	ug/L	<0.50	<0.50	9302202	<0.50	9302903	<0.50	0.50	9302202
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	9301589	<5.0	9301589	<5.0	5.0	9301589
Total Lithium (Li)	ug/L	<5.0	<5.0	9302202	<5.0	9302903	<5.0	5.0	9302202
Dissolved Magnesium (Mg)	ug/L	4000	3900	9301589	3400	9301589	5600	50	9301589
Total Magnesium (Mg)	ug/L	3900	3700	9302202	3400	9302903	5300	50	9302202
Dissolved Manganese (Mn)	ug/L	<2.0	<2.0	9301589	3.4	9301589	130	2.0	9301589
Total Manganese (Mn)	ug/L	<2.0	4.1	9302202	6.9	9302903	130	2.0	9302202
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	9301589	<0.50	9301589	0.85	0.50	9301589
Total Molybdenum (Mo)	ug/L	<0.50	<0.50	9302202	<0.50	9302903	0.87	0.50	9302202
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Nickel (Ni)	ug/L	<1.0	<1.0	9302202	<1.0	9302903	<1.0	1.0	9302202
Dissolved Phosphorus (P)	ug/L	<100	<100	9301589	<100	9301589	<100	100	9301589
Total Phosphorus (P)	ug/L	<100	<100	9302202	<100	9302903	<100	100	9302202
Dissolved Potassium (K)	ug/L	1000	1000	9301589	1100	9301589	2200	200	9301589
Total Potassium (K)	ug/L	980	920	9302202	1100	9302903	1900	200	9302202
Dissolved Rubidium (Rb)	ug/L	2.1	2.0	9301589	2.0	9301589	2.0	0.20	9301589
Total Rubidium (Rb)	ug/L	1.9	1.8	9302202	1.9	9302903	1.8	0.20	9302202
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	9301589	<2.0	9301589	<2.0	2.0	9301589
Total Selenium (Se)	ug/L	<2.0	<2.0	9302202	<2.0	9302903	<2.0	2.0	9302202
Dissolved Silicon (Si)	ug/L	1700	1900	9301589	2100	9301589	4100	50	9301589
Total Silicon (Si)	ug/L	1600	1700	9302202	2200	9302903	3800	50	9302202
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	9301589	<0.090	9301589	<0.090	0.090	9301589
Total Silver (Ag)	ug/L	<0.090	<0.090	9302202	<0.090	9302903	<0.090	0.090	9302202
Dissolved Sodium (Na)	ug/L	630	610	9301589	800	9301589	1200	100	9301589
Total Sodium (Na)	ug/L	650	620	9302202	840	9302903	1200	100	9302202
Dissolved Strontium (Sr)	ug/L	15	14	9301589	18	9301589	26	1.0	9301589
Total Strontium (Sr)	ug/L	15	14	9302202	18	9302903	25	1.0	9302202
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Tellurium (Te)	ug/L	<1.0	<1.0	9302202	<1.0	9302903	<1.0	1.0	9302202
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	9301589	<0.050	9301589	<0.050	0.050	9301589
Total Thallium (Tl)	ug/L	<0.050	<0.050	9302202	<0.050	9302903	<0.050	0.050	9302202
Dissolved Thorium (Th)	ug/L	<2.0	<2.0	9301589	<2.0	9301589	<2.0	2.0	9301589

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK185	YSK186		YSK187		YSK188		
Sampling Date		2024/03/20 15:00	2024/03/20 16:00		2024/03/20 17:30		2024/03/21 11:30		
COC Number		C#979992-01-01	C#979992-01-01		C#979992-01-01		C#979992-01-01		
	UNITS	LL-03 NS	LL-03 NB	QC Batch	WC-09	QC Batch	WC-01	RDL	QC Batch
Total Thorium (Th)	ug/L	<2.0	<2.0	9302202	<2.0	9302903	<2.0	2.0	9302202
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Tin (Sn)	ug/L	<1.0	<1.0	9302202	<1.0	9302903	<1.0	1.0	9302202
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	9301589	<5.0	9301589	<5.0	5.0	9301589
Total Titanium (Ti)	ug/L	<5.0	<5.0	9302202	<5.0	9302903	<5.0	5.0	9302202
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Tungsten (W)	ug/L	<1.0	<1.0	9302202	<1.0	9302903	<1.0	1.0	9302202
Dissolved Uranium (U)	ug/L	0.11	<0.10	9301589	<0.10	9301589	0.24	0.10	9301589
Total Uranium (U)	ug/L	0.14	0.12	9302202	<0.10	9302903	0.22	0.10	9302202
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	9301589	<0.50	9301589	<0.50	0.50	9301589
Total Vanadium (V)	ug/L	<0.50	<0.50	9302202	<0.50	9302903	<0.50	0.50	9302202
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	9301589	<5.0	9301589	<5.0	5.0	9301589
Total Zinc (Zn)	ug/L	<5.0	<5.0	9302202	<5.0	9302903	<5.0	5.0	9302202
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Zirconium (Zr)	ug/L	<1.0	<1.0	9302202	<1.0	9302903	<1.0	1.0	9302202

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK189			YSK189			YSK190		
Sampling Date		2024/03/21 14:30			2024/03/21 14:30			2024/03/22 14:00		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	WC-02	RDL	QC Batch	WC-02 Lab-Dup	RDL	QC Batch	PL-02 NS	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L	<0.00010	0.00010	9299756	<0.00010	0.00010	9299756	<0.00010	0.00010	9302526
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	9303219	<0.10	0.10	9303219	<0.10	0.10	9303219
Dissolved Aluminum (Al)	ug/L	8.2	4.9	9301589				<4.9	4.9	9301589
Total Aluminum (Al)	ug/L	14	4.9	9302202				8.5	4.9	9302202
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9301589				<0.50	0.50	9301589
Total Antimony (Sb)	ug/L	<0.50	0.50	9302202				<0.50	0.50	9302202
Dissolved Arsenic (As)	ug/L	<1.0	1.0	9301589				<1.0	1.0	9301589
Total Arsenic (As)	ug/L	<1.0	1.0	9302202				<1.0	1.0	9302202
Dissolved Barium (Ba)	ug/L	21	2.0	9301589				19	2.0	9301589
Total Barium (Ba)	ug/L	20	2.0	9302202				18	2.0	9302202
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	9301589				<0.40	0.40	9301589
Total Beryllium (Be)	ug/L	<0.40	0.40	9302202				<0.40	0.40	9302202
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	9301589				<1.0	1.0	9301589
Total Bismuth (Bi)	ug/L	<1.0	1.0	9302202				<1.0	1.0	9302202
Dissolved Boron (B)	ug/L	<10	10	9301589				<10	10	9301589
Total Boron (B)	ug/L	<10	10	9302202				<10	10	9302202
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	9301589				<0.090	0.090	9301589
Total Cadmium (Cd)	ug/L	<0.090	0.090	9302202				<0.090	0.090	9302202
Dissolved Calcium (Ca)	ug/L	12000	200	9301589				14000	200	9301589
Total Calcium (Ca)	ug/L	13000	200	9302202				14000	200	9302202
Dissolved Cesium (Cs)	ug/L	<0.20	0.20	9301589				<0.20	0.20	9301589
Total Cesium (Cs)	ug/L	<0.20	0.20	9302202				<0.20	0.20	9302202
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	9301589				<5.0	5.0	9301589
Total Chromium (Cr)	ug/L	<5.0	5.0	9302202				<5.0	5.0	9302202
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	9301589				<0.50	0.50	9301589
Total Cobalt (Co)	ug/L	<0.50	0.50	9302202				<0.50	0.50	9302202
Dissolved Copper (Cu)	ug/L	1.2	0.90	9301589				<0.90	0.90	9301589
Total Copper (Cu)	ug/L	<0.90	0.90	9302202				<0.90	0.90	9302202
Dissolved Iron (Fe)	ug/L	<100	100	9301589				<100	100	9301589
Total Iron (Fe)	ug/L	<100	100	9302202				<100	100	9302202

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK189			YSK189			YSK190		
Sampling Date		2024/03/21 14:30			2024/03/21 14:30			2024/03/22 14:00		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	WC-02	RDL	QC Batch	WC-02 Lab-Dup	RDL	QC Batch	PL-02 NS	RDL	QC Batch
Dissolved Lead (Pb)	ug/L	<0.50	0.50	9301589				<0.50	0.50	9301589
Total Lead (Pb)	ug/L	<0.50	0.50	9302202				<0.50	0.50	9302202
Dissolved Lithium (Li)	ug/L	<5.0	5.0	9301589				<5.0	5.0	9301589
Total Lithium (Li)	ug/L	<5.0	5.0	9302202				<5.0	5.0	9302202
Dissolved Magnesium (Mg)	ug/L	4200	50	9301589				4600	50	9301589
Total Magnesium (Mg)	ug/L	4000	50	9302202				4500	50	9302202
Dissolved Manganese (Mn)	ug/L	86	2.0	9301589				3.6	2.0	9301589
Total Manganese (Mn)	ug/L	110	2.0	9302202				7.9	2.0	9302202
Dissolved Molybdenum (Mo)	ug/L	0.53	0.50	9301589				0.53	0.50	9301589
Total Molybdenum (Mo)	ug/L	0.71	0.50	9302202				0.56	0.50	9302202
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9301589				<1.0	1.0	9301589
Total Nickel (Ni)	ug/L	<1.0	1.0	9302202				<1.0	1.0	9302202
Dissolved Phosphorus (P)	ug/L	<100	100	9301589				<100	100	9301589
Total Phosphorus (P)	ug/L	<100	100	9302202				<100	100	9302202
Dissolved Potassium (K)	ug/L	1700	200	9301589				1800	200	9301589
Total Potassium (K)	ug/L	1600	200	9302202				1700	200	9302202
Dissolved Rubidium (Rb)	ug/L	2.0	0.20	9301589				2.0	0.20	9301589
Total Rubidium (Rb)	ug/L	1.9	0.20	9302202				2.0	0.20	9302202
Dissolved Selenium (Se)	ug/L	<2.0	2.0	9301589				<2.0	2.0	9301589
Total Selenium (Se)	ug/L	<2.0	2.0	9302202				<2.0	2.0	9302202
Dissolved Silicon (Si)	ug/L	3400	50	9301589				3600	50	9301589
Total Silicon (Si)	ug/L	3300	50	9302202				3400	50	9302202
Dissolved Silver (Ag)	ug/L	<0.090	0.090	9301589				<0.090	0.090	9301589
Total Silver (Ag)	ug/L	<0.090	0.090	9302202				<0.090	0.090	9302202
Dissolved Sodium (Na)	ug/L	1100	100	9301589				1100	100	9301589
Total Sodium (Na)	ug/L	1000	100	9302202				1200	100	9302202
Dissolved Strontium (Sr)	ug/L	25	1.0	9301589				25	1.0	9301589
Total Strontium (Sr)	ug/L	24	1.0	9302202				25	1.0	9302202
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	9301589				<1.0	1.0	9301589
Total Tellurium (Te)	ug/L	<1.0	1.0	9302202				<1.0	1.0	9302202
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	9301589				<0.050	0.050	9301589

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK189			YSK189			YSK190		
Sampling Date		2024/03/21 14:30			2024/03/21 14:30			2024/03/22 14:00		
COC Number		C#979992-01-01			C#979992-01-01			C#979992-01-01		
	UNITS	WC-02	RDL	QC Batch	WC-02 Lab-Dup	RDL	QC Batch	PL-02 NS	RDL	QC Batch
Total Thallium (Tl)	ug/L	<0.050	0.050	9302202				<0.050	0.050	9302202
Dissolved Thorium (Th)	ug/L	<2.0	2.0	9301589				<2.0	2.0	9301589
Total Thorium (Th)	ug/L	<2.0	2.0	9302202				<2.0	2.0	9302202
Dissolved Tin (Sn)	ug/L	<1.0	1.0	9301589				<1.0	1.0	9301589
Total Tin (Sn)	ug/L	<1.0	1.0	9302202				<1.0	1.0	9302202
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	9301589				<5.0	5.0	9301589
Total Titanium (Ti)	ug/L	<5.0	5.0	9302202				<5.0	5.0	9302202
Dissolved Tungsten (W)	ug/L	<1.0	1.0	9301589				<1.0	1.0	9301589
Total Tungsten (W)	ug/L	<1.0	1.0	9302202				<1.0	1.0	9302202
Dissolved Uranium (U)	ug/L	<0.10	0.10	9301589				<0.10	0.10	9301589
Total Uranium (U)	ug/L	<0.10	0.10	9302202				<0.10	0.10	9302202
Dissolved Vanadium (V)	ug/L	<0.50	0.50	9301589				<0.50	0.50	9301589
Total Vanadium (V)	ug/L	<0.50	0.50	9302202				<0.50	0.50	9302202
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9301589				<5.0	5.0	9301589
Total Zinc (Zn)	ug/L	<5.0	5.0	9302202				<5.0	5.0	9302202
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	9301589				<1.0	1.0	9301589
Total Zirconium (Zr)	ug/L	<1.0	1.0	9302202				<1.0	1.0	9302202

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK191		YSK192		YSK193		
Sampling Date		2024/03/22 15:00		2024/03/20		2024/03/22		
COC Number		C#979992-01-01		C#979992-01-01		C#979992-01-01		
	UNITS	PL-02 NB	QC Batch	DUP	QC Batch	BLANK	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9302526	<0.00010	9302809	<0.00010	0.00010	9302526
Dissolved Mercury (Hg)	ug/L	<0.10	9303219	<0.10	9303219	<0.10	0.10	9303219
Dissolved Aluminum (Al)	ug/L	<4.9	9301589	26	9301589	<4.9	4.9	9301589
Total Aluminum (Al)	ug/L	20	9302202	32	9302202	<4.9	4.9	9302202
Dissolved Antimony (Sb)	ug/L	<0.50	9301589	<0.50	9301589	<0.50	0.50	9301589
Total Antimony (Sb)	ug/L	<0.50	9302202	<0.50	9302202	<0.50	0.50	9302202
Dissolved Arsenic (As)	ug/L	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Arsenic (As)	ug/L	<1.0	9302202	<1.0	9302202	<1.0	1.0	9302202
Dissolved Barium (Ba)	ug/L	22	9301589	9.7	9301589	<2.0	2.0	9301589
Total Barium (Ba)	ug/L	23	9302202	9.5	9302202	<2.0	2.0	9302202
Dissolved Beryllium (Be)	ug/L	<0.40	9301589	<0.40	9301589	<0.40	0.40	9301589
Total Beryllium (Be)	ug/L	<0.40	9302202	<0.40	9302202	<0.40	0.40	9302202
Dissolved Bismuth (Bi)	ug/L	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Bismuth (Bi)	ug/L	<1.0	9302202	<1.0	9302202	<1.0	1.0	9302202
Dissolved Boron (B)	ug/L	<10	9301589	<10	9301589	<10	10	9301589
Total Boron (B)	ug/L	<10	9302202	<10	9302202	<10	10	9302202
Dissolved Cadmium (Cd)	ug/L	<0.090	9301589	<0.090	9301589	<0.090	0.090	9301589
Total Cadmium (Cd)	ug/L	<0.090	9302202	<0.090	9302202	<0.090	0.090	9302202
Dissolved Calcium (Ca)	ug/L	16000	9301589	7900	9301589	<200	200	9301589
Total Calcium (Ca)	ug/L	17000	9302202	7700	9302202	<200	200	9302202
Dissolved Cesium (Cs)	ug/L	<0.20	9301589	<0.20	9301589	<0.20	0.20	9301589
Total Cesium (Cs)	ug/L	<0.20	9302202	<0.20	9302202	<0.20	0.20	9302202
Dissolved Chromium (Cr)	ug/L	<5.0	9301589	<5.0	9301589	<5.0	5.0	9301589
Total Chromium (Cr)	ug/L	<5.0	9302202	<5.0	9302202	<5.0	5.0	9302202
Dissolved Cobalt (Co)	ug/L	<0.50	9301589	<0.50	9301589	<0.50	0.50	9301589
Total Cobalt (Co)	ug/L	<0.50	9302202	<0.50	9302202	<0.50	0.50	9302202
Dissolved Copper (Cu)	ug/L	<0.90	9301589	1.3	9301589	<0.90	0.90	9301589
Total Copper (Cu)	ug/L	<0.90	9302202	<0.90	9302202	<0.90	0.90	9302202
Dissolved Iron (Fe)	ug/L	<100	9301589	<100	9301589	<100	100	9301589
Total Iron (Fe)	ug/L	120	9302202	<100	9302202	<100	100	9302202
Dissolved Lead (Pb)	ug/L	<0.50	9301589	<0.50	9301589	<0.50	0.50	9301589

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK191		YSK192		YSK193		
Sampling Date		2024/03/22 15:00		2024/03/20		2024/03/22		
COC Number		C#979992-01-01		C#979992-01-01		C#979992-01-01		
	UNITS	PL-02 NB	QC Batch	DUP	QC Batch	BLANK	RDL	QC Batch
Total Lead (Pb)	ug/L	<0.50	9302202	<0.50	9302202	<0.50	0.50	9302202
Dissolved Lithium (Li)	ug/L	<5.0	9301589	<5.0	9301589	<5.0	5.0	9301589
Total Lithium (Li)	ug/L	<5.0	9302202	<5.0	9302202	<5.0	5.0	9302202
Dissolved Magnesium (Mg)	ug/L	5400	9301589	3400	9301589	<50	50	9301589
Total Magnesium (Mg)	ug/L	5500	9302202	3200	9302202	<50	50	9302202
Dissolved Manganese (Mn)	ug/L	160	9301589	3.4	9301589	<2.0	2.0	9301589
Total Manganese (Mn)	ug/L	230	9302202	5.8	9302202	<2.0	2.0	9302202
Dissolved Molybdenum (Mo)	ug/L	0.56	9301589	<0.50	9301589	<0.50	0.50	9301589
Total Molybdenum (Mo)	ug/L	0.68	9302202	<0.50	9302202	<0.50	0.50	9302202
Dissolved Nickel (Ni)	ug/L	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Nickel (Ni)	ug/L	<1.0	9302202	<1.0	9302202	<1.0	1.0	9302202
Dissolved Phosphorus (P)	ug/L	<100	9301589	<100	9301589	<100	100	9301589
Total Phosphorus (P)	ug/L	<100	9302202	<100	9302202	<100	100	9302202
Dissolved Potassium (K)	ug/L	2200	9301589	1100	9301589	<200	200	9301589
Total Potassium (K)	ug/L	2100	9302202	970	9302202	<200	200	9302202
Dissolved Rubidium (Rb)	ug/L	2.2	9301589	2.0	9301589	<0.20	0.20	9301589
Total Rubidium (Rb)	ug/L	2.1	9302202	2.0	9302202	<0.20	0.20	9302202
Dissolved Selenium (Se)	ug/L	<2.0	9301589	<2.0	9301589	<2.0	2.0	9301589
Total Selenium (Se)	ug/L	<2.0	9302202	<2.0	9302202	<2.0	2.0	9302202
Dissolved Silicon (Si)	ug/L	4100	9301589	2200	9301589	<50	50	9301589
Total Silicon (Si)	ug/L	4200	9302202	2000	9302202	<50	50	9302202
Dissolved Silver (Ag)	ug/L	<0.090	9301589	<0.090	9301589	<0.090	0.090	9301589
Total Silver (Ag)	ug/L	<0.090	9302202	<0.090	9302202	<0.090	0.090	9302202
Dissolved Sodium (Na)	ug/L	1300	9301589	780	9301589	380	100	9301589
Total Sodium (Na)	ug/L	1400	9302202	770	9302202	440	100	9302202
Dissolved Strontium (Sr)	ug/L	29	9301589	17	9301589	<1.0	1.0	9301589
Total Strontium (Sr)	ug/L	28	9302202	15	9302202	<1.0	1.0	9302202
Dissolved Tellurium (Te)	ug/L	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Tellurium (Te)	ug/L	<1.0	9302202	<1.0	9302202	<1.0	1.0	9302202
Dissolved Thallium (Tl)	ug/L	<0.050	9301589	<0.050	9301589	<0.050	0.050	9301589
Total Thallium (Tl)	ug/L	<0.050	9302202	<0.050	9302202	<0.050	0.050	9302202
Dissolved Thorium (Th)	ug/L	<2.0	9301589	<2.0	9301589	<2.0	2.0	9301589

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YSK191		YSK192		YSK193		
Sampling Date		2024/03/22 15:00		2024/03/20		2024/03/22		
COC Number		C#979992-01-01		C#979992-01-01		C#979992-01-01		
	UNITS	PL-02 NB	QC Batch	DUP	QC Batch	BLANK	RDL	QC Batch
Total Thorium (Th)	ug/L	<2.0	9302202	<2.0	9302202	<2.0	2.0	9302202
Dissolved Tin (Sn)	ug/L	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Tin (Sn)	ug/L	<1.0	9302202	<1.0	9302202	<1.0	1.0	9302202
Dissolved Titanium (Ti)	ug/L	<5.0	9301589	<5.0	9301589	<5.0	5.0	9301589
Total Titanium (Ti)	ug/L	<5.0	9302202	<5.0	9302202	<5.0	5.0	9302202
Dissolved Tungsten (W)	ug/L	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Tungsten (W)	ug/L	<1.0	9302202	<1.0	9302202	<1.0	1.0	9302202
Dissolved Uranium (U)	ug/L	0.12	9301589	<0.10	9301589	<0.10	0.10	9301589
Total Uranium (U)	ug/L	0.17	9302202	<0.10	9302202	<0.10	0.10	9302202
Dissolved Vanadium (V)	ug/L	<0.50	9301589	<0.50	9301589	<0.50	0.50	9301589
Total Vanadium (V)	ug/L	<0.50	9302202	<0.50	9302202	<0.50	0.50	9302202
Dissolved Zinc (Zn)	ug/L	<5.0	9301589	<5.0	9301589	<5.0	5.0	9301589
Total Zinc (Zn)	ug/L	<5.0	9302202	<5.0	9302202	<5.0	5.0	9302202
Dissolved Zirconium (Zr)	ug/L	<1.0	9301589	<1.0	9301589	<1.0	1.0	9301589
Total Zirconium (Zr)	ug/L	<1.0	9302202	<1.0	9302202	<1.0	1.0	9302202

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		YSK193		
Sampling Date		2024/03/22		
COC Number		C#979992-01-01		
	UNITS	BLANK Lab-Dup	RDL	QC Batch
Metals				
Mercury (Hg)	mg/L	<0.00010	0.00010	9302526

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YSK183
Sample ID: LL-02 NS
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297251	N/A	2024/03/27	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302809	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu
Total Dissolved Solids	BAL	9300454	2024/03/27	2024/03/28	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK183 Dup
Sample ID: LL-02 NS
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan

Bureau Veritas ID: YSK184
Sample ID: LL-02 NB
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297521	N/A	2024/03/26	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302809	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YSK184
Sample ID: LL-02 NB
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu
Total Dissolved Solids	BAL	9300454	2024/03/27	2024/03/28	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK184 Dup
Sample ID: LL-02 NB
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9302809	2024/03/28	2024/04/01	Thuy Linh Nguyen
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur

Bureau Veritas ID: YSK185
Sample ID: LL-03 NS
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297251	N/A	2024/03/27	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302809	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/03	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu
Total Dissolved Solids	BAL	9300454	2024/03/27	2024/03/28	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YSK186
Sample ID: LL-03 NB
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297521	N/A	2024/03/26	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302809	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu
Total Dissolved Solids	BAL	9300454	2024/03/27	2024/03/28	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK187
Sample ID: WC-09
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297251	N/A	2024/03/27	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302809	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302903	2024/03/28	2024/04/01	Azita Fazaeli
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YSK187 **Collected:** 2024/03/20
Sample ID: WC-09 **Shipped:**
Matrix: Water **Received:** 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9306800	2024/04/01	2024/04/02	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK188 **Collected:** 2024/03/21
Sample ID: WC-01 **Shipped:**
Matrix: Water **Received:** 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297521	N/A	2024/03/26	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302526	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu
Total Dissolved Solids	BAL	9300454	2024/03/27	2024/03/28	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK189 **Collected:** 2024/03/21
Sample ID: WC-02 **Shipped:**
Matrix: Water **Received:** 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297251	N/A	2024/03/27	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YSK189
Sample ID: WC-02
Matrix: Water

Collected: 2024/03/21
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9299756	2024/03/27	2024/03/27	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu
Total Dissolved Solids	BAL	9300454	2024/03/27	2024/03/28	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK189 Dup
Sample ID: WC-02
Matrix: Water

Collected: 2024/03/21
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9299756	2024/03/27	2024/03/27	Gagandeep Rai

Bureau Veritas ID: YSK190
Sample ID: PL-02 NS
Matrix: Water

Collected: 2024/03/22
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297251	N/A	2024/03/27	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302526	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YSK190 **Collected:** 2024/03/22
Sample ID: PL-02 NS **Shipped:**
Matrix: Water **Received:** 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9306800	2024/04/01	2024/04/02	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK190 Dup **Collected:** 2024/03/22
Sample ID: PL-02 NS **Shipped:**
Matrix: Water **Received:** 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier

Bureau Veritas ID: YSK191 **Collected:** 2024/03/22
Sample ID: PL-02 NB **Shipped:**
Matrix: Water **Received:** 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297521	N/A	2024/03/26	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302526	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu
Total Dissolved Solids	BAL	9300454	2024/03/27	2024/03/28	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK191 Dup **Collected:** 2024/03/22
Sample ID: PL-02 NB **Shipped:**
Matrix: Water **Received:** 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9297521	N/A	2024/03/26	Surleen Kaur Romana

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YSK192
Sample ID: DUP
Matrix: Water

Collected: 2024/03/20
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297251	N/A	2024/03/27	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302809	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu
Total Dissolved Solids	BAL	9306800	2024/04/01	2024/04/02	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK193
Sample ID: BLANK
Matrix: Water

Collected: 2024/03/22
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9302128	N/A	2024/03/28	Brent Boudreau
Alkalinity	AT	9295628	N/A	2024/03/26	Nachiketa Gohil
Anions	IC	9297251	N/A	2024/03/27	Surleen Kaur Romana
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Conductivity	AT	9295623	N/A	2024/03/26	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9295346	N/A	2024/03/25	Gyulshen Idriz
Fluoride	ISE	9295630	2024/03/25	2024/03/26	Nachiketa Gohil
Hardness (calculated as CaCO3)		9294985	N/A	2024/04/01	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9303219	2024/03/28	2024/04/01	Thuy Linh Nguyen
Mercury in Water by CVAA	CV/AA	9302526	2024/03/28	2024/04/01	Thuy Linh Nguyen
Dissolved Metals by ICPMS	ICP/MS	9301589	N/A	2024/03/28	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	9302202	2024/03/28	2024/03/28	Nan Raykha
Total Extractable Lanthanides-waters	ICP/MSMS	9330925	2024/04/01	2024/04/01	Nicholas Ethier
Dissolved Lanthanides- waters	ICP/MSMS	9330926	N/A	2024/04/01	Nicholas Ethier
Total Ammonia-N	SKAL/NH4	9297403	N/A	2024/03/27	Prabhjot Kaur
Nitrate & Nitrite as Nitrogen in Water	LACH	9295387	N/A	2024/03/26	Jinal Chavda
pH	AT	9295629	2024/03/25	2024/03/26	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YSK193
Sample ID: BLANK
Matrix: Water

Collected: 2024/03/22
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9300454	2024/03/27	2024/03/28	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9295899	2024/03/25	2024/03/27	Muskan
Total Suspended Solids	BAL	9299440	2024/03/27	2024/03/28	Darshan Patel

Bureau Veritas ID: YSK193 Dup
Sample ID: BLANK
Matrix: Water

Collected: 2024/03/22
Shipped:
Received: 2024/03/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	9297749	N/A	2024/03/27	Alina Dobreanu
Mercury in Water by CVAA	CV/AA	9302526	2024/03/28	2024/04/01	Thuy Linh Nguyen
Sulphate by Automated Turbidimetry	SKAL	9297758	N/A	2024/03/27	Alina Dobreanu

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.7°C
Package 2	3.0°C
Package 3	5.0°C
Package 4	3.7°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9295346	Dissolved Organic Carbon	2024/03/25	94	80 - 120	97	80 - 120	<0.40	mg/L	2.3	20		
9295387	Nitrate (N)	2024/03/26	99	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
9295387	Nitrite (N)	2024/03/26	103	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
9295623	Conductivity	2024/03/26			102	85 - 115	<0.001	mS/cm	0.31	10		
9295628	Alkalinity (Total as CaCO3)	2024/03/26			97	85 - 115	<1.0	mg/L	2.0	20		
9295629	pH	2024/03/26			102	98 - 103			0.59	N/A		
9295630	Fluoride (F-)	2024/03/26	103	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
9295899	Total Phosphorus	2024/03/27	98	80 - 120	106	80 - 120	<0.020	mg/L	NC	20	101	80 - 120
9297251	Dissolved Bromide (Br-)	2024/03/27	101	80 - 120	104	80 - 120	<1.0	mg/L	0.92	20		
9297403	Total Ammonia-N	2024/03/27	94	75 - 125	96	80 - 120	<0.050	mg/L	NC	20		
9297521	Dissolved Bromide (Br-)	2024/03/26	102	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
9297749	Dissolved Chloride (Cl-)	2024/03/27	91	80 - 120	96	80 - 120	<1.0	mg/L	NC	20		
9297758	Dissolved Sulphate (SO4)	2024/03/27	88	75 - 125	92	80 - 120	<1.0	mg/L	NC	20		
9299440	Total Suspended Solids	2024/03/28			100	80 - 120	<10	mg/L	14	20		
9299756	Mercury (Hg)	2024/03/27	102	75 - 125	113	80 - 120	<0.00010	mg/L	NC	20		
9300454	Total Dissolved Solids	2024/03/28			98	80 - 120	<10	mg/L	5.1	20		
9301589	Dissolved Aluminum (Al)	2024/03/28	104	80 - 120	104	80 - 120	<4.9	ug/L				
9301589	Dissolved Antimony (Sb)	2024/03/28	110	80 - 120	106	80 - 120	<0.50	ug/L	15	20		
9301589	Dissolved Arsenic (As)	2024/03/28	104	80 - 120	101	80 - 120	<1.0	ug/L	0	20		
9301589	Dissolved Barium (Ba)	2024/03/28	101	80 - 120	99	80 - 120	<2.0	ug/L	5.2	20		
9301589	Dissolved Beryllium (Be)	2024/03/28	105	80 - 120	103	80 - 120	<0.40	ug/L	NC	20		
9301589	Dissolved Bismuth (Bi)	2024/03/28	96	80 - 120	97	80 - 120	<1.0	ug/L				
9301589	Dissolved Boron (B)	2024/03/28	103	80 - 120	98	80 - 120	<10	ug/L	1.7	20		
9301589	Dissolved Cadmium (Cd)	2024/03/28	103	80 - 120	101	80 - 120	<0.090	ug/L	0.96	20		
9301589	Dissolved Calcium (Ca)	2024/03/28	NC	80 - 120	102	80 - 120	<200	ug/L				
9301589	Dissolved Cesium (Cs)	2024/03/28	101	80 - 120	101	80 - 120	<0.20	ug/L				
9301589	Dissolved Chromium (Cr)	2024/03/28	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
9301589	Dissolved Cobalt (Co)	2024/03/28	98	80 - 120	96	80 - 120	<0.50	ug/L	0.99	20		
9301589	Dissolved Copper (Cu)	2024/03/28	100	80 - 120	99	80 - 120	<0.90	ug/L	5.3	20		
9301589	Dissolved Iron (Fe)	2024/03/28	103	80 - 120	99	80 - 120	<100	ug/L				
9301589	Dissolved Lead (Pb)	2024/03/28	97	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9301589	Dissolved Lithium (Li)	2024/03/28	99	80 - 120	104	80 - 120	<5.0	ug/L				
9301589	Dissolved Magnesium (Mg)	2024/03/28	NC	80 - 120	100	80 - 120	<50	ug/L				
9301589	Dissolved Manganese (Mn)	2024/03/28	101	80 - 120	100	80 - 120	<2.0	ug/L				
9301589	Dissolved Molybdenum (Mo)	2024/03/28	108	80 - 120	102	80 - 120	<0.50	ug/L	3.7	20		
9301589	Dissolved Nickel (Ni)	2024/03/28	97	80 - 120	97	80 - 120	<1.0	ug/L	2.0	20		
9301589	Dissolved Phosphorus (P)	2024/03/28	106	80 - 120	105	80 - 120	<100	ug/L				
9301589	Dissolved Potassium (K)	2024/03/28	104	80 - 120	102	80 - 120	<200	ug/L				
9301589	Dissolved Rubidium (Rb)	2024/03/28	101	80 - 120	100	80 - 120	<0.20	ug/L				
9301589	Dissolved Selenium (Se)	2024/03/28	105	80 - 120	102	80 - 120	<2.0	ug/L	0.40	20		
9301589	Dissolved Silicon (Si)	2024/03/28	102	80 - 120	101	80 - 120	<50	ug/L				
9301589	Dissolved Silver (Ag)	2024/03/28	93	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
9301589	Dissolved Sodium (Na)	2024/03/28	NC	80 - 120	101	80 - 120	<100	ug/L	1.4	20		
9301589	Dissolved Strontium (Sr)	2024/03/28	NC	80 - 120	101	80 - 120	<1.0	ug/L				
9301589	Dissolved Tellurium (Te)	2024/03/28	103	80 - 120	103	80 - 120	<1.0	ug/L				
9301589	Dissolved Thallium (Tl)	2024/03/28	99	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
9301589	Dissolved Thorium (Th)	2024/03/28	99	80 - 120	97	80 - 120	<2.0	ug/L				
9301589	Dissolved Tin (Sn)	2024/03/28	106	80 - 120	104	80 - 120	<1.0	ug/L				
9301589	Dissolved Titanium (Ti)	2024/03/28	104	80 - 120	102	80 - 120	<5.0	ug/L				
9301589	Dissolved Tungsten (W)	2024/03/28	104	80 - 120	99	80 - 120	<1.0	ug/L				
9301589	Dissolved Uranium (U)	2024/03/28	100	80 - 120	99	80 - 120	<0.10	ug/L	2.5	20		
9301589	Dissolved Vanadium (V)	2024/03/28	102	80 - 120	99	80 - 120	<0.50	ug/L	5.3	20		
9301589	Dissolved Zinc (Zn)	2024/03/28	101	80 - 120	98	80 - 120	<5.0	ug/L	1.3	20		
9301589	Dissolved Zirconium (Zr)	2024/03/28	111	80 - 120	104	80 - 120	<1.0	ug/L				
9302128	Acidity	2024/03/28	100	80 - 120	106	80 - 120	<5.0	mg/L	4.9	25		
9302202	Total Aluminum (Al)	2024/03/28	106	80 - 120	95	80 - 120	<4.9	ug/L				
9302202	Total Antimony (Sb)	2024/03/28	109	80 - 120	106	80 - 120	<0.50	ug/L				
9302202	Total Arsenic (As)	2024/03/28	101	80 - 120	98	80 - 120	<1.0	ug/L				
9302202	Total Barium (Ba)	2024/03/28	97	80 - 120	94	80 - 120	<2.0	ug/L				
9302202	Total Beryllium (Be)	2024/03/28	NC	80 - 120	108	80 - 120	<0.40	ug/L				
9302202	Total Bismuth (Bi)	2024/03/28	93	80 - 120	96	80 - 120	<1.0	ug/L				
9302202	Total Boron (B)	2024/03/28	95	80 - 120	99	80 - 120	<10	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9302202	Total Cadmium (Cd)	2024/03/28	102	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
9302202	Total Calcium (Ca)	2024/03/28	NC	80 - 120	97	80 - 120	<200	ug/L				
9302202	Total Cesium (Cs)	2024/03/28	99	80 - 120	96	80 - 120	<0.20	ug/L				
9302202	Total Chromium (Cr)	2024/03/28	96	80 - 120	91	80 - 120	<5.0	ug/L	NC	20		
9302202	Total Cobalt (Co)	2024/03/28	96	80 - 120	95	80 - 120	<0.50	ug/L				
9302202	Total Copper (Cu)	2024/03/28	103	80 - 120	98	80 - 120	<0.90	ug/L	3.3	20		
9302202	Total Iron (Fe)	2024/03/28	96	80 - 120	96	80 - 120	<100	ug/L				
9302202	Total Lead (Pb)	2024/03/28	97	80 - 120	99	80 - 120	<0.50	ug/L	0.049	20		
9302202	Total Lithium (Li)	2024/03/28	103	80 - 120	104	80 - 120	<5.0	ug/L				
9302202	Total Magnesium (Mg)	2024/03/28	91	80 - 120	93	80 - 120	<50	ug/L				
9302202	Total Manganese (Mn)	2024/03/28	92	80 - 120	93	80 - 120	<2.0	ug/L				
9302202	Total Molybdenum (Mo)	2024/03/28	108	80 - 120	103	80 - 120	<0.50	ug/L				
9302202	Total Nickel (Ni)	2024/03/28	94	80 - 120	93	80 - 120	<1.0	ug/L	4.6	20		
9302202	Total Phosphorus (P)	2024/03/28	99	80 - 120	94	80 - 120	<100	ug/L	15	20		
9302202	Total Potassium (K)	2024/03/28	96	80 - 120	94	80 - 120	<200	ug/L				
9302202	Total Rubidium (Rb)	2024/03/28	96	80 - 120	94	80 - 120	<0.20	ug/L				
9302202	Total Selenium (Se)	2024/03/28	105	80 - 120	106	80 - 120	<2.0	ug/L				
9302202	Total Silicon (Si)	2024/03/28	98	80 - 120	95	80 - 120	<50	ug/L				
9302202	Total Silver (Ag)	2024/03/28	99	80 - 120	99	80 - 120	<0.090	ug/L				
9302202	Total Sodium (Na)	2024/03/28	NC	80 - 120	94	80 - 120	<100	ug/L				
9302202	Total Strontium (Sr)	2024/03/28	NC	80 - 120	94	80 - 120	<1.0	ug/L				
9302202	Total Tellurium (Te)	2024/03/28	100	80 - 120	103	80 - 120	<1.0	ug/L				
9302202	Total Thallium (Tl)	2024/03/28	96	80 - 120	99	80 - 120	<0.050	ug/L				
9302202	Total Thorium (Th)	2024/03/28	96	80 - 120	98	80 - 120	<2.0	ug/L				
9302202	Total Tin (Sn)	2024/03/28	105	80 - 120	103	80 - 120	<1.0	ug/L				
9302202	Total Titanium (Ti)	2024/03/28	97	80 - 120	95	80 - 120	<5.0	ug/L				
9302202	Total Tungsten (W)	2024/03/28	103	80 - 120	104	80 - 120	<1.0	ug/L				
9302202	Total Uranium (U)	2024/03/28	99	80 - 120	102	80 - 120	<0.10	ug/L				
9302202	Total Vanadium (V)	2024/03/28	94	80 - 120	91	80 - 120	<0.50	ug/L				
9302202	Total Zinc (Zn)	2024/03/28	99	80 - 120	100	80 - 120	<5.0	ug/L	2.1	20		
9302202	Total Zirconium (Zr)	2024/03/28	103	80 - 120	98	80 - 120	<1.0	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9302526	Mercury (Hg)	2024/04/01	111	75 - 125	116	80 - 120	<0.00010	mg/L	NC	20		
9302809	Mercury (Hg)	2024/04/01	116	75 - 125	119	80 - 120	<0.00010	mg/L	NC	20		
9302903	Total Aluminum (Al)	2024/04/01	107	80 - 120	96	80 - 120	<4.9	ug/L				
9302903	Total Antimony (Sb)	2024/04/01	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
9302903	Total Arsenic (As)	2024/04/01	100	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
9302903	Total Barium (Ba)	2024/04/01	96	80 - 120	95	80 - 120	<2.0	ug/L				
9302903	Total Beryllium (Be)	2024/04/01	96	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
9302903	Total Bismuth (Bi)	2024/04/01	91	80 - 120	93	80 - 120	<1.0	ug/L				
9302903	Total Boron (B)	2024/04/01	96	80 - 120	96	80 - 120	<10	ug/L	0.14	20		
9302903	Total Cadmium (Cd)	2024/04/01	96	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
9302903	Total Calcium (Ca)	2024/04/01	NC	80 - 120	96	80 - 120	<200	ug/L				
9302903	Total Cesium (Cs)	2024/04/01	97	80 - 120	96	80 - 120	<0.20	ug/L				
9302903	Total Chromium (Cr)	2024/04/01	95	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
9302903	Total Cobalt (Co)	2024/04/01	95	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
9302903	Total Copper (Cu)	2024/04/01	94	80 - 120	94	80 - 120	<0.90	ug/L	NC	20		
9302903	Total Iron (Fe)	2024/04/01	96	80 - 120	97	80 - 120	<100	ug/L	2.1	20		
9302903	Total Lead (Pb)	2024/04/01	95	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
9302903	Total Lithium (Li)	2024/04/01	98	80 - 120	99	80 - 120	<5.0	ug/L				
9302903	Total Magnesium (Mg)	2024/04/01	96	80 - 120	96	80 - 120	<50	ug/L				
9302903	Total Manganese (Mn)	2024/04/01	95	80 - 120	97	80 - 120	<2.0	ug/L				
9302903	Total Molybdenum (Mo)	2024/04/01	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
9302903	Total Nickel (Ni)	2024/04/01	96	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
9302903	Total Phosphorus (P)	2024/04/01	103	80 - 120	92	80 - 120	<50	ug/L				
9302903	Total Potassium (K)	2024/04/01	94	80 - 120	93	80 - 120	<200	ug/L				
9302903	Total Rubidium (Rb)	2024/04/01	96	80 - 120	96	80 - 120	<0.20	ug/L				
9302903	Total Selenium (Se)	2024/04/01	102	80 - 120	103	80 - 120	<2.0	ug/L	NC	20		
9302903	Total Silicon (Si)	2024/04/01	97	80 - 120	97	80 - 120	<50	ug/L				
9302903	Total Silver (Ag)	2024/04/01	95	80 - 120	94	80 - 120	<0.090	ug/L	NC	20		
9302903	Total Sodium (Na)	2024/04/01	94	80 - 120	97	80 - 120	<100	ug/L				
9302903	Total Strontium (Sr)	2024/04/01	99	80 - 120	97	80 - 120	<1.0	ug/L				
9302903	Total Tellurium (Te)	2024/04/01	100	80 - 120	100	80 - 120	<1.0	ug/L				

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9302903	Total Thallium (Tl)	2024/04/01	96	80 - 120	96	80 - 120	<0.050	ug/L	NC	20		
9302903	Total Thorium (Th)	2024/04/01	97	80 - 120	97	80 - 120	<2.0	ug/L				
9302903	Total Tin (Sn)	2024/04/01	100	80 - 120	98	80 - 120	<1.0	ug/L				
9302903	Total Titanium (Ti)	2024/04/01	96	80 - 120	98	80 - 120	<5.0	ug/L				
9302903	Total Tungsten (W)	2024/04/01	97	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
9302903	Total Uranium (U)	2024/04/01	97	80 - 120	96	80 - 120	<0.10	ug/L	1.4	20		
9302903	Total Vanadium (V)	2024/04/01	97	80 - 120	97	80 - 120	<0.50	ug/L	6.7	20		
9302903	Total Zinc (Zn)	2024/04/01	101	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
9302903	Total Zirconium (Zr)	2024/04/01	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
9303219	Dissolved Mercury (Hg)	2024/04/01	112	75 - 125	114	80 - 120	<0.10	ug/L	NC	20		
9306800	Total Dissolved Solids	2024/04/02			100	80 - 120	<10	mg/L	19	20		
9330925	Total Yttrium (Y)	2024/04/01			100	80 - 120	<2.0	ug/L	NC	30		
9330926	Dissolved Cerium (Ce)	2024/04/01			98	80 - 120	<0.30	ug/L				
9330926	Dissolved Dysprosium (Dy)	2024/04/01			101	80 - 120	<2.0	ug/L				
9330926	Dissolved Erbium (Er)	2024/04/01			99	80 - 120	<0.50	ug/L				
9330926	Dissolved Europium (Eu)	2024/04/01			95	80 - 120	<0.40	ug/L				
9330926	Dissolved Gadolinium (Gd)	2024/04/01			100	80 - 120	<0.50	ug/L				
9330926	Dissolved Gold (Au)	2024/04/01			87	80 - 120	<2.0	ug/L				
9330926	Dissolved Holmium (Ho)	2024/04/01			100	80 - 120	<0.30	ug/L				
9330926	Dissolved Iridium (Ir)	2024/04/01			101	80 - 120	<2.0	ug/L				
9330926	Dissolved Lanthanum (La)	2024/04/01			101	80 - 120	<0.30	ug/L				
9330926	Dissolved Lutetium (Lu)	2024/04/01			98	80 - 120	<1.0	ug/L				
9330926	Dissolved Neodymium (Nd)	2024/04/01			98	80 - 120	<2.0	ug/L				
9330926	Dissolved Palladium (Pd)	2024/04/01			104	80 - 120	<1.0	ug/L				
9330926	Dissolved Platinum (Pt)	2024/04/01			90	80 - 120	<3.0	ug/L				
9330926	Dissolved Praseodymium (Pr)	2024/04/01			98	80 - 120	<0.40	ug/L				
9330926	Dissolved Ruthenium (Ru)	2024/04/01			107	80 - 120	<0.20	ug/L				
9330926	Dissolved Samarium (Sm)	2024/04/01			99	80 - 120	<2.0	ug/L				
9330926	Dissolved Scandium (Sc)	2024/04/01			108	80 - 120	<3.0	ug/L				
9330926	Dissolved Tellurium (Te)	2024/04/01			94	80 - 120	<10	ug/L				
9330926	Dissolved Terbium (Tb)	2024/04/01			101	80 - 120	<1.0	ug/L				

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9330926	Dissolved Thulium (Tm)	2024/04/01			100	80 - 120	<0.30	ug/L				
9330926	Dissolved Ytterbium (Yb)	2024/04/01			98	80 - 120	<3.0	ug/L				
9330926	Dissolved Yttrium (Y)	2024/04/01			108	80 - 120	<2.0	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Supervisor-Afternoon Shift

Colleen Acker, B.Sc, Scientific Service Specialist

Zineb El Ouali
Membre OCQ#2021-051

Zineb El Ouali, Analyst 1

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
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Page ___ of ___	
Page ___ of ___	
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Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

BV JOB#:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	4	5	5
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	0	4	5
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	4	5	6
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	3	4	4
INTACT	✓			1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
[signature]	[signature]	2024/03/25	0900

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NONT-2024-03-1951

Bottle Order #: 979992

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:	
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500
	Mississauga ON L5N 7K2			Project Name:	
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:	
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	Michael Hildebrandt + BL

COC #: C#979992-01-01 | Project Manager: Ankita Bhalla

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Alkalinity/Anions/Conductivity/pH/Hardness	Chloride/Fluoride/Sulphate/NO23	Dissolved Organic Carbon (DOC)	Total Ammonia-N/Total Phosphorus	Total Dissolved Solids/TSS	Acidity (CaCO3) in water	Dissolved Mercury in Water by CVAA	Mercury in Water by CVAA	Dissolved Metals by ICPMS	Total Metals Analysis by ICPMS	# of Bottles	Comments
1		LL-02 1m	24/03/20	12 00	SW	Metals x1 Hg x1	X	X	X	X	X	X	X	X	X	X	10	
2		LL-02 27m	24/03/20	13 00	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	
3		LL-03 1m	24/03/20	15 00	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	
4		LL-03 15m	24/03/20	16 00	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	
5		WC-09	24/03/20	17 30	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	
6		WC-01	24/03/21	11 30	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	
7		WC-02	24/03/21	14 30	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	
8		Pike-02 1m	24/03/22	14 00	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	
9		Pike-02 8m	24/03/22	15 00	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	
10		DUP	24/03/20	—	SW	Metals x1 Hg x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	10	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	24/03/24	1430		24/03/25	08:00	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	See ACTR	Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #: 979992
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500		
				Project Name:		COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:		C#979992-01-02	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	Michael Hildebrandt + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558. ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality ____	
☐ Table ___	☐ PWQO ☐ Reg 406 Table ____	
	☐ Other ____	
Include Criteria on Certificate of Analysis (Y/N)? ____		

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Total Extractable Lanthanides-waters	Dissolved Lanthanides- waters							# of Bottles	Comments
1		LL-02 1m	24/03/20	1200	SW	Metals x1 Hg x1	X	X							10	
2		LL-02 27m	24/03/20	1300	SW	Metals x1 Hg x1	↓	↓							10	
3		LL-03 1m	24/03/20	1500	SW	Metals x1 Hg x1	↓	↓							10	
4		LL-03 15m	24/03/20	1600	SW	Metals x1 Hg x1	↓	↓							10	
5		WC-09	24/03/20	1730	SW	Metals x1 Hg x1	↓	↓							10	
6		WC-01	24/03/21	1130	SW	Metals x1 Hg x1	↓	↓							10	
7		WC-02	24/03/21	1430	SW	Metals x1 Hg x1	↓	↓							10	
8		Pike-02 1m	24/03/22	1400	SW	Metals x1 Hg x1	↓	↓							10	
9		Pike-02 8m	24/03/22	1500	SW	Metals x1 Hg x1	↓	↓							10	
10		DUP	24/03/20	—	SW	Metals x1 Hg x1	↓	↓							10	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	24/03/24	1430		024/03/25	08:00	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	See ACTR	Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			979992
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500		
	Mississauga ON L5N 7K2			Project Name:		COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:		C#979992-02-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	Michael Hildebrandt + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558. ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note; Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Alkalinity/Anions/Conductivity/pH/Hardness	Chloride/Fluoride/Sulphate/NO23	Dissolved Organic Carbon (DOC)	Total Ammonia-N/Total Phosphorus	Total Dissolved Solids/TSS	Acidity (CaCO3) in water	Dissolved Mercury in Water by CVAA	Mercury in Water by CVAA	Dissolved Metals by ICPMS	Total Metals Analysis by ICPMS	# of Bottles	Comments
1		Blank	24/03/22	1530	SW	Metals x1 Hg x1	X	X	X	X	X	X	X	X	X	X	10	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Michael Hildebrandt	24/03/24	1430		24/03/25	08:00		Time Sensitive	Temperature (°C) on Recel	Custody Seal	Yes	No
								See ACTR	Present		
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			979992
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#979992-02-02	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	Michael Hildebrandt + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality ____	
☐ Table ___	☐ PWQO ☐ Reg 406 Table ____	
	☐ Other ____	

Include Criteria on Certificate of Analysis (Y/N)? ____

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Total Extractable Lanthanides-waters	Dissolved Lanthanides- waters	# of Bottles	Comments
1		Blank	24/03/22	1530	SW	Metals x1 Hg x1	X	X	10	
2										
3										
4										
5										
6										
7										
8										
9										
10										

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted
Michael Hildebrandt	24/03/24	1430		24/03/25	08:00	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	See ACTR	Present		
		Intact		

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0003092.5894/500
Your C.O.C. #: C#992671-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401252
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4I1614
Received: 2024/06/14, 14:00

Sample Matrix: Water
Samples Received: 32

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity (CaCO3) in water (1)	12	N/A	2024/06/20	ATL SOP-00205	SM 24 2310B m
Acidity (CaCO3) in water (1)	20	N/A	2024/06/21	ATL SOP-00205	SM 24 2310B m
Alkalinity	4	N/A	2024/06/19	CAM SOP-00448	SM 24 2320 B m
Alkalinity	28	N/A	2024/06/20	CAM SOP-00448	SM 24 2320 B m
Anions	11	N/A	2024/06/19	CAM SOP-00435	SM 23 4110 B m
Anions	16	N/A	2024/06/20	CAM SOP-00435	SM 23 4110 B m
Anions	5	N/A	2024/06/21	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	2	N/A	2024/06/19	CAM SOP-00463	SM 24 4500-Cl E m
Chloride by Automated Colourimetry	19	N/A	2024/06/20	CAM SOP-00463	SM 24 4500-Cl E m
Chloride by Automated Colourimetry	11	N/A	2024/06/21	CAM SOP-00463	SM 24 4500-Cl E m
Conductivity	24	N/A	2024/06/19	CAM SOP-00414	SM 24 2510 m
Conductivity	8	N/A	2024/06/20	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (4)	10	N/A	2024/06/18	CAM SOP-00446	SM 24 5310 B m
Dissolved Organic Carbon (DOC) (4)	22	N/A	2024/06/19	CAM SOP-00446	SM 24 5310 B m
Fluoride	4	2024/06/18	2024/06/19	CAM SOP-00449	SM 24 4500-F C m
Fluoride	20	2024/06/19	2024/06/19	CAM SOP-00449	SM 24 4500-F C m
Fluoride	8	2024/06/19	2024/06/20	CAM SOP-00449	SM 24 4500-F C m
Hardness (calculated as CaCO3)	2	N/A	2024/06/24	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	13	N/A	2024/06/25	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	17	N/A	2024/07/11	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Mercury in Water by CVAA	20	2024/06/20	2024/06/21	CAM SOP-00453	EPA 7470A m
Dissolved Mercury in Water by CVAA	12	2024/06/21	2024/06/25	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	30	2024/06/20	2024/06/21	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	2	2024/06/20	2024/06/25	CAM SOP-00453	EPA 7470A m
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	32	N/A	2024/07/25	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved) (2, 5)	32	N/A	2024/06/20	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (dissolved) (2, 5)	16	N/A	2024/06/21	BBY7SOP-00002	EPA 6020b R2 m

Your Project #: CA0003092.5894/500
Your C.O.C. #: C#992671-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401252
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4I1614
Received: 2024/06/14, 14:00

Sample Matrix: Water
Samples Received: 32

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICPMS Low Level (dissolved) (2, 5)	12	N/A	2024/06/22	BBY7SOP-00002	EPA 6020b R2 m
Total Extractable Lanthanides-waters (3, 6)	2	2024/06/28	2024/06/30	STL SOP-00071	MA. 200-Met 1.2 R7 m
Total Extractable Lanthanides-waters (3, 6)	24	2024/06/28	2024/07/01	STL SOP-00071	MA. 200-Met 1.2 R7 m
Total Extractable Lanthanides-waters (3, 6)	6	2024/06/28	2024/07/09	STL SOP-00071	MA. 200-Met 1.2 R7 m
Dissolved Lanthanides- waters (3, 6)	21	N/A	2024/07/10	STL SOP-00071	MA 200-Met 1.2 R7 m
Dissolved Lanthanides- waters (3, 6)	11	N/A	2024/07/09	STL SOP-00071	MA 200-Met 1.2 R7 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	32	N/A	2024/07/25	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total) (2)	32	N/A	2024/06/20	BBY7SOP-00002	EPA 6020b R2 m
Total Ammonia-N	32	N/A	2024/06/21	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (7)	2	N/A	2024/06/18	CAM SOP-00440	SM 24 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Water (7)	20	N/A	2024/06/19	CAM SOP-00440	SM 24 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Water (7)	2	N/A	2024/06/20	CAM SOP-00440	SM 24 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Water (7)	8	N/A	2024/06/21	CAM SOP-00440	SM 24 4500-NO3I/NO2B
pH (8)	4	2024/06/18	2024/06/19	CAM SOP-00413	SM 24th - 4500H+ B
pH (8)	20	2024/06/19	2024/06/19	CAM SOP-00413	SM 24th - 4500H+ B
pH (8)	8	2024/06/19	2024/06/20	CAM SOP-00413	SM 24th - 4500H+ B
Sulphate by Automated Turbidimetry	2	N/A	2024/06/19	CAM SOP-00464	SM 24 4500-SO42- E m
Sulphate by Automated Turbidimetry	30	N/A	2024/06/20	CAM SOP-00464	SM 24 4500-SO42- E m
Total Dissolved Solids	32	2024/06/18	2024/06/19	CAM SOP-00428	SM 24 2540C m
Total Phosphorus (Colourimetric)	11	2024/06/19	2024/06/20	CAM SOP-00407	SM 24 4500-P I
Total Phosphorus (Colourimetric)	21	2024/06/19	2024/06/21	CAM SOP-00407	SM 24 4500-P I
Total Suspended Solids	32	2024/06/18	2024/06/19	CAM SOP-00428	SM 24 2540D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement

Your Project #: CA0003092.5894/500
Your C.O.C. #: C#992671-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401252
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4I1614
Received: 2024/06/14, 14:00

Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way , Burnaby, BC, V5G 1K5
(3) This test was performed by Bureau Veritas Montreal., 889 Montée de Liesse , Ville St-Laurent, QC, H4T 1P5
(4) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(5) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) Non-accredited test method
(7) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(8) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR809			ZLR809			ZLR810		
Sampling Date		2024/06/04 13:30			2024/06/04 13:30			2024/06/04 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-12	RDL	QC Batch	WC-12 Lab-Dup	RDL	QC Batch	DL-01	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	17	1.0	9459733				17	1.0	9459733
Inorganics										
Acidity	mg/L	<5.0	5.0	9467635	<5.0	5.0	9467635	<5.0	5.0	9467635
Total Ammonia-N	mg/L	0.080	0.050	9466000				<0.050	0.050	9465759
Conductivity	mS/cm	0.0453	N/A	9465041				0.0475	N/A	9465041
Total Dissolved Solids	mg/L	35	10	9462294				20	10	9462294
Fluoride (F-)	mg/L	<0.10	0.10	9465049				<0.10	0.10	9465049
Dissolved Organic Carbon	mg/L	4.5	0.40	9462887				4.0	0.40	9462843
pH	pH	7.33		9465054				7.44		9465054
Total Phosphorus	mg/L	<0.020	0.020	9466019				<0.020	0.020	9465167
Total Suspended Solids	mg/L	<10	10	9461866				<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	2.4	1.0	9464972				2.2	1.0	9464972
Alkalinity (Total as CaCO3)	mg/L	14	1.0	9465021				16	1.0	9465021
Dissolved Chloride (Cl-)	mg/L	2.7	1.0	9464955				2.5	1.0	9464955
Nitrite (N)	mg/L	<0.010	0.010	9464890				<0.010	0.010	9464890
Nitrate (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9464890
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9464890
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9465488				<1.0	1.0	9465488
Metals										
Dissolved Aluminum (Al)	ug/L	39.3	0.50	9475516				31.6	0.50	9475516
Total Aluminum (Al)	ug/L	70.9	0.50	9475515				45.2	0.50	9475515
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9475516				<0.020	0.020	9475516
Total Antimony (Sb)	ug/L	<0.020	0.020	9475515				<0.020	0.020	9475515
Dissolved Arsenic (As)	ug/L	0.058	0.020	9475516				0.057	0.020	9475516
Total Arsenic (As)	ug/L	0.078	0.020	9475515				0.058	0.020	9475515
Dissolved Barium (Ba)	ug/L	10.3	0.020	9475516				8.23	0.020	9475516
Total Barium (Ba)	ug/L	9.58	0.020	9475515				8.92	0.020	9475515
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9475516				<0.010	0.010	9475516
Total Beryllium (Be)	ug/L	0.014	0.010	9475515				<0.010	0.010	9475515

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR809			ZLR809			ZLR810		
Sampling Date		2024/06/04 13:30			2024/06/04 13:30			2024/06/04 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-12	RDL	QC Batch	WC-12 Lab-Dup	RDL	QC Batch	DL-01	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Boron (B)	ug/L	<10	10	9475516				<10	10	9475516
Total Boron (B)	ug/L	<10	10	9475515				<10	10	9475515
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Cadmium (Cd)	ug/L	0.0193	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Chromium (Cr)	ug/L	0.36	0.10	9475516				0.34	0.10	9475516
Total Chromium (Cr)	ug/L	0.45	0.10	9475515				0.43	0.10	9475515
Dissolved Cobalt (Co)	ug/L	0.0408	0.0050	9475516				0.0210	0.0050	9475516
Total Cobalt (Co)	ug/L	0.0830	0.0050	9475515				0.0313	0.0050	9475515
Dissolved Copper (Cu)	ug/L	1.63	0.050	9475517				0.438	0.050	9475516
Total Copper (Cu)	ug/L	0.555	0.050	9475515				0.445	0.050	9475515
Dissolved Iron (Fe)	ug/L	48.1	1.0	9475516				29.6	1.0	9475516
Total Iron (Fe)	ug/L	143	1.0	9475515				64.8	1.0	9475515
Dissolved Lead (Pb)	ug/L	0.0291	0.0050	9475516				0.0177	0.0050	9475516
Total Lead (Pb)	ug/L	0.0726	0.0050	9475515				0.0408	0.0050	9475515
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475516
Total Lithium (Li)	ug/L	<0.50	0.50	9475515				<0.50	0.50	9475515
Dissolved Manganese (Mn)	ug/L	28.7	0.050	9475516				15.5	0.050	9475516
Total Manganese (Mn)	ug/L	27.6	0.050	9475515				21.2	0.050	9475515
Dissolved Molybdenum (Mo)	ug/L	0.381	0.050	9475516				0.552	0.050	9475516
Total Molybdenum (Mo)	ug/L	0.399	0.050	9475515				0.684	0.050	9475515
Dissolved Nickel (Ni)	ug/L	0.500	0.020	9475516				0.325	0.020	9475516
Total Nickel (Ni)	ug/L	0.522	0.020	9475515				0.375	0.020	9475515
Dissolved Phosphorus (P)	ug/L	4.1	2.0	9475516				4.2	2.0	9475516
Total Phosphorus (P)	ug/L	13.8	2.0	9475515				7.3	2.0	9475515
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9475516				<0.040	0.040	9475516
Total Silicon (Si)	ug/L	2140	50	9475515				2200	50	9475515
Total Selenium (Se)	ug/L	<0.040	0.040	9475515				<0.040	0.040	9475515
Dissolved Silicon (Si)	ug/L	2020	50	9475516				2120	50	9475516
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR809			ZLR809			ZLR810		
Sampling Date		2024/06/04 13:30			2024/06/04 13:30			2024/06/04 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-12	RDL	QC Batch	WC-12 Lab-Dup	RDL	QC Batch	DL-01	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Strontium (Sr)	ug/L	14.2	0.050	9475516				13.9	0.050	9475516
Total Strontium (Sr)	ug/L	14.1	0.050	9475515				14.6	0.050	9475515
Dissolved Thallium (Tl)	ug/L	0.0051	0.0020	9475516				0.0035	0.0020	9475516
Total Thallium (Tl)	ug/L	0.0078	0.0020	9475515				0.0041	0.0020	9475515
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Tin (Sn)	ug/L	<0.20	0.20	9475515				<0.20	0.20	9475515
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475516
Total Titanium (Ti)	ug/L	1.66	0.50	9475515				1.00	0.50	9475515
Dissolved Uranium (U)	ug/L	0.0439	0.0020	9475516				0.0510	0.0020	9475516
Total Uranium (U)	ug/L	0.0768	0.0020	9475515				0.0590	0.0020	9475515
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Vanadium (V)	ug/L	<0.20	0.20	9475515				<0.20	0.20	9475515
Dissolved Zinc (Zn)	ug/L	3.78	0.10	9475517				1.69	0.10	9475517
Total Zinc (Zn)	ug/L	1.59	0.10	9475515				1.06	0.10	9475515
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9475516				<0.10	0.10	9475516
Total Zirconium (Zr)	ug/L	<0.10	0.10	9475515				<0.10	0.10	9475515
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9507872				<2.0	2.0	9507872
Total Yttrium (Y)	ug/L	<2.0	2.0	9507871				<2.0	2.0	9507871
Dissolved Calcium (Ca)	mg/L	4.52	0.050	9539510				4.67	0.050	9539510
Total Calcium (Ca)	mg/L	4.36	0.050	9539509				4.89	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	1.32	0.050	9539510				1.37	0.050	9539510
Total Magnesium (Mg)	mg/L	1.28	0.050	9539509				1.41	0.050	9539509
Dissolved Potassium (K)	mg/L	1.03	0.050	9539510				0.960	0.050	9539510
Total Potassium (K)	mg/L	0.987	0.050	9539509				1.01	0.050	9539509
Dissolved Sodium (Na)	mg/L	2.07	0.050	9539510				1.88	0.050	9539510
Total Sodium (Na)	mg/L	2.05	0.050	9539509				1.90	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9539510				<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	3.0	9539509				<3.0	3.0	9539509

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR811			ZLR811			ZLR812		
Sampling Date		2024/06/05 12:00			2024/06/05 12:00			2024/06/05 13:30		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-05	RDL	QC Batch	WC-05 Lab-Dup	RDL	QC Batch	WC-06	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	43	1.0	9459733				58	1.0	9459733
Inorganics										
Acidity	mg/L	<5.0	5.0	9467635				<5.0	5.0	9467635
Total Ammonia-N	mg/L	<0.050	0.050	9466000				<0.050	0.050	9465759
Conductivity	mS/cm	0.0884	N/A	9465041				0.114	N/A	9465041
Total Dissolved Solids	mg/L	60	10	9462294				70	10	9462294
Fluoride (F-)	mg/L	<0.10	0.10	9465049				<0.10	0.10	9465049
Dissolved Organic Carbon	mg/L	4.0	0.40	9462843				4.7	0.40	9462887
pH	pH	7.79		9465054				7.81		9465054
Total Phosphorus	mg/L	<0.020	0.020	9465167				<0.020	0.020	9466019
Total Suspended Solids	mg/L	<10	10	9461866				<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	2.7	1.0	9464972				3.1	1.0	9464972
Alkalinity (Total as CaCO3)	mg/L	43	1.0	9465021				58	1.0	9465021
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9464955				<1.0	1.0	9464955
Nitrite (N)	mg/L	<0.010	0.010	9464890				<0.010	0.010	9464890
Nitrate (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9464890
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9464890
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9464946				<1.0	1.0	9464946
Metals										
Dissolved Aluminum (Al)	ug/L	7.46	0.50	9475516				3.31	0.50	9475516
Total Aluminum (Al)	ug/L	14.0	0.50	9475515	14.1	0.50	9475515	5.12	0.50	9475515
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9475516				<0.020	0.020	9475516
Total Antimony (Sb)	ug/L	<0.020	0.020	9475515	<0.020	0.020	9475515	<0.020	0.020	9475515
Dissolved Arsenic (As)	ug/L	0.052	0.020	9475516				0.069	0.020	9475516
Total Arsenic (As)	ug/L	0.046	0.020	9475515	0.048	0.020	9475515	0.060	0.020	9475515
Dissolved Barium (Ba)	ug/L	14.1	0.020	9475516				13.7	0.020	9475516
Total Barium (Ba)	ug/L	15.0	0.020	9475515	14.7	0.020	9475515	15.9	0.020	9475515
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9475516				<0.010	0.010	9475516
Total Beryllium (Be)	ug/L	<0.010	0.010	9475515	<0.010	0.010	9475515	<0.010	0.010	9475515

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N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR811			ZLR811			ZLR812		
Sampling Date		2024/06/05 12:00			2024/06/05 12:00			2024/06/05 13:30		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-05	RDL	QC Batch	WC-05 Lab-Dup	RDL	QC Batch	WC-06	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9475515	<0.0050	0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Boron (B)	ug/L	<10	10	9475516				<10	10	9475516
Total Boron (B)	ug/L	<10	10	9475515	<10	10	9475515	<10	10	9475515
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9475515	<0.0050	0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Chromium (Cr)	ug/L	0.15	0.10	9475516				0.15	0.10	9475516
Total Chromium (Cr)	ug/L	0.15	0.10	9475515	0.18	0.10	9475515	0.15	0.10	9475515
Dissolved Cobalt (Co)	ug/L	0.0118	0.0050	9475516				0.0130	0.0050	9475516
Total Cobalt (Co)	ug/L	0.0154	0.0050	9475515	0.0142	0.0050	9475515	0.0135	0.0050	9475515
Dissolved Copper (Cu)	ug/L	0.413	0.050	9475516				1.80	0.050	9475517
Total Copper (Cu)	ug/L	0.380	0.050	9475515	0.369	0.050	9475515	0.130	0.050	9475515
Dissolved Iron (Fe)	ug/L	58.5	1.0	9475516				22.0	1.0	9475516
Total Iron (Fe)	ug/L	105	1.0	9475515	106	1.0	9475515	62.9	1.0	9475515
Dissolved Lead (Pb)	ug/L	0.0059	0.0050	9475516				0.0158	0.0050	9475517
Total Lead (Pb)	ug/L	0.0179	0.0050	9475515	0.0180	0.0050	9475515	0.0056	0.0050	9475515
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475516
Total Lithium (Li)	ug/L	<0.50	0.50	9475515	<0.50	0.50	9475515	<0.50	0.50	9475515
Dissolved Manganese (Mn)	ug/L	11.4	0.050	9475516				5.11	0.050	9475516
Total Manganese (Mn)	ug/L	15.9	0.050	9475515	16.1	0.050	9475515	42.1	0.050	9475515
Dissolved Molybdenum (Mo)	ug/L	0.300	0.050	9475516				0.570	0.050	9475516
Total Molybdenum (Mo)	ug/L	0.376	0.050	9475515	0.372	0.050	9475515	0.538	0.050	9475515
Dissolved Nickel (Ni)	ug/L	0.187	0.020	9475516				0.151	0.020	9475517
Total Nickel (Ni)	ug/L	0.211	0.020	9475515	0.238	0.020	9475515	0.111	0.020	9475515
Dissolved Phosphorus (P)	ug/L	4.4	2.0	9475516				3.9	2.0	9475516
Total Phosphorus (P)	ug/L	3.8	2.0	9475515	3.4	2.0	9475515	5.4	2.0	9475515
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9475516				<0.040	0.040	9475516
Total Silicon (Si)	ug/L	1500	50	9475515	1500	50	9475515	2010	50	9475515
Total Selenium (Se)	ug/L	0.044	0.040	9475515	<0.040	0.040	9475515	<0.040	0.040	9475515
Dissolved Silicon (Si)	ug/L	1470	50	9475516				1940	50	9475516
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR811			ZLR811			ZLR812		
Sampling Date		2024/06/05 12:00			2024/06/05 12:00			2024/06/05 13:30		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-05	RDL	QC Batch	WC-05 Lab-Dup	RDL	QC Batch	WC-06	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.0050	0.0050	9475515	<0.0050	0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Strontium (Sr)	ug/L	14.0	0.050	9475516				10.9	0.050	9475516
Total Strontium (Sr)	ug/L	14.7	0.050	9475515	14.6	0.050	9475515	11.5	0.050	9475515
Dissolved Thallium (Tl)	ug/L	0.0027	0.0020	9475516				<0.0020	0.0020	9475516
Total Thallium (Tl)	ug/L	0.0022	0.0020	9475515	0.0029	0.0020	9475515	<0.0020	0.0020	9475515
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Tin (Sn)	ug/L	<0.20	0.20	9475515	<0.20	0.20	9475515	<0.20	0.20	9475515
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475516
Total Titanium (Ti)	ug/L	<0.50	0.50	9475515	<0.50	0.50	9475515	<0.50	0.50	9475515
Dissolved Uranium (U)	ug/L	0.0803	0.0020	9475516				0.106	0.0020	9475516
Total Uranium (U)	ug/L	0.0886	0.0020	9475515	0.0953	0.0020	9475515	0.112	0.0020	9475515
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Vanadium (V)	ug/L	<0.20	0.20	9475515	<0.20	0.20	9475515	<0.20	0.20	9475515
Dissolved Zinc (Zn)	ug/L	0.97	0.10	9475516				3.95	0.10	9475517
Total Zinc (Zn)	ug/L	1.18	0.10	9475515	1.12	0.10	9475515	0.90	0.10	9475515
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9475516				<0.10	0.10	9475516
Total Zirconium (Zr)	ug/L	<0.10	0.10	9475515	<0.10	0.10	9475515	<0.10	0.10	9475515
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9507872				<2.0	2.0	9507872
Total Yttrium (Y)	ug/L	<2.0	2.0	9507873				<2.0	2.0	9507873
Dissolved Calcium (Ca)	mg/L	10.1	0.050	9539510				13.0	0.050	9539510
Total Calcium (Ca)	mg/L	10.2	0.050	9539509				13.4	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	4.33	0.050	9539510				6.05	0.050	9539510
Total Magnesium (Mg)	mg/L	4.44	0.050	9539509				6.33	0.050	9539509
Dissolved Potassium (K)	mg/L	0.863	0.050	9539510				0.798	0.050	9539510
Total Potassium (K)	mg/L	0.885	0.050	9539509				0.814	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.355	0.050	9539510				0.399	0.050	9539510
Total Sodium (Na)	mg/L	0.400	0.050	9539509				0.401	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9539510				<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	3.0	9539509				<3.0	3.0	9539509

RDL = Reportable Detection Limit
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR812			ZLR813			ZLR813		
Sampling Date		2024/06/05 13:30			2024/06/05 15:00			2024/06/05 15:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-06 Lab-Dup	RDL	QC Batch	WC-07	RDL	QC Batch	WC-07 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				47	1.0	9459733			
Inorganics										
Acidity	mg/L				<5.0	5.0	9467635			
Total Ammonia-N	mg/L				<0.050	0.050	9466000	<0.050	0.050	9466000
Conductivity	mS/cm	0.114	N/A	9465041	0.0892	N/A	9466847			
Total Dissolved Solids	mg/L				25	10	9462288	25	10	9462288
Fluoride (F-)	mg/L	<0.10	0.10	9465049	<0.10	0.10	9466843			
Dissolved Organic Carbon	mg/L				5.0	0.40	9462887			
pH	pH	7.86		9465054	7.83		9466844			
Total Phosphorus	mg/L				<0.020	0.020	9465167			
Total Suspended Solids	mg/L				<10	10	9462279			
Dissolved Sulphate (SO4)	mg/L				1.5	1.0	9466859			
Alkalinity (Total as CaCO3)	mg/L	58	1.0	9465021	46	1.0	9466845			
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9466858			
Nitrite (N)	mg/L				<0.010	0.010	9465675			
Nitrate (N)	mg/L				<0.10	0.10	9465675			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	9465675			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9465488			
Metals										
Dissolved Aluminum (Al)	ug/L				3.90	0.50	9475516			
Total Aluminum (Al)	ug/L				3.84	0.50	9475515			
Dissolved Antimony (Sb)	ug/L				<0.020	0.020	9475516			
Total Antimony (Sb)	ug/L				<0.020	0.020	9475515			
Dissolved Arsenic (As)	ug/L				0.079	0.020	9475516			
Total Arsenic (As)	ug/L				0.061	0.020	9475515			
Dissolved Barium (Ba)	ug/L				11.4	0.020	9475516			
Total Barium (Ba)	ug/L				11.8	0.020	9475515			
Dissolved Beryllium (Be)	ug/L				<0.010	0.010	9475516			
Total Beryllium (Be)	ug/L				<0.010	0.010	9475515			

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N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR812			ZLR813			ZLR813		
Sampling Date		2024/06/05 13:30			2024/06/05 15:00			2024/06/05 15:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-06 Lab-Dup	RDL	QC Batch	WC-07	RDL	QC Batch	WC-07 Lab-Dup	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L				<0.0050	0.0050	9475516			
Total Bismuth (Bi)	ug/L				<0.0050	0.0050	9475515			
Dissolved Boron (B)	ug/L				<10	10	9475516			
Total Boron (B)	ug/L				<10	10	9475515			
Dissolved Cadmium (Cd)	ug/L				<0.0050	0.0050	9475516			
Total Cadmium (Cd)	ug/L				<0.0050	0.0050	9475515			
Dissolved Chromium (Cr)	ug/L				0.22	0.10	9475516			
Total Chromium (Cr)	ug/L				0.11	0.10	9475515			
Dissolved Cobalt (Co)	ug/L				0.0129	0.0050	9475516			
Total Cobalt (Co)	ug/L				0.0064	0.0050	9475515			
Dissolved Copper (Cu)	ug/L				0.917	0.050	9475517			
Total Copper (Cu)	ug/L				0.156	0.050	9475515			
Dissolved Iron (Fe)	ug/L				64.6	1.0	9475516			
Total Iron (Fe)	ug/L				117	1.0	9475515			
Dissolved Lead (Pb)	ug/L				0.0101	0.0050	9475516			
Total Lead (Pb)	ug/L				<0.0050	0.0050	9475515			
Dissolved Lithium (Li)	ug/L				<0.50	0.50	9475516			
Total Lithium (Li)	ug/L				<0.50	0.50	9475515			
Dissolved Manganese (Mn)	ug/L				2.08	0.050	9475516			
Total Manganese (Mn)	ug/L				9.31	0.050	9475515			
Dissolved Molybdenum (Mo)	ug/L				0.287	0.050	9475516			
Total Molybdenum (Mo)	ug/L				0.379	0.050	9475515			
Dissolved Nickel (Ni)	ug/L				0.119	0.020	9475516			
Total Nickel (Ni)	ug/L				0.108	0.020	9475515			
Dissolved Phosphorus (P)	ug/L				4.6	2.0	9475516			
Total Phosphorus (P)	ug/L				4.5	2.0	9475515			
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9475516			
Total Silicon (Si)	ug/L				1080	50	9475515			
Total Selenium (Se)	ug/L				<0.040	0.040	9475515			
Dissolved Silicon (Si)	ug/L				1040	50	9475516			
Dissolved Silver (Ag)	ug/L				<0.0050	0.0050	9475516			

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR812			ZLR813			ZLR813		
Sampling Date		2024/06/05 13:30			2024/06/05 15:00			2024/06/05 15:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-06 Lab-Dup	RDL	QC Batch	WC-07	RDL	QC Batch	WC-07 Lab-Dup	RDL	QC Batch
Total Silver (Ag)	ug/L				<0.0050	0.0050	9475515			
Dissolved Strontium (Sr)	ug/L				9.36	0.050	9475516			
Total Strontium (Sr)	ug/L				9.19	0.050	9475515			
Dissolved Thallium (Tl)	ug/L				<0.0020	0.0020	9475516			
Total Thallium (Tl)	ug/L				<0.0020	0.0020	9475515			
Dissolved Tin (Sn)	ug/L				<0.20	0.20	9475516			
Total Tin (Sn)	ug/L				<0.20	0.20	9475515			
Dissolved Titanium (Ti)	ug/L				<0.50	0.50	9475516			
Total Titanium (Ti)	ug/L				<0.50	0.50	9475515			
Dissolved Uranium (U)	ug/L				0.121	0.0020	9475516			
Total Uranium (U)	ug/L				0.120	0.0020	9475515			
Dissolved Vanadium (V)	ug/L				<0.20	0.20	9475516			
Total Vanadium (V)	ug/L				<0.20	0.20	9475515			
Dissolved Zinc (Zn)	ug/L				1.13	0.10	9475517			
Total Zinc (Zn)	ug/L				0.82	0.10	9475515			
Dissolved Zirconium (Zr)	ug/L				<0.10	0.10	9475516			
Total Zirconium (Zr)	ug/L				<0.10	0.10	9475515			
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9507874			
Total Yttrium (Y)	ug/L				<2.0	2.0	9507873			
Dissolved Calcium (Ca)	mg/L				10.3	0.050	9539510			
Total Calcium (Ca)	mg/L				10.8	0.050	9539509			
Dissolved Magnesium (Mg)	mg/L				5.15	0.050	9539510			
Total Magnesium (Mg)	mg/L				5.06	0.050	9539509			
Dissolved Potassium (K)	mg/L				0.529	0.050	9539510			
Total Potassium (K)	mg/L				0.499	0.050	9539509			
Dissolved Sodium (Na)	mg/L				0.344	0.050	9539510			
Total Sodium (Na)	mg/L				0.327	0.050	9539509			
Dissolved Sulphur (S)	mg/L				<3.0	3.0	9539510			
Total Sulphur (S)	mg/L				<3.0	3.0	9539509			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR814		ZLR815		ZLR816		
Sampling Date		2024/06/05 16:15		2024/06/06 10:00		2024/06/06 10:30		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	WC-08	QC Batch	DL-02 NS	QC Batch	DL-02 NB	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	42	9459733	19	9459733	19	1.0	9459733
Inorganics								
Acidity	mg/L	<5.0	9467635	<5.0	9467635	<5.0	5.0	9467635
Total Ammonia-N	mg/L	<0.050	9466000	<0.050	9466000	<0.050	0.050	9466000
Conductivity	mS/cm	0.0858	9465041	0.0488	9465041	0.0499	0.001	9465041
Total Dissolved Solids	mg/L	35	9462288	35	9462294	35	10	9462294
Fluoride (F-)	mg/L	<0.10	9465049	<0.10	9465049	<0.10	0.10	9465049
Dissolved Organic Carbon	mg/L	3.5	9462887	3.5	9462843	3.6	0.40	9462887
pH	pH	7.85	9465054	7.48	9465054	7.43		9465054
Total Phosphorus	mg/L	<0.020	9466019	<0.020	9465167	<0.020	0.020	9466019
Total Suspended Solids	mg/L	<10	9462279	<10	9461866	<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	2.1	9464972	2.3	9464972	2.2	1.0	9464972
Alkalinity (Total as CaCO3)	mg/L	43	9465021	17	9465021	20	1.0	9465021
Dissolved Chloride (Cl-)	mg/L	<1.0	9464955	2.1	9464955	2.1	1.0	9464955
Nitrite (N)	mg/L	<0.010	9464890	<0.010	9464890	<0.010	0.010	9464890
Nitrate (N)	mg/L	<0.10	9464890	<0.10	9464890	<0.10	0.10	9464890
Nitrate + Nitrite (N)	mg/L	<0.10	9464890	<0.10	9464890	<0.10	0.10	9464890
Dissolved Bromide (Br-)	mg/L	<1.0	9464946	<1.0	9464946	<1.0	1.0	9464946
Metals								
Dissolved Aluminum (Al)	ug/L	4.40	9475518	23.7	9475516	19.1	0.50	9475516
Total Aluminum (Al)	ug/L	7.79	9475515	25.9	9475515	24.1	0.50	9475515
Dissolved Antimony (Sb)	ug/L	<0.020	9475518	0.020	9475516	<0.020	0.020	9475516
Total Antimony (Sb)	ug/L	<0.020	9475515	<0.020	9475515	<0.020	0.020	9475515
Dissolved Arsenic (As)	ug/L	0.062	9475518	0.069	9475516	0.064	0.020	9475516
Total Arsenic (As)	ug/L	0.059	9475515	0.047	9475515	0.056	0.020	9475515
Dissolved Barium (Ba)	ug/L	13.7	9475518	7.74	9475516	7.87	0.020	9475516
Total Barium (Ba)	ug/L	14.5	9475515	8.01	9475515	8.11	0.020	9475515
Dissolved Beryllium (Be)	ug/L	<0.010	9475518	<0.010	9475516	<0.010	0.010	9475516
Total Beryllium (Be)	ug/L	<0.010	9475515	<0.010	9475515	<0.010	0.010	9475515
Dissolved Bismuth (Bi)	ug/L	<0.0050	9475518	<0.0050	9475516	<0.0050	0.0050	9475516

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR814		ZLR815		ZLR816		
Sampling Date		2024/06/05 16:15		2024/06/06 10:00		2024/06/06 10:30		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	WC-08	QC Batch	DL-02 NS	QC Batch	DL-02 NB	RDL	QC Batch
Total Bismuth (Bi)	ug/L	<0.0050	9475515	<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Boron (B)	ug/L	<10	9475518	<10	9475516	<10	10	9475516
Total Boron (B)	ug/L	<10	9475515	<10	9475515	<10	10	9475515
Dissolved Cadmium (Cd)	ug/L	<0.0050	9475518	<0.0050	9475516	<0.0050	0.0050	9475516
Total Cadmium (Cd)	ug/L	<0.0050	9475515	<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Chromium (Cr)	ug/L	0.11	9475518	0.36	9475516	0.34	0.10	9475516
Total Chromium (Cr)	ug/L	0.11	9475515	0.32	9475515	0.33	0.10	9475515
Dissolved Cobalt (Co)	ug/L	<0.0050	9475518	0.0134	9475516	0.0104	0.0050	9475516
Total Cobalt (Co)	ug/L	0.0069	9475515	0.0149	9475515	0.0200	0.0050	9475515
Dissolved Copper (Cu)	ug/L	0.261	9475518	1.32	9475517	1.01	0.050	9475517
Total Copper (Cu)	ug/L	0.199	9475515	0.388	9475515	0.351	0.050	9475515
Dissolved Iron (Fe)	ug/L	9.6	9475518	22.4	9475516	20.2	1.0	9475516
Total Iron (Fe)	ug/L	25.0	9475515	26.3	9475515	31.3	1.0	9475515
Dissolved Lead (Pb)	ug/L	0.0063	9475518	0.0202	9475517	0.0165	0.0050	9475516
Total Lead (Pb)	ug/L	0.0093	9475515	0.0111	9475515	0.0097	0.0050	9475515
Dissolved Lithium (Li)	ug/L	<0.50	9475518	<0.50	9475516	<0.50	0.50	9475516
Total Lithium (Li)	ug/L	<0.50	9475515	0.50	9475515	<0.50	0.50	9475515
Dissolved Manganese (Mn)	ug/L	3.36	9475518	17.4	9475516	15.5	0.050	9475516
Total Manganese (Mn)	ug/L	20.7	9475515	20.3	9475515	28.0	0.050	9475515
Dissolved Molybdenum (Mo)	ug/L	0.503	9475518	0.634	9475516	0.613	0.050	9475516
Total Molybdenum (Mo)	ug/L	0.504	9475515	0.569	9475515	0.577	0.050	9475515
Dissolved Nickel (Ni)	ug/L	0.106	9475518	0.335	9475516	0.392	0.020	9475516
Total Nickel (Ni)	ug/L	0.116	9475515	0.305	9475515	0.310	0.020	9475515
Dissolved Phosphorus (P)	ug/L	3.9	9475518	4.6	9475516	4.2	2.0	9475516
Total Phosphorus (P)	ug/L	3.7	9475515	4.9	9475515	6.5	2.0	9475515
Dissolved Selenium (Se)	ug/L	<0.040	9475518	<0.040	9475516	<0.040	0.040	9475516
Total Silicon (Si)	ug/L	1440	9475515	2150	9475515	2290	50	9475515
Total Selenium (Se)	ug/L	<0.040	9475515	<0.040	9475515	<0.040	0.040	9475515
Dissolved Silicon (Si)	ug/L	1420	9475518	2210	9475516	2290	50	9475516
Dissolved Silver (Ag)	ug/L	<0.0050	9475518	<0.0050	9475516	<0.0050	0.0050	9475516
Total Silver (Ag)	ug/L	<0.0050	9475515	<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Strontium (Sr)	ug/L	11.4	9475518	14.6	9475516	14.5	0.050	9475516

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR814		ZLR815		ZLR816		
Sampling Date		2024/06/05 16:15		2024/06/06 10:00		2024/06/06 10:30		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	WC-08	QC Batch	DL-02 NS	QC Batch	DL-02 NB	RDL	QC Batch
Total Strontium (Sr)	ug/L	11.6	9475515	14.6	9475515	14.9	0.050	9475515
Dissolved Thallium (Tl)	ug/L	<0.0020	9475518	0.0035	9475516	0.0031	0.0020	9475516
Total Thallium (Tl)	ug/L	0.0023	9475515	0.0039	9475515	0.0021	0.0020	9475515
Dissolved Tin (Sn)	ug/L	<0.20	9475518	<0.20	9475516	<0.20	0.20	9475516
Total Tin (Sn)	ug/L	<0.20	9475515	<0.20	9475515	<0.20	0.20	9475515
Dissolved Titanium (Ti)	ug/L	<0.50	9475518	<0.50	9475516	<0.50	0.50	9475516
Total Titanium (Ti)	ug/L	<0.50	9475515	<0.50	9475515	<0.50	0.50	9475515
Dissolved Uranium (U)	ug/L	0.0911	9475518	0.0532	9475516	0.0570	0.0020	9475516
Total Uranium (U)	ug/L	0.0900	9475515	0.0625	9475515	0.0674	0.0020	9475515
Dissolved Vanadium (V)	ug/L	<0.20	9475518	<0.20	9475516	<0.20	0.20	9475516
Total Vanadium (V)	ug/L	<0.20	9475515	<0.20	9475515	<0.20	0.20	9475515
Dissolved Zinc (Zn)	ug/L	1.36	9475517	5.97	9475517	4.33	0.10	9475517
Total Zinc (Zn)	ug/L	0.71	9475515	2.41	9475515	1.39	0.10	9475515
Dissolved Zirconium (Zr)	ug/L	<0.10	9475518	<0.10	9475516	<0.10	0.10	9475516
Total Zirconium (Zr)	ug/L	<0.10	9475515	<0.10	9475515	<0.10	0.10	9475515
Dissolved Yttrium (Y)	ug/L	<2.0	9507874	<2.0	9507872	<2.0	2.0	9507874
Total Yttrium (Y)	ug/L	<2.0	9507871	<2.0	9507871	<2.0	2.0	9507873
Dissolved Calcium (Ca)	mg/L	9.35	9539510	5.06	9539510	5.19	0.050	9539510
Total Calcium (Ca)	mg/L	9.51	9539509	4.97	9539509	5.27	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	4.43	9539510	1.47	9539510	1.50	0.050	9539510
Total Magnesium (Mg)	mg/L	4.69	9539509	1.49	9539509	1.56	0.050	9539509
Dissolved Potassium (K)	mg/L	0.808	9539510	0.985	9539510	0.994	0.050	9539510
Total Potassium (K)	mg/L	0.828	9539509	1.02	9539509	1.01	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.376	9539510	1.69	9539510	1.72	0.050	9539510
Total Sodium (Na)	mg/L	0.389	9539509	1.70	9539509	1.73	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	9539510	<3.0	9539510	<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	9539509	<3.0	9539509	<3.0	3.0	9539509

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR817		ZLR818		ZLR819		
Sampling Date		2024/06/06 13:30		2024/06/06 14:00		2024/06/06		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	LL-02 NS	QC Batch	LL-02 NB	QC Batch	DUP-1	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	36	9459733	36	9459733	36	1.0	9459733
Inorganics								
Acidity	mg/L	<5.0	9467635	<5.0	9467635	<5.0	5.0	9470024
Total Ammonia-N	mg/L	<0.050	9465759	<0.050	9465759	<0.050	0.050	9466000
Conductivity	mS/cm	0.074	9463758	0.0751	9460953	0.0737	0.001	9465041
Total Dissolved Solids	mg/L	45	9462294	20	9462288	50	10	9462294
Fluoride (F-)	mg/L	<0.10	9463753	<0.10	9460955	<0.10	0.10	9465049
Dissolved Organic Carbon	mg/L	3.6	9462887	3.3	9463166	3.6	0.40	9463166
pH	pH	7.70	9463755	7.72	9460954	7.78		9465054
Total Phosphorus	mg/L	<0.020	9466019	<0.020	9466019	<0.020	0.020	9465167
Total Suspended Solids	mg/L	<10	9461866	<10	9462279	<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	2.5	9463887	2.4	9462789	2.6	1.0	9464972
Alkalinity (Total as CaCO3)	mg/L	36	9463757	39	9460951	36	1.0	9465021
Dissolved Chloride (Cl-)	mg/L	<1.0	9463882	<1.0	9462783	<1.0	1.0	9464955
Nitrite (N)	mg/L	<0.010	9463044	<0.010	9462828	<0.010	0.010	9464890
Nitrate (N)	mg/L	<0.10	9463044	<0.10	9462828	<0.10	0.10	9464890
Nitrate + Nitrite (N)	mg/L	<0.10	9463044	<0.10	9462828	<0.10	0.10	9464890
Dissolved Bromide (Br-)	mg/L	<1.0	9463858	<1.0	9462952	<1.0	1.0	9464946
Metals								
Dissolved Aluminum (Al)	ug/L	12.5	9475516	8.75	9475516	10.4	0.50	9475516
Total Aluminum (Al)	ug/L	13.6	9475515	12.6	9475515	12.2	0.50	9475515
Dissolved Antimony (Sb)	ug/L	<0.020	9475516	<0.020	9475516	<0.020	0.020	9475516
Total Antimony (Sb)	ug/L	<0.020	9475515	<0.020	9475515	<0.020	0.020	9475515
Dissolved Arsenic (As)	ug/L	0.059	9475516	0.058	9475516	0.056	0.020	9475516
Total Arsenic (As)	ug/L	0.059	9475515	0.043	9475515	0.057	0.020	9475515
Dissolved Barium (Ba)	ug/L	10.1	9475516	10.1	9475516	10.2	0.020	9475516
Total Barium (Ba)	ug/L	10.1	9475515	10.3	9475515	10.3	0.020	9475515
Dissolved Beryllium (Be)	ug/L	<0.010	9475516	<0.010	9475516	0.011	0.010	9475516
Total Beryllium (Be)	ug/L	<0.010	9475515	<0.010	9475515	<0.010	0.010	9475515
Dissolved Bismuth (Bi)	ug/L	<0.0050	9475516	<0.0050	9475516	<0.0050	0.0050	9475516

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR817		ZLR818		ZLR819		
Sampling Date		2024/06/06 13:30		2024/06/06 14:00		2024/06/06		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	LL-02 NS	QC Batch	LL-02 NB	QC Batch	DUP-1	RDL	QC Batch
Total Bismuth (Bi)	ug/L	<0.0050	9475515	<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Boron (B)	ug/L	<10	9475516	<10	9475516	<10	10	9475516
Total Boron (B)	ug/L	<10	9475515	<10	9475515	<10	10	9475515
Dissolved Cadmium (Cd)	ug/L	<0.0050	9475516	<0.0050	9475516	<0.0050	0.0050	9475516
Total Cadmium (Cd)	ug/L	<0.0050	9475515	<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Chromium (Cr)	ug/L	0.19	9475516	0.19	9475516	0.20	0.10	9475516
Total Chromium (Cr)	ug/L	0.21	9475515	0.18	9475515	0.20	0.10	9475515
Dissolved Cobalt (Co)	ug/L	0.0093	9475516	0.0098	9475516	0.0137	0.0050	9475516
Total Cobalt (Co)	ug/L	0.0108	9475515	0.0104	9475515	0.0085	0.0050	9475515
Dissolved Copper (Cu)	ug/L	0.381	9475516	0.962	9475517	1.10	0.050	9475517
Total Copper (Cu)	ug/L	0.251	9475515	0.331	9475515	0.263	0.050	9475515
Dissolved Iron (Fe)	ug/L	25.4	9475516	23.2	9475516	27.4	1.0	9475516
Total Iron (Fe)	ug/L	41.2	9475515	42.0	9475515	40.9	1.0	9475515
Dissolved Lead (Pb)	ug/L	0.0079	9475516	0.0196	9475516	0.0134	0.0050	9475516
Total Lead (Pb)	ug/L	0.0105	9475515	0.0151	9475515	0.0099	0.0050	9475515
Dissolved Lithium (Li)	ug/L	<0.50	9475516	<0.50	9475516	<0.50	0.50	9475516
Total Lithium (Li)	ug/L	<0.50	9475515	<0.50	9475515	<0.50	0.50	9475515
Dissolved Manganese (Mn)	ug/L	3.69	9475516	0.376	9475516	3.72	0.050	9475516
Total Manganese (Mn)	ug/L	7.55	9475515	13.6	9475515	7.62	0.050	9475515
Dissolved Molybdenum (Mo)	ug/L	0.446	9475516	0.400	9475516	0.452	0.050	9475516
Total Molybdenum (Mo)	ug/L	0.384	9475515	0.335	9475515	0.375	0.050	9475515
Dissolved Nickel (Ni)	ug/L	0.197	9475516	0.231	9475516	0.208	0.020	9475516
Total Nickel (Ni)	ug/L	0.171	9475515	0.273	9475515	0.200	0.020	9475515
Dissolved Phosphorus (P)	ug/L	3.7	9475516	4.1	9475516	4.1	2.0	9475516
Total Phosphorus (P)	ug/L	4.6	9475515	5.5	9475515	4.1	2.0	9475515
Dissolved Selenium (Se)	ug/L	<0.040	9475516	<0.040	9475516	<0.040	0.040	9475516
Total Silicon (Si)	ug/L	1660	9475515	1720	9475515	1650	50	9475515
Total Selenium (Se)	ug/L	<0.040	9475515	<0.040	9475515	<0.040	0.040	9475515
Dissolved Silicon (Si)	ug/L	1660	9475516	1760	9475516	1660	50	9475516
Dissolved Silver (Ag)	ug/L	<0.0050	9475516	<0.0050	9475516	<0.0050	0.0050	9475516
Total Silver (Ag)	ug/L	<0.0050	9475515	<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Strontium (Sr)	ug/L	12.2	9475516	12.3	9475516	12.0	0.050	9475516

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR817		ZLR818		ZLR819		
Sampling Date		2024/06/06 13:30		2024/06/06 14:00		2024/06/06		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	LL-02 NS	QC Batch	LL-02 NB	QC Batch	DUP-1	RDL	QC Batch
Total Strontium (Sr)	ug/L	12.3	9475515	12.4	9475515	12.2	0.050	9475515
Dissolved Thallium (Tl)	ug/L	0.0024	9475516	0.0020	9475516	0.0023	0.0020	9475516
Total Thallium (Tl)	ug/L	0.0022	9475515	0.0026	9475515	<0.0020	0.0020	9475515
Dissolved Tin (Sn)	ug/L	<0.20	9475516	<0.20	9475516	<0.20	0.20	9475516
Total Tin (Sn)	ug/L	<0.20	9475515	<0.20	9475515	<0.20	0.20	9475515
Dissolved Titanium (Ti)	ug/L	<0.50	9475516	<0.50	9475516	<0.50	0.50	9475516
Total Titanium (Ti)	ug/L	<0.50	9475515	<0.50	9475515	<0.50	0.50	9475515
Dissolved Uranium (U)	ug/L	0.0921	9475516	0.102	9475516	0.0861	0.0020	9475516
Total Uranium (U)	ug/L	0.0971	9475515	0.0994	9475515	0.0911	0.0020	9475515
Dissolved Vanadium (V)	ug/L	<0.20	9475516	<0.20	9475516	<0.20	0.20	9475516
Total Vanadium (V)	ug/L	<0.20	9475515	<0.20	9475515	<0.20	0.20	9475515
Dissolved Zinc (Zn)	ug/L	3.70	9475517	3.59	9475516	3.29	0.10	9475517
Total Zinc (Zn)	ug/L	2.56	9475515	5.16	9475515	2.05	0.10	9475515
Dissolved Zirconium (Zr)	ug/L	<0.10	9475516	<0.10	9475516	<0.10	0.10	9475516
Total Zirconium (Zr)	ug/L	<0.10	9475515	<0.10	9475515	<0.10	0.10	9475515
Dissolved Yttrium (Y)	ug/L	<2.0	9507874	<2.0	9507872	<2.0	2.0	9507874
Total Yttrium (Y)	ug/L	<2.0	9507871	<2.0	9507873	<2.0	2.0	9507873
Dissolved Calcium (Ca)	mg/L	8.23	9539510	8.19	9539510	8.18	0.050	9539510
Total Calcium (Ca)	mg/L	8.16	9539509	8.25	9539509	8.19	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	3.76	9539510	3.73	9539510	3.70	0.050	9539510
Total Magnesium (Mg)	mg/L	3.71	9539509	3.71	9539509	3.68	0.050	9539509
Dissolved Potassium (K)	mg/L	0.817	9539510	0.815	9539510	0.827	0.050	9539510
Total Potassium (K)	mg/L	0.815	9539509	0.815	9539509	0.829	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.469	9539510	0.475	9539510	0.479	0.050	9539510
Total Sodium (Na)	mg/L	0.463	9539509	0.492	9539509	0.454	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	9539510	<3.0	9539510	<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	9539509	<3.0	9539509	<3.0	3.0	9539509

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR819			ZLR820		ZLR821		
Sampling Date		2024/06/06			2024/06/06 16:00		2024/06/06 16:30		
COC Number		C#992671-01-01			C#992671-01-01		C#992671-01-01		
	UNITS	DUP-1 Lab-Dup	RDL	QC Batch	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				36	9459733	36	1.0	9459733
Inorganics									
Acidity	mg/L	<5.0	5.0	9470024	<5.0	9467635	<5.0	5.0	9467635
Total Ammonia-N	mg/L				<0.050	9466000	<0.050	0.050	9466000
Conductivity	mS/cm				0.0736	9465041	0.0732	N/A	9465041
Total Dissolved Solids	mg/L				45	9462294	30	10	9462288
Fluoride (F-)	mg/L				<0.10	9465049	<0.10	0.10	9465049
Dissolved Organic Carbon	mg/L				3.5	9463087	3.3	0.40	9462887
pH	pH				7.81	9465054	7.78		9465054
Total Phosphorus	mg/L				<0.020	9466019	<0.020	0.020	9466019
Total Suspended Solids	mg/L				<10	9461866	<10	10	9462279
Dissolved Sulphate (SO4)	mg/L				2.3	9466859	2.7	1.0	9464972
Alkalinity (Total as CaCO3)	mg/L				36	9465021	36	1.0	9465021
Dissolved Chloride (Cl-)	mg/L				<1.0	9466858	<1.0	1.0	9464955
Nitrite (N)	mg/L				<0.010	9464890	<0.010	0.010	9464890
Nitrate (N)	mg/L				<0.10	9464890	<0.10	0.10	9464890
Nitrate + Nitrite (N)	mg/L				<0.10	9464890	<0.10	0.10	9464890
Dissolved Bromide (Br-)	mg/L				<1.0	9464946	<1.0	1.0	9464946
Metals									
Dissolved Aluminum (Al)	ug/L				10.2	9475516	9.88	0.50	9475516
Total Aluminum (Al)	ug/L				12.3	9475515	12.5	0.50	9475515
Dissolved Antimony (Sb)	ug/L				<0.020	9475516	<0.020	0.020	9475516
Total Antimony (Sb)	ug/L				<0.020	9475515	<0.020	0.020	9475515
Dissolved Arsenic (As)	ug/L				0.064	9475516	0.060	0.020	9475516
Total Arsenic (As)	ug/L				0.049	9475515	0.059	0.020	9475515
Dissolved Barium (Ba)	ug/L				9.98	9475516	9.88	0.020	9475516
Total Barium (Ba)	ug/L				10.4	9475515	10.3	0.020	9475515
Dissolved Beryllium (Be)	ug/L				<0.010	9475516	<0.010	0.010	9475516
Total Beryllium (Be)	ug/L				<0.010	9475515	<0.010	0.010	9475515

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR819			ZLR820		ZLR821		
Sampling Date		2024/06/06			2024/06/06 16:00		2024/06/06 16:30		
COC Number		C#992671-01-01			C#992671-01-01		C#992671-01-01		
	UNITS	DUP-1 Lab-Dup	RDL	QC Batch	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L				<0.0050	9475516	<0.0050	0.0050	9475516
Total Bismuth (Bi)	ug/L				<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Boron (B)	ug/L				<10	9475516	<10	10	9475516
Total Boron (B)	ug/L				<10	9475515	<10	10	9475515
Dissolved Cadmium (Cd)	ug/L				<0.0050	9475516	<0.0050	0.0050	9475516
Total Cadmium (Cd)	ug/L				<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Chromium (Cr)	ug/L				0.22	9475516	0.18	0.10	9475516
Total Chromium (Cr)	ug/L				0.19	9475515	0.17	0.10	9475515
Dissolved Cobalt (Co)	ug/L				0.0078	9475516	0.0063	0.0050	9475516
Total Cobalt (Co)	ug/L				0.0084	9475515	0.0105	0.0050	9475515
Dissolved Copper (Cu)	ug/L				0.250	9475516	0.908	0.050	9475517
Total Copper (Cu)	ug/L				0.254	9475515	0.229	0.050	9475515
Dissolved Iron (Fe)	ug/L				25.2	9475516	20.5	1.0	9475516
Total Iron (Fe)	ug/L				39.5	9475515	40.0	1.0	9475515
Dissolved Lead (Pb)	ug/L				0.0089	9475516	0.0145	0.0050	9475516
Total Lead (Pb)	ug/L				1.13	9475515	0.0075	0.0050	9475515
Dissolved Lithium (Li)	ug/L				<0.50	9475516	<0.50	0.50	9475516
Total Lithium (Li)	ug/L				<0.50	9475515	<0.50	0.50	9475515
Dissolved Manganese (Mn)	ug/L				3.90	9475516	0.296	0.050	9475516
Total Manganese (Mn)	ug/L				7.71	9475515	13.0	0.050	9475515
Dissolved Molybdenum (Mo)	ug/L				0.369	9475516	0.405	0.050	9475516
Total Molybdenum (Mo)	ug/L				0.389	9475515	0.351	0.050	9475515
Dissolved Nickel (Ni)	ug/L				0.203	9475516	0.165	0.020	9475516
Total Nickel (Ni)	ug/L				0.190	9475515	0.181	0.020	9475515
Dissolved Phosphorus (P)	ug/L				3.4	9475516	2.7	2.0	9475516
Total Phosphorus (P)	ug/L				4.5	9475515	3.5	2.0	9475515
Dissolved Selenium (Se)	ug/L				<0.040	9475516	<0.040	0.040	9475516
Total Silicon (Si)	ug/L				1630	9475515	1760	50	9475515
Total Selenium (Se)	ug/L				<0.040	9475515	<0.040	0.040	9475515
Dissolved Silicon (Si)	ug/L				1600	9475516	1710	50	9475516
Dissolved Silver (Ag)	ug/L				<0.0050	9475516	<0.0050	0.0050	9475516

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR819			ZLR820		ZLR821		
Sampling Date		2024/06/06			2024/06/06 16:00		2024/06/06 16:30		
COC Number		C#992671-01-01			C#992671-01-01		C#992671-01-01		
	UNITS	DUP-1 Lab-Dup	RDL	QC Batch	LL-03 NS	QC Batch	LL-03 NB	RDL	QC Batch
Total Silver (Ag)	ug/L				<0.0050	9475515	<0.0050	0.0050	9475515
Dissolved Strontium (Sr)	ug/L				12.2	9475516	12.3	0.050	9475516
Total Strontium (Sr)	ug/L				12.2	9475515	12.5	0.050	9475515
Dissolved Thallium (Tl)	ug/L				0.0024	9475516	<0.0020	0.0020	9475516
Total Thallium (Tl)	ug/L				0.0029	9475515	0.0022	0.0020	9475515
Dissolved Tin (Sn)	ug/L				<0.20	9475516	<0.20	0.20	9475516
Total Tin (Sn)	ug/L				<0.20	9475515	<0.20	0.20	9475515
Dissolved Titanium (Ti)	ug/L				<0.50	9475516	<0.50	0.50	9475516
Total Titanium (Ti)	ug/L				<0.50	9475515	<0.50	0.50	9475515
Dissolved Uranium (U)	ug/L				0.0919	9475516	0.0923	0.0020	9475516
Total Uranium (U)	ug/L				0.0992	9475515	0.0949	0.0020	9475515
Dissolved Vanadium (V)	ug/L				<0.20	9475516	<0.20	0.20	9475516
Total Vanadium (V)	ug/L				<0.20	9475515	<0.20	0.20	9475515
Dissolved Zinc (Zn)	ug/L				3.30	9475517	3.05	0.10	9475517
Total Zinc (Zn)	ug/L				1.15	9475515	0.87	0.10	9475515
Dissolved Zirconium (Zr)	ug/L				<0.10	9475516	<0.10	0.10	9475516
Total Zirconium (Zr)	ug/L				<0.10	9475515	<0.10	0.10	9475515
Dissolved Yttrium (Y)	ug/L				<2.0	9507874	<2.0	2.0	9507872
Total Yttrium (Y)	ug/L				<2.0	9507871	<2.0	2.0	9507873
Dissolved Calcium (Ca)	mg/L				8.14	9539510	8.13	0.050	9539510
Total Calcium (Ca)	mg/L				8.13	9539509	8.26	0.050	9539509
Dissolved Magnesium (Mg)	mg/L				3.75	9539510	3.71	0.050	9539510
Total Magnesium (Mg)	mg/L				3.66	9539509	3.74	0.050	9539509
Dissolved Potassium (K)	mg/L				0.818	9539510	0.823	0.050	9539510
Total Potassium (K)	mg/L				0.824	9539509	0.836	0.050	9539509
Dissolved Sodium (Na)	mg/L				0.464	9539510	0.482	0.050	9539510
Total Sodium (Na)	mg/L				0.457	9539509	0.483	0.050	9539509
Dissolved Sulphur (S)	mg/L				<3.0	9539510	<3.0	3.0	9539510
Total Sulphur (S)	mg/L				<3.0	9539509	<3.0	3.0	9539509

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR822			ZLR822			ZLR823		
Sampling Date		2024/06/07 15:00			2024/06/07 15:00			2024/06/07 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	RL-02 NS	RDL	QC Batch	RL-02 NS Lab-Dup	RDL	QC Batch	RL-02 NB	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	42	1.0	9459733				42	1.0	9459733
Inorganics										
Acidity	mg/L	<5.0	5.0	9470024				<5.0	5.0	9470024
Total Ammonia-N	mg/L	<0.050	0.050	9466000				<0.050	0.050	9466000
Conductivity	mS/cm	0.0829	N/A	9465041				0.0828	N/A	9465041
Total Dissolved Solids	mg/L	40	10	9462288				55	10	9462294
Fluoride (F-)	mg/L	<0.10	0.10	9465049				<0.10	0.10	9465049
Dissolved Organic Carbon	mg/L	2.9	0.40	9463166	2.8	0.40	9463166	2.8	0.40	9463087
pH	pH	7.85		9465054				7.80		9465054
Total Phosphorus	mg/L	<0.020	0.020	9466019				<0.020	0.020	9466019
Total Suspended Solids	mg/L	<10	10	9462279				<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	1.9	1.0	9464972				1.8	1.0	9464972
Alkalinity (Total as CaCO3)	mg/L	41	1.0	9465021				42	1.0	9465021
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9464955				<1.0	1.0	9464955
Nitrite (N)	mg/L	<0.010	0.010	9464890				<0.010	0.010	9464890
Nitrate (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9464890
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9464890
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9464946				<1.0	1.0	9464946
Metals										
Dissolved Aluminum (Al)	ug/L	2.26	0.50	9475516				2.38	0.50	9475516
Total Aluminum (Al)	ug/L	11.5	0.50	9475515				3.90	0.50	9475515
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9475516				<0.020	0.020	9475516
Total Antimony (Sb)	ug/L	<0.020	0.020	9475515				<0.020	0.020	9475515
Dissolved Arsenic (As)	ug/L	0.065	0.020	9475516				0.063	0.020	9475516
Total Arsenic (As)	ug/L	0.058	0.020	9475515				0.051	0.020	9475515
Dissolved Barium (Ba)	ug/L	13.1	0.020	9475516				13.8	0.020	9475516
Total Barium (Ba)	ug/L	13.3	0.020	9475515				13.9	0.020	9475515
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9475516				<0.010	0.010	9475516
Total Beryllium (Be)	ug/L	<0.010	0.010	9475515				<0.010	0.010	9475515

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR822			ZLR822			ZLR823		
Sampling Date		2024/06/07 15:00			2024/06/07 15:00			2024/06/07 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	RL-02 NS	RDL	QC Batch	RL-02 NS Lab-Dup	RDL	QC Batch	RL-02 NB	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Bismuth (Bi)	ug/L	0.0126	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Boron (B)	ug/L	<10	10	9475516				<10	10	9475516
Total Boron (B)	ug/L	<10	10	9475515				<10	10	9475515
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Chromium (Cr)	ug/L	0.12	0.10	9475516				0.14	0.10	9475516
Total Chromium (Cr)	ug/L	<0.10	0.10	9475515				0.11	0.10	9475515
Dissolved Cobalt (Co)	ug/L	0.0070	0.0050	9475516				<0.0050	0.0050	9475516
Total Cobalt (Co)	ug/L	0.0060	0.0050	9475515				0.0061	0.0050	9475515
Dissolved Copper (Cu)	ug/L	1.10	0.050	9475517				1.20	0.050	9475519
Total Copper (Cu)	ug/L	0.167	0.050	9475515				0.440	0.050	9475515
Dissolved Iron (Fe)	ug/L	22.1	1.0	9475517				7.2	1.0	9475516
Total Iron (Fe)	ug/L	11.0	1.0	9475515				15.9	1.0	9475515
Dissolved Lead (Pb)	ug/L	0.0149	0.0050	9475516				0.0235	0.0050	9475516
Total Lead (Pb)	ug/L	0.0098	0.0050	9475515				0.0245	0.0050	9475515
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475516
Total Lithium (Li)	ug/L	<0.50	0.50	9475515				<0.50	0.50	9475515
Dissolved Manganese (Mn)	ug/L	15.9	0.050	9475516				0.382	0.050	9475516
Total Manganese (Mn)	ug/L	23.0	0.050	9475515				30.9	0.050	9475515
Dissolved Molybdenum (Mo)	ug/L	0.518	0.050	9475516				0.488	0.050	9475516
Total Molybdenum (Mo)	ug/L	0.533	0.050	9475515				0.436	0.050	9475515
Dissolved Nickel (Ni)	ug/L	0.182	0.020	9475517				0.145	0.020	9475516
Total Nickel (Ni)	ug/L	0.113	0.020	9475515				0.224	0.020	9475515
Dissolved Phosphorus (P)	ug/L	3.1	2.0	9475516				3.5	2.0	9475516
Total Phosphorus (P)	ug/L	3.8	2.0	9475515				5.8	2.0	9475515
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9475516				<0.040	0.040	9475516
Total Silicon (Si)	ug/L	1510	50	9475515				1520	50	9475515
Total Selenium (Se)	ug/L	<0.040	0.040	9475515				<0.040	0.040	9475515
Dissolved Silicon (Si)	ug/L	1470	50	9475516				1530	50	9475516
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR822			ZLR822			ZLR823		
Sampling Date		2024/06/07 15:00			2024/06/07 15:00			2024/06/07 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	RL-02 NS	RDL	QC Batch	RL-02 NS Lab-Dup	RDL	QC Batch	RL-02 NB	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Strontium (Sr)	ug/L	10.2	0.050	9475516				10.2	0.050	9475516
Total Strontium (Sr)	ug/L	10.2	0.050	9475515				9.96	0.050	9475515
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9475516				<0.0020	0.0020	9475516
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9475515				<0.0020	0.0020	9475515
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Tin (Sn)	ug/L	<0.20	0.20	9475515				<0.20	0.20	9475515
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475516
Total Titanium (Ti)	ug/L	0.62	0.50	9475515				<0.50	0.50	9475515
Dissolved Uranium (U)	ug/L	0.0556	0.0020	9475516				0.0515	0.0020	9475516
Total Uranium (U)	ug/L	0.0530	0.0020	9475515				0.0509	0.0020	9475515
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Vanadium (V)	ug/L	0.20	0.20	9475515				<0.20	0.20	9475515
Dissolved Zinc (Zn)	ug/L	4.15	0.10	9475517				4.85	0.10	9475519
Total Zinc (Zn)	ug/L	1.83	0.10	9475515				1.50	0.10	9475515
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9475516				<0.10	0.10	9475516
Total Zirconium (Zr)	ug/L	<0.10	0.10	9475515				<0.10	0.10	9475515
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9507872				<2.0	2.0	9507872
Total Yttrium (Y)	ug/L	<2.0	2.0	9507873				<2.0	2.0	9507871
Dissolved Calcium (Ca)	mg/L	9.13	0.050	9539510				9.06	0.050	9539510
Total Calcium (Ca)	mg/L	9.21	0.050	9539509				9.25	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	4.56	0.050	9539510				4.60	0.050	9539510
Total Magnesium (Mg)	mg/L	4.51	0.050	9539509				4.42	0.050	9539509
Dissolved Potassium (K)	mg/L	0.742	0.050	9539510				0.754	0.050	9539510
Total Potassium (K)	mg/L	0.751	0.050	9539509				0.740	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.382	0.050	9539510				0.398	0.050	9539510
Total Sodium (Na)	mg/L	0.441	0.050	9539509				0.406	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9539510				<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	3.0	9539509				<3.0	3.0	9539509

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR824			ZLR824			ZLR825		
Sampling Date		2024/06/07 12:00			2024/06/07 12:00			2024/06/08 14:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-11	RDL	QC Batch	WC-11 Lab-Dup	RDL	QC Batch	MOL-02 NS	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	42	1.0	9459733				29	1.0	9459733
Inorganics										
Acidity	mg/L	<5.0	5.0	9470024				<5.0	5.0	9470024
Total Ammonia-N	mg/L	<0.050	0.050	9466000				<0.050	0.050	9466000
Conductivity	mS/cm	0.0845	N/A	9465041				0.0596	N/A	9465041
Total Dissolved Solids	mg/L	55	10	9462294	50	10	9462294	35	10	9462294
Fluoride (F-)	mg/L	<0.10	0.10	9465049				<0.10	0.10	9465049
Dissolved Organic Carbon	mg/L	2.8	0.40	9463166				3.6	0.40	9462887
pH	pH	7.86		9465054				7.68		9465054
Total Phosphorus	mg/L	<0.020	0.020	9466019				<0.020	0.020	9466019
Total Suspended Solids	mg/L	<10	10	9461866				<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	1.4	1.0	9464972	1.8	1.0	9464972	2.4	1.0	9466859
Alkalinity (Total as CaCO3)	mg/L	43	1.0	9465021				29	1.0	9465021
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9464955	<1.0	1.0	9464955	<1.0	1.0	9466858
Nitrite (N)	mg/L	<0.010	0.010	9464890	<0.010	0.010	9464890	<0.010	0.010	9464890
Nitrate (N)	mg/L	<0.10	0.10	9464890	<0.10	0.10	9464890	<0.10	0.10	9464890
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9464890	<0.10	0.10	9464890	<0.10	0.10	9464890
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9464946				<1.0	1.0	9464946
Metals										
Dissolved Aluminum (Al)	ug/L	2.56	0.50	9475516				17.7	0.50	9475516
Total Aluminum (Al)	ug/L	3.19	0.50	9475515				20.2	0.50	9475515
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9475516				<0.020	0.020	9475516
Total Antimony (Sb)	ug/L	<0.020	0.020	9475515				<0.020	0.020	9475515
Dissolved Arsenic (As)	ug/L	0.068	0.020	9475516				0.071	0.020	9475516
Total Arsenic (As)	ug/L	0.057	0.020	9475515				0.058	0.020	9475515
Dissolved Barium (Ba)	ug/L	13.1	0.020	9475516				8.10	0.020	9475516
Total Barium (Ba)	ug/L	13.4	0.020	9475515				8.48	0.020	9475515
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9475516				<0.010	0.010	9475516
Total Beryllium (Be)	ug/L	<0.010	0.010	9475515				<0.010	0.010	9475515

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR824			ZLR824			ZLR825		
Sampling Date		2024/06/07 12:00			2024/06/07 12:00			2024/06/08 14:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-11	RDL	QC Batch	WC-11 Lab-Dup	RDL	QC Batch	MOL-02 NS	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Boron (B)	ug/L	<10	10	9475516				<10	10	9475516
Total Boron (B)	ug/L	<10	10	9475515				<10	10	9475515
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Chromium (Cr)	ug/L	0.13	0.10	9475516				0.25	0.10	9475516
Total Chromium (Cr)	ug/L	0.10	0.10	9475515				0.27	0.10	9475515
Dissolved Cobalt (Co)	ug/L	0.0064	0.0050	9475516				0.0069	0.0050	9475516
Total Cobalt (Co)	ug/L	0.0058	0.0050	9475515				0.0112	0.0050	9475515
Dissolved Copper (Cu)	ug/L	0.999	0.050	9475519				1.66	0.050	9475517
Total Copper (Cu)	ug/L	0.143	0.050	9475515				0.177	0.050	9475515
Dissolved Iron (Fe)	ug/L	6.7	1.0	9475516				16.3	1.0	9475516
Total Iron (Fe)	ug/L	11.4	1.0	9475515				27.3	1.0	9475515
Dissolved Lead (Pb)	ug/L	0.0082	0.0050	9475516				0.0092	0.0050	9475516
Total Lead (Pb)	ug/L	<0.0050	0.0050	9475515				0.0057	0.0050	9475515
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9475516				0.56	0.50	9475516
Total Lithium (Li)	ug/L	<0.50	0.50	9475515				0.53	0.50	9475515
Dissolved Manganese (Mn)	ug/L	16.5	0.050	9475516				1.30	0.050	9475516
Total Manganese (Mn)	ug/L	22.0	0.050	9475515				6.50	0.050	9475515
Dissolved Molybdenum (Mo)	ug/L	0.506	0.050	9475516				0.627	0.050	9475516
Total Molybdenum (Mo)	ug/L	0.508	0.050	9475515				0.570	0.050	9475515
Dissolved Nickel (Ni)	ug/L	0.097	0.020	9475516				0.181	0.020	9475516
Total Nickel (Ni)	ug/L	0.094	0.020	9475515				0.167	0.020	9475515
Dissolved Phosphorus (P)	ug/L	3.7	2.0	9475516				2.9	2.0	9475516
Total Phosphorus (P)	ug/L	3.9	2.0	9475515				4.6	2.0	9475515
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9475516				<0.040	0.040	9475516
Total Silicon (Si)	ug/L	1430	50	9475515				1910	50	9475515
Total Selenium (Se)	ug/L	<0.040	0.040	9475515				<0.040	0.040	9475515
Dissolved Silicon (Si)	ug/L	1450	50	9475516				1940	50	9475516
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516

RDL = Reportable Detection Limit
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR824			ZLR824			ZLR825		
Sampling Date		2024/06/07 12:00			2024/06/07 12:00			2024/06/08 14:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-11	RDL	QC Batch	WC-11 Lab-Dup	RDL	QC Batch	MOL-02 NS	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Strontium (Sr)	ug/L	10.5	0.050	9475516				12.7	0.050	9475516
Total Strontium (Sr)	ug/L	10.2	0.050	9475515				12.8	0.050	9475515
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9475516				0.0028	0.0020	9475516
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9475515				0.0022	0.0020	9475515
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Tin (Sn)	ug/L	<0.20	0.20	9475515				<0.20	0.20	9475515
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475516
Total Titanium (Ti)	ug/L	<0.50	0.50	9475515				<0.50	0.50	9475515
Dissolved Uranium (U)	ug/L	0.0582	0.0020	9475516				0.0600	0.0020	9475516
Total Uranium (U)	ug/L	0.0601	0.0020	9475515				0.0649	0.0020	9475515
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Vanadium (V)	ug/L	<0.20	0.20	9475515				<0.20	0.20	9475515
Dissolved Zinc (Zn)	ug/L	1.61	0.10	9475519				2.42	0.10	9475517
Total Zinc (Zn)	ug/L	0.90	0.10	9475515				1.31	0.10	9475515
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9475516				<0.10	0.10	9475516
Total Zirconium (Zr)	ug/L	<0.10	0.10	9475515				<0.10	0.10	9475515
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9507872				<2.0	2.0	9507872
Total Yttrium (Y)	ug/L	<2.0	2.0	9507871				<2.0	2.0	9507873
Dissolved Calcium (Ca)	mg/L	9.32	0.050	9539510				6.80	0.050	9539510
Total Calcium (Ca)	mg/L	9.17	0.050	9539509				6.62	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	4.65	0.050	9539510				2.79	0.050	9539510
Total Magnesium (Mg)	mg/L	4.73	0.050	9539509				2.84	0.050	9539509
Dissolved Potassium (K)	mg/L	0.762	0.050	9539510				0.966	0.050	9539510
Total Potassium (K)	mg/L	0.761	0.050	9539509				0.982	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.405	0.050	9539510				0.701	0.050	9539510
Total Sodium (Na)	mg/L	0.395	0.050	9539509				0.681	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9539510				<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	3.0	9539509				<3.0	3.0	9539509

RDL = Reportable Detection Limit
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR826			ZLR826			ZLR827		
Sampling Date		2024/06/08 14:30			2024/06/08 14:30			2024/06/09 11:30		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	MOL-02 NB	RDL	QC Batch	MOL-02 NB Lab-Dup	RDL	QC Batch	MIL-03 NS	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	28	1.0	9459733				35	1.0	9460699
Inorganics										
Acidity	mg/L	<5.0	5.0	9470024				<5.0	5.0	9470024
Total Ammonia-N	mg/L	<0.050	0.050	9465759				<0.050	0.050	9466000
Conductivity	mS/cm	0.0598	N/A	9465041				0.0705	N/A	9466847
Total Dissolved Solids	mg/L	40	10	9462294				45	10	9462294
Fluoride (F-)	mg/L	<0.10	0.10	9465049				<0.10	0.10	9466843
Dissolved Organic Carbon	mg/L	3.3	0.40	9462887	3.6	0.40	9462887	3.5	0.40	9462887
pH	pH	7.63		9465054				7.63		9466844
Total Phosphorus	mg/L	<0.020	0.020	9466019				<0.020	0.020	9465167
Total Suspended Solids	mg/L	<10	10	9461866				<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	2.3	1.0	9464972				2.4	1.0	9464972
Alkalinity (Total as CaCO3)	mg/L	29	1.0	9465021				35	1.0	9466845
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9464955				<1.0	1.0	9464955
Nitrite (N)	mg/L	<0.010	0.010	9464890				<0.010	0.010	9464890
Nitrate (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9464890
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9464890
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9464946				<1.0	1.0	9464946
Metals										
Dissolved Aluminum (Al)	ug/L	15.7	0.50	9475516				11.5	0.50	9475516
Total Aluminum (Al)	ug/L	19.1	0.50	9475515				12.6	0.50	9475515
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9475516				<0.020	0.020	9475516
Total Antimony (Sb)	ug/L	<0.020	0.020	9475515				<0.020	0.020	9475515
Dissolved Arsenic (As)	ug/L	0.071	0.020	9475516				0.055	0.020	9475516
Total Arsenic (As)	ug/L	0.059	0.020	9475515				0.057	0.020	9475515
Dissolved Barium (Ba)	ug/L	7.81	0.020	9475516				9.03	0.020	9475516
Total Barium (Ba)	ug/L	8.44	0.020	9475515				9.18	0.020	9475515
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9475516				<0.010	0.010	9475516
Total Beryllium (Be)	ug/L	<0.010	0.010	9475515				<0.010	0.010	9475515

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR826			ZLR826			ZLR827		
Sampling Date		2024/06/08 14:30			2024/06/08 14:30			2024/06/09 11:30		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	MOL-02 NB	RDL	QC Batch	MOL-02 NB Lab-Dup	RDL	QC Batch	MIL-03 NS	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Boron (B)	ug/L	<10	10	9475516				<10	10	9475516
Total Boron (B)	ug/L	<10	10	9475515				<10	10	9475515
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Chromium (Cr)	ug/L	0.25	0.10	9475516				0.21	0.10	9475516
Total Chromium (Cr)	ug/L	0.24	0.10	9475515				0.22	0.10	9475515
Dissolved Cobalt (Co)	ug/L	0.0067	0.0050	9475516				0.0068	0.0050	9475516
Total Cobalt (Co)	ug/L	0.0116	0.0050	9475515				0.0099	0.0050	9475515
Dissolved Copper (Cu)	ug/L	1.46	0.050	9475517				0.282	0.050	9475516
Total Copper (Cu)	ug/L	0.169	0.050	9475515				0.220	0.050	9475515
Dissolved Iron (Fe)	ug/L	16.8	1.0	9475516				13.3	1.0	9475516
Total Iron (Fe)	ug/L	29.8	1.0	9475515				19.0	1.0	9475515
Dissolved Lead (Pb)	ug/L	0.0183	0.0050	9475517				<0.0050	0.0050	9475516
Total Lead (Pb)	ug/L	0.0085	0.0050	9475515				0.0078	0.0050	9475515
Dissolved Lithium (Li)	ug/L	0.59	0.50	9475516				<0.50	0.50	9475516
Total Lithium (Li)	ug/L	0.51	0.50	9475515				<0.50	0.50	9475515
Dissolved Manganese (Mn)	ug/L	0.388	0.050	9475516				1.46	0.050	9475516
Total Manganese (Mn)	ug/L	8.18	0.050	9475515				4.95	0.050	9475515
Dissolved Molybdenum (Mo)	ug/L	0.586	0.050	9475516				0.575	0.050	9475516
Total Molybdenum (Mo)	ug/L	0.625	0.050	9475515				0.566	0.050	9475515
Dissolved Nickel (Ni)	ug/L	0.234	0.020	9475517				0.141	0.020	9475516
Total Nickel (Ni)	ug/L	0.174	0.020	9475515				0.142	0.020	9475515
Dissolved Phosphorus (P)	ug/L	3.1	2.0	9475516				3.8	2.0	9475516
Total Phosphorus (P)	ug/L	4.4	2.0	9475515				4.1	2.0	9475515
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9475516				<0.040	0.040	9475516
Total Silicon (Si)	ug/L	1980	50	9475515				1900	50	9475515
Total Selenium (Se)	ug/L	<0.040	0.040	9475515				<0.040	0.040	9475515
Dissolved Silicon (Si)	ug/L	2020	50	9475516				1940	50	9475516
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475516

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR826			ZLR826			ZLR827		
Sampling Date		2024/06/08 14:30			2024/06/08 14:30			2024/06/09 11:30		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	MOL-02 NB	RDL	QC Batch	MOL-02 NB Lab-Dup	RDL	QC Batch	MIL-03 NS	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.0050	0.0050	9475515				<0.0050	0.0050	9475515
Dissolved Strontium (Sr)	ug/L	12.8	0.050	9475516				11.5	0.050	9475516
Total Strontium (Sr)	ug/L	13.0	0.050	9475515				11.6	0.050	9475515
Dissolved Thallium (Tl)	ug/L	0.0021	0.0020	9475516				0.0027	0.0020	9475516
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9475515				0.0021	0.0020	9475515
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Tin (Sn)	ug/L	<0.20	0.20	9475515				<0.20	0.20	9475515
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475516
Total Titanium (Ti)	ug/L	<0.50	0.50	9475515				<0.50	0.50	9475515
Dissolved Uranium (U)	ug/L	0.0522	0.0020	9475516				0.0801	0.0020	9475516
Total Uranium (U)	ug/L	0.0645	0.0020	9475515				0.0747	0.0020	9475515
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475516
Total Vanadium (V)	ug/L	<0.20	0.20	9475515				<0.20	0.20	9475515
Dissolved Zinc (Zn)	ug/L	6.09	0.10	9475517				1.34	0.10	9475516
Total Zinc (Zn)	ug/L	1.10	0.10	9475515				1.16	0.10	9475515
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9475516				0.16	0.10	9475516
Total Zirconium (Zr)	ug/L	<0.10	0.10	9475515				<0.10	0.10	9475515
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9507872				<2.0	2.0	9507874
Total Yttrium (Y)	ug/L	<2.0	2.0	9507871				<2.0	2.0	9507871
Dissolved Calcium (Ca)	mg/L	6.75	0.050	9539510				8.09	0.050	9539510
Total Calcium (Ca)	mg/L	6.68	0.050	9539509				7.97	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	2.76	0.050	9539510				3.68	0.050	9539510
Total Magnesium (Mg)	mg/L	2.86	0.050	9539509				3.65	0.050	9539509
Dissolved Potassium (K)	mg/L	0.980	0.050	9539510				0.846	0.050	9539510
Total Potassium (K)	mg/L	1.02	0.050	9539509				0.860	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.696	0.050	9539510				0.536	0.050	9539510
Total Sodium (Na)	mg/L	0.695	0.050	9539509				0.548	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9539510				<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	3.0	9539509				<3.0	3.0	9539509

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR827			ZLR828			ZLR828		
Sampling Date		2024/06/09 11:30			2024/06/09 12:00			2024/06/09 12:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	MIL-03 NS Lab-Dup	RDL	QC Batch	MIL-03 NB	RDL	QC Batch	MIL-03 NB Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				35	1.0	9460700			
Inorganics										
Acidity	mg/L				<5.0	5.0	9470024			
Total Ammonia-N	mg/L				<0.050	0.050	9465759	<0.050	0.050	9465759
Conductivity	mS/cm	0.0704	N/A	9466847	0.0708	N/A	9466847			
Total Dissolved Solids	mg/L				45	10	9462294			
Fluoride (F-)	mg/L	<0.10	0.10	9466843	<0.10	0.10	9466843			
Dissolved Organic Carbon	mg/L				3.1	0.40	9463166			
pH	pH	7.69		9466844	7.69		9466844			
Total Phosphorus	mg/L				<0.020	0.020	9465167			
Total Suspended Solids	mg/L				<10	10	9461866			
Dissolved Sulphate (SO4)	mg/L				2.1	1.0	9466859			
Alkalinity (Total as CaCO3)	mg/L	35	1.0	9466845	35	1.0	9466845			
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9466858			
Nitrite (N)	mg/L				<0.010	0.010	9465675			
Nitrate (N)	mg/L				<0.10	0.10	9465675			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	9465675			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9465488			
Metals										
Dissolved Aluminum (Al)	ug/L				9.28	0.50	9475516			
Total Aluminum (Al)	ug/L				13.3	0.50	9475515			
Dissolved Antimony (Sb)	ug/L				<0.020	0.020	9475516			
Total Antimony (Sb)	ug/L				<0.020	0.020	9475515			
Dissolved Arsenic (As)	ug/L				0.069	0.020	9475516			
Total Arsenic (As)	ug/L				0.056	0.020	9475515			
Dissolved Barium (Ba)	ug/L				8.89	0.020	9475516			
Total Barium (Ba)	ug/L				9.21	0.020	9475515			
Dissolved Beryllium (Be)	ug/L				0.012	0.010	9475516			
Total Beryllium (Be)	ug/L				<0.010	0.010	9475515			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR827			ZLR828			ZLR828		
Sampling Date		2024/06/09 11:30			2024/06/09 12:00			2024/06/09 12:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	MIL-03 NS Lab-Dup	RDL	QC Batch	MIL-03 NB	RDL	QC Batch	MIL-03 NB Lab-Dup	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L				<0.0050	0.0050	9475516			
Total Bismuth (Bi)	ug/L				<0.0050	0.0050	9475515			
Dissolved Boron (B)	ug/L				<10	10	9475516			
Total Boron (B)	ug/L				<10	10	9475515			
Dissolved Cadmium (Cd)	ug/L				<0.0050	0.0050	9475516			
Total Cadmium (Cd)	ug/L				<0.0050	0.0050	9475515			
Dissolved Chromium (Cr)	ug/L				0.25	0.10	9475516			
Total Chromium (Cr)	ug/L				0.31	0.10	9475515			
Dissolved Cobalt (Co)	ug/L				0.0117	0.0050	9475516			
Total Cobalt (Co)	ug/L				0.0099	0.0050	9475515			
Dissolved Copper (Cu)	ug/L				1.04	0.050	9475517			
Total Copper (Cu)	ug/L				0.302	0.050	9475515			
Dissolved Iron (Fe)	ug/L				24.7	1.0	9475516			
Total Iron (Fe)	ug/L				20.9	1.0	9475515			
Dissolved Lead (Pb)	ug/L				0.0212	0.0050	9475516			
Total Lead (Pb)	ug/L				0.0127	0.0050	9475515			
Dissolved Lithium (Li)	ug/L				<0.50	0.50	9475516			
Total Lithium (Li)	ug/L				<0.50	0.50	9475515			
Dissolved Manganese (Mn)	ug/L				0.927	0.050	9475516			
Total Manganese (Mn)	ug/L				9.93	0.050	9475515			
Dissolved Molybdenum (Mo)	ug/L				0.589	0.050	9475516			
Total Molybdenum (Mo)	ug/L				0.590	0.050	9475515			
Dissolved Nickel (Ni)	ug/L				0.198	0.020	9475516			
Total Nickel (Ni)	ug/L				0.710	0.020	9475515			
Dissolved Phosphorus (P)	ug/L				4.2	2.0	9475516			
Total Phosphorus (P)	ug/L				4.6	2.0	9475515			
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9475516			
Total Silicon (Si)	ug/L				1980	50	9475515			
Total Selenium (Se)	ug/L				<0.040	0.040	9475515			
Dissolved Silicon (Si)	ug/L				1950	50	9475516			
Dissolved Silver (Ag)	ug/L				<0.0050	0.0050	9475516			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR827			ZLR828			ZLR828		
Sampling Date		2024/06/09 11:30			2024/06/09 12:00			2024/06/09 12:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	MIL-03 NS Lab-Dup	RDL	QC Batch	MIL-03 NB	RDL	QC Batch	MIL-03 NB Lab-Dup	RDL	QC Batch
Total Silver (Ag)	ug/L				<0.0050	0.0050	9475515			
Dissolved Strontium (Sr)	ug/L				11.5	0.050	9475516			
Total Strontium (Sr)	ug/L				11.4	0.050	9475515			
Dissolved Thallium (Tl)	ug/L				<0.0020	0.0020	9475516			
Total Thallium (Tl)	ug/L				0.0025	0.0020	9475515			
Dissolved Tin (Sn)	ug/L				<0.20	0.20	9475516			
Total Tin (Sn)	ug/L				<0.20	0.20	9475515			
Dissolved Titanium (Ti)	ug/L				<0.50	0.50	9475516			
Total Titanium (Ti)	ug/L				<0.50	0.50	9475515			
Dissolved Uranium (U)	ug/L				0.0775	0.0020	9475516			
Total Uranium (U)	ug/L				0.0737	0.0020	9475515			
Dissolved Vanadium (V)	ug/L				<0.20	0.20	9475516			
Total Vanadium (V)	ug/L				<0.20	0.20	9475515			
Dissolved Zinc (Zn)	ug/L				5.47	0.10	9475517			
Total Zinc (Zn)	ug/L				1.87	0.10	9475515			
Dissolved Zirconium (Zr)	ug/L				<0.10	0.10	9475516			
Total Zirconium (Zr)	ug/L				<0.10	0.10	9475515			
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9507872			
Total Yttrium (Y)	ug/L				<2.0	2.0	9507871			
Dissolved Calcium (Ca)	mg/L				7.95	0.050	9539510			
Total Calcium (Ca)	mg/L				8.23	0.050	9539509			
Dissolved Magnesium (Mg)	mg/L				3.66	0.050	9539510			
Total Magnesium (Mg)	mg/L				3.68	0.050	9539509			
Dissolved Potassium (K)	mg/L				0.825	0.050	9539510			
Total Potassium (K)	mg/L				0.850	0.050	9539509			
Dissolved Sodium (Na)	mg/L				0.534	0.050	9539510			
Total Sodium (Na)	mg/L				0.567	0.050	9539509			
Dissolved Sulphur (S)	mg/L				<3.0	3.0	9539510			
Total Sulphur (S)	mg/L				<3.0	3.0	9539509			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR829			ZLR829			ZLR832		
Sampling Date		2024/06/09 14:00			2024/06/09 14:00			2024/06/09 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch	MIL-02 NS	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	29	1.0	9460700				34	1.0	9460700
Inorganics										
Acidity	mg/L	<5.0	5.0	9470024				<5.0	5.0	9470024
Total Ammonia-N	mg/L	<0.050	0.050	9465759				0.060	0.050	9466000
Conductivity	mS/cm	0.0605	N/A	9465041				0.0704	N/A	9466847
Total Dissolved Solids	mg/L	45	10	9462294				50	10	9462294
Fluoride (F-)	mg/L	<0.10	0.10	9465049				<0.10	0.10	9466843
Dissolved Organic Carbon	mg/L	3.4	0.40	9463166				3.1	0.40	9463166
pH	pH	7.68		9465054				7.71		9466844
Total Phosphorus	mg/L	<0.020	0.020	9466019				<0.020	0.020	9465167
Total Suspended Solids	mg/L	<10	10	9461866				<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	2.1	1.0	9466859	2.3	1.0	9466859	1.9	1.0	9466859
Alkalinity (Total as CaCO3)	mg/L	29	1.0	9465021				35	1.0	9466845
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9466858	<1.0	1.0	9466858	<1.0	1.0	9466858
Nitrite (N)	mg/L	<0.010	0.010	9464890				<0.010	0.010	9465675
Nitrate (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9465675
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9464890				<0.10	0.10	9465675
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9465488				<1.0	1.0	9466502
Metals										
Dissolved Aluminum (Al)	ug/L	19.4	0.50	9475516				10.8	0.50	9475518
Total Aluminum (Al)	ug/L	21.5	0.50	9475520				10.6	0.50	9475520
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9475516				<0.020	0.020	9475518
Total Antimony (Sb)	ug/L	<0.020	0.020	9475520				<0.020	0.020	9475520
Dissolved Arsenic (As)	ug/L	0.067	0.020	9475516				0.059	0.020	9475518
Total Arsenic (As)	ug/L	0.066	0.020	9475520				0.071	0.020	9475520
Dissolved Barium (Ba)	ug/L	8.83	0.020	9475516				8.46	0.020	9475518
Total Barium (Ba)	ug/L	8.89	0.020	9475520				8.78	0.020	9475520
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9475516				<0.010	0.010	9475518
Total Beryllium (Be)	ug/L	<0.010	0.010	9475520				<0.010	0.010	9475520

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR829			ZLR829			ZLR832		
Sampling Date		2024/06/09 14:00			2024/06/09 14:00			2024/06/09 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch	MIL-02 NS	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475518
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9475520				<0.0050	0.0050	9475520
Dissolved Boron (B)	ug/L	<10	10	9475516				<10	10	9475518
Total Boron (B)	ug/L	<10	10	9475520				<10	10	9475520
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475518
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9475520				<0.0050	0.0050	9475520
Dissolved Chromium (Cr)	ug/L	0.27	0.10	9475516				0.20	0.10	9475518
Total Chromium (Cr)	ug/L	0.25	0.10	9475520				0.21	0.10	9475520
Dissolved Cobalt (Co)	ug/L	0.0094	0.0050	9475516				0.0057	0.0050	9475518
Total Cobalt (Co)	ug/L	0.0127	0.0050	9475520				0.0069	0.0050	9475520
Dissolved Copper (Cu)	ug/L	0.297	0.050	9475519				1.40	0.050	9475519
Total Copper (Cu)	ug/L	0.172	0.050	9475520				0.196	0.050	9475520
Dissolved Iron (Fe)	ug/L	21.3	1.0	9475516				13.7	1.0	9475518
Total Iron (Fe)	ug/L	27.5	1.0	9475520				16.2	1.0	9475520
Dissolved Lead (Pb)	ug/L	0.0101	0.0050	9475516				0.0434	0.0050	9475519
Total Lead (Pb)	ug/L	0.0081	0.0050	9475520				0.0066	0.0050	9475520
Dissolved Lithium (Li)	ug/L	0.58	0.50	9475516				<0.50	0.50	9475518
Total Lithium (Li)	ug/L	0.51	0.50	9475520				<0.50	0.50	9475520
Dissolved Manganese (Mn)	ug/L	3.51	0.050	9475516				2.18	0.050	9475518
Total Manganese (Mn)	ug/L	8.33	0.050	9475520				4.97	0.050	9475520
Dissolved Molybdenum (Mo)	ug/L	0.618	0.050	9475516				0.567	0.050	9475518
Total Molybdenum (Mo)	ug/L	0.737	0.050	9475520				0.610	0.050	9475520
Dissolved Nickel (Ni)	ug/L	0.189	0.020	9475516				0.195	0.020	9475518
Total Nickel (Ni)	ug/L	0.169	0.020	9475520				0.171	0.020	9475520
Dissolved Phosphorus (P)	ug/L	4.2	2.0	9475516				3.6	2.0	9475518
Total Phosphorus (P)	ug/L	7.1	2.0	9475520				6.7	2.0	9475520
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9475516				<0.040	0.040	9475518
Total Silicon (Si)	ug/L	1890	50	9475520				1810	50	9475520
Total Selenium (Se)	ug/L	<0.040	0.040	9475520				<0.040	0.040	9475520
Dissolved Silicon (Si)	ug/L	1920	50	9475516				1850	50	9475518
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9475516				<0.0050	0.0050	9475518

RDL = Reportable Detection Limit
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR829			ZLR829			ZLR832		
Sampling Date		2024/06/09 14:00			2024/06/09 14:00			2024/06/09 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch	MIL-02 NS	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.0050	0.0050	9475520				<0.0050	0.0050	9475520
Dissolved Strontium (Sr)	ug/L	13.0	0.050	9475516				11.3	0.050	9475518
Total Strontium (Sr)	ug/L	13.2	0.050	9475520				11.7	0.050	9475520
Dissolved Thallium (Tl)	ug/L	0.0028	0.0020	9475516				0.0021	0.0020	9475518
Total Thallium (Tl)	ug/L	0.0034	0.0020	9475520				<0.0020	0.0020	9475520
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475518
Total Tin (Sn)	ug/L	<0.20	0.20	9475520				<0.20	0.20	9475520
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9475516				<0.50	0.50	9475518
Total Titanium (Ti)	ug/L	<0.50	0.50	9475520				<0.50	0.50	9475520
Dissolved Uranium (U)	ug/L	0.0616	0.0020	9475516				0.0779	0.0020	9475518
Total Uranium (U)	ug/L	0.0651	0.0020	9475520				0.0767	0.0020	9475520
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9475516				<0.20	0.20	9475518
Total Vanadium (V)	ug/L	<0.20	0.20	9475520				<0.20	0.20	9475520
Dissolved Zinc (Zn)	ug/L	3.48	0.10	9475519				5.04	0.10	9475519
Total Zinc (Zn)	ug/L	0.65	0.10	9475520				0.61	0.10	9475520
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9475516				<0.10	0.10	9475518
Total Zirconium (Zr)	ug/L	<0.10	0.10	9475520				<0.10	0.10	9475520
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9507872				<2.0	2.0	9507872
Total Yttrium (Y)	ug/L	<2.0	2.0	9507871				<2.0	2.0	9507873
Dissolved Calcium (Ca)	mg/L	6.69	0.050	9539510				7.82	0.050	9539510
Total Calcium (Ca)	mg/L	6.72	0.050	9539509				7.87	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	2.87	0.050	9539510				3.46	0.050	9539510
Total Magnesium (Mg)	mg/L	2.71	0.050	9539509				3.45	0.050	9539509
Dissolved Potassium (K)	mg/L	1.01	0.050	9539510				0.823	0.050	9539510
Total Potassium (K)	mg/L	1.04	0.050	9539509				0.876	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.722	0.050	9539510				0.526	0.050	9539510
Total Sodium (Na)	mg/L	0.697	0.050	9539509				0.550	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9539510				<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	3.0	9539509				<3.0	3.0	9539509

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR833		ZLR835			ZLR835		
Sampling Date		2024/06/09 16:30		2024/06/10 11:00			2024/06/10 11:00		
COC Number		C#992671-01-01		C#992671-01-01			C#992671-01-01		
	UNITS	MIL-02 NB	QC Batch	WC-04	RDL	QC Batch	WC-04 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	34	9460700	33	1.0	9460700			
Inorganics									
Acidity	mg/L	<5.0	9470024	<5.0	5.0	9470024			
Total Ammonia-N	mg/L	<0.050	9466000	<0.050	0.050	9465759			
Conductivity	mS/cm	0.0703	9466847	0.071	0.001	9463758	0.071	0.001	9463758
Total Dissolved Solids	mg/L	40	9462294	30	10	9462288			
Fluoride (F-)	mg/L	<0.10	9466843	<0.10	0.10	9463753	<0.10	0.10	9463753
Dissolved Organic Carbon	mg/L	2.8	9462843	3.1	0.40	9463166			
pH	pH	7.66	9466844	7.64		9463755	7.72		9463755
Total Phosphorus	mg/L	<0.020	9465167	<0.020	0.020	9465167			
Total Suspended Solids	mg/L	<10	9461866	<10	10	9462279			
Dissolved Sulphate (SO4)	mg/L	2.0	9466859	2.1	1.0	9463887			
Alkalinity (Total as CaCO3)	mg/L	35	9466845	35	1.0	9463757	35	1.0	9463757
Dissolved Chloride (Cl-)	mg/L	<1.0	9466858	<1.0	1.0	9463882			
Nitrite (N)	mg/L	<0.010	9465675	<0.010	0.010	9463044			
Nitrate (N)	mg/L	<0.10	9465675	<0.10	0.10	9463044			
Nitrate + Nitrite (N)	mg/L	<0.10	9465675	<0.10	0.10	9463044			
Dissolved Bromide (Br-)	mg/L	<1.0	9466502	<1.0	1.0	9463858			
Metals									
Dissolved Aluminum (Al)	ug/L	7.05	9475518	7.58	0.50	9475518			
Total Aluminum (Al)	ug/L	8.08	9475520	8.95	0.50	9475520			
Dissolved Antimony (Sb)	ug/L	<0.020	9475518	<0.020	0.020	9475518			
Total Antimony (Sb)	ug/L	<0.020	9475520	<0.020	0.020	9475520			
Dissolved Arsenic (As)	ug/L	0.050	9475518	0.055	0.020	9475518			
Total Arsenic (As)	ug/L	0.077	9475520	0.063	0.020	9475520			
Dissolved Barium (Ba)	ug/L	8.52	9475518	8.40	0.020	9475518			
Total Barium (Ba)	ug/L	9.21	9475520	8.79	0.020	9475520			
Dissolved Beryllium (Be)	ug/L	<0.010	9475518	<0.010	0.010	9475518			
Total Beryllium (Be)	ug/L	<0.010	9475520	<0.010	0.010	9475520			
Dissolved Bismuth (Bi)	ug/L	<0.0050	9475518	<0.0050	0.0050	9475518			

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR833		ZLR835			ZLR835		
Sampling Date		2024/06/09 16:30		2024/06/10 11:00			2024/06/10 11:00		
COC Number		C#992671-01-01		C#992671-01-01			C#992671-01-01		
	UNITS	MIL-02 NB	QC Batch	WC-04	RDL	QC Batch	WC-04 Lab-Dup	RDL	QC Batch
Total Bismuth (Bi)	ug/L	<0.0050	9475520	<0.0050	0.0050	9475520			
Dissolved Boron (B)	ug/L	<10	9475518	<10	10	9475518			
Total Boron (B)	ug/L	<10	9475520	<10	10	9475520			
Dissolved Cadmium (Cd)	ug/L	<0.0050	9475518	<0.0050	0.0050	9475518			
Total Cadmium (Cd)	ug/L	<0.0050	9475520	<0.0050	0.0050	9475520			
Dissolved Chromium (Cr)	ug/L	0.21	9475518	0.23	0.10	9475518			
Total Chromium (Cr)	ug/L	0.32	9475520	0.23	0.10	9475520			
Dissolved Cobalt (Co)	ug/L	0.0062	9475518	0.0097	0.0050	9475518			
Total Cobalt (Co)	ug/L	0.0080	9475520	0.0062	0.0050	9475520			
Dissolved Copper (Cu)	ug/L	1.38	9475519	1.32	0.050	9475519			
Total Copper (Cu)	ug/L	0.181	9475520	0.180	0.050	9475520			
Dissolved Iron (Fe)	ug/L	16.9	9475518	11.8	1.0	9475518			
Total Iron (Fe)	ug/L	16.1	9475520	15.7	1.0	9475520			
Dissolved Lead (Pb)	ug/L	0.0201	9475519	0.0216	0.0050	9475519			
Total Lead (Pb)	ug/L	0.0064	9475520	<0.0050	0.0050	9475520			
Dissolved Lithium (Li)	ug/L	<0.50	9475518	<0.50	0.50	9475518			
Total Lithium (Li)	ug/L	<0.50	9475520	<0.50	0.50	9475520			
Dissolved Manganese (Mn)	ug/L	0.568	9475518	0.514	0.050	9475518			
Total Manganese (Mn)	ug/L	11.1	9475520	4.99	0.050	9475520			
Dissolved Molybdenum (Mo)	ug/L	0.665	9475518	0.574	0.050	9475518			
Total Molybdenum (Mo)	ug/L	0.648	9475520	0.641	0.050	9475520			
Dissolved Nickel (Ni)	ug/L	0.179	9475518	1.61	0.020	9475519			
Total Nickel (Ni)	ug/L	0.169	9475520	0.132	0.020	9475520			
Dissolved Phosphorus (P)	ug/L	3.6	9475518	4.0	2.0	9475518			
Total Phosphorus (P)	ug/L	4.4	9475520	4.4	2.0	9475520			
Dissolved Selenium (Se)	ug/L	<0.040	9475518	<0.040	0.040	9475518			
Total Silicon (Si)	ug/L	1890	9475520	1860	50	9475520			
Total Selenium (Se)	ug/L	<0.040	9475520	0.041	0.040	9475520			
Dissolved Silicon (Si)	ug/L	1880	9475518	1830	50	9475518			
Dissolved Silver (Ag)	ug/L	<0.0050	9475518	<0.0050	0.0050	9475518			
Total Silver (Ag)	ug/L	<0.0050	9475520	<0.0050	0.0050	9475520			

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR833		ZLR835			ZLR835		
Sampling Date		2024/06/09 16:30		2024/06/10 11:00			2024/06/10 11:00		
COC Number		C#992671-01-01		C#992671-01-01			C#992671-01-01		
	UNITS	MIL-02 NB	QC Batch	WC-04	RDL	QC Batch	WC-04 Lab-Dup	RDL	QC Batch
Dissolved Strontium (Sr)	ug/L	11.4	9475518	11.3	0.050	9475518			
Total Strontium (Sr)	ug/L	11.6	9475520	11.5	0.050	9475520			
Dissolved Thallium (Tl)	ug/L	0.0028	9475518	0.0021	0.0020	9475518			
Total Thallium (Tl)	ug/L	0.0024	9475520	<0.0020	0.0020	9475520			
Dissolved Tin (Sn)	ug/L	<0.20	9475518	<0.20	0.20	9475518			
Total Tin (Sn)	ug/L	<0.20	9475520	<0.20	0.20	9475520			
Dissolved Titanium (Ti)	ug/L	<0.50	9475518	<0.50	0.50	9475518			
Total Titanium (Ti)	ug/L	<0.50	9475520	<0.50	0.50	9475520			
Dissolved Uranium (U)	ug/L	0.0735	9475518	0.0734	0.0020	9475518			
Total Uranium (U)	ug/L	0.0744	9475520	0.0773	0.0020	9475520			
Dissolved Vanadium (V)	ug/L	<0.20	9475518	<0.20	0.20	9475518			
Total Vanadium (V)	ug/L	<0.20	9475520	<0.20	0.20	9475520			
Dissolved Zinc (Zn)	ug/L	5.08	9475519	4.37	0.10	9475519			
Total Zinc (Zn)	ug/L	0.82	9475520	0.72	0.10	9475520			
Dissolved Zirconium (Zr)	ug/L	<0.10	9475518	<0.10	0.10	9475518			
Total Zirconium (Zr)	ug/L	<0.10	9475520	<0.10	0.10	9475520			
Dissolved Yttrium (Y)	ug/L	<2.0	9507872	<2.0	2.0	9507874			
Total Yttrium (Y)	ug/L	<2.0	9507871	<2.0	2.0	9507873			
Dissolved Calcium (Ca)	mg/L	7.69	9539510	7.66	0.050	9539510			
Total Calcium (Ca)	mg/L	8.00	9539509	8.07	0.050	9539509			
Dissolved Magnesium (Mg)	mg/L	3.48	9539510	3.43	0.050	9539510			
Total Magnesium (Mg)	mg/L	3.56	9539509	3.54	0.050	9539509			
Dissolved Potassium (K)	mg/L	0.840	9539510	0.828	0.050	9539510			
Total Potassium (K)	mg/L	0.885	9539509	0.862	0.050	9539509			
Dissolved Sodium (Na)	mg/L	0.535	9539510	0.530	0.050	9539510			
Total Sodium (Na)	mg/L	0.541	9539509	0.538	0.050	9539509			
Dissolved Sulphur (S)	mg/L	<3.0	9539510	<3.0	3.0	9539510			
Total Sulphur (S)	mg/L	<3.0	9539509	<3.0	3.0	9539509			

RDL = Reportable Detection Limit
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR836		ZLR837			ZLR837		
Sampling Date		2024/06/10 15:00		2024/06/10 15:30			2024/06/10 15:30		
COC Number		C#992671-01-01		C#992671-01-01			C#992671-01-01		
	UNITS	PL-02 NS	QC Batch	PL-02 NB	RDL	QC Batch	PL-02 NB Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	26	9460700	26	1.0	9460700			
Inorganics									
Acidity	mg/L	<5.0	9470024	<5.0	5.0	9470024			
Total Ammonia-N	mg/L	<0.050	9465759	<0.050	0.050	9466000			
Conductivity	mS/cm	0.0558	9465041	0.0564	N/A	9465041			
Total Dissolved Solids	mg/L	20	9462288	50	10	9462288			
Fluoride (F-)	mg/L	<0.10	9465049	<0.10	0.10	9465049			
Dissolved Organic Carbon	mg/L	6.2	9463166	5.8	0.40	9462887			
pH	pH	7.58	9465054	7.47		9465054			
Total Phosphorus	mg/L	<0.020	9465167	<0.020	0.020	9465167			
Total Suspended Solids	mg/L	<10	9462279	<10	10	9462279			
Dissolved Sulphate (SO4)	mg/L	2.8	9464972	2.6	1.0	9466859			
Alkalinity (Total as CaCO3)	mg/L	26	9465021	27	1.0	9465021			
Dissolved Chloride (Cl-)	mg/L	<1.0	9464955	<1.0	1.0	9466858			
Nitrite (N)	mg/L	<0.010	9464890	<0.010	0.010	9464890			
Nitrate (N)	mg/L	<0.10	9464890	<0.10	0.10	9464890			
Nitrate + Nitrite (N)	mg/L	<0.10	9464890	<0.10	0.10	9464890			
Dissolved Bromide (Br-)	mg/L	<1.0	9465488	<1.0	1.0	9465488	<1.0	1.0	9465488
Metals									
Dissolved Aluminum (Al)	ug/L	26.7	9475518	30.9	0.50	9475518			
Total Aluminum (Al)	ug/L	34.0	9475520	38.3	0.50	9475520			
Dissolved Antimony (Sb)	ug/L	<0.020	9475518	<0.020	0.020	9475518			
Total Antimony (Sb)	ug/L	<0.020	9475520	<0.020	0.020	9475520			
Dissolved Arsenic (As)	ug/L	0.060	9475518	0.054	0.020	9475518			
Total Arsenic (As)	ug/L	0.079	9475520	0.069	0.020	9475520			
Dissolved Barium (Ba)	ug/L	10.3	9475518	15.0	0.020	9475518			
Total Barium (Ba)	ug/L	11.2	9475520	16.2	0.020	9475520			
Dissolved Beryllium (Be)	ug/L	<0.010	9475518	<0.010	0.010	9475518			
Total Beryllium (Be)	ug/L	<0.010	9475520	<0.010	0.010	9475520			

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR836		ZLR837			ZLR837		
Sampling Date		2024/06/10 15:00		2024/06/10 15:30			2024/06/10 15:30		
COC Number		C#992671-01-01		C#992671-01-01			C#992671-01-01		
	UNITS	PL-02 NS	QC Batch	PL-02 NB	RDL	QC Batch	PL-02 NB Lab-Dup	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L	<0.0050	9475518	<0.0050	0.0050	9475518			
Total Bismuth (Bi)	ug/L	<0.0050	9475520	<0.0050	0.0050	9475520			
Dissolved Boron (B)	ug/L	<10	9475518	<10	10	9475518			
Total Boron (B)	ug/L	<10	9475520	<10	10	9475520			
Dissolved Cadmium (Cd)	ug/L	<0.0050	9475518	<0.0050	0.0050	9475518			
Total Cadmium (Cd)	ug/L	<0.0050	9475520	<0.0050	0.0050	9475520			
Dissolved Chromium (Cr)	ug/L	0.26	9475518	1.28	0.10	9475519			
Total Chromium (Cr)	ug/L	0.30	9475520	0.32	0.10	9475520			
Dissolved Cobalt (Co)	ug/L	0.0115	9475518	0.0594	0.0050	9475519			
Total Cobalt (Co)	ug/L	0.0174	9475520	0.0342	0.0050	9475520			
Dissolved Copper (Cu)	ug/L	1.56	9475519	2.57	0.050	9475519			
Total Copper (Cu)	ug/L	0.327	9475520	0.253	0.050	9475520			
Dissolved Iron (Fe)	ug/L	45.4	9475518	139	1.0	9475518			
Total Iron (Fe)	ug/L	67.4	9475520	244	1.0	9475520			
Dissolved Lead (Pb)	ug/L	0.0198	9475518	0.0286	0.0050	9475519			
Total Lead (Pb)	ug/L	0.0126	9475520	0.0185	0.0050	9475520			
Dissolved Lithium (Li)	ug/L	<0.50	9475518	<0.50	0.50	9475518			
Total Lithium (Li)	ug/L	0.52	9475520	<0.50	0.50	9475520			
Dissolved Manganese (Mn)	ug/L	1.75	9475518	241	0.050	9475518			
Total Manganese (Mn)	ug/L	23.7	9475520	310	0.050	9475520			
Dissolved Molybdenum (Mo)	ug/L	0.540	9475518	0.531	0.050	9475518			
Total Molybdenum (Mo)	ug/L	0.428	9475520	0.420	0.050	9475520			
Dissolved Nickel (Ni)	ug/L	0.315	9475518	14.0	0.020	9475519			
Total Nickel (Ni)	ug/L	0.306	9475520	0.322	0.020	9475520			
Dissolved Phosphorus (P)	ug/L	3.6	9475518	7.0	2.0	9475518			
Total Phosphorus (P)	ug/L	8.8	9475520	15.7	2.0	9475520			
Dissolved Selenium (Se)	ug/L	<0.040	9475518	<0.040	0.040	9475518			
Total Silicon (Si)	ug/L	2010	9475520	2470	50	9475520			
Total Selenium (Se)	ug/L	0.042	9475520	<0.040	0.040	9475520			
Dissolved Silicon (Si)	ug/L	1990	9475518	2510	50	9475518			
Dissolved Silver (Ag)	ug/L	<0.0050	9475518	<0.0050	0.0050	9475518			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR836		ZLR837			ZLR837		
Sampling Date		2024/06/10 15:00		2024/06/10 15:30			2024/06/10 15:30		
COC Number		C#992671-01-01		C#992671-01-01			C#992671-01-01		
	UNITS	PL-02 NS	QC Batch	PL-02 NB	RDL	QC Batch	PL-02 NB Lab-Dup	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.0050	9475520	<0.0050	0.0050	9475520			
Dissolved Strontium (Sr)	ug/L	13.3	9475518	13.0	0.050	9475518			
Total Strontium (Sr)	ug/L	13.6	9475520	13.1	0.050	9475520			
Dissolved Thallium (Tl)	ug/L	0.0039	9475518	0.0024	0.0020	9475518			
Total Thallium (Tl)	ug/L	0.0044	9475520	0.0023	0.0020	9475520			
Dissolved Tin (Sn)	ug/L	<0.20	9475518	<0.20	0.20	9475518			
Total Tin (Sn)	ug/L	<0.20	9475520	<0.20	0.20	9475520			
Dissolved Titanium (Ti)	ug/L	<0.50	9475518	<0.50	0.50	9475518			
Total Titanium (Ti)	ug/L	<0.50	9475520	0.57	0.50	9475520			
Dissolved Uranium (U)	ug/L	0.0608	9475518	0.0561	0.0020	9475518			
Total Uranium (U)	ug/L	0.0698	9475520	0.0673	0.0020	9475520			
Dissolved Vanadium (V)	ug/L	<0.20	9475518	<0.20	0.20	9475518			
Total Vanadium (V)	ug/L	<0.20	9475520	<0.20	0.20	9475520			
Dissolved Zinc (Zn)	ug/L	5.20	9475519	5.34	0.10	9475519			
Total Zinc (Zn)	ug/L	1.19	9475520	1.07	0.10	9475520			
Dissolved Zirconium (Zr)	ug/L	<0.10	9475518	<0.10	0.10	9475518			
Total Zirconium (Zr)	ug/L	<0.10	9475520	<0.10	0.10	9475520			
Dissolved Yttrium (Y)	ug/L	<2.0	9507872	<2.0	2.0	9507874			
Total Yttrium (Y)	ug/L	<2.0	9507871	<2.0	2.0	9507873			
Dissolved Calcium (Ca)	mg/L	6.64	9539510	6.64	0.050	9539510			
Total Calcium (Ca)	mg/L	6.80	9539509	6.78	0.050	9539509			
Dissolved Magnesium (Mg)	mg/L	2.27	9539510	2.27	0.050	9539510			
Total Magnesium (Mg)	mg/L	2.33	9539509	2.37	0.050	9539509			
Dissolved Potassium (K)	mg/L	1.06	9539510	1.04	0.050	9539510			
Total Potassium (K)	mg/L	1.14	9539509	1.10	0.050	9539509			
Dissolved Sodium (Na)	mg/L	0.589	9539510	0.590	0.050	9539510			
Total Sodium (Na)	mg/L	0.631	9539509	0.615	0.050	9539509			
Dissolved Sulphur (S)	mg/L	<3.0	9539510	<3.0	3.0	9539510			
Total Sulphur (S)	mg/L	<3.0	9539509	<3.0	3.0	9539509			

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Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR838		ZLR839		ZLR840		
Sampling Date		2024/06/11 12:00		2024/06/11 15:30		2024/06/12 13:00		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	WC-01	QC Batch	WC-02	QC Batch	WC-09	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	40	9460700	25	9460700	16	1.0	9460700
Inorganics								
Acidity	mg/L	<5.0	9470024	<5.0	9470024	<5.0	5.0	9470024
Total Ammonia-N	mg/L	<0.050	9465759	<0.050	9466000	<0.050	0.050	9466000
Conductivity	mS/cm	0.0843	9466847	0.0530	9466847	0.0377	N/A	9465041
Total Dissolved Solids	mg/L	60	9462288	<10	9462288	30	10	9462288
Fluoride (F-)	mg/L	<0.10	9466843	<0.10	9466843	<0.10	0.10	9465049
Dissolved Organic Carbon	mg/L	5.1	9463166	6.0	9463087	5.5	0.40	9463166
pH	pH	7.54	9466844	7.48	9466844	7.41		9465054
Total Phosphorus	mg/L	<0.020	9465167	<0.020	9465167	<0.020	0.020	9466019
Total Suspended Solids	mg/L	<10	9462279	<10	9462279	<10	10	9462279
Dissolved Sulphate (SO4)	mg/L	3.4	9466859	2.6	9466859	1.9	1.0	9464972
Alkalinity (Total as CaCO3)	mg/L	40	9466845	25	9466845	15	1.0	9465021
Dissolved Chloride (Cl-)	mg/L	<1.0	9466858	<1.0	9466858	<1.0	1.0	9464955
Nitrite (N)	mg/L	<0.010	9465675	<0.010	9465675	<0.010	0.010	9465675
Nitrate (N)	mg/L	<0.10	9465675	<0.10	9465675	<0.10	0.10	9465675
Nitrate + Nitrite (N)	mg/L	<0.10	9465675	<0.10	9465675	<0.10	0.10	9465675
Dissolved Bromide (Br-)	mg/L	<1.0	9465488	<1.0	9466502	<1.0	1.0	9465488
Metals								
Dissolved Aluminum (Al)	ug/L	8.84	9475518	26.7	9475518	47.9	0.50	9475518
Total Aluminum (Al)	ug/L	17.9	9475520	33.8	9475520	78.9	0.50	9475520
Dissolved Antimony (Sb)	ug/L	<0.020	9475518	<0.020	9475518	<0.020	0.020	9475518
Total Antimony (Sb)	ug/L	<0.020	9475520	<0.020	9475520	<0.020	0.020	9475520
Dissolved Arsenic (As)	ug/L	0.066	9475518	0.062	9475518	0.061	0.020	9475518
Total Arsenic (As)	ug/L	0.074	9475520	0.076	9475520	0.074	0.020	9475520
Dissolved Barium (Ba)	ug/L	13.1	9475518	9.82	9475518	8.62	0.020	9475518
Total Barium (Ba)	ug/L	14.6	9475520	10.8	9475520	9.07	0.020	9475520
Dissolved Beryllium (Be)	ug/L	<0.010	9475518	<0.010	9475518	<0.010	0.010	9475518
Total Beryllium (Be)	ug/L	<0.010	9475520	<0.010	9475520	<0.010	0.010	9475520
Dissolved Bismuth (Bi)	ug/L	<0.0050	9475518	<0.0050	9475518	<0.0050	0.0050	9475518

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR838		ZLR839		ZLR840		
Sampling Date		2024/06/11 12:00		2024/06/11 15:30		2024/06/12 13:00		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	WC-01	QC Batch	WC-02	QC Batch	WC-09	RDL	QC Batch
Total Bismuth (Bi)	ug/L	<0.0050	9475520	<0.0050	9475520	<0.0050	0.0050	9475520
Dissolved Boron (B)	ug/L	<10	9475518	<10	9475518	<10	10	9475518
Total Boron (B)	ug/L	<10	9475520	<10	9475520	<10	10	9475520
Dissolved Cadmium (Cd)	ug/L	<0.0050	9475518	<0.0050	9475518	<0.0050	0.0050	9475518
Total Cadmium (Cd)	ug/L	<0.0050	9475520	<0.0050	9475520	<0.0050	0.0050	9475520
Dissolved Chromium (Cr)	ug/L	0.22	9475518	0.29	9475518	0.32	0.10	9475518
Total Chromium (Cr)	ug/L	0.31	9475520	0.30	9475520	0.43	0.10	9475520
Dissolved Cobalt (Co)	ug/L	0.0180	9475518	0.0087	9475518	0.0520	0.0050	9475518
Total Cobalt (Co)	ug/L	0.0278	9475520	0.0152	9475520	0.0722	0.0050	9475520
Dissolved Copper (Cu)	ug/L	0.376	9475518	0.292	9475518	1.04	0.050	9475519
Total Copper (Cu)	ug/L	0.302	9475520	0.295	9475520	0.434	0.050	9475520
Dissolved Iron (Fe)	ug/L	84.5	9475518	43.1	9475518	112	1.0	9475518
Total Iron (Fe)	ug/L	174	9475520	79.7	9475520	187	1.0	9475520
Dissolved Lead (Pb)	ug/L	0.0093	9475518	0.0073	9475518	0.0374	0.0050	9475518
Total Lead (Pb)	ug/L	0.0122	9475520	0.0106	9475520	0.0504	0.0050	9475520
Dissolved Lithium (Li)	ug/L	0.73	9475518	0.51	9475518	<0.50	0.50	9475518
Total Lithium (Li)	ug/L	0.74	9475520	<0.50	9475520	<0.50	0.50	9475520
Dissolved Manganese (Mn)	ug/L	83.6	9475518	2.95	9475518	46.7	0.050	9475518
Total Manganese (Mn)	ug/L	114	9475520	23.3	9475520	49.6	0.050	9475520
Dissolved Molybdenum (Mo)	ug/L	1.08	9475518	0.395	9475518	0.230	0.050	9475518
Total Molybdenum (Mo)	ug/L	1.09	9475520	0.419	9475520	0.198	0.050	9475520
Dissolved Nickel (Ni)	ug/L	0.246	9475518	0.254	9475518	0.466	0.020	9475518
Total Nickel (Ni)	ug/L	0.291	9475520	0.281	9475520	0.498	0.020	9475520
Dissolved Phosphorus (P)	ug/L	6.0	9475518	5.0	9475518	4.9	2.0	9475518
Total Phosphorus (P)	ug/L	11.9	9475520	11.4	9475520	8.4	2.0	9475520
Dissolved Selenium (Se)	ug/L	<0.040	9475518	<0.040	9475518	<0.040	0.040	9475518
Total Silicon (Si)	ug/L	2610	9475520	1880	9475520	968	50	9475520
Total Selenium (Se)	ug/L	<0.040	9475520	<0.040	9475520	<0.040	0.040	9475520
Dissolved Silicon (Si)	ug/L	2590	9475518	1930	9475518	968	50	9475518
Dissolved Silver (Ag)	ug/L	<0.0050	9475518	<0.0050	9475518	<0.0050	0.0050	9475518
Total Silver (Ag)	ug/L	<0.0050	9475520	<0.0050	9475520	<0.0050	0.0050	9475520
Dissolved Strontium (Sr)	ug/L	18.6	9475518	12.7	9475518	11.1	0.050	9475518

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR838		ZLR839		ZLR840		
Sampling Date		2024/06/11 12:00		2024/06/11 15:30		2024/06/12 13:00		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	WC-01	QC Batch	WC-02	QC Batch	WC-09	RDL	QC Batch
Total Strontium (Sr)	ug/L	19.4	9475520	13.3	9475520	11.3	0.050	9475520
Dissolved Thallium (Tl)	ug/L	0.0062	9475518	0.0034	9475518	0.0074	0.0020	9475518
Total Thallium (Tl)	ug/L	0.0064	9475520	0.0057	9475520	0.0075	0.0020	9475520
Dissolved Tin (Sn)	ug/L	<0.20	9475518	<0.20	9475518	<0.20	0.20	9475518
Total Tin (Sn)	ug/L	<0.20	9475520	<0.20	9475520	<0.20	0.20	9475520
Dissolved Titanium (Ti)	ug/L	<0.50	9475518	<0.50	9475518	<0.50	0.50	9475518
Total Titanium (Ti)	ug/L	<0.50	9475520	0.62	9475520	1.31	0.50	9475520
Dissolved Uranium (U)	ug/L	0.0907	9475518	0.0612	9475518	0.0477	0.0020	9475518
Total Uranium (U)	ug/L	0.0920	9475520	0.0657	9475520	0.0601	0.0020	9475520
Dissolved Vanadium (V)	ug/L	<0.20	9475518	<0.20	9475518	<0.20	0.20	9475518
Total Vanadium (V)	ug/L	<0.20	9475520	<0.20	9475520	<0.20	0.20	9475520
Dissolved Zinc (Zn)	ug/L	1.03	9475518	2.17	9475519	2.28	0.10	9475519
Total Zinc (Zn)	ug/L	0.76	9475520	0.53	9475520	0.86	0.10	9475520
Dissolved Zirconium (Zr)	ug/L	<0.10	9475518	<0.10	9475518	<0.10	0.10	9475518
Total Zirconium (Zr)	ug/L	<0.10	9475520	<0.10	9475520	<0.10	0.10	9475520
Dissolved Yttrium (Y)	ug/L	<2.0	9507872	<2.0	9507875	<2.0	2.0	9507874
Total Yttrium (Y)	ug/L	<2.0	9507873	<2.0	9507873	<2.0	2.0	9507871
Dissolved Calcium (Ca)	mg/L	10.2	9539510	6.29	9539510	4.03	0.050	9539510
Total Calcium (Ca)	mg/L	10.4	9539509	6.51	9539509	4.07	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	3.58	9539510	2.18	9539510	1.53	0.050	9539510
Total Magnesium (Mg)	mg/L	3.77	9539509	2.22	9539509	1.60	0.050	9539509
Dissolved Potassium (K)	mg/L	1.45	9539510	1.01	9539510	0.710	0.050	9539510
Total Potassium (K)	mg/L	1.61	9539509	1.10	9539509	0.732	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.790	9539510	0.587	9539510	0.602	0.050	9539510
Total Sodium (Na)	mg/L	0.826	9539509	0.609	9539509	0.634	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	9539510	<3.0	9539510	<3.0	3.0	9539510
Total Sulphur (S)	mg/L	<3.0	9539509	<3.0	9539509	<3.0	3.0	9539509

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR840			ZLR841			ZLR841		
Sampling Date		2024/06/12 13:00			2024/06/12 16:00			2024/06/12 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-09 Lab-Dup	RDL	QC Batch	WC-10	RDL	QC Batch	WC-10 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				12	1.0	9460700			
Inorganics										
Acidity	mg/L				<5.0	5.0	9470024			
Total Ammonia-N	mg/L				<0.050	0.050	9466000			
Conductivity	mS/cm				0.0261	N/A	9465041			
Total Dissolved Solids	mg/L				<10	10	9462288			
Fluoride (F-)	mg/L				<0.10	0.10	9465049			
Dissolved Organic Carbon	mg/L				5.8	0.40	9463087			
pH	pH				7.25		9465054			
Total Phosphorus	mg/L	<0.020	0.020	9466019	<0.020	0.020	9466019			
Total Suspended Solids	mg/L				<10	10	9462279			
Dissolved Sulphate (SO4)	mg/L				1.2	1.0	9464972			
Alkalinity (Total as CaCO3)	mg/L				9.9	1.0	9465021			
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9464955			
Nitrite (N)	mg/L	<0.010	0.010	9465675	<0.010	0.010	9464890			
Nitrate (N)	mg/L	<0.10	0.10	9465675	<0.10	0.10	9464890			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9465675	<0.10	0.10	9464890			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9465488			
Metals										
Dissolved Aluminum (Al)	ug/L				72.7	0.50	9475518			
Total Aluminum (Al)	ug/L				196	0.50	9475520			
Dissolved Antimony (Sb)	ug/L				<0.020	0.020	9475518			
Total Antimony (Sb)	ug/L				0.021	0.020	9475520			
Dissolved Arsenic (As)	ug/L				0.057	0.020	9475518			
Total Arsenic (As)	ug/L				0.088	0.020	9475520			
Dissolved Barium (Ba)	ug/L				6.87	0.020	9475518			
Total Barium (Ba)	ug/L				8.85	0.020	9475520			
Dissolved Beryllium (Be)	ug/L				<0.010	0.010	9475518			
Total Beryllium (Be)	ug/L				<0.010	0.010	9475520			

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR840			ZLR841			ZLR841		
Sampling Date		2024/06/12 13:00			2024/06/12 16:00			2024/06/12 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-09 Lab-Dup	RDL	QC Batch	WC-10	RDL	QC Batch	WC-10 Lab-Dup	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L				<0.0050	0.0050	9475518			
Total Bismuth (Bi)	ug/L				0.0067	0.0050	9475520			
Dissolved Boron (B)	ug/L				<10	10	9475518			
Total Boron (B)	ug/L				<10	10	9475520			
Dissolved Cadmium (Cd)	ug/L				<0.0050	0.0050	9475518			
Total Cadmium (Cd)	ug/L				0.0121	0.0050	9475520			
Dissolved Chromium (Cr)	ug/L				0.39	0.10	9475518			
Total Chromium (Cr)	ug/L				0.47	0.10	9475520			
Dissolved Cobalt (Co)	ug/L				0.0241	0.0050	9475518			
Total Cobalt (Co)	ug/L				0.0690	0.0050	9475520			
Dissolved Copper (Cu)	ug/L				0.452	0.050	9475518			
Total Copper (Cu)	ug/L				1.81	0.050	9475520			
Dissolved Iron (Fe)	ug/L				58.7	1.0	9475518			
Total Iron (Fe)	ug/L				130	1.0	9475520			
Dissolved Lead (Pb)	ug/L				0.0209	0.0050	9475518			
Total Lead (Pb)	ug/L				0.175	0.0050	9475520			
Dissolved Lithium (Li)	ug/L				<0.50	0.50	9475518			
Total Lithium (Li)	ug/L				0.58	0.50	9475520			
Dissolved Manganese (Mn)	ug/L				8.37	0.050	9475518			
Total Manganese (Mn)	ug/L				20.7	0.050	9475520			
Dissolved Molybdenum (Mo)	ug/L				0.106	0.050	9475518			
Total Molybdenum (Mo)	ug/L				0.362	0.050	9475520			
Dissolved Nickel (Ni)	ug/L				0.411	0.020	9475518			
Total Nickel (Ni)	ug/L				0.994	0.020	9475520			
Dissolved Phosphorus (P)	ug/L				4.9	2.0	9475518			
Total Phosphorus (P)	ug/L				13.3	2.0	9475520			
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9475518			
Total Silicon (Si)	ug/L				915	50	9475520			
Total Selenium (Se)	ug/L				<0.040	0.040	9475520			
Dissolved Silicon (Si)	ug/L				863	50	9475518			
Dissolved Silver (Ag)	ug/L				<0.0050	0.0050	9475518			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR840			ZLR841			ZLR841		
Sampling Date		2024/06/12 13:00			2024/06/12 16:00			2024/06/12 16:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-09 Lab-Dup	RDL	QC Batch	WC-10	RDL	QC Batch	WC-10 Lab-Dup	RDL	QC Batch
Total Silver (Ag)	ug/L				0.0065	0.0050	9475520			
Dissolved Strontium (Sr)	ug/L				9.50	0.050	9475518			
Total Strontium (Sr)	ug/L				10.9	0.050	9475520			
Dissolved Thallium (Tl)	ug/L				0.0063	0.0020	9475518			
Total Thallium (Tl)	ug/L				0.0074	0.0020	9475520			
Dissolved Tin (Sn)	ug/L				<0.20	0.20	9475518			
Total Tin (Sn)	ug/L				<0.20	0.20	9475520			
Dissolved Titanium (Ti)	ug/L				<0.50	0.50	9475518			
Total Titanium (Ti)	ug/L				2.27	0.50	9475520			
Dissolved Uranium (U)	ug/L				0.0431	0.0020	9475518			
Total Uranium (U)	ug/L				0.0740	0.0020	9475520			
Dissolved Vanadium (V)	ug/L				<0.20	0.20	9475518			
Total Vanadium (V)	ug/L				1.78	0.20	9475520			
Dissolved Zinc (Zn)	ug/L				1.24	0.10	9475518			
Total Zinc (Zn)	ug/L				5.95	0.10	9475520			
Dissolved Zirconium (Zr)	ug/L				<0.10	0.10	9475518			
Total Zirconium (Zr)	ug/L				<0.10	0.10	9475520			
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9507874			
Total Yttrium (Y)	ug/L				<2.0	2.0	9507873	<2.0	2.0	9507873
Dissolved Calcium (Ca)	mg/L				2.82	0.050	9539511			
Total Calcium (Ca)	mg/L				4.62	0.050	9539509			
Dissolved Magnesium (Mg)	mg/L				1.13	0.050	9539511			
Total Magnesium (Mg)	mg/L				1.32	0.050	9539509			
Dissolved Potassium (K)	mg/L				0.578	0.050	9539511			
Total Potassium (K)	mg/L				0.619	0.050	9539509			
Dissolved Sodium (Na)	mg/L				0.489	0.050	9539511			
Total Sodium (Na)	mg/L				0.972	0.050	9539509			
Dissolved Sulphur (S)	mg/L				<3.0	3.0	9539511			
Total Sulphur (S)	mg/L				<3.0	3.0	9539509			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR842			ZLR842			ZLR843		
Sampling Date		2024/06/12			2024/06/12			2024/06/12 16:15		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	DUP-2	RDL	QC Batch	DUP-2 Lab-Dup	RDL	QC Batch	BLANK	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	11	1.0	9460700				<1.0	1.0	9460700
Inorganics										
Acidity	mg/L	<5.0	5.0	9470024				<5.0	5.0	9470024
Total Ammonia-N	mg/L	<0.050	0.050	9465759				<0.050	0.050	9465759
Conductivity	mS/cm	0.0272	N/A	9466847				0.00330	N/A	9460953
Total Dissolved Solids	mg/L	<10	10	9462288				<10	10	9462294
Fluoride (F-)	mg/L	<0.10	0.10	9466843				<0.10	0.10	9460955
Dissolved Organic Carbon	mg/L	5.9	0.40	9463166				<0.40	0.40	9462887
pH	pH	7.14		9466844				6.22		9460954
Total Phosphorus	mg/L	<0.020	0.020	9466019				<0.020	0.020	9466019
Total Suspended Solids	mg/L	<10	10	9462279				<10	10	9461866
Dissolved Sulphate (SO4)	mg/L	1.4	1.0	9466859				<1.0	1.0	9462789
Alkalinity (Total as CaCO3)	mg/L	10	1.0	9466845				<1.0	1.0	9460951
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9466858				<1.0	1.0	9462783
Nitrite (N)	mg/L	<0.010	0.010	9465675				<0.010	0.010	9462828
Nitrate (N)	mg/L	<0.10	0.10	9465675				<0.10	0.10	9462828
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9465675				<0.10	0.10	9462828
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9465488				<1.0	1.0	9462952
Metals										
Dissolved Aluminum (Al)	ug/L	69.7	0.50	9475518				0.69	0.50	9475518
Total Aluminum (Al)	ug/L	91.4	0.50	9475520				<0.50	0.50	9475520
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9475518				<0.020	0.020	9475518
Total Antimony (Sb)	ug/L	<0.020	0.020	9475520				<0.020	0.020	9475520
Dissolved Arsenic (As)	ug/L	0.055	0.020	9475518				<0.020	0.020	9475518
Total Arsenic (As)	ug/L	0.069	0.020	9475520				<0.020	0.020	9475520
Dissolved Barium (Ba)	ug/L	6.42	0.020	9475518				0.164	0.020	9475518
Total Barium (Ba)	ug/L	7.19	0.020	9475520				0.211	0.020	9475520
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9475518				<0.010	0.010	9475518
Total Beryllium (Be)	ug/L	<0.010	0.010	9475520				<0.010	0.010	9475520

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR842			ZLR842			ZLR843		
Sampling Date		2024/06/12			2024/06/12			2024/06/12 16:15		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	DUP-2	RDL	QC Batch	DUP-2 Lab-Dup	RDL	QC Batch	BLANK	RDL	QC Batch
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9475518				<0.0050	0.0050	9475518
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9475520				<0.0050	0.0050	9475520
Dissolved Boron (B)	ug/L	<10	10	9475518				<10	10	9475518
Total Boron (B)	ug/L	<10	10	9475520				<10	10	9475520
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9475518				<0.0050	0.0050	9475518
Total Cadmium (Cd)	ug/L	0.0057	0.0050	9475520				<0.0050	0.0050	9475520
Dissolved Chromium (Cr)	ug/L	0.38	0.10	9475518				0.11	0.10	9475518
Total Chromium (Cr)	ug/L	0.50	0.10	9475520				<0.10	0.10	9475520
Dissolved Cobalt (Co)	ug/L	0.0199	0.0050	9475518				<0.0050	0.0050	9475518
Total Cobalt (Co)	ug/L	0.0560	0.0050	9475520				<0.0050	0.0050	9475520
Dissolved Copper (Cu)	ug/L	0.524	0.050	9475518				0.602	0.050	9475519
Total Copper (Cu)	ug/L	0.428	0.050	9475520				0.305	0.050	9475520
Dissolved Iron (Fe)	ug/L	56.6	1.0	9475518				<1.0	1.0	9475518
Total Iron (Fe)	ug/L	128	1.0	9475520				1.1	1.0	9475520
Dissolved Lead (Pb)	ug/L	0.0164	0.0050	9475518				0.0126	0.0050	9475518
Total Lead (Pb)	ug/L	0.0433	0.0050	9475520				0.0114	0.0050	9475520
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9475518				<0.50	0.50	9475518
Total Lithium (Li)	ug/L	<0.50	0.50	9475520				<0.50	0.50	9475520
Dissolved Manganese (Mn)	ug/L	8.22	0.050	9475518				<0.050	0.050	9475518
Total Manganese (Mn)	ug/L	20.9	0.050	9475520				<0.050	0.050	9475520
Dissolved Molybdenum (Mo)	ug/L	0.090	0.050	9475518				0.059	0.050	9475518
Total Molybdenum (Mo)	ug/L	0.117	0.050	9475520				0.111	0.050	9475520
Dissolved Nickel (Ni)	ug/L	0.438	0.020	9475518				0.028	0.020	9475518
Total Nickel (Ni)	ug/L	0.458	0.020	9475520				<0.020	0.020	9475520
Dissolved Phosphorus (P)	ug/L	5.0	2.0	9475518				3.1	2.0	9475518
Total Phosphorus (P)	ug/L	7.9	2.0	9475520				3.1	2.0	9475520
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9475518				<0.040	0.040	9475518
Total Silicon (Si)	ug/L	852	50	9475520				<50	50	9475520
Total Selenium (Se)	ug/L	<0.040	0.040	9475520				<0.040	0.040	9475520
Dissolved Silicon (Si)	ug/L	829	50	9475518				<50	50	9475518
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9475518				<0.0050	0.0050	9475518

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZLR842			ZLR842			ZLR843		
Sampling Date		2024/06/12			2024/06/12			2024/06/12 16:15		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	DUP-2	RDL	QC Batch	DUP-2 Lab-Dup	RDL	QC Batch	BLANK	RDL	QC Batch
Total Silver (Ag)	ug/L	<0.0050	0.0050	9475520				<0.0050	0.0050	9475520
Dissolved Strontium (Sr)	ug/L	8.88	0.050	9475518				0.455	0.050	9475518
Total Strontium (Sr)	ug/L	9.29	0.050	9475520				0.501	0.050	9475520
Dissolved Thallium (Tl)	ug/L	0.0052	0.0020	9475518				<0.0020	0.0020	9475518
Total Thallium (Tl)	ug/L	0.0063	0.0020	9475520				<0.0020	0.0020	9475520
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9475518				<0.20	0.20	9475518
Total Tin (Sn)	ug/L	<0.20	0.20	9475520				<0.20	0.20	9475520
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9475518				<0.50	0.50	9475518
Total Titanium (Ti)	ug/L	1.26	0.50	9475520				<0.50	0.50	9475520
Dissolved Uranium (U)	ug/L	0.0409	0.0020	9475518				<0.0020	0.0020	9475518
Total Uranium (U)	ug/L	0.0472	0.0020	9475520				<0.0020	0.0020	9475520
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9475518				<0.20	0.20	9475518
Total Vanadium (V)	ug/L	<0.20	0.20	9475520				<0.20	0.20	9475520
Dissolved Zinc (Zn)	ug/L	1.57	0.10	9475519				2.30	0.10	9475519
Total Zinc (Zn)	ug/L	1.11	0.10	9475520				1.05	0.10	9475520
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9475518				<0.10	0.10	9475518
Total Zirconium (Zr)	ug/L	<0.10	0.10	9475520				<0.10	0.10	9475520
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9507872				<2.0	2.0	9507872
Total Yttrium (Y)	ug/L	<2.0	2.0	9507871	<2.0	2.0	9507871	<2.0	2.0	9507873
Dissolved Calcium (Ca)	mg/L	2.72	0.050	9539510				0.079	0.050	9539511
Total Calcium (Ca)	mg/L	2.82	0.050	9539509				0.090	0.050	9539509
Dissolved Magnesium (Mg)	mg/L	1.09	0.050	9539510				<0.050	0.050	9539511
Total Magnesium (Mg)	mg/L	1.12	0.050	9539509				<0.050	0.050	9539509
Dissolved Potassium (K)	mg/L	0.558	0.050	9539510				<0.050	0.050	9539511
Total Potassium (K)	mg/L	0.580	0.050	9539509				<0.050	0.050	9539509
Dissolved Sodium (Na)	mg/L	0.441	0.050	9539510				0.401	0.050	9539511
Total Sodium (Na)	mg/L	0.444	0.050	9539509				0.411	0.050	9539509
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9539510				<3.0	3.0	9539511
Total Sulphur (S)	mg/L	<3.0	3.0	9539509				<3.0	3.0	9539509

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZLR809	ZLR810			ZLR810		
Sampling Date		2024/06/04 13:30	2024/06/04 16:00			2024/06/04 16:00		
COC Number		C#992671-01-01	C#992671-01-01			C#992671-01-01		
	UNITS	WC-12	DL-01	RDL	QC Batch	DL-01 Lab-Dup	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	<0.00010	0.00010	9468722	<0.00010	0.00010	9468722
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	0.10	9468703			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ZLR811		ZLR812		ZLR813		
Sampling Date		2024/06/05 12:00		2024/06/05 13:30		2024/06/05 15:00		
COC Number		C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	WC-05	QC Batch	WC-06	QC Batch	WC-07	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9468722	<0.00010	9468172	<0.00010	0.00010	9468722
Dissolved Mercury (Hg)	ug/L	<0.10	9468703	<0.10	9470615	<0.10	0.10	9468703

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZLR813			ZLR814		ZLR815		
Sampling Date		2024/06/05 15:00			2024/06/05 16:15		2024/06/06 10:00		
COC Number		C#992671-01-01			C#992671-01-01		C#992671-01-01		
	UNITS	WC-07 Lab-Dup	RDL	QC Batch	WC-08	QC Batch	DL-02 NS	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L				<0.00010	9468172	<0.00010	0.00010	9470574
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	9468703	<0.10	9468703	<0.10	0.10	9468703

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ZLR816	ZLR817	ZLR818		ZLR819		
Sampling Date		2024/06/06 10:30	2024/06/06 13:30	2024/06/06 14:00		2024/06/06		
COC Number		C#992671-01-01	C#992671-01-01	C#992671-01-01		C#992671-01-01		
	UNITS	DL-02 NB	LL-02 NS	LL-02 NB	QC Batch	DUP-1	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	9468172	<0.00010	0.00010	9468722
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	<0.10	9468703	<0.10	0.10	9468703

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZLR820	ZLR821		ZLR822		ZLR823		
Sampling Date		2024/06/06 16:00	2024/06/06 16:30		2024/06/07 15:00		2024/06/07 16:00		
COC Number		C#992671-01-01	C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	LL-03 NS	LL-03 NB	QC Batch	RL-02 NS	QC Batch	RL-02 NB	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	<0.00010	9468722	<0.00010	9468722	<0.00010	0.00010	9468722
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	9468703	<0.10	9470615	<0.10	0.10	9468703

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZLR824	ZLR825		ZLR826		ZLR827		
Sampling Date		2024/06/07 12:00	2024/06/08 14:00		2024/06/08 14:30		2024/06/09 11:30		
COC Number		C#992671-01-01	C#992671-01-01		C#992671-01-01		C#992671-01-01		
	UNITS	WC-11	MOL-02 NS	QC Batch	MOL-02 NB	QC Batch	MIL-03 NS	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	<0.00010	9468722	<0.00010	9470574	<0.00010	0.00010	9468722
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	9468703	<0.10	9468703	<0.10	0.10	9468703

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZLR828		ZLR829	ZLR832	ZLR833		
Sampling Date		2024/06/09 12:00		2024/06/09 14:00	2024/06/09 16:00	2024/06/09 16:30		
COC Number		C#992671-01-01		C#992671-01-01	C#992671-01-01	C#992671-01-01		
	UNITS	MIL-03 NB	QC Batch	WC-03	MIL-02 NS	MIL-02 NB	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9468722	<0.00010	<0.00010	<0.00010	0.00010	9468172
Dissolved Mercury (Hg)	ug/L	<0.10	9468703	<0.10	<0.10	<0.10	0.10	9470615

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZLR835		ZLR836	ZLR837		ZLR838		
Sampling Date		2024/06/10 11:00		2024/06/10 15:00	2024/06/10 15:30		2024/06/11 12:00		
COC Number		C#992671-01-01		C#992671-01-01	C#992671-01-01		C#992671-01-01		
	UNITS	WC-04	QC Batch	PL-02 NS	PL-02 NB	QC Batch	WC-01	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	9468172	<0.00010	<0.00010	9468172	<0.00010	0.00010	9468172
Dissolved Mercury (Hg)	ug/L	<0.10	9470615	<0.10	<0.10	9468703	<0.10	0.10	9470615

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZLR839			ZLR839			ZLR840		
Sampling Date		2024/06/11 15:30			2024/06/11 15:30			2024/06/12 13:00		
COC Number		C#992671-01-01			C#992671-01-01			C#992671-01-01		
	UNITS	WC-02	RDL	QC Batch	WC-02 Lab-Dup	RDL	QC Batch	WC-09	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L	<0.00010	0.00010	9468172	<0.00010	0.00010	9468172	<0.00010	0.00010	9468172
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	9470615				<0.10	0.10	9470615

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ZLR841	ZLR842	ZLR843		
Sampling Date		2024/06/12 16:00	2024/06/12	2024/06/12 16:15		
COC Number		C#992671-01-01	C#992671-01-01	C#992671-01-01		
	UNITS	WC-10	DUP-2	BLANK	RDL	QC Batch
Metals						
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	9468172
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	<0.10	0.10	9470615

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR809
Sample ID: WC-12
Matrix: Water

Collected: 2024/06/04
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR809 Dup
Sample ID: WC-12
Matrix: Water

Collected: 2024/06/04
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau

Bureau Veritas ID: ZLR810
Sample ID: DL-01
Matrix: Water

Collected: 2024/06/04
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462843	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR810
Sample ID: DL-01
Matrix: Water

Collected: 2024/06/04
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR810 Dup
Sample ID: DL-01
Matrix: Water

Collected: 2024/06/04
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai

Bureau Veritas ID: ZLR811
Sample ID: WC-05
Matrix: Water

Collected: 2024/06/05
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462843	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475516	N/A	2024/06/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/06/30	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR811 **Collected:** 2024/06/05
Sample ID: WC-05 **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR811 Dup **Collected:** 2024/06/05
Sample ID: WC-05 **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An

Bureau Veritas ID: ZLR812 **Collected:** 2024/06/05
Sample ID: WC-06 **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/06/30	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

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TEST SUMMARY

Bureau Veritas ID: ZLR812 Dup
Sample ID: WC-06
Matrix: Water

Collected: 2024/06/05
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai

Bureau Veritas ID: ZLR813
Sample ID: WC-07
Matrix: Water

Collected: 2024/06/05
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR813 Dup
Sample ID: WC-07
Matrix: Water

Collected: 2024/06/05
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR814
Sample ID: WC-08
Matrix: Water

Collected: 2024/06/05
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/09	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR815
Sample ID: DL-02 NS
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462843	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9470574	2024/06/20	2024/06/25	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR815
Sample ID: DL-02 NS
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR816
Sample ID: DL-02 NB
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR817
Sample ID: LL-02 NS
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9463757	N/A	2024/06/19	Surinder Rai
Anions	IC	9463858	N/A	2024/06/21	Violeta Porcila

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR817
Sample ID: LL-02 NS
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	9463882	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9463758	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9463753	2024/06/18	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9463044	N/A	2024/06/20	Chandra Nandlal
pH	AT	9463755	2024/06/18	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9463887	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR818
Sample ID: LL-02 NB
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9460951	N/A	2024/06/19	Surinder Rai
Anions	IC	9462952	N/A	2024/06/20	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9462783	N/A	2024/06/19	Massarat Jan
Conductivity	AT	9460953	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9460955	2024/06/18	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/06/24	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9462828	N/A	2024/06/18	Jinal Chavda
pH	AT	9460954	2024/06/18	2024/06/19	Surinder Rai

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR818
Sample ID: LL-02 NB
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sulphate by Automated Turbidimetry	SKAL	9462789	N/A	2024/06/19	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR819
Sample ID: DUP-1
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/21	Sachi Patel
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR819 Dup
Sample ID: DUP-1
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR820
Sample ID: LL-03 NS
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463087	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR821
Sample ID: LL-03 NB
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9467635	N/A	2024/06/20	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: ZLR821
Sample ID: LL-03 NB
Matrix: Water

Collected: 2024/06/06
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR822
Sample ID: RL-02 NS
Matrix: Water

Collected: 2024/06/07
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/09	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR822 Dup
Sample ID: RL-02 NS
Matrix: Water

Collected: 2024/06/07
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR823
Sample ID: RL-02 NB
Matrix: Water

Collected: 2024/06/07
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463087	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR824
Sample ID: WC-11
Matrix: Water

Collected: 2024/06/07
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR824
Sample ID: WC-11
Matrix: Water

Collected: 2024/06/07
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR824 Dup
Sample ID: WC-11
Matrix: Water

Collected: 2024/06/07
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng

Bureau Veritas ID: ZLR825
Sample ID: MOL-02 NS
Matrix: Water

Collected: 2024/06/08
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR825 **Collected:** 2024/06/08
Sample ID: MOL-02 NS **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR826 **Collected:** 2024/06/08
Sample ID: MOL-02 NB **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9459733	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9470574	2024/06/20	2024/06/25	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR826 Dup **Collected:** 2024/06/08
Sample ID: MOL-02 NB **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz

Bureau Veritas ID: ZLR827 **Collected:** 2024/06/09
Sample ID: MIL-03 NS **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR827
Sample ID: MIL-03 NS
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9464946	N/A	2024/06/20	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
Hardness (calculated as CaCO3)		9460699	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475516	N/A	2024/06/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR827 Dup
Sample ID: MIL-03 NS
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil

Bureau Veritas ID: ZLR828
Sample ID: MIL-03 NB
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
Hardness (calculated as CaCO3)		9460700	N/A	2024/07/11	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR828
Sample ID: MIL-03 NB
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468722	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475517	N/A	2024/06/21	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/09	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475515	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/21	Sachi Patel
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR828 Dup
Sample ID: MIL-03 NB
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel

Bureau Veritas ID: ZLR829
Sample ID: WC-03
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR829
Sample ID: WC-03
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR829 Dup
Sample ID: WC-03
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan

Bureau Veritas ID: ZLR832
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9466502	N/A	2024/06/21	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/09	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR833
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2024/06/09
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9466502	N/A	2024/06/21	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462843	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/21	Sachi Patel
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR835
Sample ID: WC-04
Matrix: Water

Collected: 2024/06/10
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9463757	N/A	2024/06/19	Surinder Rai
Anions	IC	9463858	N/A	2024/06/21	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9463882	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9463758	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9463753	2024/06/18	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR835
Sample ID: WC-04
Matrix: Water

Collected: 2024/06/10
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9463044	N/A	2024/06/20	Chandra Nandlal
pH	AT	9463755	2024/06/18	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9463887	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR835 Dup
Sample ID: WC-04
Matrix: Water

Collected: 2024/06/10
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9463757	N/A	2024/06/19	Surinder Rai
Conductivity	AT	9463758	N/A	2024/06/19	Surinder Rai
Fluoride	ISE	9463753	2024/06/18	2024/06/19	Surinder Rai
pH	AT	9463755	2024/06/18	2024/06/19	Surinder Rai

Bureau Veritas ID: ZLR836
Sample ID: PL-02 NS
Matrix: Water

Collected: 2024/06/10
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9460700	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR836 **Collected:** 2024/06/10
Sample ID: PL-02 NS **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR837 **Collected:** 2024/06/10
Sample ID: PL-02 NB **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9460700	N/A	2024/07/11	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9468703	2024/06/20	2024/06/21	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR837 Dup **Collected:** 2024/06/10
Sample ID: PL-02 NB **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila

Bureau Veritas ID: ZLR838 **Collected:** 2024/06/11
Sample ID: WC-01 **Shipped:**
Matrix: Water **Received:** 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR838
Sample ID: WC-01
Matrix: Water

Collected: 2024/06/11
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475518	N/A	2024/06/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR839
Sample ID: WC-02
Matrix: Water

Collected: 2024/06/11
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9466502	N/A	2024/06/21	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463087	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507875	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR839
Sample ID: WC-02
Matrix: Water

Collected: 2024/06/11
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9465167	2024/06/19	2024/06/20	Sachi Patel
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR839 Dup
Sample ID: WC-02
Matrix: Water

Collected: 2024/06/11
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai

Bureau Veritas ID: ZLR840
Sample ID: WC-09
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR840 Dup
Sample ID: WC-09
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan

Bureau Veritas ID: ZLR841
Sample ID: WC-10
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9465021	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9464955	N/A	2024/06/20	Massarat Jan
Conductivity	AT	9465041	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463087	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9465049	2024/06/19	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539511	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475518	N/A	2024/06/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/09	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507874	N/A	2024/07/09	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9466000	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9464890	N/A	2024/06/19	Jinal Chavda
pH	AT	9465054	2024/06/19	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9464972	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR841 Dup
Sample ID: WC-10
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/01	Afifah Naila Bestari

Bureau Veritas ID: ZLR842
Sample ID: DUP-2
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZLR842
Sample ID: DUP-2
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9466845	N/A	2024/06/20	Nachiketa Gohil
Anions	IC	9465488	N/A	2024/06/19	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9466858	N/A	2024/06/21	Alina Dobreanu
Conductivity	AT	9466847	N/A	2024/06/20	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9463166	N/A	2024/06/19	Gyulshen Idriz
Fluoride	ISE	9466843	2024/06/19	2024/06/20	Nachiketa Gohil
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/25	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539510	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9465675	N/A	2024/06/21	Chandra Nandlal
pH	AT	9466844	2024/06/19	2024/06/20	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9466859	N/A	2024/06/20	Massarat Jan
Total Dissolved Solids	BAL	9462288	2024/06/18	2024/06/19	Razieh Tabesh
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9462279	2024/06/18	2024/06/19	Razieh Tabesh

Bureau Veritas ID: ZLR842 Dup
Sample ID: DUP-2
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Extractable Lanthanides-waters	ICP/MSMS	9507871	2024/06/28	2024/07/01	Afifah Naila Bestari

Bureau Veritas ID: ZLR843
Sample ID: BLANK
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9470024	N/A	2024/06/21	Brent Boudreau
Alkalinity	AT	9460951	N/A	2024/06/19	Surinder Rai
Anions	IC	9462952	N/A	2024/06/20	Violeta Porcila
Chloride by Automated Colourimetry	SKAL	9462783	N/A	2024/06/19	Massarat Jan
Conductivity	AT	9460953	N/A	2024/06/19	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9462887	N/A	2024/06/18	Gyulshen Idriz
Fluoride	ISE	9460955	2024/06/18	2024/06/19	Surinder Rai
Hardness (calculated as CaCO3)		9460700	N/A	2024/06/24	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9470615	2024/06/21	2024/06/25	Gagandeep Rai
Mercury in Water by CVAA	CV/AA	9468172	2024/06/20	2024/06/21	Gagandeep Rai

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4I1614
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: ZLR843
Sample ID: BLANK
Matrix: Water

Collected: 2024/06/12
Shipped:
Received: 2024/06/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9539511	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9475519	N/A	2024/06/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9507873	2024/06/28	2024/07/09	Afifah Naila Bestari
Dissolved Lanthanides- waters	ICP/MSMS	9507872	N/A	2024/07/10	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9539509	N/A	2024/07/25	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9475520	N/A	2024/06/20	Andrew An
Total Ammonia-N	SKAL/NH4	9465759	N/A	2024/06/21	Yogesh Patel
Nitrate & Nitrite as Nitrogen in Water	LACH	9462828	N/A	2024/06/18	Jinal Chavda
pH	AT	9460954	2024/06/18	2024/06/19	Surinder Rai
Sulphate by Automated Turbidimetry	SKAL	9462789	N/A	2024/06/19	Massarat Jan
Total Dissolved Solids	BAL	9462294	2024/06/18	2024/06/19	Tina Teng
Total Phosphorus (Colourimetric)	SKAL/P	9466019	2024/06/19	2024/06/21	Muskan
Total Suspended Solids	BAL	9461866	2024/06/18	2024/06/19	Razieh Tabesh

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	11.3°C
Package 2	10.0°C
Package 3	9.0°C
Package 4	9.3°C
Package 5	10.7°C
Package 6	6.7°C
Package 7	8.7°C
Package 8	7.7°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

Revised Report [2024/07/26]: Dissolved and Total Calcium, Potassium, and Sodium included on all samples as per client request.

TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.(TSS WS#946186/TDS WS#9462294 :all samples except sample ZLR843-04)
Version #2: Report reissued to include results for Dissolved and Total Calcium, Potassium, and Sodium on all samples as per client request received 2024/07/24.

Sample ZLR809 [WC-12] : Acidity: Sample integrity may have been compromised, sample received past hold time.

Sample ZLR810 [DL-01] : Acidity: Sample integrity may have been compromised, sample received past hold time.

Sample ZLR811 [WC-05] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample ZLR812 [WC-06] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample ZLR813 [WC-07] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample ZLR814 [WC-08] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample ZLR818 [LL-02 NB] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample ZLR819 [DUP-1] : Acidity: Sample integrity may have been compromised, sample analyzed past hold time.

Sample ZLR821 [LL-03 NB] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample ZLR822 [RL-02 NS] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample ZLR835 [WC-04] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample ZLR836 [PL-02 NS] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

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Sample ZLR837 [PL-02 NB] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample ZLR842 [DUP-2] : Acidity sample contained headspace.

Sample ZLR809, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR810, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR812, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR813, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR814, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR815, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR816, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR817, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR818, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR819, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR820, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR821, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR822, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR823, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR824, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR825, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR826, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR828, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR829, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR832, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR833, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR835, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR836, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR837, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR839, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR840, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR842, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample ZLR843, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9460951	Alkalinity (Total as CaCO3)	2024/06/19			96	85 - 115	<1.0	mg/L	0.71	20		
9460953	Conductivity	2024/06/19			101	85 - 115	0.000600	mS/cm	0.48	10		
9460954	pH	2024/06/19			101	98 - 103			0.38	N/A		
9460955	Fluoride (F-)	2024/06/19	99	80 - 120	98	80 - 120	<0.10	mg/L	9.0	20		
9461866	Total Suspended Solids	2024/06/19			95	80 - 120	<10	mg/L	0	20		
9462279	Total Suspended Solids	2024/06/19			97	80 - 120	<10	mg/L	9.1	20		
9462288	Total Dissolved Solids	2024/06/19			98	80 - 120	<10	mg/L	0	20		
9462294	Total Dissolved Solids	2024/06/19			98	80 - 120	<10	mg/L	9.5	20		
9462783	Dissolved Chloride (Cl-)	2024/06/19	100	80 - 120	99	80 - 120	<1.0	mg/L	0.25	20		
9462789	Dissolved Sulphate (SO4)	2024/06/19	NC	75 - 125	92	80 - 120	<1.0	mg/L	4.2	20		
9462828	Nitrate (N)	2024/06/18	98	80 - 120	104	80 - 120	<0.10	mg/L	NC	20		
9462828	Nitrite (N)	2024/06/18	98	80 - 120	99	80 - 120	<0.010	mg/L	NC	20		
9462843	Dissolved Organic Carbon	2024/06/18	89	80 - 120	92	80 - 120	<0.40	mg/L	1.5	20		
9462887	Dissolved Organic Carbon	2024/06/18	92	80 - 120	96	80 - 120	<0.40	mg/L	9.3	20		
9462952	Dissolved Bromide (Br-)	2024/06/20	100	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
9463044	Nitrate (N)	2024/06/20	95	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
9463044	Nitrite (N)	2024/06/20	102	80 - 120	100	80 - 120	<0.010	mg/L	NC	20		
9463087	Dissolved Organic Carbon	2024/06/19	88	80 - 120	92	80 - 120	<0.40	mg/L	1.3	20		
9463166	Dissolved Organic Carbon	2024/06/19	88	80 - 120	92	80 - 120	<0.40	mg/L	0.56	20		
9463753	Fluoride (F-)	2024/06/19	89	80 - 120	92	80 - 120	<0.10	mg/L	NC	20		
9463755	pH	2024/06/19			102	98 - 103			0.98	N/A		
9463757	Alkalinity (Total as CaCO3)	2024/06/19			96	85 - 115	<1.0	mg/L	0.22	20		
9463758	Conductivity	2024/06/19			100	85 - 115	<0.001	mS/cm	0.42	10		
9463858	Dissolved Bromide (Br-)	2024/06/21	94	80 - 120	100	80 - 120	<1.0	mg/L	NC	20		
9463882	Dissolved Chloride (Cl-)	2024/06/20	99	80 - 120	97	80 - 120	<1.0	mg/L	0.73	20		
9463887	Dissolved Sulphate (SO4)	2024/06/20	NC	75 - 125	95	80 - 120	<1.0	mg/L	2.3	20		
9464890	Nitrate (N)	2024/06/19	98	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
9464890	Nitrite (N)	2024/06/19	105	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
9464946	Dissolved Bromide (Br-)	2024/06/20	98	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
9464955	Dissolved Chloride (Cl-)	2024/06/20	99	80 - 120	97	80 - 120	<1.0	mg/L	NC	20		
9464972	Dissolved Sulphate (SO4)	2024/06/20	102	75 - 125	94	80 - 120	<1.0	mg/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9465021	Alkalinity (Total as CaCO3)	2024/06/20			96	85 - 115	<1.0	mg/L	0.64	20		
9465041	Conductivity	2024/06/19			101	85 - 115	0.000700	mS/cm	0.53	10		
9465049	Fluoride (F-)	2024/06/19	91	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
9465054	pH	2024/06/19			102	98 - 103			0.68	N/A		
9465167	Total Phosphorus	2024/06/20	108	80 - 120	105	80 - 120	<0.020	mg/L	0.61	20	100	80 - 120
9465488	Dissolved Bromide (Br-)	2024/06/19	99	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
9465675	Nitrate (N)	2024/06/21	92	80 - 120	95	80 - 120	<0.10	mg/L	NC	20		
9465675	Nitrite (N)	2024/06/21	101	80 - 120	102	80 - 120	<0.010	mg/L	NC	20		
9465759	Total Ammonia-N	2024/06/21	91	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
9466000	Total Ammonia-N	2024/06/21	94	75 - 125	101	80 - 120	<0.050	mg/L	NC	20		
9466019	Total Phosphorus	2024/06/21	109	80 - 120	108	80 - 120	<0.020	mg/L	NC	20	103	80 - 120
9466502	Dissolved Bromide (Br-)	2024/06/21	96	80 - 120	97	80 - 120	<1.0	mg/L	NC	20		
9466843	Fluoride (F-)	2024/06/20	101	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
9466844	pH	2024/06/20			102	98 - 103			0.69	N/A		
9466845	Alkalinity (Total as CaCO3)	2024/06/20			96	85 - 115	<1.0	mg/L	0.60	20		
9466847	Conductivity	2024/06/20			100	85 - 115	0.000700	mS/cm	0.14	10		
9466858	Dissolved Chloride (Cl-)	2024/06/21	85	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
9466859	Dissolved Sulphate (SO4)	2024/06/20	98	75 - 125	93	80 - 120	<1.0	mg/L	6.0	20		
9467635	Acidity	2024/06/20	99	80 - 120	104	80 - 120	<5.0	mg/L	NC	25		
9468172	Mercury (Hg)	2024/06/21	96	75 - 125	97	80 - 120	<0.00010	mg/L	NC	20		
9468703	Dissolved Mercury (Hg)	2024/06/21	100	75 - 125	99	80 - 120	<0.10	ug/L	NC	20		
9468722	Mercury (Hg)	2024/06/21	98	75 - 125	99	80 - 120	<0.00010	mg/L	NC	20		
9470024	Acidity	2024/06/21	97	80 - 120	105	80 - 120	<5.0	mg/L	NC	25		
9470574	Mercury (Hg)	2024/06/25	94	75 - 125	94	80 - 120	<0.00010	mg/L	NC	20		
9470615	Dissolved Mercury (Hg)	2024/06/25	96	75 - 125	95	80 - 120	<0.10	ug/L	NC	20		
9475515	Total Aluminum (Al)	2024/06/20	103	80 - 120	107	80 - 120	<0.50	ug/L	0.0064	20		
9475515	Total Antimony (Sb)	2024/06/20	101	80 - 120	107	80 - 120	<0.020	ug/L	NC	20		
9475515	Total Arsenic (As)	2024/06/20	102	80 - 120	105	80 - 120	<0.020	ug/L	3.6	20		
9475515	Total Barium (Ba)	2024/06/20	98	80 - 120	104	80 - 120	<0.020	ug/L	1.8	20		
9475515	Total Beryllium (Be)	2024/06/20	105	80 - 120	109	80 - 120	<0.010	ug/L	NC	20		
9475515	Total Bismuth (Bi)	2024/06/20	98	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9475515	Total Boron (B)	2024/06/20	110	80 - 120	113	80 - 120	<10	ug/L	NC	20		
9475515	Total Cadmium (Cd)	2024/06/20	101	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20		
9475515	Total Chromium (Cr)	2024/06/20	100	80 - 120	105	80 - 120	<0.10	ug/L	17	20		
9475515	Total Cobalt (Co)	2024/06/20	97	80 - 120	101	80 - 120	<0.0050	ug/L	8.1	20		
9475515	Total Copper (Cu)	2024/06/20	99	80 - 120	102	80 - 120	<0.050	ug/L	3.0	20		
9475515	Total Iron (Fe)	2024/06/20	104	80 - 120	107	80 - 120	<1.0	ug/L	1.1	20		
9475515	Total Lead (Pb)	2024/06/20	99	80 - 120	105	80 - 120	<0.0050	ug/L	0.56	20		
9475515	Total Lithium (Li)	2024/06/20	104	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
9475515	Total Manganese (Mn)	2024/06/20	100	80 - 120	105	80 - 120	<0.050	ug/L	1.1	20		
9475515	Total Molybdenum (Mo)	2024/06/20	105	80 - 120	109	80 - 120	<0.050	ug/L	1.0	20		
9475515	Total Nickel (Ni)	2024/06/20	100	80 - 120	105	80 - 120	<0.020	ug/L	12	20		
9475515	Total Phosphorus (P)	2024/06/20	107	80 - 120	110	80 - 120	<2.0	ug/L	12	20		
9475515	Total Selenium (Se)	2024/06/20	100	80 - 120	101	80 - 120	<0.040	ug/L	9.8	20		
9475515	Total Silicon (Si)	2024/06/20	105	80 - 120	112	80 - 120	<50	ug/L	0.30	20		
9475515	Total Silver (Ag)	2024/06/20	101	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20		
9475515	Total Strontium (Sr)	2024/06/20	102	80 - 120	107	80 - 120	<0.050	ug/L	0.74	20		
9475515	Total Thallium (Tl)	2024/06/20	102	80 - 120	106	80 - 120	<0.0020	ug/L	NC	20		
9475515	Total Tin (Sn)	2024/06/20	102	80 - 120	107	80 - 120	<0.20	ug/L	NC	20		
9475515	Total Titanium (Ti)	2024/06/20	103	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
9475515	Total Uranium (U)	2024/06/20	105	80 - 120	101	80 - 120	<0.0020	ug/L	7.3	20		
9475515	Total Vanadium (V)	2024/06/20	101	80 - 120	104	80 - 120	<0.20	ug/L	NC	20		
9475515	Total Zinc (Zn)	2024/06/20	102	80 - 120	105	80 - 120	<0.10	ug/L	5.9	20		
9475515	Total Zirconium (Zr)	2024/06/20	103	80 - 120	105	80 - 120	<0.10	ug/L	NC	20		
9475516	Dissolved Aluminum (Al)	2024/06/20	103	80 - 120	104	80 - 120	<0.50	ug/L				
9475516	Dissolved Antimony (Sb)	2024/06/20	104	80 - 120	105	80 - 120	<0.020	ug/L				
9475516	Dissolved Arsenic (As)	2024/06/20	103	80 - 120	104	80 - 120	<0.020	ug/L				
9475516	Dissolved Barium (Ba)	2024/06/20	102	80 - 120	103	80 - 120	<0.020	ug/L				
9475516	Dissolved Beryllium (Be)	2024/06/20	106	80 - 120	106	80 - 120	<0.010	ug/L				
9475516	Dissolved Bismuth (Bi)	2024/06/20	100	80 - 120	103	80 - 120	<0.0050	ug/L				
9475516	Dissolved Boron (B)	2024/06/20	113	80 - 120	106	80 - 120	<10	ug/L				
9475516	Dissolved Cadmium (Cd)	2024/06/20	103	80 - 120	105	80 - 120	<0.0050	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9475516	Dissolved Chromium (Cr)	2024/06/20	102	80 - 120	105	80 - 120	<0.10	ug/L				
9475516	Dissolved Cobalt (Co)	2024/06/20	98	80 - 120	101	80 - 120	<0.0050	ug/L				
9475516	Dissolved Copper (Cu)	2024/06/20	101	80 - 120	103	80 - 120	<0.050	ug/L				
9475516	Dissolved Iron (Fe)	2024/06/20	107	80 - 120	107	80 - 120	<1.0	ug/L				
9475516	Dissolved Lead (Pb)	2024/06/20	100	80 - 120	101	80 - 120	<0.0050	ug/L				
9475516	Dissolved Lithium (Li)	2024/06/20	103	80 - 120	103	80 - 120	<0.50	ug/L				
9475516	Dissolved Manganese (Mn)	2024/06/20	100	80 - 120	106	80 - 120	<0.050	ug/L				
9475516	Dissolved Molybdenum (Mo)	2024/06/20	106	80 - 120	107	80 - 120	<0.050	ug/L				
9475516	Dissolved Nickel (Ni)	2024/06/20	103	80 - 120	105	80 - 120	<0.020	ug/L				
9475516	Dissolved Phosphorus (P)	2024/06/20	108	80 - 120	107	80 - 120	<2.0	ug/L				
9475516	Dissolved Selenium (Se)	2024/06/20	103	80 - 120	101	80 - 120	<0.040	ug/L				
9475516	Dissolved Silicon (Si)	2024/06/20	108	80 - 120	112	80 - 120	<50	ug/L				
9475516	Dissolved Silver (Ag)	2024/06/20	103	80 - 120	105	80 - 120	<0.0050	ug/L				
9475516	Dissolved Strontium (Sr)	2024/06/20	102	80 - 120	106	80 - 120	<0.050	ug/L				
9475516	Dissolved Thallium (Tl)	2024/06/20	103	80 - 120	104	80 - 120	<0.0020	ug/L				
9475516	Dissolved Tin (Sn)	2024/06/20	104	80 - 120	105	80 - 120	<0.20	ug/L				
9475516	Dissolved Titanium (Ti)	2024/06/20	104	80 - 120	107	80 - 120	<0.50	ug/L				
9475516	Dissolved Uranium (U)	2024/06/20	102	80 - 120	104	80 - 120	0.0031, RDL=0.0020 (1)	ug/L				
9475516	Dissolved Vanadium (V)	2024/06/20	103	80 - 120	104	80 - 120	<0.20	ug/L				
9475516	Dissolved Zinc (Zn)	2024/06/20	105	80 - 120	106	80 - 120	<0.10	ug/L				
9475516	Dissolved Zirconium (Zr)	2024/06/20	104	80 - 120	106	80 - 120	<0.10	ug/L				
9475517	Dissolved Copper (Cu)	2024/06/21			96	80 - 120	<0.050	ug/L				
9475517	Dissolved Iron (Fe)	2024/06/21			100	80 - 120	<1.0	ug/L				
9475517	Dissolved Lead (Pb)	2024/06/21			96	80 - 120	<0.0050	ug/L				
9475517	Dissolved Nickel (Ni)	2024/06/21			98	80 - 120	<0.020	ug/L				
9475517	Dissolved Zinc (Zn)	2024/06/21			101	80 - 120	<0.10	ug/L				
9475518	Dissolved Aluminum (Al)	2024/06/20	105	80 - 120	108	80 - 120	<0.50	ug/L				
9475518	Dissolved Antimony (Sb)	2024/06/20	102	80 - 120	105	80 - 120	<0.020	ug/L				
9475518	Dissolved Arsenic (As)	2024/06/20	100	80 - 120	102	80 - 120	<0.020	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9475518	Dissolved Barium (Ba)	2024/06/20	99	80 - 120	103	80 - 120	<0.020	ug/L				
9475518	Dissolved Beryllium (Be)	2024/06/20	105	80 - 120	107	80 - 120	<0.010	ug/L				
9475518	Dissolved Bismuth (Bi)	2024/06/20	101	80 - 120	104	80 - 120	<0.0050	ug/L				
9475518	Dissolved Boron (B)	2024/06/20	110	80 - 120	109	80 - 120	<10	ug/L				
9475518	Dissolved Cadmium (Cd)	2024/06/20	99	80 - 120	102	80 - 120	<0.0050	ug/L				
9475518	Dissolved Chromium (Cr)	2024/06/20	97	80 - 120	101	80 - 120	<0.10	ug/L				
9475518	Dissolved Cobalt (Co)	2024/06/20	93	80 - 120	97	80 - 120	<0.0050	ug/L				
9475518	Dissolved Copper (Cu)	2024/06/20	94	80 - 120	99	80 - 120	<0.050	ug/L				
9475518	Dissolved Iron (Fe)	2024/06/20	106	80 - 120	107	80 - 120	<1.0	ug/L				
9475518	Dissolved Lead (Pb)	2024/06/20	98	80 - 120	101	80 - 120	<0.0050	ug/L				
9475518	Dissolved Lithium (Li)	2024/06/20	104	80 - 120	106	80 - 120	<0.50	ug/L				
9475518	Dissolved Manganese (Mn)	2024/06/20	97	80 - 120	101	80 - 120	<0.050	ug/L				
9475518	Dissolved Molybdenum (Mo)	2024/06/20	105	80 - 120	105	80 - 120	<0.050	ug/L				
9475518	Dissolved Nickel (Ni)	2024/06/20	95	80 - 120	100	80 - 120	<0.020	ug/L				
9475518	Dissolved Phosphorus (P)	2024/06/20	108	80 - 120	107	80 - 120	<2.0	ug/L				
9475518	Dissolved Selenium (Se)	2024/06/20	97	80 - 120	97	80 - 120	<0.040	ug/L				
9475518	Dissolved Silicon (Si)	2024/06/20	NC	80 - 120	109	80 - 120	<50	ug/L				
9475518	Dissolved Silver (Ag)	2024/06/20	99	80 - 120	101	80 - 120	<0.0050	ug/L				
9475518	Dissolved Strontium (Sr)	2024/06/20	NC	80 - 120	105	80 - 120	<0.050	ug/L				
9475518	Dissolved Thallium (Tl)	2024/06/20	100	80 - 120	102	80 - 120	<0.0020	ug/L				
9475518	Dissolved Tin (Sn)	2024/06/20	100	80 - 120	103	80 - 120	<0.20	ug/L				
9475518	Dissolved Titanium (Ti)	2024/06/20	97	80 - 120	102	80 - 120	<0.50	ug/L				
9475518	Dissolved Uranium (U)	2024/06/20	104	80 - 120	103	80 - 120	0.0025, RDL=0.0020 (1)	ug/L				
9475518	Dissolved Vanadium (V)	2024/06/20	99	80 - 120	101	80 - 120	<0.20	ug/L				
9475518	Dissolved Zinc (Zn)	2024/06/20	96	80 - 120	102	80 - 120	<0.10	ug/L				
9475518	Dissolved Zirconium (Zr)	2024/06/20	103	80 - 120	105	80 - 120	<0.10	ug/L				
9475519	Dissolved Chromium (Cr)	2024/06/22			95	80 - 120	<0.10	ug/L				
9475519	Dissolved Cobalt (Co)	2024/06/22			97	80 - 120	<0.0050	ug/L				
9475519	Dissolved Copper (Cu)	2024/06/22			97	80 - 120	<0.050	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9475519	Dissolved Lead (Pb)	2024/06/22			99	80 - 120	<0.0050	ug/L				
9475519	Dissolved Nickel (Ni)	2024/06/22			98	80 - 120	<0.020	ug/L				
9475519	Dissolved Zinc (Zn)	2024/06/22			101	80 - 120	<0.10	ug/L				
9475520	Total Aluminum (Al)	2024/06/20	103	80 - 120	110	80 - 120	<0.50	ug/L				
9475520	Total Antimony (Sb)	2024/06/20	99	80 - 120	106	80 - 120	<0.020	ug/L				
9475520	Total Arsenic (As)	2024/06/20	99	80 - 120	105	80 - 120	<0.020	ug/L				
9475520	Total Barium (Ba)	2024/06/20	95	80 - 120	104	80 - 120	<0.020	ug/L				
9475520	Total Beryllium (Be)	2024/06/20	103	80 - 120	108	80 - 120	<0.010	ug/L				
9475520	Total Bismuth (Bi)	2024/06/20	97	80 - 120	105	80 - 120	<0.0050	ug/L				
9475520	Total Boron (B)	2024/06/20	110	80 - 120	111	80 - 120	<10	ug/L				
9475520	Total Cadmium (Cd)	2024/06/20	99	80 - 120	105	80 - 120	<0.0050	ug/L				
9475520	Total Chromium (Cr)	2024/06/20	99	80 - 120	105	80 - 120	<0.10	ug/L				
9475520	Total Cobalt (Co)	2024/06/20	94	80 - 120	101	80 - 120	<0.0050	ug/L				
9475520	Total Copper (Cu)	2024/06/20	96	80 - 120	103	80 - 120	<0.050	ug/L				
9475520	Total Iron (Fe)	2024/06/20	105	80 - 120	109	80 - 120	<1.0	ug/L				
9475520	Total Lead (Pb)	2024/06/20	98	80 - 120	103	80 - 120	<0.0050	ug/L				
9475520	Total Lithium (Li)	2024/06/20	104	80 - 120	107	80 - 120	<0.50	ug/L				
9475520	Total Manganese (Mn)	2024/06/20	99	80 - 120	106	80 - 120	<0.050	ug/L				
9475520	Total Molybdenum (Mo)	2024/06/20	102	80 - 120	109	80 - 120	<0.050	ug/L				
9475520	Total Nickel (Ni)	2024/06/20	97	80 - 120	105	80 - 120	<0.020	ug/L				
9475520	Total Phosphorus (P)	2024/06/20	104	80 - 120	112	80 - 120	<2.0	ug/L				
9475520	Total Selenium (Se)	2024/06/20	99	80 - 120	103	80 - 120	<0.040	ug/L				
9475520	Total Silicon (Si)	2024/06/20	NC	80 - 120	116	80 - 120	<50	ug/L				
9475520	Total Silver (Ag)	2024/06/20	101	80 - 120	105	80 - 120	<0.0050	ug/L				
9475520	Total Strontium (Sr)	2024/06/20	NC	80 - 120	107	80 - 120	<0.050	ug/L				
9475520	Total Thallium (Tl)	2024/06/20	100	80 - 120	105	80 - 120	<0.0020	ug/L				
9475520	Total Tin (Sn)	2024/06/20	101	80 - 120	108	80 - 120	<0.20	ug/L				
9475520	Total Titanium (Ti)	2024/06/20	101	80 - 120	106	80 - 120	<0.50	ug/L				
9475520	Total Uranium (U)	2024/06/20	106	80 - 120	110	80 - 120	<0.0020	ug/L				
9475520	Total Vanadium (V)	2024/06/20	100	80 - 120	105	80 - 120	<0.20	ug/L				
9475520	Total Zinc (Zn)	2024/06/20	98	80 - 120	106	80 - 120	<0.10	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9475520	Total Zirconium (Zr)	2024/06/20	103	80 - 120	106	80 - 120	<0.10	ug/L				
9507871	Total Yttrium (Y)	2024/07/01			95	80 - 120	<2.0	ug/L	NC	30		
9507872	Dissolved Yttrium (Y)	2024/07/10			97	80 - 120	<2.0	ug/L				
9507873	Total Yttrium (Y)	2024/07/01			92	80 - 120	<2.0	ug/L	NC	30		
9507874	Dissolved Yttrium (Y)	2024/07/09			95	80 - 120	<2.0	ug/L				
9507875	Dissolved Yttrium (Y)	2024/07/10			94	80 - 120	<2.0	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Method blank exceeds acceptance limits- 2X RDL acceptable for low level metals determination.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Supervisor-Afternoon Shift

Cristina Carriere, Senior Scientific Specialist

David Huang, BBY Scientific Specialist

Jonathan Fauvel, B.Sc, Chimiste, Scientific Specialist

Janah Rhyno, Scientific Specialist

Zineb El Ouali
Membre OCQ#2021-051

Zineb El Ouali, Analyst 1

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ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 8	# 992671-01-01
Page 2 of 8	# 992671-04-02
Page 3 of 8	# 992671-02-01
Page 4 of 8	# 992671-01-02
Page 5 of 8	# 992671-03-01
Page 6 of 8	# 992671-02-02
Page 7 of 8	# 992671-04-01
Page 8 of 8	# 992671-03-02
Page ___ of ___	
Page ___ of ___	
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Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

BV JOB#:

	YES	NO	COOLER ID	1	2	3
CUSTODY SEAL PRESENT	✓		TEMP	12	12	10
CUSTODY SEAL INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL PRESENT	✓		TEMP	10	10	10
CUSTODY SEAL INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL PRESENT	✓		TEMP	10	9	8
CUSTODY SEAL INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL PRESENT	✓		TEMP	9	9	10
CUSTODY SEAL INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL PRESENT	✓		TEMP	11	10	11
CUSTODY SEAL INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL PRESENT	✓		TEMP	6	7	7
CUSTODY SEAL INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL PRESENT	✓		TEMP	10	8	8
CUSTODY SEAL INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL PRESENT	✓		TEMP	7	8	8
CUSTODY SEAL INTACT	✓					
ICE PRESENT	✓					
CUSTODY SEAL PRESENT			TEMP	1	2	3
CUSTODY SEAL INTACT						
ICE PRESENT						
CUSTODY SEAL PRESENT			TEMP	1	2	3
CUSTODY SEAL INTACT						
ICE PRESENT						

	YES	NO	COOLER ID	1	2	3
CUSTODY SEAL PRESENT			TEMP			
CUSTODY SEAL INTACT						
ICE PRESENT						
CUSTODY SEAL PRESENT			TEMP			
CUSTODY SEAL INTACT						
ICE PRESENT						
CUSTODY SEAL PRESENT			TEMP			
CUSTODY SEAL INTACT						
ICE PRESENT						
CUSTODY SEAL PRESENT			TEMP			
CUSTODY SEAL INTACT						
ICE PRESENT						
CUSTODY SEAL PRESENT			TEMP			
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CUSTODY SEAL INTACT						
ICE PRESENT						
CUSTODY SEAL PRESENT			TEMP			
CUSTODY SEAL INTACT						
ICE PRESENT						
CUSTODY SEAL PRESENT			TEMP			
CUSTODY SEAL INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
	MRMO	2024/06/14	14:00

IMMEDIATE

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NONT-2024-06-1365

INVOICE TO:

Company Name: #1326 WSP Canada Inc.
Attention: Accounts Payable
Address: 6925 Century Ave Suite 100, Mississauga ON L5N 7K2
Tel: (905) 567-4444 Fax: (905) 567-6561
Email: CAPayablesInvoice@wsp.com

REPORT TO:

Company Name:
Attention: Michael Hildebrandt
Address:
Tel: Fax:
Email: michael.hildebrandt@wsp.com

PROJECT INFORMATION:

Quotation #: C41059
P.O. #:
Project: CA0003092.5894/500
Project Name:
Site #:
Sampled By: MH + BL

nly:

Bottle Order #: 992671
COC #: C#992671-01-01
Project Manager: Ankita Bhalla

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Alkalinity/Anions/Conductivity/pH/Hardness	Chloride/Fluoride/Sulphate/NO23	Dissolved Organic Carbon (DOC)	Total Ammonia-N/Total Phosphorus	Total Dissolved Solids/TSS	Acidity (CaCO3) in water	Dissolved Mercury in Water by CVAA	Mercury in Water by CVAA	Dissolved Metals by ICPMS	Total Metals Analysis by ICPMS	# of Bottles	Comments
1		Daviault Outlet	24/06/04	1330	SW	Hg x1 Metals x1	X	X	X	X	X	X	X	X	X	X	11	
2		Daviault - 01	24/06/04	1600	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3		WC - 05	24/06/05	1200	SW	Hg x1 Metals x1												
4		WC - 06	24/06/05	1330	SW	Hg x1 Metals x1												
5		WC - 07	24/06/05	1500	SW	Hg x1 Metals x1												
6		WC - 08	24/06/05	1615	SW	Hg x1 Metals x1												
7		DL 1m	24/06/06	1000	SW	Hg x1 Metals x1												
8		DL 22m	24/06/06	1030	SW	Hg x1 Metals x1												
9		Long - 02 1m	24/06/06	1330	SW	Hg x1 Metals x1												
10		Long - 02 27m	24/06/06	1400	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	24/06/14	1350	[illegible]	2024/06/14	14:00	

Laboratory Use Only
Time Sensitive | Temperature (°C) on Receipt: cooler 10 ff | Custody Seal Present ☐ Yes ☐ No | Intact ☐ Yes ☐ No

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			992671
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#992671-04-02	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Site #:			
				Sampled By:	MH + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Total Extractable Lanthanides-waters	Dissolved Lanthanides- waters	# of Bottles	Comments
1		Daviault Outlet	24/06/04	1330	SW	Hg×1 Metals×1	X	X	11	
2		Daviault - 01	24/06/04	1600	SW	Hg×1 Metals×1	↓	↓	↓	
3		WC-05	24/06/05	1200	SW	Hg×1 Metals×1				
4		WC-06	24/06/05	1330	SW	Hg×1 Metals×1				
5		WC-07	24/06/05	1500	SW	Hg×1 Metals×1				
6		WC-08	24/06/05	1615	SW	Hg×1 Metals×1				
7		DL 1m	24/06/06	1000	SW	Hg×1 Metals×1				
8		DL 22m	24/06/06	1030	SW	Hg×1 Metals×1				
9		Long-02 1m	24/06/06	1330	SW	Hg×1 Metals×1				
10		Long-02 27m	24/06/06	1400	SW	Hg×1 Metals×1	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Michael Hildebrandt	24/06/14	1350	Rec page 1						Intact		

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Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			992671
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#992671-02-01	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
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☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? _____

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

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Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Alkalinity/Anions/Conductivity/pH/Hardness	Chloride/Fluoride/Sulphate/NO23	Dissolved Organic Carbon (DOC)	Total Ammonia-N/Total Phosphorus	Total Dissolved Solids/TSS	Acidity (CaCO3) in water	Dissolved Mercury in Water by CVAA	Mercury in Water by CVAA	Dissolved Metals by ICPMS	Total Metals Analysis by ICPMS	# of Bottles	Comments
1		DUP - 1	24/06/06	—	SW	Hg x1 Metals x1	X	X	X	X	X	X	X	X	X	X	11	
2		Long - 03 1m	24/06/06	1600	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3		Long - 03 15m	24/06/06	1630	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4		Riordan - 02 1m	24/06/07	1500	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5		Riordan - 02 14m	24/06/07	1600	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6		Riordan Outlet	24/06/07	1200	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
7		Molar 1m	24/06/08	1400	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
8		Molar 27m	24/06/08	1430	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
9		Mills LP2 1m	24/06/09	1130	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10		Mills LP2 25m	24/06/09	1200	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Michael Hildebrandt	24/06/19	1350	[illegible]						Intact		

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Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#992671-01-02	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL		

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Regulation 153 (2011)	Other Regulations	Special Instructions
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☐ Table ____	☐ PWQO ☐ Reg 406 Table ____	
	☐ Other ____	

Include Criteria on Certificate of Analysis (Y/N)? ____

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Total Extractable Lanthanides-waters	Dissolved Lanthanides- waters							# of Bottles	Comments
1		DUP-1	24/06/06	—	SW	Hg x1 Metals x1	X	X							11	
2		Long-03 1m	24/06/06	1600	SW	Hg x1 Metals x1	↓	↓							↓	
3		Long-03 15m	24/06/06	1630	SW	Hg x1 Metals x1										
4		Riordan-02 1m	24/06/07	1500	SW	Hg x1 Metals x1										
5		Riordan-02 14m	24/06/07	1600	SW	Hg x1 Metals x1										
6		Riordan Outlet	24/06/07	1200	SW	Hg x1 Metals x1										
7		Molar 1m	24/06/08	1400	SW	Hg x1 Metals x1										
8		Molar 27m	24/06/08	1430	SW	Hg x1 Metals x1										
9		Mills LP2 1m	24/06/09	1130	SW	Hg x1 Metals x1										
10		Mills LP2 25m	24/06/09	1200	SW	Hg x1 Metals x1	↓	↓							↓	

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Michael Hildebrandt	24/06/14	1356	[illegible]				Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
									Intact		

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Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500		
	Mississauga ON L5N 7K2			Project Name:		COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:		C#992671-03-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL		

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2		Mills LP 1m	24/06/09	1600	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3		Mills LP 19m	24/06/09	1630	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4		WC-04	24/06/10	1100	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5		Pike-02 1m	24/06/10	1500	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6		Pike-02 8m	24/06/10	1530	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
7		WC-01	24/06/11	1200	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
8		WC-02	24/06/11	1530	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
9		WC-09	24/06/12	1300	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10		WC-10	24/06/12	1600	SW	Hg x1 Metals x1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

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Michael Hildebrandt	24/06/14	1350							Intact		

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			992671
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#992671-02-02	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ____

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558 ☐ Storm Sewer Bylaw
☐ MISA Municipality ____
☐ PWQO ☐ Reg 406 Table ____
☐ Other ____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Total Extractable Lanthanides-waters	Dissolved Lanthanides- waters	# of Bottles	Comments
1		WC-03	24/06/09	1400	SW	Hg×1 Metals×1	X	X	11	
2		Mills LP 1m	24/06/09	1600	SW	Hg×1 Metals×1				
3		Mills LP 19m	24/06/09	1630	SW	Hg×1 Metals×1				
4		WC-04	24/06/10	1100	SW	Hg×1 Metals×1				
5		Pike-02 1m	24/06/10	1500	SW	Hg×1 Metals×1				
6		Pike-02 8m	24/06/10	1530	SW	Hg×1 Metals×1				
7		WC-01	24/06/11	1200	SW	Hg×1 Metals×1				
8		WC-02	24/06/11	1530	SW	Hg×1 Metals×1				
9		WC-09	24/06/12	1300	SW	Hg×1 Metals×1				
10		WC-10	24/06/12	1600	SW	Hg×1 Metals×1	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Michael Hildebrandt	24/06/14	1550	[illegible]						Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			992671
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500		
	Mississauga ON L5N 7K2			Project Name:		COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:		C#992671-04-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
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☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558 ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Alkalinity/Anions/Conductivity/pH/Hardness	Chloride/Fluoride/Sulphate/NO23	Dissolved Organic Carbon (DOC)	Total Ammonia-N/Total Phosphorus	Total Dissolved Solids/TSS	Acidity (CaCO3) in water	Dissolved Mercury in Water by CVAA	Mercury in Water by CVAA	Dissolved Metals by ICPMS	Total Metals Analysis by ICP/MS	# of Bottles	Comments
1		DUP - 2	24/06/12	—	SW	Hg x 1 Metals x 1	X	X	X	X	X	X	X	X	X	X	11	
2		Blank	24/06/12	1615	SW	Hg x 1 Metals x 1	X	X	X	X	X	X	X	X	X	X	11	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Michael Hildebrandt	24/06/14	1355					Time Sensitive	Temperature (°C) on Recel	Custody Seal	Yes	No
									Present		
									Intact		

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Bureau Veritas
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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			992671
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500		
	Mississauga ON L5N 7K2			Project Name:		COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:		C#992671-03-02	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
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☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ____

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Total Extractable Lanthanides-waters	Dissolved Lanthanides- waters							# of Bottles	Comments
1		DUP - 2	24/06/12	—	SW	Hg x1 metals x1	X	X							11	
2		Blank	24/06/12	1615	SW	Hg x1 metals x1	X	X							11	
3																
4																
5																
6																
7																
8																
9																
10																

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Michael Hildebrandt	24/06/14	1356					Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
									Intact		

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0038713.5261/4300.02
Your C.O.C. #: C#1003610-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401256
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4P0017
Received: 2024/08/13, 19:00

Sample Matrix: Water
Samples Received: 37

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity (CaCO3) in water (1)	12	N/A	2024/08/19	ATL SOP-00205	SM 24 2310B m
Acidity (CaCO3) in water (1)	25	N/A	2024/08/21	ATL SOP-00205	SM 24 2310B m
Alkalinity	33	N/A	2024/08/15	CAM SOP-00448	SM 24 2320 B m
Alkalinity	4	N/A	2024/08/16	CAM SOP-00448	SM 24 2320 B m
Anions	24	N/A	2024/08/16	CAM SOP-00435	SM 23 4110 B m
Anions	13	N/A	2024/08/17	CAM SOP-00435	SM 23 4110 B m
Chloride by Automated Colourimetry	19	N/A	2024/08/16	CAM SOP-00463	SM 24 4500-Cl E m
Chloride by Automated Colourimetry	2	N/A	2024/08/19	CAM SOP-00463	SM 24 4500-Cl E m
Chloride by Automated Colourimetry	16	N/A	2024/08/20	CAM SOP-00463	SM 24 4500-Cl E m
Conductivity	33	N/A	2024/08/15	CAM SOP-00414	SM 24 2510 m
Conductivity	4	N/A	2024/08/16	CAM SOP-00414	SM 24 2510 m
Dissolved Organic Carbon (DOC) (4)	17	N/A	2024/08/15	CAM SOP-00446	SM 24 5310 B m
Dissolved Organic Carbon (DOC) (4)	20	N/A	2024/08/16	CAM SOP-00446	SM 24 5310 B m
Fluoride	33	2024/08/15	2024/08/15	CAM SOP-00449	SM 24 4500-F C m
Fluoride	4	2024/08/15	2024/08/16	CAM SOP-00449	SM 24 4500-F C m
Hardness (calculated as CaCO3)	37	N/A	2024/08/23	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Mercury in Water by CVAA	16	2024/08/16	2024/08/16	CAM SOP-00453	EPA 7470A m
Dissolved Mercury in Water by CVAA	13	2024/08/17	2024/08/19	CAM SOP-00453	EPA 7470A m
Dissolved Mercury in Water by CVAA	8	2024/08/19	2024/08/20	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	29	2024/08/17	2024/08/19	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	8	2024/08/19	2024/08/20	CAM SOP-00453	EPA 7470A m
Hardness Total (calculated as CaCO3) (2, 5)	31	N/A	2024/08/20	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2, 5)	6	N/A	2024/08/21	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (2)	37	N/A	2024/08/20	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	37	N/A	2024/08/20	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved) (2, 6)	37	N/A	2024/10/08	BBY7SOP-00002	EPA 6020b R2 m
Elements by CRC ICPMS (dissolved) (2, 6)	18	N/A	2024/08/19	BBY7SOP-00002	EPA 6020b R2 m
Elements by CRC ICPMS (dissolved) (2, 6)	19	N/A	2024/08/20	BBY7SOP-00002	EPA 6020b R2 m
Elements by CRC ICPMS (dissolved) (2, 6)	4	N/A	2024/08/22	BBY7SOP-00002	EPA 6020b R2 m

Your Project #: CA0038713.5261/4300.02
Your C.O.C. #: C#1003610-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401256
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4P0017
Received: 2024/08/13, 19:00

Sample Matrix: Water
Samples Received: 37

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Total Extractable Lanthanides-waters (3, 7)	37	2024/08/21	2024/08/21	STL SOP-00071	MA. 200-Met 1.2 R7 m
Dissolved Lanthanides- waters (3, 7)	23	N/A	2024/08/21	STL SOP-00071	MA 200-Met 1.2 R7 m
Dissolved Lanthanides- waters (3, 7)	14	N/A	2024/08/22	STL SOP-00071	MA 200-Met 1.2 R7 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	31	2024/08/15	2024/08/20	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	6	2024/08/15	2024/08/21	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total) (2)	1	N/A	2024/10/10	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (total) (2)	20	N/A	2024/10/08	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (total) (2)	16	N/A	2024/10/09	BBY7SOP-00002	EPA 6020b R2 m
Elements by CRC ICPMS (total) (2)	31	2024/08/19	2024/08/19	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Elements by CRC ICPMS (total) (2)	6	2024/08/20	2024/08/20	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Total Ammonia-N	25	N/A	2024/08/19	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	12	N/A	2024/08/20	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (8)	37	N/A	2024/08/16	CAM SOP-00440	SM 24 4500-NO3I/NO2B
pH (9)	33	2024/08/15	2024/08/15	CAM SOP-00413	SM 24th - 4500H+ B
pH (9)	4	2024/08/15	2024/08/16	CAM SOP-00413	SM 24th - 4500H+ B
Field Measured pH (10)	36	N/A	2024/08/21		Field pH Meter
Sulphate by Automated Turbidimetry	19	N/A	2024/08/16	CAM SOP-00464	SM 24 4500-SO42- E m
Sulphate by Automated Turbidimetry	2	N/A	2024/08/19	CAM SOP-00464	SM 24 4500-SO42- E m
Sulphate by Automated Turbidimetry	16	N/A	2024/08/20	CAM SOP-00464	SM 24 4500-SO42- E m
Total Dissolved Solids	6	2024/08/15	2024/08/16	CAM SOP-00428	SM 24 2540C m
Total Dissolved Solids	31	2024/08/16	2024/08/17	CAM SOP-00428	SM 24 2540C m
Field Temperature (10)	36	N/A	2024/08/21		Field Thermometer
Total Phosphorus (Colourimetric)	35	2024/08/16	2024/08/17	CAM SOP-00407	SM 24 4500-P I
Total Phosphorus (Colourimetric)	2	2024/08/16	2024/08/19	CAM SOP-00407	SM 24 4500-P I
Total Suspended Solids	37	2024/08/15	2024/08/16	CAM SOP-00428	SM 24 2540D m
Un-ionized Ammonia (11)	36	2024/08/15	2024/08/21	Auto Calc.	PWQO

Remarks:

Your Project #: CA0038713.5261/4300.02
Your C.O.C. #: C#1003610-01-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401256
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4P0017
Received: 2024/08/13, 19:00

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9
(2) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way , Burnaby, BC, V5G 1K5
(3) This test was performed by Bureau Veritas Montreal., 889 Montée de Liesse , Ville St-Laurent, QC, H4T 1P5
(4) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(5) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(6) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(7) Non-accredited test method
(8) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(9) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

(10) This is a field test, therefore, the results relate to items that were not analysed at Bureau Veritas.
(11) Un-ionized ammonia is calculated using the total ammonia result and field data provided by the client for pH and temperature.

Your Project #: CA0038713.5261/4300.02
Your C.O.C. #: C#1003610-01-01

Attention: Michael Hildebrandt

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6925 Century Ave
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CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401256
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4P0017
Received: 2024/08/13, 19:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN827	ZZN828		ZZN829	ZZN831		
Sampling Date		2024/08/02 15:00	2024/08/02		2024/08/03 11:00	2024/08/03 11:30		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-05	DUP-1	QC Batch	MIL-03 NS	MIL-03 NB	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	61.3	61.0	9593062	34.1	33.2	0.50	9582196
Metals								
Dissolved Aluminum (Al)	ug/L	4.0	3.4	9595593	8.1	6.8	3.0	9595593
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	9595593	<0.50	<0.50	0.50	9595593
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	9595593	<0.10	<0.10	0.10	9595593
Dissolved Barium (Ba)	ug/L	18.9	19.1	9595593	9.1	9.0	1.0	9595593
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	9595593	<0.10	<0.10	0.10	9595593
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	9595593	<1.0	<1.0	1.0	9595593
Dissolved Boron (B)	ug/L	<50	<50	9595593	<50	<50	50	9595593
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	9595593	<0.010	<0.010	0.010	9595593
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	9595593	<1.0	<1.0	1.0	9595593
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	9595593	<0.20	<0.20	0.20	9595593
Dissolved Copper (Cu)	ug/L	0.27	0.24	9595593	1.00	1.05	0.20	9595593
Dissolved Iron (Fe)	ug/L	60.5	61.8	9595593	12.3	13.3	5.0	9595593
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	9595593	<0.20	<0.20	0.20	9595593
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	9595593	<2.0	<2.0	2.0	9595593
Dissolved Manganese (Mn)	ug/L	23.9	24.1	9595593	<1.0	<1.0	1.0	9595593
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	9595593	<1.0	<1.0	1.0	9595593
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	9595593	<1.0	<1.0	1.0	9595593
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	9595593	<0.10	<0.10	0.10	9595593
Dissolved Silicon (Si)	ug/L	1970	1940	9595593	1720	1950	100	9595593
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	9595593	<0.020	<0.020	0.020	9595593
Dissolved Strontium (Sr)	ug/L	18.4	18.3	9595593	11.2	10.9	1.0	9595593
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	9595593	<0.010	<0.010	0.010	9595593
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	9595593	<5.0	<5.0	5.0	9595593
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	9595593	<5.0	<5.0	5.0	9595593
Dissolved Uranium (U)	ug/L	0.25	0.25	9595593	<0.10	<0.10	0.10	9595593
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	9595593	<5.0	<5.0	5.0	9595593
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	9595593	<5.0	<5.0	5.0	9595593
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	9595593	<0.10	<0.10	0.10	9595593
Dissolved Calcium (Ca)	mg/L	14.2	14.2	9589277	7.78	7.56	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN827	ZZN828		ZZN829	ZZN831		
Sampling Date		2024/08/02 15:00	2024/08/02		2024/08/03 11:00	2024/08/03 11:30		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	**WC-05**	**DUP-1**	**QC Batch**	**MIL-03 NS**	**MIL-03 NB**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	6.25	6.20	9589277	3.55	3.48	0.050	9589277
Dissolved Potassium (K)	mg/L	1.25	1.24	9589277	0.922	0.859	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.487	0.502	9589277	0.555	0.543	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	9589277	<3.0	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN832	ZZN833	ZZN834	ZZN835		
Sampling Date		2024/08/03 14:00	2024/08/03 17:00	2024/08/04 11:00	2024/08/04 11:30		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-03	WC-04	MIL-02 NS	MIL-02 NB	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO3)	mg/L	25.4	32.5	33.3	32.7	0.50	9582196
Metals							
Dissolved Aluminum (Al)	ug/L	11.5	7.3	8.5	5.6	3.0	9595593
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	9595593
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Barium (Ba)	ug/L	7.9	8.5	9.1	9.0	1.0	9595593
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	50	9595593
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	9595593
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9595593
Dissolved Copper (Cu)	ug/L	0.78	0.43	1.00	1.19	0.20	9595593
Dissolved Iron (Fe)	ug/L	14.0	12.5	12.1	9.9	5.0	9595593
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9595593
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	9595593
Dissolved Manganese (Mn)	ug/L	1.8	1.3	<1.0	1.0	1.0	9595593
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Silicon (Si)	ug/L	1520	1640	1710	1950	100	9595593
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	0.020	9595593
Dissolved Strontium (Sr)	ug/L	11.6	10.8	11.1	10.9	1.0	9595593
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	9595593
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Calcium (Ca)	mg/L	6.02	7.44	7.56	7.37	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN832	ZZN833	ZZN834	ZZN835		
Sampling Date		2024/08/03 14:00	2024/08/03 17:00	2024/08/04 11:00	2024/08/04 11:30		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-03	WC-04	MIL-02 NS	MIL-02 NB	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	2.52	3.37	3.50	3.46	0.050	9589277
Dissolved Potassium (K)	mg/L	1.00	0.857	0.887	0.893	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.658	0.536	0.552	0.554	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN836			ZZN837	ZZN838	ZZN839		
Sampling Date		2024/08/04 17:30			2024/08/05 16:00	2024/08/05 16:30	2024/08/05 11:30		
COC Number		C#1003610-01-01			C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-10	RDL	QC Batch	RL-02 NS	RL-02 NB	WC-11	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	18.2	0.50	9582196	40.3	40.0	42.2	0.50	9582196
Metals									
Dissolved Aluminum (Al)	ug/L	24.3	3.0	9595593	<3.0	<3.0	<3.0	3.0	9595593
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9595593	<0.50	<0.50	<0.50	0.50	9595593
Dissolved Arsenic (As)	ug/L	<0.10	0.10	9595593	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Barium (Ba)	ug/L	8.3	1.0	9595593	12.5	19.2	11.3	1.0	9595593
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	9595593	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	9595593	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Boron (B)	ug/L	<50	50	9595593	<50	<50	<50	50	9595593
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	9595593	<0.010	<0.010	<0.010	0.010	9595593
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	9595593	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Cobalt (Co)	ug/L	<0.20	0.20	9595593	<0.20	<0.20	<0.20	0.20	9595593
Dissolved Copper (Cu)	ug/L				<0.20	0.22	0.21	0.20	9595593
Dissolved Iron (Fe)	ug/L	65.0	5.0	9595593	<5.0	7.9	9.6	5.0	9595593
Dissolved Lead (Pb)	ug/L	<0.20	0.20	9595593	<0.20	<0.20	<0.20	0.20	9595593
Dissolved Lithium (Li)	ug/L	<2.0	2.0	9595593	<2.0	<2.0	<2.0	2.0	9595593
Dissolved Manganese (Mn)	ug/L	11.4	1.0	9595593	1.0	66.9	6.2	1.0	9595593
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.0	9595593	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9595593	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Selenium (Se)	ug/L	<0.10	0.10	9595593	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Silicon (Si)	ug/L	931	100	9595593	1310	1610	1430	100	9595593
Dissolved Silver (Ag)	ug/L	<0.020	0.020	9595593	<0.020	<0.020	<0.020	0.020	9595593
Dissolved Strontium (Sr)	ug/L	13.5	1.0	9595593	9.8	10.1	9.9	1.0	9595593
Dissolved Thallium (Tl)	ug/L	<0.010	0.010	9595593	<0.010	<0.010	<0.010	0.010	9595593
Dissolved Tin (Sn)	ug/L	<5.0	5.0	9595593	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	9595593	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Uranium (U)	ug/L	<0.10	0.10	9595593	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Vanadium (V)	ug/L	<5.0	5.0	9595593	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9595593	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9595593	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Calcium (Ca)	mg/L	4.46	0.050	9589277	8.70	8.64	9.16	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN836			ZZN837	ZZN838	ZZN839		
Sampling Date		2024/08/04 17:30			2024/08/05 16:00	2024/08/05 16:30	2024/08/05 11:30		
COC Number		C#1003610-01-01			C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	**WC-10**	**RDL**	**QC Batch**	**RL-02 NS**	**RL-02 NB**	**WC-11**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	1.71	0.050	9589277	4.51	4.46	4.69	0.050	9589277
Dissolved Potassium (K)	mg/L	0.938	0.050	9589277	0.782	0.787	0.793	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.618	0.050	9589277	0.376	0.391	0.379	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9589277	<3.0	<3.0	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN840	ZZN841	ZZN842	ZZN843	ZZN844		
Sampling Date		2024/08/05 18:30	2024/08/06 11:00	2024/08/06 15:30	2024/08/07 16:00	2024/08/08 12:00		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	**DL-01**	**WC-09**	**WC-12**	**WC-01**	**PL-02 NS**	**RDL**	**QC Batch**
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	19.1	21.2	20.3	51.6	32.3	0.50	9582196
Metals								
Dissolved Aluminum (Al)	ug/L	11.9	22.5	19.6	7.0	5.8	3.0	9595593
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	9595593
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Barium (Ba)	ug/L	8.5	8.5	9.1	12.1	9.4	1.0	9595593
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	9595593
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9595593
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9595593
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9595593
Dissolved Copper (Cu)	ug/L	0.39	0.87	0.50	0.29	0.26	0.20	9595593
Dissolved Iron (Fe)	ug/L	19.0	83.1	125	86.1	14.5	5.0	9595593
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9595593
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	9595593
Dissolved Manganese (Mn)	ug/L	6.7	16.9	14.8	33.2	2.0	1.0	9595593
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	1.2	<1.0	1.0	9595593
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	9595593
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Silicon (Si)	ug/L	1860	1050	1660	3110	1930	100	9595593
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	9595593
Dissolved Strontium (Sr)	ug/L	14.9	14.4	15.9	22.4	16.5	1.0	9595593
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9595593
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	0.19	<0.10	0.10	9595593
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9595593
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9595593
Dissolved Calcium (Ca)	mg/L	5.05	5.26	5.43	12.8	8.01	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN840	ZZN841	ZZN842	ZZN843	ZZN844		
Sampling Date		2024/08/05 18:30	2024/08/06 11:00	2024/08/06 15:30	2024/08/07 16:00	2024/08/08 12:00		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	**DL-01**	**WC-09**	**WC-12**	**WC-01**	**PL-02 NS**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	1.58	1.97	1.64	4.79	2.99	0.050	9589277
Dissolved Potassium (K)	mg/L	1.10	1.05	1.29	1.76	1.36	0.050	9589277
Dissolved Sodium (Na)	mg/L	1.92	0.846	2.51	1.09	0.793	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN845			ZZN846			ZZN847		
Sampling Date		2024/08/08 12:30			2024/08/08 14:30			2024/08/08 15:00		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	PL-02 NB	RDL	QC Batch	WC-02	RDL	QC Batch	MOL-02 NS	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	31.7	0.50	9582196	32.0	0.50	9582196	27.5	0.50	9582196
Metals										
Dissolved Aluminum (Al)	ug/L	5.6	3.0	9595593	7.9	3.0	9593024	11.5	3.0	9593024
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9595593	<0.50	0.50	9593024	<0.50	0.50	9593024
Dissolved Arsenic (As)	ug/L	<0.10	0.10	9595593	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Barium (Ba)	ug/L	14.2	1.0	9595593	9.7	1.0	9593024	8.3	1.0	9593024
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	9595593	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	9595593	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Boron (B)	ug/L	<50	50	9595593	<50	50	9593024	<50	50	9593024
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	9595593	<0.010	0.010	9593024	<0.010	0.010	9593024
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	9595593	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Cobalt (Co)	ug/L	<0.20	0.20	9595593	<0.20	0.20	9593024	<0.20	0.20	9593024
Dissolved Copper (Cu)	ug/L	0.23	0.20	9595593				1.08	0.20	9593024
Dissolved Iron (Fe)	ug/L	69.5	5.0	9595593	20.4	5.0	9593024	13.9	5.0	9593024
Dissolved Lead (Pb)	ug/L	<0.20	0.20	9595593	<0.20	0.20	9593024	<0.20	0.20	9593024
Dissolved Lithium (Li)	ug/L	<2.0	2.0	9595593	<2.0	2.0	9593024	<2.0	2.0	9593024
Dissolved Manganese (Mn)	ug/L	854	1.0	9595593	3.8	1.0	9593024	<1.0	1.0	9593024
Dissolved Molybdenum (Mo)	ug/L	1.1	1.0	9595593	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9595593	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Selenium (Se)	ug/L	<0.10	0.10	9595593	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Silicon (Si)	ug/L	2720	100	9595593	1820	100	9593024	1620	100	9593024
Dissolved Silver (Ag)	ug/L	<0.020	0.020	9595593	<0.020	0.020	9593024	<0.020	0.020	9593024
Dissolved Strontium (Sr)	ug/L	16.4	1.0	9595593	16.2	1.0	9593024	12.0	1.0	9593024
Dissolved Thallium (Tl)	ug/L	<0.010	0.010	9595593	<0.010	0.010	9593024	<0.010	0.010	9593024
Dissolved Tin (Sn)	ug/L	<5.0	5.0	9595593	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	9595593	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Uranium (U)	ug/L	<0.10	0.10	9595593	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Vanadium (V)	ug/L	<5.0	5.0	9595593	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9595593	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9595593	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Calcium (Ca)	mg/L	8.04	0.050	9589277	8.01	0.050	9589277	6.49	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN845			ZZN846			ZZN847		
Sampling Date		2024/08/08 12:30			2024/08/08 14:30			2024/08/08 15:00		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	**PL-02 NB**	**RDL**	**QC Batch**	**WC-02**	**RDL**	**QC Batch**	**MOL-02 NS**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	2.82	0.050	9589277	2.91	0.050	9589277	2.73	0.050	9589277
Dissolved Potassium (K)	mg/L	1.32	0.050	9589277	1.31	0.050	9589277	1.02	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.700	0.050	9589277	0.814	0.050	9589277	0.703	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9589277	<3.0	3.0	9589277	<3.0	3.0	9589277

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QC Batch = Quality Control Batch

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN848	ZZN849			ZZN850		
Sampling Date		2024/08/07 15:30	2024/08/08 12:10			2024/08/08 15:30		
COC Number		C#1003610-01-01	C#1003610-01-01			C#1003610-01-01		
	UNITS	MOL-02 NB	WC-14	RDL	QC Batch	WC-13	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	27.1	13.0	0.50	9582196	66.9	0.50	9582196
Metals								
Dissolved Aluminum (Al)	ug/L	12.3	28.6	3.0	9593024			
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	9593024	<0.50	0.50	9593024
Dissolved Arsenic (As)	ug/L	<0.10	0.17	0.10	9593024	<0.10	0.10	9593024
Dissolved Barium (Ba)	ug/L	7.8	10.9	1.0	9593024			
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Boron (B)	ug/L	<50	<50	50	9593024	<50	50	9593024
Dissolved Cadmium (Cd)	ug/L	<0.010	0.017	0.010	9593024	<0.010	0.010	9593024
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	0.20	9593024	<0.20	0.20	9593024
Dissolved Copper (Cu)	ug/L	1.39	0.82	0.20	9593024	0.76	0.20	9593024
Dissolved Iron (Fe)	ug/L	18.1	1020	5.0	9593024			
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	0.20	9593024	<0.20	0.20	9593024
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	2.0	9593024	<2.0	2.0	9593024
Dissolved Manganese (Mn)	ug/L	<1.0	127	1.0	9593024			
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Silicon (Si)	ug/L	1930	2830	100	9593024	2120	100	9593024
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	0.020	9593024	<0.020	0.020	9593024
Dissolved Strontium (Sr)	ug/L	11.7	9.6	1.0	9593024	18.0	1.0	9593024
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	0.010	9593024	<0.010	0.010	9593024
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	9593024	0.31	0.10	9593024
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Calcium (Ca)	mg/L	6.47	3.18	0.050	9589277	15.0	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN848	ZZN849			ZZN850		
Sampling Date		2024/08/07 15:30	2024/08/08 12:10			2024/08/08 15:30		
COC Number		C#1003610-01-01	C#1003610-01-01			C#1003610-01-01		
	UNITS	MOL-02 NB	WC-14	RDL	QC Batch	WC-13	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	2.66	1.22	0.050	9589277	7.17	0.050	9589277
Dissolved Potassium (K)	mg/L	1.02	0.519	0.050	9589277	1.19	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.667	0.479	0.050	9589277	0.598	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	3.0	9589277	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN851	ZZN852	ZZN853	ZZN854	ZZN855		
Sampling Date		2024/08/09 11:00	2024/08/09 12:25	2024/08/09 16:40	2024/08/09 14:45	2024/08/09 16:10		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-06	WC-07	WC-08	LL-02 NS	LL-02 NB	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	96.2	64.0	51.2	35.9	35.9	0.50	9582196
Metals								
Dissolved Aluminum (Al)	ug/L	<3.0	<3.0	3.2	6.5	6.1	3.0	9593024
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	9593024
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Barium (Ba)	ug/L	21.3	15.4	12.9	9.8	13.5	1.0	9593024
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9593024
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	9593024
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9593024
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9593024
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9593024
Dissolved Copper (Cu)	ug/L	0.25	0.36	0.94	0.28	1.21	0.20	9593024
Dissolved Iron (Fe)	ug/L	61.3	187	24.0	7.6	20.3	5.0	9593024
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9593024
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	9593024
Dissolved Manganese (Mn)	ug/L	17.2	1.4	3.7	1.5	5.8	1.0	9593024
Dissolved Molybdenum (Mo)	ug/L	1.2	<1.0	<1.0	<1.0	<1.0	1.0	9593024
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9593024
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Silicon (Si)	ug/L	2390	1460	1680	1450	2050	100	9593024
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	9593024
Dissolved Strontium (Sr)	ug/L	18.2	13.2	14.4	12.2	11.9	1.0	9593024
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9593024
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9593024
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9593024
Dissolved Uranium (U)	ug/L	0.48	0.20	0.20	0.11	<0.10	0.10	9593024
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9593024
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9593024
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Calcium (Ca)	mg/L	21.4	14.2	11.4	8.38	8.24	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN851	ZZN852	ZZN853	ZZN854	ZZN855		
Sampling Date		2024/08/09 11:00	2024/08/09 12:25	2024/08/09 16:40	2024/08/09 14:45	2024/08/09 16:10		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	**WC-06**	**WC-07**	**WC-08**	**LL-02 NS**	**LL-02 NB**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	10.4	6.97	5.51	3.63	3.72	0.050	9589277
Dissolved Potassium (K)	mg/L	1.03	0.419	1.03	0.912	0.887	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.688	0.522	0.469	0.502	0.492	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN856			ZZN857			ZZN858		
Sampling Date		2024/08/09 17:30			2024/08/09 18:20			2024/08/09		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	LL-03 NS	RDL	QC Batch	LL-03 NB	RDL	QC Batch	DUP-2	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	35.8	0.50	9582196	34.5	0.50	9582196	36.4	0.50	9582196
Metals										
Dissolved Aluminum (Al)	ug/L	6.6	3.0	9593024	6.0	3.0	9593024	6.8	3.0	9593024
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9593024	<0.50	0.50	9593024	<0.50	0.50	9593024
Dissolved Arsenic (As)	ug/L	<0.10	0.10	9593024	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Barium (Ba)	ug/L	10.2	1.0	9593024	11.8	1.0	9593024	10.0	1.0	9593024
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	9593024	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	9593024	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Boron (B)	ug/L	<50	50	9593024	<50	50	9593024	<50	50	9593024
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	9593024	<0.010	0.010	9593024	<0.010	0.010	9593024
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	9593024	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Cobalt (Co)	ug/L	<0.20	0.20	9593024	<0.20	0.20	9593024	<0.20	0.20	9593024
Dissolved Copper (Cu)	ug/L	1.06	0.20	9593024	1.00	0.20	9593024	0.31	0.20	9593024
Dissolved Iron (Fe)	ug/L	14.1	5.0	9593024				8.4	5.0	9593024
Dissolved Lead (Pb)	ug/L	<0.20	0.20	9593024	<0.20	0.20	9593024	<0.20	0.20	9593024
Dissolved Lithium (Li)	ug/L	<2.0	2.0	9593024	<2.0	2.0	9593024	<2.0	2.0	9593024
Dissolved Manganese (Mn)	ug/L	<1.0	1.0	9593024	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.0	9593024	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9593024	<1.0	1.0	9593024	<1.0	1.0	9593024
Dissolved Selenium (Se)	ug/L	<0.10	0.10	9593024	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Silicon (Si)	ug/L	1480	100	9593024	1860	100	9593024	1470	100	9593024
Dissolved Silver (Ag)	ug/L	<0.020	0.020	9593024	<0.020	0.020	9593024	<0.020	0.020	9593024
Dissolved Strontium (Sr)	ug/L	12.0	1.0	9593024	11.6	1.0	9593024	12.3	1.0	9593024
Dissolved Thallium (Tl)	ug/L	<0.010	0.010	9593024	<0.010	0.010	9593024	<0.010	0.010	9593024
Dissolved Tin (Sn)	ug/L	<5.0	5.0	9593024	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	9593024	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Uranium (U)	ug/L	0.11	0.10	9593024	<0.10	0.10	9593024	0.11	0.10	9593024
Dissolved Vanadium (V)	ug/L	<5.0	5.0	9593024	<5.0	5.0	9593024	<5.0	5.0	9593024
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9593024	<5.0	5.0	9593024	7.6	5.0	9593024
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9593024	<0.10	0.10	9593024	<0.10	0.10	9593024
Dissolved Calcium (Ca)	mg/L	8.34	0.050	9589277	8.05	0.050	9589277	8.39	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN856			ZZN857			ZZN858		
Sampling Date		2024/08/09 17:30			2024/08/09 18:20			2024/08/09		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	**LL-03 NS**	**RDL**	**QC Batch**	**LL-03 NB**	**RDL**	**QC Batch**	**DUP-2**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	3.63	0.050	9589277	3.50	0.050	9589277	3.75	0.050	9589277
Dissolved Potassium (K)	mg/L	0.886	0.050	9589277	0.871	0.050	9589277	0.899	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.505	0.050	9589277	0.477	0.050	9589277	0.518	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9589277	<3.0	3.0	9589277	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN859	ZZN860	ZZN861	ZZN862	ZZN863		
Sampling Date		2024/08/09	2024/08/10 10:15	2024/08/10 10:40	2024/08/10	2024/08/11 10:20		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	DUP-3	DL-02 NS	DL-02 NB	BLANK	WC-16	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	34.9	19.2	19.6	<0.50	44.3	0.50	9582196
Metals								
Dissolved Aluminum (Al)	ug/L	6.5	11.8	13.7	<3.0	<3.0	3.0	9593024
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	9593024
Dissolved Arsenic (As)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Barium (Ba)	ug/L	11.6	8.2	10.3	<1.0	11.9	1.0	9593024
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9593024
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	9593024
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9593024
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9593024
Dissolved Cobalt (Co)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9593024
Dissolved Copper (Cu)	ug/L	0.31	1.10	1.17	0.89	<0.20	0.20	9593024
Dissolved Iron (Fe)	ug/L	13.3	12.8	19.3	<5.0	14.2	5.0	9593024
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9593024
Dissolved Lithium (Li)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	9593024
Dissolved Manganese (Mn)	ug/L	<1.0	<1.0	120	<1.0	9.2	1.0	9593024
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9593024
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	9593024
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Silicon (Si)	ug/L	1830	1840	2590	<100	1470	100	9593024
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	9593024
Dissolved Strontium (Sr)	ug/L	11.7	14.0	14.1	<1.0	10.1	1.0	9593024
Dissolved Thallium (Tl)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9593024
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9593024
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9593024
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9593024
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	9593024
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	9593024
Dissolved Calcium (Ca)	mg/L	8.04	5.10	5.23	<0.050	9.71	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN859	ZZN860	ZZN861	ZZN862	ZZN863		
Sampling Date		2024/08/09	2024/08/10 10:15	2024/08/10 10:40	2024/08/10	2024/08/11 10:20		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	DUP-3	DL-02 NS	DL-02 NB	BLANK	WC-16	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	3.59	1.57	1.58	<0.050	4.86	0.050	9589277
Dissolved Potassium (K)	mg/L	0.873	1.07	1.06	<0.050	0.808	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.501	1.75	1.69	0.346	0.394	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN864		
Sampling Date		2024/08/11 15:25		
COC Number		C#1003610-01-01		
	UNITS	WC-15	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO3)	mg/L	37.3	0.50	9582196
Metals				
Dissolved Aluminum (Al)	ug/L	3.8	3.0	9593024
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9593024
Dissolved Arsenic (As)	ug/L	<0.10	0.10	9593024
Dissolved Barium (Ba)	ug/L	10.8	1.0	9593024
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	9593024
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	9593024
Dissolved Boron (B)	ug/L	<50	50	9593024
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	9593024
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	9593024
Dissolved Cobalt (Co)	ug/L	<0.20	0.20	9593024
Dissolved Copper (Cu)	ug/L	1.62	0.20	9593024
Dissolved Iron (Fe)	ug/L	33.1	5.0	9593024
Dissolved Lead (Pb)	ug/L	<0.20	0.20	9593024
Dissolved Lithium (Li)	ug/L	<2.0	2.0	9593024
Dissolved Manganese (Mn)	ug/L	11.3	1.0	9593024
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.0	9593024
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9593024
Dissolved Selenium (Se)	ug/L	<0.10	0.10	9593024
Dissolved Silicon (Si)	ug/L	1810	100	9593024
Dissolved Silver (Ag)	ug/L	<0.020	0.020	9593024
Dissolved Strontium (Sr)	ug/L	14.4	1.0	9593024
Dissolved Thallium (Tl)	ug/L	<0.010	0.010	9593024
Dissolved Tin (Sn)	ug/L	<5.0	5.0	9593024
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	9593024
Dissolved Uranium (U)	ug/L	<0.10	0.10	9593024
Dissolved Vanadium (V)	ug/L	<5.0	5.0	9593024
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9593024
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9593024
Dissolved Calcium (Ca)	mg/L	8.81	0.050	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

Bureau Veritas ID		ZZN864		
Sampling Date		2024/08/11 15:25		
COC Number		C#1003610-01-01		
	UNITS	**WC-15**	**RDL**	**QC Batch**
Dissolved Magnesium (Mg)	mg/L	3.71	0.050	9589277
Dissolved Potassium (K)	mg/L	1.03	0.050	9589277
Dissolved Sodium (Na)	mg/L	0.870	0.050	9589277
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9589277

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN827	ZZN828		ZZN829	ZZN831		
Sampling Date		2024/08/02 15:00	2024/08/02		2024/08/03 11:00	2024/08/03 11:30		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-05	DUP-1	QC Batch	MIL-03 NS	MIL-03 NB	RDL	QC Batch
Metals								
Total Aluminum (Al)	ug/L	8.4	8.6	9591668	9.0	7.8	3.0	9595594
Total Antimony (Sb)	ug/L	<0.50	<0.50	9591668	<0.50	<0.50	0.50	9595594
Total Arsenic (As)	ug/L	<0.10	<0.10	9591668	<0.10	<0.10	0.10	9595594
Total Barium (Ba)	ug/L	18.2	17.6	9591668	8.5	8.1	1.0	9595594
Total Beryllium (Be)	ug/L	<0.10	<0.10	9591668	<0.10	<0.10	0.10	9595594
Total Bismuth (Bi)	ug/L	<1.0	<1.0	9591668	<1.0	<1.0	1.0	9595594
Total Boron (B)	ug/L	<50	<50	9591668	<50	<50	50	9595594
Total Cadmium (Cd)	ug/L	<0.010	<0.010	9591668	<0.010	<0.010	0.010	9595594
Total Chromium (Cr)	ug/L	<1.0	<1.0	9591668	<1.0	<1.0	1.0	9595594
Total Cobalt (Co)	ug/L	<0.20	<0.20	9591668	<0.20	<0.20	0.20	9595594
Total Copper (Cu)	ug/L	<0.50	<0.50	9591668	<0.50	<0.50	0.50	9595594
Total Iron (Fe)	ug/L	117	111	9591668	<10	10	10	9595594
Total Lead (Pb)	ug/L	<0.20	<0.20	9591668	2.30	<0.20	0.20	9595594
Total Lithium (Li)	ug/L	<2.0	<2.0	9591668	<2.0	<2.0	2.0	9595594
Total Manganese (Mn)	ug/L	28.5	27.5	9591668	2.3	3.3	1.0	9595594
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	9591668	<1.0	<1.0	1.0	9595594
Total Nickel (Ni)	ug/L	<1.0	<1.0	9591668	<1.0	<1.0	1.0	9595594
Total Selenium (Se)	ug/L	<0.10	<0.10	9591668	<0.10	<0.10	0.10	9595594
Total Silicon (Si)	ug/L	1860	1830	9591668	1620	1780	100	9595594
Total Silver (Ag)	ug/L	<0.020	<0.020	9591668	<0.020	<0.020	0.020	9595594
Total Strontium (Sr)	ug/L	17.3	16.9	9591668	10.2	10.4	1.0	9595594
Total Thallium (Tl)	ug/L	<0.010	<0.010	9591668	<0.010	<0.010	0.010	9595594
Total Tin (Sn)	ug/L	<5.0	<5.0	9591668	<5.0	<5.0	5.0	9595594
Total Titanium (Ti)	ug/L	<5.0	<5.0	9591668	<5.0	<5.0	5.0	9595594
Total Uranium (U)	ug/L	0.22	0.21	9591668	<0.10	<0.10	0.10	9595594
Total Vanadium (V)	ug/L	<5.0	<5.0	9591668	<5.0	<5.0	5.0	9595594
Total Zinc (Zn)	ug/L	<5.0	<5.0	9591668	<5.0	<5.0	5.0	9595594
Total Zirconium (Zr)	ug/L	<0.10	<0.10	9591668	<0.10	<0.10	0.10	9595594
Total Calcium (Ca)	mg/L	13.2	13.1	9593023	7.09	6.95	0.050	9593023
Total Calcium (Ca)	ug/L	13200	13100	9591668	7090	6950	50	9595594
Total Magnesium (Mg)	mg/L	5.82	5.60	9593023	3.24	3.19	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN827	ZZN828		ZZN829	ZZN831		
Sampling Date		2024/08/02 15:00	2024/08/02		2024/08/03 11:00	2024/08/03 11:30		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	**WC-05**	**DUP-1**	**QC Batch**	**MIL-03 NS**	**MIL-03 NB**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	1.18	1.16	9593023	0.841	0.806	0.050	9593023
Total Potassium (K)	ug/L	1180	1160	9591668	841	806	50	9595594
Total Sodium (Na)	mg/L	0.473	0.456	9593023	0.509	0.519	0.050	9593023
Total Sodium (Na)	ug/L	473	456	9591668	509	519	50	9595594
Total Sulphur (S)	mg/L	<3.0	<3.0	9593023	<3.0	<3.0	3.0	9593023
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	57.0	55.7	9593022	31.1	30.5	0.50	9593022

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN832		ZZN833		ZZN834	ZZN835		
Sampling Date		2024/08/03 14:00		2024/08/03 17:00		2024/08/04 11:00	2024/08/04 11:30		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-03	QC Batch	WC-04	QC Batch	MIL-02 NS	MIL-02 NB	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	30.0	9591668	9.0	9595594	7.6	7.6	3.0	9591668
Total Antimony (Sb)	ug/L	<0.50	9591668	<0.50	9595594	<0.50	<0.50	0.50	9591668
Total Arsenic (As)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Barium (Ba)	ug/L	8.2	9591668	8.2	9595594	8.1	8.6	1.0	9591668
Total Beryllium (Be)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Bismuth (Bi)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Boron (B)	ug/L	<50	9591668	<50	9595594	<50	<50	50	9591668
Total Cadmium (Cd)	ug/L	<0.010	9591668	<0.010	9595594	<0.010	<0.010	0.010	9591668
Total Chromium (Cr)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Cobalt (Co)	ug/L	<0.20	9591668	<0.20	9595594	<0.20	<0.20	0.20	9591668
Total Copper (Cu)	ug/L	<0.50	9591668	<0.50	9595594	<0.50	<0.50	0.50	9591668
Total Iron (Fe)	ug/L	43	9591668	16	9595594	<10	<10	10	9591668
Total Lead (Pb)	ug/L	<0.20	9591668	<0.20	9595594	<0.20	<0.20	0.20	9591668
Total Lithium (Li)	ug/L	<2.0	9591668	<2.0	9595594	<2.0	<2.0	2.0	9591668
Total Manganese (Mn)	ug/L	12.7	9591668	3.6	9595594	2.6	3.5	1.0	9591668
Total Molybdenum (Mo)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Nickel (Ni)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Selenium (Se)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Silicon (Si)	ug/L	1480	9591668	1570	9595594	1590	1920	100	9591668
Total Silver (Ag)	ug/L	<0.020	9591668	<0.020	9595594	<0.020	<0.020	0.020	9591668
Total Strontium (Sr)	ug/L	11.5	9591668	10.1	9595594	10.3	10.9	1.0	9591668
Total Thallium (Tl)	ug/L	<0.010	9591668	<0.010	9595594	<0.010	<0.010	0.010	9591668
Total Tin (Sn)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Titanium (Ti)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Uranium (U)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Vanadium (V)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Zinc (Zn)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Zirconium (Zr)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Calcium (Ca)	mg/L	5.66	9593023	6.87	9593023	7.02	7.35	0.050	9593023
Total Calcium (Ca)	ug/L	5660	9591668	6870	9595594	7020	7350	50	9591668
Total Magnesium (Mg)	mg/L	2.52	9593023	3.27	9593023	3.23	3.37	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN832		ZZN833		ZZN834	ZZN835		
Sampling Date		2024/08/03 14:00		2024/08/03 17:00		2024/08/04 11:00	2024/08/04 11:30		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	**WC-03**	**QC Batch**	**WC-04**	**QC Batch**	**MIL-02 NS**	**MIL-02 NB**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	0.995	9593023	0.828	9593023	0.822	0.876	0.050	9593023
Total Potassium (K)	ug/L	995	9591668	827	9595594	822	876	50	9591668
Total Sodium (Na)	mg/L	0.658	9593023	0.519	9593023	0.508	0.537	0.050	9593023
Total Sodium (Na)	ug/L	658	9591668	519	9595594	508	537	50	9591668
Total Sulphur (S)	mg/L	<3.0	9593023	<3.0	9593023	<3.0	<3.0	3.0	9593023
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	24.5	9593022	30.6	9593022	30.8	32.2	0.50	9593022

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN836		ZZN837		ZZN838	ZZN839		
Sampling Date		2024/08/04 17:30		2024/08/05 16:00		2024/08/05 16:30	2024/08/05 11:30		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-10	QC Batch	RL-02 NS	QC Batch	RL-02 NB	WC-11	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	33.3	9591668	<3.0	9595594	<3.0	5.8	3.0	9591668
Total Antimony (Sb)	ug/L	<0.50	9591668	<0.50	9595594	<0.50	<0.50	0.50	9591668
Total Arsenic (As)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Barium (Ba)	ug/L	7.7	9591668	12.2	9595594	18.8	11.3	1.0	9591668
Total Beryllium (Be)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Bismuth (Bi)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Boron (B)	ug/L	<50	9591668	<50	9595594	<50	<50	50	9591668
Total Cadmium (Cd)	ug/L	<0.010	9591668	<0.010	9595594	<0.010	<0.010	0.010	9591668
Total Chromium (Cr)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Cobalt (Co)	ug/L	<0.20	9591668	<0.20	9595594	<0.20	<0.20	0.20	9591668
Total Copper (Cu)	ug/L	<0.50	9591668	<0.50	9595594	<0.50	<0.50	0.50	9591668
Total Iron (Fe)	ug/L	99	9591668	<10	9595594	21	32	10	9591668
Total Lead (Pb)	ug/L	<0.20	9591668	<0.20	9595594	<0.20	<0.20	0.20	9591668
Total Lithium (Li)	ug/L	<2.0	9591668	<2.0	9595594	<2.0	<2.0	2.0	9591668
Total Manganese (Mn)	ug/L	22.3	9591668	9.6	9595594	91.9	16.9	1.0	9591668
Total Molybdenum (Mo)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Nickel (Ni)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Selenium (Se)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Silicon (Si)	ug/L	839	9591668	1260	9595594	1510	1370	100	9591668
Total Silver (Ag)	ug/L	<0.020	9591668	<0.020	9595594	<0.020	<0.020	0.020	9591668
Total Strontium (Sr)	ug/L	12.4	9591668	9.5	9595594	9.5	9.6	1.0	9591668
Total Thallium (Tl)	ug/L	<0.010	9591668	<0.010	9595594	<0.010	<0.010	0.010	9591668
Total Tin (Sn)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Titanium (Ti)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Uranium (U)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Vanadium (V)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Zinc (Zn)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Zirconium (Zr)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Calcium (Ca)	mg/L	4.11	9593023	8.19	9593023	8.11	8.61	0.050	9593023
Total Calcium (Ca)	ug/L	4110	9591668	8190	9595594	8110	8610	50	9591668
Total Magnesium (Mg)	mg/L	1.55	9593023	4.29	9593023	4.18	4.45	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN836		ZZN837		ZZN838	ZZN839		
Sampling Date		2024/08/04 17:30		2024/08/05 16:00		2024/08/05 16:30	2024/08/05 11:30		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	**WC-10**	**QC Batch**	**RL-02 NS**	**QC Batch**	**RL-02 NB**	**WC-11**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	0.878	9593023	0.764	9593023	0.702	0.754	0.050	9593023
Total Potassium (K)	ug/L	878	9591668	764	9595594	702	754	50	9591668
Total Sodium (Na)	mg/L	0.570	9593023	0.356	9593023	0.368	0.391	0.050	9593023
Total Sodium (Na)	ug/L	570	9591668	356	9595594	368	391	50	9591668
Total Sulphur (S)	mg/L	<3.0	9593023	<3.0	9593023	<3.0	<3.0	3.0	9593023
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	16.7	9593022	38.1	9593022	37.5	39.8	0.50	9593022

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN840		ZZN841		ZZN842	ZZN843		
Sampling Date		2024/08/05 18:30		2024/08/06 11:00		2024/08/06 15:30	2024/08/07 16:00		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	DL-01	QC Batch	WC-09	QC Batch	WC-12	WC-01	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	21.6	9591668	33.5	9595594	36.4	11.6	3.0	9591668
Total Antimony (Sb)	ug/L	<0.50	9591668	<0.50	9595594	<0.50	<0.50	0.50	9591668
Total Arsenic (As)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Barium (Ba)	ug/L	7.9	9591668	8.1	9595594	9.8	11.9	1.0	9591668
Total Beryllium (Be)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Bismuth (Bi)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Boron (B)	ug/L	<50	9591668	<50	9595594	<50	<50	50	9591668
Total Cadmium (Cd)	ug/L	<0.010	9591668	<0.010	9595594	<0.010	<0.010	0.010	9591668
Total Chromium (Cr)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Cobalt (Co)	ug/L	<0.20	9591668	<0.20	9595594	<0.20	<0.20	0.20	9591668
Total Copper (Cu)	ug/L	<0.50	9591668	<0.50	9595594	0.54	<0.50	0.50	9591668
Total Iron (Fe)	ug/L	43	9591668	104	9595594	210	138	10	9591668
Total Lead (Pb)	ug/L	<0.20	9591668	<0.20	9595594	<0.20	<0.20	0.20	9591668
Total Lithium (Li)	ug/L	<2.0	9591668	<2.0	9595594	<2.0	<2.0	2.0	9591668
Total Manganese (Mn)	ug/L	19.4	9591668	25.8	9595594	35.7	47.0	1.0	9591668
Total Molybdenum (Mo)	ug/L	<1.0	9591668	1.4	9595594	<1.0	1.1	1.0	9591668
Total Nickel (Ni)	ug/L	<1.0	9591668	<1.0	9595594	<1.0	<1.0	1.0	9591668
Total Selenium (Se)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Silicon (Si)	ug/L	1710	9591668	967	9595594	1640	3010	100	9591668
Total Silver (Ag)	ug/L	<0.020	9591668	<0.020	9595594	<0.020	<0.020	0.020	9591668
Total Strontium (Sr)	ug/L	13.3	9591668	13.6	9595594	16.3	21.2	1.0	9591668
Total Thallium (Tl)	ug/L	<0.010	9591668	<0.010	9595594	<0.010	<0.010	0.010	9591668
Total Tin (Sn)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Titanium (Ti)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Uranium (U)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	0.17	0.10	9591668
Total Vanadium (V)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Zinc (Zn)	ug/L	<5.0	9591668	<5.0	9595594	<5.0	<5.0	5.0	9591668
Total Zirconium (Zr)	ug/L	<0.10	9591668	<0.10	9595594	<0.10	<0.10	0.10	9591668
Total Calcium (Ca)	mg/L	4.53	9593023	4.80	9593023	5.20	12.0	0.050	9593023
Total Calcium (Ca)	ug/L	4530	9591668	4800	9595594	5200	12000	50	9591668
Total Magnesium (Mg)	mg/L	1.42	9593023	1.82	9593023	1.65	4.54	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN840		ZZN841		ZZN842	ZZN843		
Sampling Date		2024/08/05 18:30		2024/08/06 11:00		2024/08/06 15:30	2024/08/07 16:00		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	**DL-01**	**QC Batch**	**WC-09**	**QC Batch**	**WC-12**	**WC-01**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	1.01	9593023	1.02	9593023	1.29	1.71	0.050	9593023
Total Potassium (K)	ug/L	1010	9591668	1020	9595594	1290	1710	50	9591668
Total Sodium (Na)	mg/L	1.72	9593023	0.802	9593023	2.50	1.03	0.050	9593023
Total Sodium (Na)	ug/L	1720	9591668	802	9595594	2500	1030	50	9591668
Total Sulphur (S)	mg/L	<3.0	9593023	<3.0	9593023	<3.0	<3.0	3.0	9593023
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	17.2	9593022	19.5	9593022	19.8	48.7	0.50	9593022

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN844	ZZN845		ZZN846		ZZN847		
Sampling Date		2024/08/08 12:00	2024/08/08 12:30		2024/08/08 14:30		2024/08/08 15:00		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	PL-02 NS	PL-02 NB	QC Batch	WC-02	QC Batch	MOL-02 NS	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	10.1	9.0	9591668	10.6	9595594	11.7	3.0	9591668
Total Antimony (Sb)	ug/L	<0.50	<0.50	9591668	<0.50	9595594	<0.50	0.50	9591668
Total Arsenic (As)	ug/L	<0.10	<0.10	9591668	<0.10	9595594	<0.10	0.10	9591668
Total Barium (Ba)	ug/L	9.4	16.8	9591668	9.3	9595594	7.8	1.0	9591668
Total Beryllium (Be)	ug/L	<0.10	<0.10	9591668	<0.10	9595594	<0.10	0.10	9591668
Total Bismuth (Bi)	ug/L	<1.0	<1.0	9591668	<1.0	9595594	<1.0	1.0	9591668
Total Boron (B)	ug/L	<50	<50	9591668	<50	9595594	<50	50	9591668
Total Cadmium (Cd)	ug/L	<0.010	<0.010	9591668	<0.010	9595594	<0.010	0.010	9591668
Total Chromium (Cr)	ug/L	<1.0	<1.0	9591668	<1.0	9595594	<1.0	1.0	9591668
Total Cobalt (Co)	ug/L	<0.20	<0.20	9591668	<0.20	9595594	<0.20	0.20	9591668
Total Copper (Cu)	ug/L	<0.50	<0.50	9591668	<0.50	9595594	<0.50	0.50	9591668
Total Iron (Fe)	ug/L	46	163	9591668	36	9595594	11	10	9591668
Total Lead (Pb)	ug/L	<0.20	<0.20	9591668	<0.20	9595594	<0.20	0.20	9591668
Total Lithium (Li)	ug/L	<2.0	<2.0	9591668	<2.0	9595594	<2.0	2.0	9591668
Total Manganese (Mn)	ug/L	39.1	1050	9591668	21.5	9595594	2.4	1.0	9591668
Total Molybdenum (Mo)	ug/L	<1.0	1.0	9591668	<1.0	9595594	<1.0	1.0	9591668
Total Nickel (Ni)	ug/L	<1.0	<1.0	9591668	<1.0	9595594	<1.0	1.0	9591668
Total Selenium (Se)	ug/L	<0.10	<0.10	9591668	<0.10	9595594	<0.10	0.10	9591668
Total Silicon (Si)	ug/L	1860	2670	9591668	1720	9595594	1570	100	9591668
Total Silver (Ag)	ug/L	<0.020	<0.020	9591668	<0.020	9595594	<0.020	0.020	9591668
Total Strontium (Sr)	ug/L	16.0	15.9	9591668	16.0	9595594	11.8	1.0	9591668
Total Thallium (Tl)	ug/L	<0.010	<0.010	9591668	<0.010	9595594	<0.010	0.010	9591668
Total Tin (Sn)	ug/L	<5.0	<5.0	9591668	<5.0	9595594	<5.0	5.0	9591668
Total Titanium (Ti)	ug/L	<5.0	<5.0	9591668	<5.0	9595594	<5.0	5.0	9591668
Total Uranium (U)	ug/L	<0.10	<0.10	9591668	<0.10	9595594	<0.10	0.10	9591668
Total Vanadium (V)	ug/L	<5.0	<5.0	9591668	<5.0	9595594	<5.0	5.0	9591668
Total Zinc (Zn)	ug/L	<5.0	<5.0	9591668	<5.0	9595594	<5.0	5.0	9591668
Total Zirconium (Zr)	ug/L	<0.10	<0.10	9591668	<0.10	9595594	<0.10	0.10	9591668
Total Calcium (Ca)	mg/L	7.54	7.69	9593023	7.25	9593023	6.13	0.050	9593023
Total Calcium (Ca)	ug/L	7540	7690	9591668	7250	9595594	6130	50	9591668
Total Magnesium (Mg)	mg/L	2.86	2.79	9593023	2.75	9593023	2.60	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN844	ZZN845		ZZN846		ZZN847		
Sampling Date		2024/08/08 12:00	2024/08/08 12:30		2024/08/08 14:30		2024/08/08 15:00		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	**PL-02 NS**	**PL-02 NB**	**QC Batch**	**WC-02**	**QC Batch**	**MOL-02 NS**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	1.29	1.30	9593023	1.27	9593023	0.976	0.050	9593023
Total Potassium (K)	ug/L	1290	1300	9591668	1270	9595594	976	50	9591668
Total Sodium (Na)	mg/L	0.743	0.687	9593023	0.736	9593023	0.662	0.050	9593023
Total Sodium (Na)	ug/L	743	687	9591668	736	9595594	662	50	9591668
Total Sulphur (S)	mg/L	<3.0	<3.0	9593023	<3.0	9593023	<3.0	3.0	9593023
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	30.6	30.7	9593022	29.4	9593022	26.0	0.50	9593022

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN848	ZZN849		ZZN850	ZZN851		
Sampling Date		2024/08/07 15:30	2024/08/08 12:10		2024/08/08 15:30	2024/08/09 11:00		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	MOL-02 NB	WC-14	QC Batch	WC-13	WC-06	RDL	QC Batch
Metals								
Total Aluminum (Al)	ug/L	14.3	54.6	9591668	4.4	<3.0	3.0	9595594
Total Antimony (Sb)	ug/L	<0.50	<0.50	9591668	<0.50	<0.50	0.50	9595594
Total Arsenic (As)	ug/L	<0.10	0.17	9591668	<0.10	<0.10	0.10	9595594
Total Barium (Ba)	ug/L	7.1	12.7	9591668	16.6	20.1	1.0	9595594
Total Beryllium (Be)	ug/L	<0.10	<0.10	9591668	<0.10	<0.10	0.10	9595594
Total Bismuth (Bi)	ug/L	<1.0	<1.0	9591668	<1.0	<1.0	1.0	9595594
Total Boron (B)	ug/L	<50	<50	9591668	<50	<50	50	9595594
Total Cadmium (Cd)	ug/L	<0.010	<0.010	9591668	<0.010	<0.010	0.010	9595594
Total Chromium (Cr)	ug/L	<1.0	<1.0	9591668	<1.0	<1.0	1.0	9595594
Total Cobalt (Co)	ug/L	<0.20	<0.20	9591668	<0.20	<0.20	0.20	9595594
Total Copper (Cu)	ug/L	<0.50	1.29	9591668	0.86	<0.50	0.50	9595594
Total Iron (Fe)	ug/L	15	1980	9591668	43	73	10	9595594
Total Lead (Pb)	ug/L	<0.20	<0.20	9591668	<0.20	<0.20	0.20	9595594
Total Lithium (Li)	ug/L	<2.0	<2.0	9591668	<2.0	<2.0	2.0	9595594
Total Manganese (Mn)	ug/L	2.2	127	9591668	20.6	18.4	1.0	9595594
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	9591668	1.0	1.1	1.0	9595594
Total Nickel (Ni)	ug/L	<1.0	<1.0	9591668	<1.0	<1.0	1.0	9595594
Total Selenium (Se)	ug/L	<0.10	<0.10	9591668	<0.10	<0.10	0.10	9595594
Total Silicon (Si)	ug/L	1830	2510	9591668	1890	2290	100	9595594
Total Silver (Ag)	ug/L	<0.020	<0.020	9591668	<0.020	<0.020	0.020	9595594
Total Strontium (Sr)	ug/L	11.2	9.7	9591668	17.1	17.3	1.0	9595594
Total Thallium (Tl)	ug/L	<0.010	<0.010	9591668	<0.010	<0.010	0.010	9595594
Total Tin (Sn)	ug/L	<5.0	<5.0	9591668	<5.0	<5.0	5.0	9595594
Total Titanium (Ti)	ug/L	<5.0	<5.0	9591668	<5.0	<5.0	5.0	9595594
Total Uranium (U)	ug/L	<0.10	<0.10	9591668	0.22	0.41	0.10	9595594
Total Vanadium (V)	ug/L	<5.0	<5.0	9591668	<5.0	<5.0	5.0	9595594
Total Zinc (Zn)	ug/L	<5.0	<5.0	9591668	<5.0	<5.0	5.0	9595594
Total Zirconium (Zr)	ug/L	<0.10	<0.10	9591668	<0.10	<0.10	0.10	9595594
Total Calcium (Ca)	mg/L	5.88	2.85	9593023	13.1	19.5	0.050	9593023
Total Calcium (Ca)	ug/L	5880	2850	9591668	13100	19500	50	9595594
Total Magnesium (Mg)	mg/L	2.52	1.15	9593023	6.47	9.49	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN848	ZZN849		ZZN850	ZZN851		
Sampling Date		2024/08/07 15:30	2024/08/08 12:10		2024/08/08 15:30	2024/08/09 11:00		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	**MOL-02 NB**	**WC-14**	**QC Batch**	**WC-13**	**WC-06**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	0.952	0.484	9593023	1.11	0.938	0.050	9593023
Total Potassium (K)	ug/L	952	484	9591668	1110	938	50	9595594
Total Sodium (Na)	mg/L	0.644	0.428	9593023	0.543	0.629	0.050	9593023
Total Sodium (Na)	ug/L	644	428	9591668	543	629	50	9595594
Total Sulphur (S)	mg/L	<3.0	<3.0	9593023	<3.0	<3.0	3.0	9593023
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	25.1	11.9	9593022	59.3	87.7	0.50	9593022

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN852		ZZN853	ZZN854	ZZN855		
Sampling Date		2024/08/09 12:25		2024/08/09 16:40	2024/08/09 14:45	2024/08/09 16:10		
COC Number		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	WC-07	QC Batch	WC-08	LL-02 NS	LL-02 NB	RDL	QC Batch
Metals								
Total Aluminum (Al)	ug/L	3.2	9595594	5.0	9.7	12.6	3.0	9591668
Total Antimony (Sb)	ug/L	<0.50	9595594	<0.50	<0.50	<0.50	0.50	9591668
Total Arsenic (As)	ug/L	<0.10	9595594	<0.10	<0.10	<0.10	0.10	9591668
Total Barium (Ba)	ug/L	14.5	9595594	12.3	9.7	12.7	1.0	9591668
Total Beryllium (Be)	ug/L	<0.10	9595594	<0.10	<0.10	<0.10	0.10	9591668
Total Bismuth (Bi)	ug/L	<1.0	9595594	<1.0	<1.0	<1.0	1.0	9591668
Total Boron (B)	ug/L	<50	9595594	<50	<50	<50	50	9591668
Total Cadmium (Cd)	ug/L	<0.010	9595594	<0.010	<0.010	<0.010	0.010	9591668
Total Chromium (Cr)	ug/L	<1.0	9595594	<1.0	<1.0	<1.0	1.0	9591668
Total Cobalt (Co)	ug/L	<0.20	9595594	<0.20	<0.20	<0.20	0.20	9591668
Total Copper (Cu)	ug/L	<0.50	9595594	<0.50	<0.50	<0.50	0.50	9591668
Total Iron (Fe)	ug/L	235	9595594	43	16	31	10	9591668
Total Lead (Pb)	ug/L	<0.20	9595594	<0.20	<0.20	<0.20	0.20	9591668
Total Lithium (Li)	ug/L	<2.0	9595594	<2.0	<2.0	<2.0	2.0	9591668
Total Manganese (Mn)	ug/L	5.0	9595594	25.0	6.0	29.8	1.0	9591668
Total Molybdenum (Mo)	ug/L	<1.0	9595594	<1.0	<1.0	<1.0	1.0	9591668
Total Nickel (Ni)	ug/L	<1.0	9595594	<1.0	<1.0	<1.0	1.0	9591668
Total Selenium (Se)	ug/L	<0.10	9595594	<0.10	<0.10	<0.10	0.10	9591668
Total Silicon (Si)	ug/L	1430	9595594	1560	1380	1960	100	9591668
Total Silver (Ag)	ug/L	<0.020	9595594	<0.020	<0.020	<0.020	0.020	9591668
Total Strontium (Sr)	ug/L	12.7	9595594	13.6	11.9	11.6	1.0	9591668
Total Thallium (Tl)	ug/L	<0.010	9595594	<0.010	<0.010	<0.010	0.010	9591668
Total Tin (Sn)	ug/L	<5.0	9595594	<5.0	<5.0	<5.0	5.0	9591668
Total Titanium (Ti)	ug/L	<5.0	9595594	<5.0	<5.0	<5.0	5.0	9591668
Total Uranium (U)	ug/L	0.17	9595594	0.17	0.11	<0.10	0.10	9591668
Total Vanadium (V)	ug/L	<5.0	9595594	<5.0	<5.0	<5.0	5.0	9591668
Total Zinc (Zn)	ug/L	<5.0	9595594	<5.0	<5.0	<5.0	5.0	9591668
Total Zirconium (Zr)	ug/L	<0.10	9595594	<0.10	<0.10	<0.10	0.10	9591668
Total Calcium (Ca)	mg/L	13.0	9593023	10.2	7.64	7.53	0.050	9593023
Total Calcium (Ca)	ug/L	13000	9595594	10200	7640	7530	50	9591668
Total Magnesium (Mg)	mg/L	6.49	9593023	5.09	3.52	3.48	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN852		ZZN853	ZZN854	ZZN855		
Sampling Date		2024/08/09 12:25		2024/08/09 16:40	2024/08/09 14:45	2024/08/09 16:10		
COC Number		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		
	UNITS	**WC-07**	**QC Batch**	**WC-08**	**LL-02 NS**	**LL-02 NB**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	0.390	9593023	0.929	0.881	0.852	0.050	9593023
Total Potassium (K)	ug/L	390	9595594	929	881	852	50	9591668
Total Sodium (Na)	mg/L	0.476	9593023	0.414	0.479	0.452	0.050	9593023
Total Sodium (Na)	ug/L	476	9595594	414	479	452	50	9591668
Total Sulphur (S)	mg/L	<3.0	9593023	<3.0	<3.0	<3.0	3.0	9593023
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	59.2	9593022	46.5	33.6	33.1	0.50	9593022

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN856	ZZN857		ZZN858	ZZN859		
Sampling Date		2024/08/09 17:30	2024/08/09 18:20		2024/08/09	2024/08/09		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	LL-03 NS	LL-03 NB	QC Batch	DUP-2	DUP-3	RDL	QC Batch
Metals								
Total Aluminum (Al)	ug/L	9.2	10.1	9595594	9.3	9.3	3.0	9591664
Total Antimony (Sb)	ug/L	<0.50	<0.50	9595594	<0.50	<0.50	0.50	9591664
Total Arsenic (As)	ug/L	<0.10	<0.10	9595594	<0.10	<0.10	0.10	9591664
Total Barium (Ba)	ug/L	9.4	11.1	9595594	8.7	10.4	1.0	9591664
Total Beryllium (Be)	ug/L	<0.10	<0.10	9595594	<0.10	<0.10	0.10	9591664
Total Bismuth (Bi)	ug/L	<1.0	<1.0	9595594	<1.0	<1.0	1.0	9591664
Total Boron (B)	ug/L	<50	<50	9595594	<50	<50	50	9591664
Total Cadmium (Cd)	ug/L	<0.010	<0.010	9595594	<0.010	<0.010	0.010	9591664
Total Chromium (Cr)	ug/L	<1.0	<1.0	9595594	<1.0	<1.0	1.0	9591664
Total Cobalt (Co)	ug/L	<0.20	<0.20	9595594	<0.20	<0.20	0.20	9591664
Total Copper (Cu)	ug/L	<0.50	<0.50	9595594	<0.50	<0.50	0.50	9591664
Total Iron (Fe)	ug/L	17	21	9595594	17	23	10	9591664
Total Lead (Pb)	ug/L	<0.20	<0.20	9595594	<0.20	<0.20	0.20	9591664
Total Lithium (Li)	ug/L	<2.0	<2.0	9595594	<2.0	<2.0	2.0	9591664
Total Manganese (Mn)	ug/L	5.0	8.4	9595594	5.2	7.8	1.0	9591664
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	9595594	<1.0	<1.0	1.0	9591664
Total Nickel (Ni)	ug/L	<1.0	<1.0	9595594	<1.0	<1.0	1.0	9591664
Total Selenium (Se)	ug/L	<0.10	<0.10	9595594	<0.10	<0.10	0.10	9591664
Total Silicon (Si)	ug/L	1380	1730	9595594	1290	1640	100	9591664
Total Silver (Ag)	ug/L	<0.020	<0.020	9595594	<0.020	<0.020	0.020	9591664
Total Strontium (Sr)	ug/L	11.6	11.1	9595594	10.8	10.2	1.0	9591664
Total Thallium (Tl)	ug/L	<0.010	<0.010	9595594	<0.010	<0.010	0.010	9591664
Total Tin (Sn)	ug/L	<5.0	<5.0	9595594	<5.0	<5.0	5.0	9591664
Total Titanium (Ti)	ug/L	<5.0	<5.0	9595594	<5.0	<5.0	5.0	9591664
Total Uranium (U)	ug/L	<0.10	<0.10	9595594	<0.10	<0.10	0.10	9591664
Total Vanadium (V)	ug/L	<5.0	<5.0	9595594	<5.0	<5.0	5.0	9591664
Total Zinc (Zn)	ug/L	<5.0	<5.0	9595594	<5.0	<5.0	5.0	9591664
Total Zirconium (Zr)	ug/L	<0.10	<0.10	9595594	<0.10	<0.10	0.10	9591664
Total Calcium (Ca)	mg/L	7.52	7.21	9593023	7.03	6.87	0.050	9593023
Total Calcium (Ca)	ug/L	7520	7210	9595594	7030	6870	50	9591664
Total Magnesium (Mg)	mg/L	3.36	3.33	9593023	3.21	3.11	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN856	ZZN857		ZZN858	ZZN859		
Sampling Date		2024/08/09 17:30	2024/08/09 18:20		2024/08/09	2024/08/09		
COC Number		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		
	UNITS	**LL-03 NS**	**LL-03 NB**	**QC Batch**	**DUP-2**	**DUP-3**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	0.840	0.808	9593023	0.799	0.764	0.050	9593023
Total Potassium (K)	ug/L	840	808	9595594	799	764	50	9591664
Total Sodium (Na)	mg/L	0.452	0.439	9593023	0.455	0.404	0.050	9593023
Total Sodium (Na)	ug/L	452	439	9595594	455	404	50	9591664
Total Sulphur (S)	mg/L	<3.0	<3.0	9593023	<3.0	<3.0	3.0	9593023
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	32.6	31.7	9593022	30.8	30.0	0.50	9593022

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN860		ZZN861	ZZN862		ZZN863		
Sampling Date		2024/08/10 10:15		2024/08/10 10:40	2024/08/10		2024/08/11 10:20		
COC Number		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01		
	UNITS	DL-02 NS	QC Batch	DL-02 NB	BLANK	QC Batch	WC-16	RDL	QC Batch
Metals									
Total Aluminum (Al)	ug/L	12.6	9591664	22.7	<3.0	9591664	3.0	3.0	9595594
Total Antimony (Sb)	ug/L	<0.50	9591664	<0.50	<0.50	9591664	<0.50	0.50	9595594
Total Arsenic (As)	ug/L	<0.10	9591664	<0.10	<0.10	9591664	<0.10	0.10	9595594
Total Barium (Ba)	ug/L	7.5	9591664	9.9	<1.0	9591664	11.5	1.0	9595594
Total Beryllium (Be)	ug/L	<0.10	9591664	<0.10	<0.10	9591664	<0.10	0.10	9595594
Total Bismuth (Bi)	ug/L	<1.0	9591664	<1.0	<1.0	9591664	<1.0	1.0	9595594
Total Boron (B)	ug/L	<50	9591664	<50	<50	9591664	<50	50	9595594
Total Cadmium (Cd)	ug/L	<0.010	9591664	<0.010	<0.010	9591664	<0.010	0.010	9595594
Total Chromium (Cr)	ug/L	<1.0	9591664	<1.0	<1.0	9591664	<1.0	1.0	9595594
Total Cobalt (Co)	ug/L	<0.20	9591664	<0.20	<0.20	9591664	<0.20	0.20	9595594
Total Copper (Cu)	ug/L	<0.50	9591664	<0.50	<0.50	9591664	<0.50	0.50	9595594
Total Iron (Fe)	ug/L	14	9591664	57	<10	9591664	29	10	9595594
Total Lead (Pb)	ug/L	<0.20	9591664	<0.20	<0.20	9591664	<0.20	0.20	9595594
Total Lithium (Li)	ug/L	<2.0	9591664	<2.0	<2.0	9591664	<2.0	2.0	9595594
Total Manganese (Mn)	ug/L	4.8	9591664	145	<1.0	9591664	20.5	1.0	9595594
Total Molybdenum (Mo)	ug/L	<1.0	9591664	<1.0	<1.0	9591664	<1.0	1.0	9595594
Total Nickel (Ni)	ug/L	<1.0	9591664	<1.0	<1.0	9591664	<1.0	1.0	9595594
Total Selenium (Se)	ug/L	<0.10	9591664	<0.10	<0.10	9591664	<0.10	0.10	9595594
Total Silicon (Si)	ug/L	1770	9591664	2300	<100	9591664	1410	100	9595594
Total Silver (Ag)	ug/L	<0.020	9591664	<0.020	<0.020	9591664	<0.020	0.020	9595594
Total Strontium (Sr)	ug/L	13.1	9591664	12.5	<1.0	9591664	9.9	1.0	9595594
Total Thallium (Tl)	ug/L	<0.010	9591664	<0.010	<0.010	9591664	<0.010	0.010	9595594
Total Tin (Sn)	ug/L	<5.0	9591664	<5.0	<5.0	9591664	<5.0	5.0	9595594
Total Titanium (Ti)	ug/L	<5.0	9591664	<5.0	<5.0	9591664	<5.0	5.0	9595594
Total Uranium (U)	ug/L	<0.10	9591664	<0.10	<0.10	9591664	<0.10	0.10	9595594
Total Vanadium (V)	ug/L	<5.0	9591664	<5.0	<5.0	9591664	<5.0	5.0	9595594
Total Zinc (Zn)	ug/L	<5.0	9591664	<5.0	<5.0	9591664	<5.0	5.0	9595594
Total Zirconium (Zr)	ug/L	<0.10	9591664	<0.10	<0.10	9591664	<0.10	0.10	9595594
Total Calcium (Ca)	mg/L	4.72	9593023	4.59	<0.050	9593023	8.80	0.050	9593023
Total Calcium (Ca)	ug/L	4710	9591664	4590	<50	9591664	8800	50	9595594
Total Magnesium (Mg)	mg/L	1.48	9593023	1.46	<0.050	9593023	4.62	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN860		ZZN861	ZZN862		ZZN863		
Sampling Date		2024/08/10 10:15		2024/08/10 10:40	2024/08/10		2024/08/11 10:20		
COC Number		C#1003610-01-01		C#1003610-01-01	C#1003610-01-01		C#1003610-01-01		
	UNITS	**DL-02 NS**	**QC Batch**	**DL-02 NB**	**BLANK**	**QC Batch**	**WC-16**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	1.00	9593023	0.976	<0.050	9593023	0.773	0.050	9593023
Total Potassium (K)	ug/L	1000	9591664	976	<50	9591664	773	50	9595594
Total Sodium (Na)	mg/L	1.66	9593023	1.54	0.307	9593023	0.366	0.050	9593023
Total Sodium (Na)	ug/L	1660	9591664	1540	307	9591664	366	50	9595594
Total Sulphur (S)	mg/L	<3.0	9593023	<3.0	<3.0	9593023	<3.0	3.0	9593023
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	17.9	9593022	17.5	<0.50	9593519	41.0	0.50	9593519

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN864		
Sampling Date		2024/08/11 15:25		
COC Number		C#1003610-01-01		
	UNITS	WC-15	RDL	QC Batch
Metals				
Total Aluminum (Al)	ug/L	24.9	3.0	9591664
Total Antimony (Sb)	ug/L	<0.50	0.50	9591664
Total Arsenic (As)	ug/L	<0.10	0.10	9591664
Total Barium (Ba)	ug/L	9.9	1.0	9591664
Total Beryllium (Be)	ug/L	<0.10	0.10	9591664
Total Bismuth (Bi)	ug/L	<1.0	1.0	9591664
Total Boron (B)	ug/L	<50	50	9591664
Total Cadmium (Cd)	ug/L	<0.010	0.010	9591664
Total Chromium (Cr)	ug/L	<1.0	1.0	9591664
Total Cobalt (Co)	ug/L	<0.20	0.20	9591664
Total Copper (Cu)	ug/L	1.29	0.50	9591664
Total Iron (Fe)	ug/L	88	10	9591664
Total Lead (Pb)	ug/L	<0.20	0.20	9591664
Total Lithium (Li)	ug/L	<2.0	2.0	9591664
Total Manganese (Mn)	ug/L	25.5	1.0	9591664
Total Molybdenum (Mo)	ug/L	<1.0	1.0	9591664
Total Nickel (Ni)	ug/L	<1.0	1.0	9591664
Total Selenium (Se)	ug/L	<0.10	0.10	9591664
Total Silicon (Si)	ug/L	1690	100	9591664
Total Silver (Ag)	ug/L	<0.020	0.020	9591664
Total Strontium (Sr)	ug/L	13.2	1.0	9591664
Total Thallium (Tl)	ug/L	<0.010	0.010	9591664
Total Tin (Sn)	ug/L	<5.0	5.0	9591664
Total Titanium (Ti)	ug/L	<5.0	5.0	9591664
Total Uranium (U)	ug/L	<0.10	0.10	9591664
Total Vanadium (V)	ug/L	<5.0	5.0	9591664
Total Zinc (Zn)	ug/L	<5.0	5.0	9591664
Total Zirconium (Zr)	ug/L	<0.10	0.10	9591664
Total Calcium (Ca)	mg/L	7.87	0.050	9593023
Total Calcium (Ca)	ug/L	7870	50	9591664
Total Magnesium (Mg)	mg/L	3.35	0.050	9593023

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

Bureau Veritas ID		ZZN864		
Sampling Date		2024/08/11 15:25		
COC Number		C#1003610-01-01		
	UNITS	**WC-15**	**RDL**	**QC Batch**
Total Potassium (K)	mg/L	0.935	0.050	9593023
Total Potassium (K)	ug/L	935	50	9591664
Total Sodium (Na)	mg/L	0.771	0.050	9593023
Total Sodium (Na)	ug/L	771	50	9591664
Total Sulphur (S)	mg/L	<3.0	3.0	9593023
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	33.5	0.50	9593519

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN827			ZZN827			ZZN828		
Sampling Date		2024/08/02 15:00			2024/08/02 15:00			2024/08/02		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-05	RDL	QC Batch	WC-05 Lab-Dup	RDL	QC Batch	DUP-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	61	1.0	9577778				61	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.0028	0.0028	9577779				<0.0028	0.0028	9577779
Field Measurements										
Field Temperature	Celsius	22.6	N/A	ONSITE				22.6	N/A	ONSITE
Field Measured pH	pH	8.00		ONSITE				8.00		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	9584257	<5.0	5.0	9584257	<5.0	5.0	9584257
Total Ammonia-N	mg/L	<0.050	0.050	9580900				<0.050	0.050	9580900
Conductivity	mS/cm	0.129	N/A	9579094				0.128	N/A	9579094
Total Dissolved Solids	mg/L	90	10	9580018				50	10	9580018
Fluoride (F-)	mg/L	<0.10	0.10	9579095				<0.10	0.10	9579095
Dissolved Organic Carbon	mg/L	3.0	0.40	9578910				3.0	0.40	9578115
pH	pH	7.90		9579096				7.84		9579096
Total Phosphorus	mg/L	<0.020	0.020	9581381				<0.020	0.020	9581381
Total Suspended Solids	mg/L	<10	10	9579864				<10	10	9579864
Dissolved Sulphate (SO4)	mg/L	4.2	1.0	9579240				4.2	1.0	9579386
Alkalinity (Total as CaCO3)	mg/L	66	1.0	9579090				64	1.0	9579090
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579232				<1.0	1.0	9579381
Nitrite (N)	mg/L	<0.010	0.010	9579204				<0.010	0.010	9579188
Nitrate (N)	mg/L	<0.10	0.10	9579204				<0.10	0.10	9579188
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579204				<0.10	0.10	9579188
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579217				<1.0	1.0	9579217
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9698602				<0.010	0.010	9698602
Dissolved Selenium (Se)	ug/L	0.068	0.040	9701624				0.068	0.040	9701624
Total Selenium (Se)	ug/L	0.072	0.040	9698602				0.079	0.040	9698602
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606671				<2.0	2.0	9606671
Total Yttrium (Y)	ug/L	<2.0	2.0	9606670				<2.0	2.0	9606670

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN828			ZZN829			ZZN831		
Sampling Date		2024/08/02			2024/08/03 11:00			2024/08/03 11:30		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	DUP-1 Lab-Dup	RDL	QC Batch	MIL-03 NS	RDL	QC Batch	MIL-03 NB	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				34	1.0	9577778	33	1.0	9577778
Total Un-ionized Ammonia	mg/L				<0.0025	0.0025	9577779	<0.00061	0.00061	9577779
Field Measurements										
Field Temperature	Celsius				19.7	N/A	ONSITE	6.7	N/A	ONSITE
Field Measured pH	pH				8.05		ONSITE	6.72		ONSITE
Inorganics										
Acidity	mg/L				<5.0	5.0	9584257	<5.0	5.0	9584257
Total Ammonia-N	mg/L				<0.050	0.050	9580900	<0.050	0.050	9580900
Conductivity	mS/cm	0.129	N/A	9579094	0.0739	N/A	9579094	0.0730	N/A	9579094
Total Dissolved Solids	mg/L				55	10	9580018	45	10	9579958
Fluoride (F-)	mg/L	<0.10	0.10	9579095	<0.10	0.10	9579095	<0.10	0.10	9579095
Dissolved Organic Carbon	mg/L				3.0	0.40	9578910	2.9	0.40	9578910
pH	pH	7.88		9579096	7.66		9579096	7.43		9579096
Total Phosphorus	mg/L				<0.020	0.020	9581381	<0.020	0.020	9581374
Total Suspended Solids	mg/L				<10	10	9579864	<10	10	9579864
Dissolved Sulphate (SO4)	mg/L				3.2	1.0	9579240	2.7	1.0	9579386
Alkalinity (Total as CaCO3)	mg/L	65	1.0	9579090	38	1.0	9579090	37	1.0	9579090
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9579232	<1.0	1.0	9579381
Nitrite (N)	mg/L	<0.010	0.010	9579188	<0.010	0.010	9579188	<0.010	0.010	9579204
Nitrate (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579188	<0.10	0.10	9579204
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579188	<0.10	0.10	9579204
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9579217	<1.0	1.0	9579217
Metals										
Total Beryllium (Be)	ug/L				<0.010	0.010	9698602	<0.010	0.010	9698602
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9701624	<0.040	0.040	9701624
Total Selenium (Se)	ug/L				<0.040	0.040	9698602	<0.040	0.040	9698602
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9606671	<2.0	2.0	9606671
Total Yttrium (Y)	ug/L				<2.0	2.0	9606670	<2.0	2.0	9606670

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN831			ZZN832			ZZN832		
Sampling Date		2024/08/03 11:30			2024/08/03 14:00			2024/08/03 14:00		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	MIL-03 NB Lab-Dup	RDL	QC Batch	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				25	1.0	9577778			
Total Un-ionized Ammonia	mg/L				<0.00065	0.00065	9577779			
Field Measurements										
Field Temperature	Celsius				21	N/A	ONSITE			
Field Measured pH	pH				7.4		ONSITE			
Inorganics										
Acidity	mg/L				<5.0	5.0	9584257			
Total Ammonia-N	mg/L				<0.050	0.050	9580900			
Conductivity	mS/cm				0.0597	N/A	9579094			
Total Dissolved Solids	mg/L				50	10	9580018			
Fluoride (F-)	mg/L				<0.10	0.10	9579095			
Dissolved Organic Carbon	mg/L				3.2	0.40	9578913			
pH	pH				7.42		9579096			
Total Phosphorus	mg/L				<0.020	0.020	9581381			
Total Suspended Solids	mg/L				<10	10	9579864			
Dissolved Sulphate (SO4)	mg/L	2.7	1.0	9579386	3.3	1.0	9579240	3.4	1.0	9579240
Alkalinity (Total as CaCO3)	mg/L				30	1.0	9579090			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579381	<1.0	1.0	9579232	<1.0	1.0	9579232
Nitrite (N)	mg/L	<0.010	0.010	9579204	<0.010	0.010	9579188			
Nitrate (N)	mg/L	<0.10	0.10	9579204	<0.10	0.10	9579188			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579204	<0.10	0.10	9579188			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9579217	<1.0	1.0	9579217
Metals										
Total Beryllium (Be)	ug/L				<0.010	0.010	9698602			
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9701624			
Total Selenium (Se)	ug/L				<0.040	0.040	9698602			
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9606671			
Total Yttrium (Y)	ug/L				<2.0	2.0	9606670			

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN833			ZZN834		
Sampling Date		2024/08/03 17:00			2024/08/04 11:00		
COC Number		C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-04	RDL	QC Batch	MIL-02 NS	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	33	1.0	9577778	33	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.0017	0.0017	9577779	<0.0013	0.0013	9577779
Field Measurements							
Field Temperature	Celsius	21	N/A	ONSITE	20	N/A	ONSITE
Field Measured pH	pH	7.84		ONSITE	7.75		ONSITE
Inorganics							
Acidity	mg/L	<5.0	5.0	9584257	<5.0	5.0	9584257
Total Ammonia-N	mg/L	<0.050	0.050	9580900	<0.050	0.050	9580900
Conductivity	mS/cm	0.0716	N/A	9579094	0.0726	N/A	9579094
Total Dissolved Solids	mg/L	50	10	9579958	60	10	9580018
Fluoride (F-)	mg/L	<0.10	0.10	9579095	<0.10	0.10	9579095
Dissolved Organic Carbon	mg/L	2.9	0.40	9578910	2.9	0.40	9578913
pH	pH	7.65		9579096	7.64		9579096
Total Phosphorus	mg/L	<0.020	0.020	9581374	<0.020	0.020	9581374
Total Suspended Solids	mg/L	<10	10	9579864	<10	10	9579864
Dissolved Sulphate (SO4)	mg/L	3.3	1.0	9579240	3.2	1.0	9579240
Alkalinity (Total as CaCO3)	mg/L	36	1.0	9579090	37	1.0	9579090
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579232	<1.0	1.0	9579232
Nitrite (N)	mg/L	<0.010	0.010	9579188	<0.010	0.010	9579188
Nitrate (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579188
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579188
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579217	<1.0	1.0	9579217
Metals							
Total Beryllium (Be)	ug/L	<0.010	0.010	9698602	<0.010	0.010	9698602
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701624	<0.040	0.040	9701624
Total Selenium (Se)	ug/L	<0.040	0.040	9698602	<0.040	0.040	9698602
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606671	<2.0	2.0	9606672
Total Yttrium (Y)	ug/L	<2.0	2.0	9606670	<2.0	2.0	9606670

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN835			ZZN836			ZZN837		
Sampling Date		2024/08/04 11:30			2024/08/04 17:30			2024/08/05 16:00		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	MIL-02 NB	RDL	QC Batch	WC-10	RDL	QC Batch	RL-02 NS	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	33	1.0	9577778	18	1.0	9577778	40	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	9577779	<0.0054	0.0054	9577779	<0.002	0.002	9577779
Field Measurements										
Field Temperature	Celsius	8.1	N/A	ONSITE	20.49	N/A	ONSITE	18.8	N/A	ONSITE
Field Measured pH	pH	5.92		ONSITE	8.37		ONSITE	7.98		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	9584257	<5.0	5.0	9589371	<5.0	5.0	9584257
Total Ammonia-N	mg/L	<0.050	0.050	9580900	<0.050	0.050	9580900	<0.050	0.050	9581062
Conductivity	mS/cm	0.0729	N/A	9579502	0.0434	N/A	9579502	0.0849	N/A	9579094
Total Dissolved Solids	mg/L	55	10	9579958	25	10	9579958	55	10	9579958
Fluoride (F-)	mg/L	<0.10	0.10	9579508	<0.10	0.10	9579508	<0.10	0.10	9579095
Dissolved Organic Carbon	mg/L	2.7	0.40	9578910	4.4	0.40	9578910	2.7	0.40	9578913
pH	pH	7.40		9579511	7.28		9579511	7.81		9579096
Total Phosphorus	mg/L	<0.020	0.020	9581381	<0.020	0.020	9581374	<0.020	0.020	9581374
Total Suspended Solids	mg/L	<10	10	9579687	<10	10	9579687	<10	10	9579687
Dissolved Sulphate (SO4)	mg/L	3.1	1.0	9579386	2.4	1.0	9579386	2.9	1.0	9579240
Alkalinity (Total as CaCO3)	mg/L	37	1.0	9579484	21	1.0	9579484	51	1.0	9579090
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579381	<1.0	1.0	9579381	<1.0	1.0	9579232
Nitrite (N)	mg/L	<0.010	0.010	9579343	<0.010	0.010	9579204	<0.010	0.010	9579188
Nitrate (N)	mg/L	<0.10	0.10	9579343	<0.10	0.10	9579204	<0.10	0.10	9579188
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579343	<0.10	0.10	9579204	<0.10	0.10	9579188
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579903	<1.0	1.0	9579903	<1.0	1.0	9579217
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9698602	<0.010	0.010	9698602	<0.010	0.010	9698602
Dissolved Copper (Cu)	ug/L				1.58	0.20	9594796			
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701624	<0.040	0.040	9701624	<0.040	0.040	9701624
Total Selenium (Se)	ug/L	<0.040	0.040	9698602	<0.040	0.040	9698602	<0.040	0.040	9698602
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606672	<2.0	2.0	9606671	<2.0	2.0	9606672
Total Yttrium (Y)	ug/L	<2.0	2.0	9606670	<2.0	2.0	9606670	<2.0	2.0	9606670

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN838			ZZN838			ZZN839		
Sampling Date		2024/08/05 16:30			2024/08/05 16:30			2024/08/05 11:30		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	RL-02 NB	RDL	QC Batch	RL-02 NB Lab-Dup	RDL	QC Batch	WC-11	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	40	1.0	9577778				42	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	9577779				<0.0021	0.0021	9577779
Field Measurements										
Field Temperature	Celsius	9.4	N/A	ONSITE				19.5	N/A	ONSITE
Field Measured pH	pH	6.17		ONSITE				7.96		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	9584257				<5.0	5.0	9589371
Total Ammonia-N	mg/L	<0.050	0.050	9581062				<0.050	0.050	9580900
Conductivity	mS/cm	0.0855	N/A	9579502				0.0881	N/A	9579502
Total Dissolved Solids	mg/L	45	10	9579958				60	10	9579958
Fluoride (F-)	mg/L	<0.10	0.10	9579508				<0.10	0.10	9579508
Dissolved Organic Carbon	mg/L	2.5	0.40	9578910				2.9	0.40	9578913
pH	pH	7.35		9579511				7.67		9579511
Total Phosphorus	mg/L	<0.020	0.020	9581374				<0.020	0.020	9581374
Total Suspended Solids	mg/L	<10	10	9579687	<10	10	9579687	<10	10	9579687
Dissolved Sulphate (SO4)	mg/L	3.0	1.0	9581252	3.1	1.0	9581252	2.4	1.0	9579386
Alkalinity (Total as CaCO3)	mg/L	44	1.0	9579484				46	1.0	9579484
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9581240	<1.0	1.0	9581240	<1.0	1.0	9579381
Nitrite (N)	mg/L	<0.010	0.010	9579343				<0.010	0.010	9579204
Nitrate (N)	mg/L	<0.10	0.10	9579343				<0.10	0.10	9579204
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579343				<0.10	0.10	9579204
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579903				<1.0	1.0	9579903
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9698602				<0.010	0.010	9698602
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701624				<0.040	0.040	9701624
Total Selenium (Se)	ug/L	<0.040	0.040	9698602				<0.040	0.040	9698602
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606671				<2.0	2.0	9606672
Total Yttrium (Y)	ug/L	<2.0	2.0	9606673				<2.0	2.0	9606670

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN839			ZZN840			ZZN840		
Sampling Date		2024/08/05 11:30			2024/08/05 18:30			2024/08/05 18:30		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-11 Lab-Dup	RDL	QC Batch	DL-01	RDL	QC Batch	DL-01 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				19	1.0	9577778			
Total Un-ionized Ammonia	mg/L				<0.00051	0.00051	9577779			
Field Measurements										
Field Temperature	Celsius				17.98	N/A	ONSITE			
Field Measured pH	pH				7.39		ONSITE			
Inorganics										
Acidity	mg/L				<5.0	5.0	9584257			
Total Ammonia-N	mg/L				<0.050	0.050	9581062			
Conductivity	mS/cm	0.0884	N/A	9579502	0.0536	N/A	9579502			
Total Dissolved Solids	mg/L				40	10	9579958			
Fluoride (F-)	mg/L	<0.10	0.10	9579508	<0.10	0.10	9579508			
Dissolved Organic Carbon	mg/L				3.3	0.40	9578910			
pH	pH	7.76		9579511	7.32		9579511			
Total Phosphorus	mg/L				<0.020	0.020	9581381	<0.020	0.020	9581381
Total Suspended Solids	mg/L				<10	10	9579687			
Dissolved Sulphate (SO4)	mg/L				2.7	1.0	9579386			
Alkalinity (Total as CaCO3)	mg/L	47	1.0	9579484	22	1.0	9579484			
Dissolved Chloride (Cl-)	mg/L				1.9	1.0	9579381			
Nitrite (N)	mg/L				<0.010	0.010	9579343			
Nitrate (N)	mg/L				<0.10	0.10	9579343			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	9579343			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9579903			
Metals										
Total Beryllium (Be)	ug/L				<0.010	0.010	9698602			
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9701624			
Total Selenium (Se)	ug/L				<0.040	0.040	9698602			
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9606674			
Total Yttrium (Y)	ug/L				<2.0	2.0	9606673			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN841			ZZN841			ZZN842		
Sampling Date		2024/08/06 11:00			2024/08/06 11:00			2024/08/06 15:30		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-09	RDL	QC Batch	WC-09 Lab-Dup	RDL	QC Batch	WC-12	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	21	1.0	9577778				20	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	9577779				0.0098	0.0011	9577779
Field Measurements										
Field Temperature	Celsius	15.1	N/A	ONSITE				15.3	N/A	ONSITE
Field Measured pH	pH	7.38		ONSITE				7.83		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	9584257				<5.0	5.0	9589371
Total Ammonia-N	mg/L	<0.050	0.050	9581062	<0.050	0.050	9581062	0.43	0.050	9581062
Conductivity	mS/cm	0.0505	N/A	9579502				0.0645	N/A	9579502
Total Dissolved Solids	mg/L	35	10	9579958				100	10	9580018
Fluoride (F-)	mg/L	<0.10	0.10	9579508				<0.10	0.10	9579508
Dissolved Organic Carbon	mg/L	4.4	0.40	9578910				3.5	0.40	9578115
pH	pH	7.38		9579511				7.31		9579511
Total Phosphorus	mg/L	<0.020	0.020	9581381				0.020	0.020	9581381
Total Suspended Solids	mg/L	<10	10	9579687				<10	10	9579864
Dissolved Sulphate (SO4)	mg/L	2.4	1.0	9579386				4.9	1.0	9579386
Alkalinity (Total as CaCO3)	mg/L	24	1.0	9579484				24	1.0	9579484
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579381				2.3	1.0	9579381
Nitrite (N)	mg/L	<0.010	0.010	9579343				0.015	0.010	9579343
Nitrate (N)	mg/L	<0.10	0.10	9579343				0.14	0.10	9579343
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579343				0.15	0.10	9579343
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579903				<1.0	1.0	9579903
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9698602				<0.010	0.010	9698602
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701624				<0.040	0.040	9701624
Total Selenium (Se)	ug/L	<0.040	0.040	9698602				<0.040	0.040	9698602
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606672				<2.0	2.0	9606674
Total Yttrium (Y)	ug/L	<2.0	2.0	9606673				<2.0	2.0	9606675

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN842			ZZN843			ZZN844		
Sampling Date		2024/08/06 15:30			2024/08/07 16:00			2024/08/08 12:00		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-12 Lab-Dup	RDL	QC Batch	WC-01	RDL	QC Batch	PL-02 NS	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				52	1.0	9577778	32	1.0	9577778
Total Un-ionized Ammonia	mg/L				<0.0028	0.0028	9577779	<0.00059	0.00059	9577779
Field Measurements										
Field Temperature	Celsius				14.2	N/A	ONSITE	16.7	N/A	ONSITE
Field Measured pH	pH				8.27		ONSITE	7.5		ONSITE
Inorganics										
Acidity	mg/L				<5.0	5.0	9589686	<5.0	5.0	9589371
Total Ammonia-N	mg/L				<0.050	0.050	9580900	<0.050	0.050	9580900
Conductivity	mS/cm				0.115	N/A	9579502	0.0731	N/A	9579502
Total Dissolved Solids	mg/L				100	10	9580018	75	10	9579943
Fluoride (F-)	mg/L				<0.10	0.10	9579508	<0.10	0.10	9579508
Dissolved Organic Carbon	mg/L				3.6	0.40	9578910	4.9	0.40	9578115
pH	pH				7.91		9579511	7.57		9579511
Total Phosphorus	mg/L				<0.020	0.020	9581381	<0.020	0.020	9581374
Total Suspended Solids	mg/L				<10	10	9579864	<10	10	9579864
Dissolved Sulphate (SO4)	mg/L				4.5	1.0	9579386	3.7	1.0	9579386
Alkalinity (Total as CaCO3)	mg/L				56	1.0	9579484	36	1.0	9579484
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9579381	<1.0	1.0	9579381
Nitrite (N)	mg/L	0.016	0.010	9579343	<0.010	0.010	9579343	<0.010	0.010	9579343
Nitrate (N)	mg/L	0.14	0.10	9579343	<0.10	0.10	9579343	<0.10	0.10	9579343
Nitrate + Nitrite (N)	mg/L	0.15	0.10	9579343	<0.10	0.10	9579343	<0.10	0.10	9579343
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9579903	<1.0	1.0	9579903
Metals										
Total Beryllium (Be)	ug/L				<0.010	0.010	9698602	<0.010	0.010	9701625
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9701624	<0.040	0.040	9701624
Total Selenium (Se)	ug/L				<0.040	0.040	9698602	<0.040	0.040	9701625
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9606671	<2.0	2.0	9606671
Total Yttrium (Y)	ug/L				<2.0	2.0	9606673	<2.0	2.0	9606675

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN844			ZZN845		
Sampling Date		2024/08/08 12:00			2024/08/08 12:30		
COC Number		C#1003610-01-01			C#1003610-01-01		
	UNITS	PL-02 NS Lab-Dup	RDL	QC Batch	PL-02 NB	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L				32	1.0	9577778
Total Un-ionized Ammonia	mg/L				<0.00061	0.00061	9577779
Field Measurements							
Field Temperature	Celsius				9.3	N/A	ONSITE
Field Measured pH	pH				6.15		ONSITE
Inorganics							
Acidity	mg/L				<5.0	5.0	9589686
Total Ammonia-N	mg/L				0.089	0.050	9581062
Conductivity	mS/cm				0.0721	N/A	9579094
Total Dissolved Solids	mg/L				80	10	9579943
Fluoride (F-)	mg/L				<0.10	0.10	9579095
Dissolved Organic Carbon	mg/L				5.0	0.40	9578115
pH	pH				7.29		9579096
Total Phosphorus	mg/L				<0.020	0.020	9581381
Total Suspended Solids	mg/L				<10	10	9579864
Dissolved Sulphate (SO4)	mg/L				2.9	1.0	9579240
Alkalinity (Total as CaCO3)	mg/L				36	1.0	9579090
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9579232
Nitrite (N)	mg/L				<0.010	0.010	9579188
Nitrate (N)	mg/L				<0.10	0.10	9579188
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	9579188
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9579217
Metals							
Total Beryllium (Be)	ug/L	<0.010	0.010	9701625	<0.010	0.010	9701625
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9701624
Total Selenium (Se)	ug/L	<0.040	0.040	9701625	<0.040	0.040	9701625
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9606674
Total Yttrium (Y)	ug/L				<2.0	2.0	9606673

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN846			ZZN847			ZZN847		
Sampling Date		2024/08/08 14:30			2024/08/08 15:00			2024/08/08 15:00		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-02	RDL	QC Batch	MOL-02 NS	RDL	QC Batch	MOL-02 NS Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	32	1.0	9577778	27	1.0	9577778			
Total Un-ionized Ammonia	mg/L	<0.00086	0.00086	9577779	<0.00061	0.00061	9577779			
Field Measurements										
Field Temperature	Celsius	15.9	N/A	ONSITE	16.8	N/A	ONSITE			
Field Measured pH	pH	7.69		ONSITE	7.51		ONSITE			
Inorganics										
Acidity	mg/L	<5.0	5.0	9589686	<5.0	5.0	9589371			
Total Ammonia-N	mg/L	<0.050	0.050	9581062	<0.050	0.050	9581062			
Conductivity	mS/cm	0.0714	N/A	9579094	0.0620	N/A	9579094			
Total Dissolved Solids	mg/L	75	10	9579943	70	10	9579943	60	10	9579943
Fluoride (F-)	mg/L	<0.10	0.10	9579095	<0.10	0.10	9579095			
Dissolved Organic Carbon	mg/L	5.0	0.40	9578115	3.2	0.40	9578115			
pH	pH	7.58		9579096	7.55		9579096			
Total Phosphorus	mg/L	<0.020	0.020	9581374	<0.020	0.020	9581381			
Total Suspended Solids	mg/L	<10	10	9579864	<10	10	9579864			
Dissolved Sulphate (SO4)	mg/L	4.1	1.0	9579240	3.6	1.0	9579240			
Alkalinity (Total as CaCO3)	mg/L	35	1.0	9579090	31	1.0	9579090			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579232	<1.0	1.0	9579232			
Nitrite (N)	mg/L	<0.010	0.010	9579188	<0.010	0.010	9579188			
Nitrate (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579188			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579188			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579217	<1.0	1.0	9579217			
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9701625	<0.010	0.010	9701625			
Dissolved Copper (Cu)	ug/L	2.20	0.20	9594796						
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701624	<0.040	0.040	9701624			
Total Selenium (Se)	ug/L	<0.040	0.040	9701625	<0.040	0.040	9701625			
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606671	<2.0	2.0	9606671			
Total Yttrium (Y)	ug/L	<2.0	2.0	9606670	<2.0	2.0	9606670			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN848			ZZN848		
Sampling Date		2024/08/07 15:30			2024/08/07 15:30		
COC Number		C#1003610-01-01			C#1003610-01-01		
	UNITS	MOL-02 NB	RDL	QC Batch	MOL-02 NB Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	27	1.0	9577778			
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	9577779			
Field Measurements							
Field Temperature	Celsius	4.7	N/A	ONSITE			
Field Measured pH	pH	6.05		ONSITE			
Inorganics							
Acidity	mg/L	<5.0	5.0	9589686			
Total Ammonia-N	mg/L	<0.050	0.050	9581359			
Conductivity	mS/cm	0.0609	N/A	9579094			
Total Dissolved Solids	mg/L	55	10	9580018			
Fluoride (F-)	mg/L	<0.10	0.10	9579095			
Dissolved Organic Carbon	mg/L	3.1	0.40	9578910			
pH	pH	7.35		9579096			
Total Phosphorus	mg/L	<0.020	0.020	9581374	<0.020	0.020	9581374
Total Suspended Solids	mg/L	<10	10	9579687			
Dissolved Sulphate (SO4)	mg/L	3.5	1.0	9579240			
Alkalinity (Total as CaCO3)	mg/L	30	1.0	9579090			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579232			
Nitrite (N)	mg/L	<0.010	0.010	9579188			
Nitrate (N)	mg/L	<0.10	0.10	9579188			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579188			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579217			
Metals							
Total Beryllium (Be)	ug/L	<0.010	0.010	9701625			
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701626			
Total Selenium (Se)	ug/L	<0.040	0.040	9701625			
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606672			
Total Yttrium (Y)	ug/L	<2.0	2.0	9606670			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN849			ZZN850		
Sampling Date		2024/08/08 12:10			2024/08/08 15:30		
COC Number		C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-14	RDL	QC Batch	WC-13	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	13	1.0	9577778	67	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.00061	0.00061	9577779	<0.0019	0.0019	9577779
Field Measurements							
Field Temperature	Celsius	15.66	N/A	ONSITE	13.76	N/A	ONSITE
Field Measured pH	pH	6.89		ONSITE	8.11		ONSITE
Inorganics							
Acidity	mg/L	12	5.0	9589686	<5.0	5.0	9589371
Total Ammonia-N	mg/L	<0.050	0.050	9581359	<0.050	0.050	9581359
Conductivity	mS/cm	0.0293	N/A	9579094	0.137	N/A	9579502
Total Dissolved Solids	mg/L	55	10	9579943	100	10	9579943
Fluoride (F-)	mg/L	<0.10	0.10	9579095	<0.10	0.10	9579508
Dissolved Organic Carbon	mg/L	8.1	0.40	9578910	3.9	0.40	9578910
pH	pH	6.52		9579096	7.91		9579511
Total Phosphorus	mg/L	<0.020	0.020	9581381	0.033	0.020	9581381
Total Suspended Solids	mg/L	24	10	9579687	<10	10	9579687
Dissolved Sulphate (SO4)	mg/L	1.2	1.0	9579240	4.2	1.0	9579944
Alkalinity (Total as CaCO3)	mg/L	13	1.0	9579090	70	1.0	9579484
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579232	<1.0	1.0	9579936
Nitrite (N)	mg/L	<0.010	0.010	9579188	<0.010	0.010	9579343
Nitrate (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579343
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579343
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579217	<1.0	1.0	9579903
Metals							
Dissolved Aluminum (Al)	ug/L				91.9	3.0	9594796
Dissolved Barium (Ba)	ug/L				28.9	1.0	9594796
Total Beryllium (Be)	ug/L	0.015	0.010	9701625	<0.010	0.010	9701625
Dissolved Iron (Fe)	ug/L				514	5.0	9594796
Dissolved Manganese (Mn)	ug/L				230	1.0	9594796
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701626	<0.040	0.040	9701626
Total Selenium (Se)	ug/L	<0.040	0.040	9701625	<0.040	0.040	9701625

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN849			ZZN850		
Sampling Date		2024/08/08 12:10			2024/08/08 15:30		
COC Number		C#1003610-01-01			C#1003610-01-01		
	UNITS	**WC-14**	**RDL**	**QC Batch**	**WC-13**	**RDL**	**QC Batch**
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606672	<2.0	2.0	9606671
Total Yttrium (Y)	ug/L	<2.0	2.0	9606673	<2.0	2.0	9606670

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN851			ZZN851		
Sampling Date		2024/08/09 11:00			2024/08/09 11:00		
COC Number		C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-06	RDL	QC Batch	WC-06 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	96	1.0	9577778			
Total Un-ionized Ammonia	mg/L	<0.00075	0.00075	9577779			
Field Measurements							
Field Temperature	Celsius	9.1	N/A	ONSITE			
Field Measured pH	pH	7.86		ONSITE			
Inorganics							
Acidity	mg/L	<5.0	5.0	9589371			
Total Ammonia-N	mg/L	<0.050	0.050	9581359	<0.050	0.050	9581359
Conductivity	mS/cm	0.191	N/A	9579094			
Total Dissolved Solids	mg/L	105	10	9579958			
Fluoride (F-)	mg/L	<0.10	0.10	9579095			
Dissolved Organic Carbon	mg/L	3.2	0.40	9578910			
pH	pH	8.03		9579096			
Total Phosphorus	mg/L	<0.020	0.020	9581381			
Total Suspended Solids	mg/L	<10	10	9579687			
Dissolved Sulphate (SO4)	mg/L	4.2	1.0	9579240			
Alkalinity (Total as CaCO3)	mg/L	99	1.0	9579090			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579232			
Nitrite (N)	mg/L	<0.010	0.010	9579188			
Nitrate (N)	mg/L	<0.10	0.10	9579188			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579188			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579903	<1.0	1.0	9579903
Metals							
Total Beryllium (Be)	ug/L	<0.010	0.010	9701625			
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701626			
Total Selenium (Se)	ug/L	<0.040	0.040	9701625			
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606672			
Total Yttrium (Y)	ug/L	<2.0	2.0	9606673			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN852			ZZN852			ZZN853		
Sampling Date		2024/08/09 12:25			2024/08/09 12:25			2024/08/09 16:40		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-07	RDL	QC Batch	WC-07 Lab-Dup	RDL	QC Batch	WC-08	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	64	1.0	9577778				51	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.00082	0.00082	9577779				<0.0019	0.0019	9577779
Field Measurements										
Field Temperature	Celsius	13.2	N/A	ONSITE				18.9	N/A	ONSITE
Field Measured pH	pH	7.76		ONSITE				7.94		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	9589371	<5.0	5.0	9589371	<5.0	5.0	9589371
Total Ammonia-N	mg/L	<0.050	0.050	9581062				<0.050	0.050	9581359
Conductivity	mS/cm	0.127	N/A	9579094				0.107	N/A	9579502
Total Dissolved Solids	mg/L	75	10	9579958				60	10	9579958
Fluoride (F-)	mg/L	<0.10	0.10	9579095				<0.10	0.10	9579508
Dissolved Organic Carbon	mg/L	5.6	0.40	9578910				2.8	0.40	9578910
pH	pH	7.92		9579096				7.84		9579511
Total Phosphorus	mg/L	<0.020	0.020	9581381				<0.020	0.020	9581381
Total Suspended Solids	mg/L	<10	10	9579687				<10	10	9579687
Dissolved Sulphate (SO4)	mg/L	2.6	1.0	9579240				3.3	1.0	9579386
Alkalinity (Total as CaCO3)	mg/L	66	1.0	9579090				55	1.0	9579484
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579232				<1.0	1.0	9579381
Nitrite (N)	mg/L	<0.010	0.010	9579188				<0.010	0.010	9579204
Nitrate (N)	mg/L	<0.10	0.10	9579188				<0.10	0.10	9579204
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579188				<0.10	0.10	9579204
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579217				<1.0	1.0	9579217
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9701625				<0.010	0.010	9701625
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701626				<0.040	0.040	9701626
Total Selenium (Se)	ug/L	<0.040	0.040	9701625				<0.040	0.040	9701625
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606672				<2.0	2.0	9606672
Total Yttrium (Y)	ug/L	<2.0	2.0	9606673				<2.0	2.0	9606673

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN854		ZZN855			ZZN855		
Sampling Date		2024/08/09 14:45		2024/08/09 16:10			2024/08/09 16:10		
COC Number		C#1003610-01-01		C#1003610-01-01			C#1003610-01-01		
	UNITS	LL-02 NS	QC Batch	LL-02 NB	RDL	QC Batch	LL-02 NB Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	36	9577778	36	1.0	9577778			
Total Un-ionized Ammonia	mg/L	<0.00061	9577779	<0.00061	0.00061	9577779			
Field Measurements									
Field Temperature	Celsius	17.2	ONSITE	7.4	N/A	ONSITE			
Field Measured pH	pH	7.04	ONSITE	7.04		ONSITE			
Inorganics									
Acidity	mg/L	<5.0	9589371	<5.0	5.0	9589371			
Total Ammonia-N	mg/L	<0.050	9581359	0.12	0.050	9581359			
Conductivity	mS/cm	0.0779	9579502	0.0766	N/A	9579502			
Total Dissolved Solids	mg/L	45	9579958	50	10	9580018			
Fluoride (F-)	mg/L	<0.10	9579508	<0.10	0.10	9579508			
Dissolved Organic Carbon	mg/L	3.0	9578910	3.0	0.40	9578910	2.9	0.40	9578910
pH	pH	7.68	9579511	7.37		9579511			
Total Phosphorus	mg/L	<0.020	9581374	<0.020	0.020	9581374			
Total Suspended Solids	mg/L	<10	9579687	<10	10	9579687			
Dissolved Sulphate (SO4)	mg/L	3.4	9581252	3.7	1.0	9579944			
Alkalinity (Total as CaCO3)	mg/L	39	9579484	39	1.0	9579484			
Dissolved Chloride (Cl-)	mg/L	<1.0	9581240	<1.0	1.0	9579936			
Nitrite (N)	mg/L	<0.010	9579343	<0.010	0.010	9579343			
Nitrate (N)	mg/L	<0.10	9579343	<0.10	0.10	9579343			
Nitrate + Nitrite (N)	mg/L	<0.10	9579343	<0.10	0.10	9579343			
Dissolved Bromide (Br-)	mg/L	<1.0	9579903	<1.0	1.0	9579903			
Metals									
Total Beryllium (Be)	ug/L	<0.010	9701625	<0.010	0.010	9701625			
Dissolved Selenium (Se)	ug/L	<0.040	9701626	<0.040	0.040	9701626			
Total Selenium (Se)	ug/L	<0.040	9701625	<0.040	0.040	9701625			
Dissolved Yttrium (Y)	ug/L	<2.0	9606671	<2.0	2.0	9606671			
Total Yttrium (Y)	ug/L	<2.0	9606673	<2.0	2.0	9606673			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN856			ZZN857			ZZN857		
Sampling Date		2024/08/09 17:30			2024/08/09 18:20			2024/08/09 18:20		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	LL-03 NS	RDL	QC Batch	LL-03 NB	RDL	QC Batch	LL-03 NB Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	36	1.0	9577778	35	1.0	9577778			
Total Un-ionized Ammonia	mg/L	<0.0011	0.0011	9577779	<0.00061	0.00061	9577779			
Field Measurements										
Field Temperature	Celsius	17.3	N/A	ONSITE	10.3	N/A	ONSITE			
Field Measured pH	pH	7.76		ONSITE	6.06		ONSITE			
Inorganics										
Acidity	mg/L	<5.0	5.0	9589371	<5.0	5.0	9589371			
Total Ammonia-N	mg/L	<0.050	0.050	9581359	<0.050	0.050	9581062			
Conductivity	mS/cm	0.0777	N/A	9579094	0.0748	N/A	9579094			
Total Dissolved Solids	mg/L	50	10	9579958	50	10	9579958			
Fluoride (F-)	mg/L	<0.10	0.10	9579095	<0.10	0.10	9579095			
Dissolved Organic Carbon	mg/L	3.0	0.40	9578910	2.9	0.40	9578913	2.9	0.40	9578913
pH	pH	7.67		9579096	7.40		9579096			
Total Phosphorus	mg/L	<0.020	0.020	9581374	<0.020	0.020	9581374			
Total Suspended Solids	mg/L	<10	10	9579687	<10	10	9579687			
Dissolved Sulphate (SO4)	mg/L	4.1	1.0	9579240	3.5	1.0	9579240			
Alkalinity (Total as CaCO3)	mg/L	38	1.0	9579090	37	1.0	9579090			
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579232	<1.0	1.0	9579232			
Nitrite (N)	mg/L	<0.010	0.010	9579188	<0.010	0.010	9579188			
Nitrate (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579188			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579188	<0.10	0.10	9579188			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579217	<1.0	1.0	9579217			
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9701625	<0.010	0.010	9701625			
Dissolved Iron (Fe)	ug/L				63.8	5.0	9594796			
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701626	<0.040	0.040	9701626			
Total Selenium (Se)	ug/L	<0.040	0.040	9701625	<0.040	0.040	9701625			
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606671	<2.0	2.0	9606672			
Total Yttrium (Y)	ug/L	<2.0	2.0	9606673	<2.0	2.0	9606673			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN858			ZZN858			ZZN859		
Sampling Date		2024/08/09			2024/08/09			2024/08/09		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	DUP-2	RDL	QC Batch	DUP-2 Lab-Dup	RDL	QC Batch	DUP-3	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	36	1.0	9577778				35	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.0011	0.0011	9577779				<0.00061	0.00061	9577779
Field Measurements										
Field Temperature	Celsius	17.3	N/A	ONSITE				10.3	N/A	ONSITE
Field Measured pH	pH	7.76		ONSITE				6.06		ONSITE
Inorganics										
Acidity	mg/L	<5.0	5.0	9589371				<5.0	5.0	9589371
Total Ammonia-N	mg/L	<0.050	0.050	9581359				<0.050	0.050	9581359
Conductivity	mS/cm	0.0768	N/A	9579502				0.0751	N/A	9579502
Total Dissolved Solids	mg/L	50	10	9579958	45	10	9579958	85	10	9580018
Fluoride (F-)	mg/L	<0.10	0.10	9579508				<0.10	0.10	9579508
Dissolved Organic Carbon	mg/L	3.1	0.40	9578910				2.9	0.40	9578913
pH	pH	7.66		9579511				7.36		9579511
Total Phosphorus	mg/L	<0.020	0.020	9581374				<0.020	0.020	9581374
Total Suspended Solids	mg/L	<10	10	9579687				<10	10	9579864
Dissolved Sulphate (SO4)	mg/L	3.3	1.0	9579386				3.3	1.0	9579386
Alkalinity (Total as CaCO3)	mg/L	38	1.0	9579484				37	1.0	9579484
Dissolved Chloride (Cl-)	mg/L	<1.0	1.0	9579381				<1.0	1.0	9579381
Nitrite (N)	mg/L	<0.010	0.010	9579204				<0.010	0.010	9579204
Nitrate (N)	mg/L	<0.10	0.10	9579204				<0.10	0.10	9579204
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579204				<0.10	0.10	9579204
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579903				<1.0	1.0	9579903
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9701625				<0.010	0.010	9701625
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701626				<0.040	0.040	9701626
Total Selenium (Se)	ug/L	<0.040	0.040	9701625				<0.040	0.040	9701625
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606674				<2.0	2.0	9606672
Total Yttrium (Y)	ug/L	<2.0	2.0	9606673				<2.0	2.0	9606670

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN860			ZZN861			ZZN862		
Sampling Date		2024/08/10 10:15			2024/08/10 10:40			2024/08/10		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	DL-02 NS	RDL	QC Batch	DL-02 NB	RDL	QC Batch	BLANK	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	19	1.0	9577778	20	1.0	9577778	<1.0	1.0	9577778
Total Un-ionized Ammonia	mg/L	<0.0007	0.0007	9577779	<0.00061	0.00061	9577779			
Field Measurements										
Field Temperature	Celsius	17.7	N/A	ONSITE	7	N/A	ONSITE			
Field Measured pH	pH	7.54		ONSITE	5.52		ONSITE			
Inorganics										
Acidity	mg/L	<5.0	5.0	9589686	<5.0	5.0	9589686	<5.0	5.0	9589371
Total Ammonia-N	mg/L	<0.050	0.050	9581359	<0.050	0.050	9581062	<0.050	0.050	9581062
Conductivity	mS/cm	0.0515	N/A	9579502	0.0513	N/A	9579502	0.00290	N/A	9579094
Total Dissolved Solids	mg/L	55	10	9580018	35	10	9580018	<10	10	9580018
Fluoride (F-)	mg/L	<0.10	0.10	9579508	<0.10	0.10	9579508	<0.10	0.10	9579095
Dissolved Organic Carbon	mg/L	3.4	0.40	9578913	3.2	0.40	9578913	<0.40	0.40	9578913
pH	pH	7.25		9579511	6.99		9579511	6.22		9579096
Total Phosphorus	mg/L	<0.020	0.020	9581374	<0.020	0.020	9581374	<0.020	0.020	9581374
Total Suspended Solids	mg/L	<10	10	9579864	<10	10	9579864	<10	10	9579864
Dissolved Sulphate (SO4)	mg/L	3.1	1.0	9579386	2.9	1.0	9579386	<1.0	1.0	9579240
Alkalinity (Total as CaCO3)	mg/L	21	1.0	9579484	21	1.0	9579484	2.1	1.0	9579090
Dissolved Chloride (Cl-)	mg/L	2.2	1.0	9579381	1.6	1.0	9579381	<1.0	1.0	9579232
Nitrite (N)	mg/L	<0.010	0.010	9579204	<0.010	0.010	9579343	<0.010	0.010	9579188
Nitrate (N)	mg/L	<0.10	0.10	9579204	<0.10	0.10	9579343	<0.10	0.10	9579188
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	9579204	<0.10	0.10	9579343	<0.10	0.10	9579188
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	9579217	<1.0	1.0	9579903	<1.0	1.0	9579217
Metals										
Total Beryllium (Be)	ug/L	<0.010	0.010	9701625	<0.010	0.010	9701625	<0.010	0.010	9701625
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9701626	<0.040	0.040	9701626	<0.040	0.040	9701626
Total Selenium (Se)	ug/L	<0.040	0.040	9701625	<0.040	0.040	9701625	<0.040	0.040	9701625
Dissolved Yttrium (Y)	ug/L	<2.0	2.0	9606674	<2.0	2.0	9606672	<2.0	2.0	9606672
Total Yttrium (Y)	ug/L	<2.0	2.0	9606675	<2.0	2.0	9606675	<2.0	2.0	9606673

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		ZZN862			ZZN863			ZZN864		
Sampling Date		2024/08/10			2024/08/11 10:20			2024/08/11 15:25		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	BLANK Lab-Dup	RDL	QC Batch	WC-16	RDL	QC Batch	WC-15	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				44	1.0	9577778	37	1.0	9577778
Total Un-ionized Ammonia	mg/L				<0.0027	0.0027	9577779	<0.0035	0.0035	9577779
Field Measurements										
Field Temperature	Celsius				17.64	N/A	ONSITE	19.37	N/A	ONSITE
Field Measured pH	pH				8.15		ONSITE	8.21		ONSITE
Inorganics										
Acidity	mg/L				<5.0	5.0	9589371	<5.0	5.0	9589371
Total Ammonia-N	mg/L				<0.050	0.050	9581062	<0.050	0.050	9581062
Conductivity	mS/cm				0.0915	N/A	9579094	0.0823	N/A	9579502
Total Dissolved Solids	mg/L	<10	10	9580018	55	10	9579958	55	10	9580018
Fluoride (F-)	mg/L				<0.10	0.10	9579095	<0.10	0.10	9579508
Dissolved Organic Carbon	mg/L				2.9	0.40	9578913	3.3	0.40	9578913
pH	pH				7.78		9579096	7.65		9579511
Total Phosphorus	mg/L				<0.020	0.020	9581381	<0.020	0.020	9581374
Total Suspended Solids	mg/L				<10	10	9579864	18	10	9579864
Dissolved Sulphate (SO4)	mg/L				2.9	1.0	9579240	3.8	1.0	9579386
Alkalinity (Total as CaCO3)	mg/L				47	1.0	9579090	39	1.0	9579484
Dissolved Chloride (Cl-)	mg/L				<1.0	1.0	9579232	<1.0	1.0	9579381
Nitrite (N)	mg/L				<0.010	0.010	9579188	<0.010	0.010	9579343
Nitrate (N)	mg/L				<0.10	0.10	9579188	<0.10	0.10	9579343
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	9579188	<0.10	0.10	9579343
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	9579217	<1.0	1.0	9579903
Metals										
Total Beryllium (Be)	ug/L				<0.010	0.010	9701625	<0.010	0.010	9701627
Dissolved Selenium (Se)	ug/L				<0.040	0.040	9701626	<0.040	0.040	9701626
Total Selenium (Se)	ug/L				<0.040	0.040	9701625	<0.040	0.040	9701627
Dissolved Yttrium (Y)	ug/L				<2.0	2.0	9606672	<2.0	2.0	9606672
Total Yttrium (Y)	ug/L				<2.0	2.0	9606673	<2.0	2.0	9606675

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZZN827	ZZN828	ZZN829		ZZN831		
Sampling Date		2024/08/02 15:00	2024/08/02	2024/08/03 11:00		2024/08/03 11:30		
COC Number		C#1003610-01-01	C#1003610-01-01	C#1003610-01-01		C#1003610-01-01		
	UNITS	WC-05	DUP-1	MIL-03 NS	QC Batch	MIL-03 NB	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	9582991	<0.00010	0.00010	9584794
Dissolved Mercury (Hg)	ug/L	<0.10	<0.10	<0.10	9580422	<0.10	0.10	9580422

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZZN832		ZZN833		ZZN834		
Sampling Date		2024/08/03 14:00		2024/08/03 17:00		2024/08/04 11:00		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	WC-03	QC Batch	WC-04	QC Batch	MIL-02 NS	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9582991	<0.00010	9584794	<0.00010	0.00010	9582991
Dissolved Mercury (Hg)	ug/L	<0.10	9580422	<0.10	9580422	<0.10	0.10	9580422

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZZN835		ZZN836		ZZN837		
Sampling Date		2024/08/04 11:30		2024/08/04 17:30		2024/08/05 16:00		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	MIL-02 NB	QC Batch	WC-10	QC Batch	RL-02 NS	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9584794	<0.00010	9582991	<0.00010	0.00010	9583069
Dissolved Mercury (Hg)	ug/L	<0.10	9580422	<0.10	9580422	<0.10	0.10	9580422

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZZN837			ZZN838		ZZN839		
Sampling Date		2024/08/05 16:00			2024/08/05 16:30		2024/08/05 11:30		
COC Number		C#1003610-01-01			C#1003610-01-01		C#1003610-01-01		
	UNITS	RL-02 NS Lab-Dup	RDL	QC Batch	RL-02 NB	QC Batch	WC-11	RDL	QC Batch
Metals									
Mercury (Hg)	mg/L	<0.00010	0.00010	9583069	<0.00010	9583069	<0.00010	0.00010	9582991
Dissolved Mercury (Hg)	ug/L				<0.10	9580422	<0.10	0.10	9584814

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ZZN840			ZZN840			ZZN841		
Sampling Date		2024/08/05 18:30			2024/08/05 18:30			2024/08/06 11:00		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	DL-01	RDL	QC Batch	DL-01 Lab-Dup	RDL	QC Batch	WC-09	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L	<0.00010	0.00010	9582991				<0.00010	0.00010	9584794
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	9580422	<0.10	0.10	9580422	<0.10	0.10	9580422

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		ZZN842		ZZN843		ZZN844		
Sampling Date		2024/08/06 15:30		2024/08/07 16:00		2024/08/08 12:00		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	WC-12	QC Batch	WC-01	QC Batch	PL-02 NS	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9583069	<0.00010	9582991	<0.00010	0.00010	9583069
Dissolved Mercury (Hg)	ug/L	<0.10	9582990	<0.10	9582990	<0.10	0.10	9582990

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZZN845		ZZN846		ZZN847		
Sampling Date		2024/08/08 12:30		2024/08/08 14:30		2024/08/08 15:00		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	PL-02 NB	QC Batch	WC-02	QC Batch	MOL-02 NS	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9584794	<0.00010	9583069	<0.00010	0.00010	9583069
Dissolved Mercury (Hg)	ug/L	<0.10	9582990	<0.10	9582990	<0.10	0.10	9584814

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZZN848		ZZN849		ZZN850		
Sampling Date		2024/08/07 15:30		2024/08/08 12:10		2024/08/08 15:30		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	MOL-02 NB	QC Batch	WC-14	QC Batch	WC-13	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9583069	<0.00010	9583069	<0.00010	0.00010	9584794
Dissolved Mercury (Hg)	ug/L	<0.10	9582990	<0.10	9584814	<0.10	0.10	9582990

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZZN851		ZZN852		ZZN853		
Sampling Date		2024/08/09 11:00		2024/08/09 12:25		2024/08/09 16:40		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	WC-06	QC Batch	WC-07	QC Batch	WC-08	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9583069	<0.00010	9583069	<0.00010	0.00010	9583069
Dissolved Mercury (Hg)	ug/L	<0.10	9582990	<0.10	9584814	<0.10	0.10	9580422

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZZN854		ZZN855		ZZN856		
Sampling Date		2024/08/09 14:45		2024/08/09 16:10		2024/08/09 17:30		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	LL-02 NS	QC Batch	LL-02 NB	QC Batch	LL-03 NS	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9583069	<0.00010	9582991	<0.00010	0.00010	9582991
Dissolved Mercury (Hg)	ug/L	<0.10	9584814	<0.10	9582990	<0.10	0.10	9580422

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZZN857		ZZN858		ZZN859		
Sampling Date		2024/08/09 18:20		2024/08/09		2024/08/09		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	LL-03 NB	QC Batch	DUP-2	QC Batch	DUP-3	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9584794	<0.00010	9584794	<0.00010	0.00010	9582991
Dissolved Mercury (Hg)	ug/L	<0.10	9582990	<0.10	9580422	<0.10	0.10	9582990

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ZZN860		ZZN861		ZZN862		
Sampling Date		2024/08/10 10:15		2024/08/10 10:40		2024/08/10		
COC Number		C#1003610-01-01		C#1003610-01-01		C#1003610-01-01		
	UNITS	DL-02 NS	QC Batch	DL-02 NB	QC Batch	BLANK	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	<0.00010	9583069	<0.00010	9582991	<0.00010	0.00010	9583069
Dissolved Mercury (Hg)	ug/L	<0.10	9584814	<0.10	9582990	<0.10	0.10	9582990

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		ZZN863			ZZN863			ZZN864		
Sampling Date		2024/08/11 10:20			2024/08/11 10:20			2024/08/11 15:25		
COC Number		C#1003610-01-01			C#1003610-01-01			C#1003610-01-01		
	UNITS	WC-16	RDL	QC Batch	WC-16 Lab-Dup	RDL	QC Batch	WC-15	RDL	QC Batch
Metals										
Mercury (Hg)	mg/L	<0.00010	0.00010	9582991				<0.00010	0.00010	9582991
Dissolved Mercury (Hg)	ug/L	<0.10	0.10	9584814	<0.10	0.10	9584814	<0.10	0.10	9584814

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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TEST SUMMARY

Bureau Veritas ID: ZZN827 **Collected:** 2024/08/02
Sample ID: WC-05 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9593062	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN827 Dup **Collected:** 2024/08/02
Sample ID: WC-05 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau

Bureau Veritas ID: ZZN828 **Collected:** 2024/08/02
Sample ID: DUP-1 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN828
Sample ID: DUP-1
Matrix: Water

Collected: 2024/08/02
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578115	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9593062	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN828 Dup
Sample ID: DUP-1
Matrix: Water

Collected: 2024/08/02
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN829
Sample ID: MIL-03 NS
Matrix: Water

Collected: 2024/08/03
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN831
Sample ID: MIL-03 NB
Matrix: Water

Collected: 2024/08/03
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN831 **Collected:** 2024/08/03
Sample ID: MIL-03 NB **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9584794	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/19	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN831 Dup **Collected:** 2024/08/03
Sample ID: MIL-03 NB **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu

Bureau Veritas ID: ZZN832 **Collected:** 2024/08/03
Sample ID: WC-03 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN832 **Collected:** 2024/08/03
Sample ID: WC-03 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN832 Dup **Collected:** 2024/08/03
Sample ID: WC-03 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan

Bureau Veritas ID: ZZN833 **Collected:** 2024/08/03
Sample ID: WC-04 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN833
Sample ID: WC-04
Matrix: Water

Collected: 2024/08/03
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9584794	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN834
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2024/08/04
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN834
Sample ID: MIL-02 NS
Matrix: Water

Collected: 2024/08/04
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN835
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2024/08/04
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9584794	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN835
Sample ID: MIL-02 NB
Matrix: Water

Collected: 2024/08/04
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN836
Sample ID: WC-10
Matrix: Water

Collected: 2024/08/04
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9594796	N/A	2024/08/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN837
Sample ID: RL-02 NS
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/16	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/16	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/16	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/16	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN837 Dup
Sample ID: RL-02 NS
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh

Bureau Veritas ID: ZZN838
Sample ID: RL-02 NB
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN838
Sample ID: RL-02 NB
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9579903	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9581240	N/A	2024/08/19	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9581252	N/A	2024/08/19	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN838 Dup
Sample ID: RL-02 NB
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	SKAL	9581240	N/A	2024/08/19	Alina Dobreanu
Sulphate by Automated Turbidimetry	SKAL	9581252	N/A	2024/08/19	Alina Dobreanu
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng

Bureau Veritas ID: ZZN839
Sample ID: WC-11
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

TEST SUMMARY

Bureau Veritas ID: ZZN839
Sample ID: WC-11
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN839 Dup
Sample ID: WC-11
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil

Bureau Veritas ID: ZZN840
Sample ID: DL-01
Matrix: Water

Collected: 2024/08/05
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN840 **Collected:** 2024/08/05
Sample ID: DL-01 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606674	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN840 Dup **Collected:** 2024/08/05
Sample ID: DL-01 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri

Bureau Veritas ID: ZZN841 **Collected:** 2024/08/06
Sample ID: WC-09 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9584257	N/A	2024/08/19	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

TEST SUMMARY

Bureau Veritas ID: ZZN841
Sample ID: WC-09
Matrix: Water

Collected: 2024/08/06
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9584794	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN841 Dup
Sample ID: WC-09
Matrix: Water

Collected: 2024/08/06
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan

Bureau Veritas ID: ZZN842
Sample ID: WC-12
Matrix: Water

Collected: 2024/08/06
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN842
Sample ID: WC-12
Matrix: Water

Collected: 2024/08/06
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578115	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606675	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606674	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN842 Dup
Sample ID: WC-12
Matrix: Water

Collected: 2024/08/06
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal

Bureau Veritas ID: ZZN843
Sample ID: WC-01
Matrix: Water

Collected: 2024/08/07
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589686	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN843
Sample ID: WC-01
Matrix: Water

Collected: 2024/08/07
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9698602	N/A	2024/10/09	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN844
Sample ID: PL-02 NS
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578115	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN844
Sample ID: PL-02 NS
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Extractable Lanthanides-waters	ICP/MSMS	9606675	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9580900	N/A	2024/08/20	Muskan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579943	2024/08/15	2024/08/16	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/19	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN844 Dup
Sample ID: PL-02 NS
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An

Bureau Veritas ID: ZZN845
Sample ID: PL-02 NB
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589686	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578115	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9584794	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9595593	N/A	2024/08/19	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606674	N/A	2024/08/21	Sinthuja Thambiayah

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN845
Sample ID: PL-02 NB
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579943	2024/08/15	2024/08/16	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN846
Sample ID: WC-02
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589686	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578115	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9594796	N/A	2024/08/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579943	2024/08/15	2024/08/16	Razieh Tabesh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

TEST SUMMARY

Bureau Veritas ID: ZZN846
Sample ID: WC-02
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN847
Sample ID: MOL-02 NS
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/16	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/16	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578115	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/16	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701624	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/16	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579943	2024/08/15	2024/08/16	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN847 Dup
Sample ID: MOL-02 NS
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9579943	2024/08/15	2024/08/16	Razieh Tabesh

Bureau Veritas ID: ZZN848
Sample ID: MOL-02 NB
Matrix: Water

Collected: 2024/08/07
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589686	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN848 Dup
Sample ID: MOL-02 NB
Matrix: Water

Collected: 2024/08/07
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN849
Sample ID: WC-14
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589686	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579943	2024/08/15	2024/08/16	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN850
Sample ID: WC-13
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579936	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN850
Sample ID: WC-13
Matrix: Water

Collected: 2024/08/08
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	9584794	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9594796	N/A	2024/08/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579944	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579943	2024/08/15	2024/08/16	Razieh Tabesh
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN851
Sample ID: WC-06
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN851
Sample ID: WC-06
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN851 Dup
Sample ID: WC-06
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9579903	N/A	2024/08/16	Lusine Khachatryan
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan

Bureau Veritas ID: ZZN852
Sample ID: WC-07
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/16	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/16	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/16	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN852
Sample ID: WC-07
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/16	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN852 Dup
Sample ID: WC-07
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau

Bureau Veritas ID: ZZN853
Sample ID: WC-08
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN853
Sample ID: WC-08
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN854
Sample ID: LL-02 NS
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9581240	N/A	2024/08/19	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9581252	N/A	2024/08/19	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN855 **Collected:** 2024/08/09
Sample ID: LL-02 NB **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579936	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591668	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579944	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN855 Dup **Collected:** 2024/08/09
Sample ID: LL-02 NB **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/15	Arshdeep Jagayat

Bureau Veritas ID: ZZN856 **Collected:** 2024/08/09
Sample ID: LL-03 NS **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/16	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN856
Sample ID: LL-03 NS
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/16	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/16	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606671	N/A	2024/08/22	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/16	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN857
Sample ID: LL-03 NB
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9584794	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/20	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN857
Sample ID: LL-03 NB
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9594796	N/A	2024/08/22	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN857 Dup
Sample ID: LL-03 NB
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat

Bureau Veritas ID: ZZN858
Sample ID: DUP-2
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578910	N/A	2024/08/16	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9580422	2024/08/16	2024/08/16	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9584794	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/21	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN858
Sample ID: DUP-2
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606674	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/21	2024/08/21	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591664	2024/08/20	2024/08/20	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579687	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN858 Dup
Sample ID: DUP-2
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel

Bureau Veritas ID: ZZN859
Sample ID: DUP-3
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/21	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN859
Sample ID: DUP-3
Matrix: Water

Collected: 2024/08/09
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Extractable Lanthanides-waters	ICP/MSMS	9606670	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/21	2024/08/21	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591664	2024/08/20	2024/08/20	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN860
Sample ID: DL-02 NS
Matrix: Water

Collected: 2024/08/10
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589686	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593022	N/A	2024/08/21	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606675	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606674	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/21	2024/08/21	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591664	2024/08/20	2024/08/20	Andrew An
Total Ammonia-N	SKAL/NH4	9581359	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579204	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

TEST SUMMARY

Bureau Veritas ID: ZZN860
Sample ID: DL-02 NS
Matrix: Water

Collected: 2024/08/10
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN861
Sample ID: DL-02 NB
Matrix: Water

Collected: 2024/08/10
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589686	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593519	N/A	2024/08/21	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606675	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/21	2024/08/21	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591664	2024/08/20	2024/08/20	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN862
Sample ID: BLANK
Matrix: Water

Collected: 2024/08/10
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9582990	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9583069	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593519	N/A	2024/08/21	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/21	2024/08/21	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591664	2024/08/20	2024/08/20	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng

Bureau Veritas ID: ZZN862 Dup
Sample ID: BLANK
Matrix: Water

Collected: 2024/08/10
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel

Bureau Veritas ID: ZZN863
Sample ID: WC-16
Matrix: Water

Collected: 2024/08/11
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579090	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579217	N/A	2024/08/16	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579232	N/A	2024/08/16	Massarat Jan
Conductivity	AT	9579094	N/A	2024/08/15	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: ZZN863 **Collected:** 2024/08/11
Sample ID: WC-16 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579095	2024/08/15	2024/08/15	Nachiketa Gohil
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593519	N/A	2024/08/20	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606673	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/20	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701625	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9595594	2024/08/19	2024/08/19	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579188	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579096	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579240	N/A	2024/08/16	Massarat Jan
Total Dissolved Solids	BAL	9579958	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581381	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

Bureau Veritas ID: ZZN863 Dup **Collected:** 2024/08/11
Sample ID: WC-16 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh

Bureau Veritas ID: ZZN864 **Collected:** 2024/08/11
Sample ID: WC-15 **Shipped:**
Matrix: Water **Received:** 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acidity (CaCO3) in water	MT	9589371	N/A	2024/08/21	Brent Boudreau
Alkalinity	AT	9579484	N/A	2024/08/15	Nachiketa Gohil
Anions	IC	9579903	N/A	2024/08/17	Lusine Khachatryan
Chloride by Automated Colourimetry	SKAL	9579381	N/A	2024/08/20	Alina Dobreanu
Conductivity	AT	9579502	N/A	2024/08/15	Nachiketa Gohil
Dissolved Organic Carbon (DOC)	TOCV/NDIR	9578913	N/A	2024/08/15	Arshdeep Jagayat
Fluoride	ISE	9579508	2024/08/15	2024/08/15	Nachiketa Gohil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4P0017
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0038713.5261/4300.02
Sampler Initials: AK

TEST SUMMARY

Bureau Veritas ID: ZZN864
Sample ID: WC-15
Matrix: Water

Collected: 2024/08/11
Shipped:
Received: 2024/08/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO3)		9577778	N/A	2024/08/23	Automated Statchk
Dissolved Mercury in Water by CVAA	CV/AA	9584814	2024/08/19	2024/08/20	Aswathy Neduveli Suresh
Mercury in Water by CVAA	CV/AA	9582991	2024/08/17	2024/08/19	Aswathy Neduveli Suresh
Hardness Total (calculated as CaCO3)	CALC	9593519	N/A	2024/08/21	Automated Statchk
Hardness (calculated as CaCO3)	CALC	9582196	N/A	2024/08/20	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	9589277	N/A	2024/08/20	Automated Statchk
Elements by ICPMS Low Level (dissolved)	ICP/MS	9701626	N/A	2024/10/08	Andrew An
Elements by CRC ICPMS (dissolved)	ICP/MS	9593024	N/A	2024/08/20	Andrew An
Total Extractable Lanthanides-waters	ICP/MSMS	9606675	2024/08/21	2024/08/21	Sinthuja Thambiayah
Dissolved Lanthanides- waters	ICP/MSMS	9606672	N/A	2024/08/21	Sinthuja Thambiayah
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	9593023	2024/08/21	2024/08/21	Automated Statchk
Elements by ICPMS Low Level (total)	ICP/MS	9701627	N/A	2024/10/10	Andrew An
Elements by CRC ICPMS (total)	ICP/MS	9591664	2024/08/20	2024/08/20	Andrew An
Total Ammonia-N	SKAL/NH4	9581062	N/A	2024/08/19	Massarat Jan
Nitrate & Nitrite as Nitrogen in Water	LACH	9579343	N/A	2024/08/16	Chandra Nandlal
pH	AT	9579511	2024/08/15	2024/08/15	Nachiketa Gohil
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Sulphate by Automated Turbidimetry	SKAL	9579386	N/A	2024/08/20	Alina Dobreanu
Total Dissolved Solids	BAL	9580018	2024/08/16	2024/08/17	Darshan Patel
Field Measured pH	PH	ONSITE	N/A	2024/08/21	Ankita Bhalla
Total Phosphorus (Colourimetric)	SKAL/P	9581374	2024/08/16	2024/08/17	Vidhi Khatri
Total Suspended Solids	BAL	9579864	2024/08/15	2024/08/16	Tina Teng
Un-ionized Ammonia	CALC/NH3	9577779	2024/08/21	2024/08/21	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Revised Report [2024/11/12]: Sample ID amended as per client request.

Revised Report [2024/10/31]: Parameters for total and dissolved low level metals have been amended.

Revised Report [2024/10/17]: Low level metals analysis for total and dissolved included as per client request.

Sample ZZN827 [WC-05] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN828 [DUP-1] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN829 [MIL-03 NS] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Acidity sample contained headspace.

Sample ZZN831 [MIL-03 NB] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN832 [WC-03] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Acidity sample contained headspace.

Sample ZZN833 [WC-04] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN834 [MIL-02 NS] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN835 [MIL-02 NB] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN836 [WC-10] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.
Acidity analyzed past recommended hold time.

Sample ZZN837 [RL-02 NS] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN838 [RL-02 NB] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN839 [WC-11] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these

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results.
Acidity sample contained headspace.
Acidity analyzed past recommended hold time.

Sample ZZN840 [DL-01] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acitity sample contained headspace.

Sample ZZN841 [WC-09] : TSS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity sample contained headspace.

Sample ZZN842 [WC-12] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.
Acidity analyzed past recommended hold time.

Sample ZZN843 [WC-01] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Acidity sample contained headspace.

Sample ZZN844 [PL-02 NS] : Acidity sample contained headspace.

Sample ZZN845 [PL-02 NB] : Acidity sample contained headspace.

Sample ZZN846 [WC-02] : Acidity sample contained headspace.

Sample ZZN847 [MOL-02 NS] : Acidity sample contained headspace.

Sample ZZN848 [MOL-02 NB] : TSS/TDS Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Acidity sample contained headspace.

Sample ZZN849 [WC-14] : Acidity sample contained headspace.

Sample ZZN850 [WC-13] : Acidity sample contained headspace.

Sample ZZN853 [WC-08] : Acidity sample contained headspace.

Sample ZZN854 [LL-02 NS] : Acidity sample contained headspace.

Sample ZZN856 [LL-03 NS] : Acidity sample contained headspace.

Sample ZZN857 [LL-03 NB] : Acidity sample contained headspace.

Sample ZZN859 [DUP-3] : Acidity sample contained headspace.

Sample ZZN862 [BLANK] : Acidity sample contained headspace.

Sample ZZN863 [WC-16] : Acidity sample contained headspace.

Sample ZZN864 [WC-15] : Acidity sample contained headspace.
Sample ZZN836, Elements by CRC ICPMS (dissolved): Test repeated.
Sample ZZN846, Elements by CRC ICPMS (dissolved): Test repeated.
Sample ZZN850, Elements by CRC ICPMS (dissolved): Test repeated.

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Sample ZZN857, Elements by CRC ICPMS (dissolved): Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9578115	Dissolved Organic Carbon	2024/08/16	91	80 - 120	95	80 - 120	<0.40	mg/L	3.0	20		
9578910	Dissolved Organic Carbon	2024/08/15	92	80 - 120	94	80 - 120	<0.40	mg/L	0.81	20		
9578913	Dissolved Organic Carbon	2024/08/15	94	80 - 120	96	80 - 120	<0.40	mg/L	0.69	20		
9579090	Alkalinity (Total as CaCO3)	2024/08/15			97	85 - 115	<1.0	mg/L	0.94	20		
9579094	Conductivity	2024/08/15			101	85 - 115	0.000600	mS/cm	0.54	10		
9579095	Fluoride (F-)	2024/08/15	98	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
9579096	pH	2024/08/15			101	98 - 103			0.58	N/A		
9579188	Nitrate (N)	2024/08/16	100	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
9579188	Nitrite (N)	2024/08/16	103	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
9579204	Nitrate (N)	2024/08/16	91	80 - 120	91	80 - 120	<0.10	mg/L	NC	20		
9579204	Nitrite (N)	2024/08/16	105	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
9579217	Dissolved Bromide (Br-)	2024/08/16	99	80 - 120	99	80 - 120	<1.0	mg/L	NC	20		
9579232	Dissolved Chloride (Cl-)	2024/08/16	104	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
9579240	Dissolved Sulphate (SO4)	2024/08/16	106	75 - 125	104	80 - 120	<1.0	mg/L	3.8	20		
9579343	Nitrate (N)	2024/08/16	102	80 - 120	106	80 - 120	<0.10	mg/L	0.073	20		
9579343	Nitrite (N)	2024/08/16	103	80 - 120	105	80 - 120	<0.010	mg/L	2.6	20		
9579381	Dissolved Chloride (Cl-)	2024/08/20	97	80 - 120	96	80 - 120	<1.0	mg/L	NC	20		
9579386	Dissolved Sulphate (SO4)	2024/08/20	101	75 - 125	101	80 - 120	<1.0	mg/L	0.21	20		
9579484	Alkalinity (Total as CaCO3)	2024/08/15			98	85 - 115	<1.0	mg/L	1.4	20		
9579502	Conductivity	2024/08/15			100	85 - 115	0.000700	mS/cm	0.34	10		
9579508	Fluoride (F-)	2024/08/15	96	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		
9579511	pH	2024/08/15			102	98 - 103			1.2	N/A		
9579687	Total Suspended Solids	2024/08/16			99	80 - 120	<10	mg/L	NC	20		
9579864	Total Suspended Solids	2024/08/16			98	80 - 120	<10	mg/L	NC	20		
9579903	Dissolved Bromide (Br-)	2024/08/16	98	80 - 120	98	80 - 120	<1.0	mg/L	NC	20		
9579936	Dissolved Chloride (Cl-)	2024/08/16	NC	80 - 120	104	80 - 120	<1.0	mg/L	0.76	20		
9579943	Total Dissolved Solids	2024/08/16			100	80 - 120	<10	mg/L	15	20		
9579944	Dissolved Sulphate (SO4)	2024/08/16	NC	75 - 125	104	80 - 120	<1.0	mg/L	1.5	20		
9579958	Total Dissolved Solids	2024/08/17			100	80 - 120	<10	mg/L	11	20		
9580018	Total Dissolved Solids	2024/08/17			98	80 - 120	<10	mg/L	NC	20		
9580422	Dissolved Mercury (Hg)	2024/08/16	94	75 - 125	94	80 - 120	<0.10	ug/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9580900	Total Ammonia-N	2024/08/20	94	75 - 125	96	80 - 120	<0.050	mg/L	NC	20		
9581062	Total Ammonia-N	2024/08/19	89	75 - 125	96	80 - 120	<0.050	mg/L	NC	20		
9581240	Dissolved Chloride (Cl-)	2024/08/19	99	80 - 120	99	80 - 120	<1.0	mg/L	NC	20		
9581252	Dissolved Sulphate (SO4)	2024/08/19	99	75 - 125	99	80 - 120	<1.0	mg/L	1.8	20		
9581359	Total Ammonia-N	2024/08/19	93	75 - 125	96	80 - 120	<0.050	mg/L	NC	20		
9581374	Total Phosphorus	2024/08/17	95	80 - 120	97	80 - 120	<0.020	mg/L	NC	20	95	80 - 120
9581381	Total Phosphorus	2024/08/17	94	80 - 120	95	80 - 120	<0.020	mg/L	NC	20	93	80 - 120
9582990	Dissolved Mercury (Hg)	2024/08/19	109	75 - 125	106	80 - 120	<0.10	ug/L	NC	20		
9582991	Mercury (Hg)	2024/08/19	106	75 - 125	105	80 - 120	<0.00010	mg/L	NC	20		
9583069	Mercury (Hg)	2024/08/19	104	75 - 125	102	80 - 120	<0.00010	mg/L	NC	20		
9584257	Acidity	2024/08/19	77 (1)	80 - 120	103	80 - 120	<5.0	mg/L	NC	25		
9584794	Mercury (Hg)	2024/08/20	98	75 - 125	99	80 - 120	<0.00010	mg/L	NC	20		
9584814	Dissolved Mercury (Hg)	2024/08/20	93	75 - 125	98	80 - 120	<0.10	ug/L	NC	20		
9589371	Acidity	2024/08/21	81	80 - 120	104	80 - 120	<5.0	mg/L	NC	25		
9589686	Acidity	2024/08/21	100	80 - 120	103	80 - 120	<5.0	mg/L	NC	25		
9591664	Total Aluminum (Al)	2024/08/20	100	80 - 120	101	80 - 120	<3.0	ug/L				
9591664	Total Antimony (Sb)	2024/08/20	103	80 - 120	103	80 - 120	<0.50	ug/L				
9591664	Total Arsenic (As)	2024/08/20	106	80 - 120	103	80 - 120	<0.10	ug/L				
9591664	Total Barium (Ba)	2024/08/20	NC	80 - 120	100	80 - 120	<1.0	ug/L				
9591664	Total Beryllium (Be)	2024/08/20	103	80 - 120	102	80 - 120	<0.10	ug/L				
9591664	Total Bismuth (Bi)	2024/08/20	97	80 - 120	101	80 - 120	<1.0	ug/L				
9591664	Total Boron (B)	2024/08/20	104	80 - 120	107	80 - 120	<50	ug/L				
9591664	Total Cadmium (Cd)	2024/08/20	100	80 - 120	101	80 - 120	<0.010	ug/L				
9591664	Total Calcium (Ca)	2024/08/20	NC	80 - 120	106	80 - 120	<50	ug/L				
9591664	Total Chromium (Cr)	2024/08/20	95	80 - 120	98	80 - 120	<1.0	ug/L				
9591664	Total Cobalt (Co)	2024/08/20	92	80 - 120	96	80 - 120	<0.20	ug/L				
9591664	Total Copper (Cu)	2024/08/20	89	80 - 120	96	80 - 120	<0.50	ug/L				
9591664	Total Iron (Fe)	2024/08/20	NC	80 - 120	102	80 - 120	<10	ug/L				
9591664	Total Lead (Pb)	2024/08/20	97	80 - 120	99	80 - 120	<0.20	ug/L				
9591664	Total Lithium (Li)	2024/08/20	99	80 - 120	98	80 - 120	<2.0	ug/L				
9591664	Total Manganese (Mn)	2024/08/20	NC	80 - 120	101	80 - 120	<1.0	ug/L				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9591664	Total Molybdenum (Mo)	2024/08/20	108	80 - 120	106	80 - 120	<1.0	ug/L				
9591664	Total Nickel (Ni)	2024/08/20	94	80 - 120	101	80 - 120	<1.0	ug/L				
9591664	Total Potassium (K)	2024/08/20	105	80 - 120	106	80 - 120	<50	ug/L				
9591664	Total Selenium (Se)	2024/08/20	103	80 - 120	101	80 - 120	<0.10	ug/L				
9591664	Total Silicon (Si)	2024/08/20	103	80 - 120	106	80 - 120	<100	ug/L				
9591664	Total Silver (Ag)	2024/08/20	100	80 - 120	101	80 - 120	<0.020	ug/L				
9591664	Total Sodium (Na)	2024/08/20	104	80 - 120	106	80 - 120	<50	ug/L				
9591664	Total Strontium (Sr)	2024/08/20	NC	80 - 120	96	80 - 120	<1.0	ug/L				
9591664	Total Thallium (Tl)	2024/08/20	101	80 - 120	101	80 - 120	<0.010	ug/L				
9591664	Total Tin (Sn)	2024/08/20	101	80 - 120	102	80 - 120	<5.0	ug/L				
9591664	Total Titanium (Ti)	2024/08/20	105	80 - 120	104	80 - 120	<5.0	ug/L				
9591664	Total Uranium (U)	2024/08/20	105	80 - 120	104	80 - 120	<0.10	ug/L				
9591664	Total Vanadium (V)	2024/08/20	97	80 - 120	98	80 - 120	<5.0	ug/L				
9591664	Total Zinc (Zn)	2024/08/20	95	80 - 120	102	80 - 120	<5.0	ug/L				
9591664	Total Zirconium (Zr)	2024/08/20	109	80 - 120	106	80 - 120	<0.10	ug/L				
9591668	Total Aluminum (Al)	2024/08/19	99	80 - 120	100	80 - 120	<3.0	ug/L	1.6	20		
9591668	Total Antimony (Sb)	2024/08/19	101	80 - 120	101	80 - 120	<0.50	ug/L				
9591668	Total Arsenic (As)	2024/08/19	105	80 - 120	103	80 - 120	<0.10	ug/L	0.75	20		
9591668	Total Barium (Ba)	2024/08/19	99	80 - 120	98	80 - 120	<1.0	ug/L	1.3	20		
9591668	Total Beryllium (Be)	2024/08/19	107	80 - 120	108	80 - 120	<0.10	ug/L				
9591668	Total Bismuth (Bi)	2024/08/19	97	80 - 120	101	80 - 120	<1.0	ug/L				
9591668	Total Boron (B)	2024/08/19	107	80 - 120	107	80 - 120	<50	ug/L				
9591668	Total Cadmium (Cd)	2024/08/19	100	80 - 120	100	80 - 120	<0.010	ug/L	NC	20		
9591668	Total Calcium (Ca)	2024/08/19	NC	80 - 120	103	80 - 120	<50	ug/L				
9591668	Total Chromium (Cr)	2024/08/19	94	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
9591668	Total Cobalt (Co)	2024/08/19	93	80 - 120	95	80 - 120	<0.20	ug/L				
9591668	Total Copper (Cu)	2024/08/19	92	80 - 120	95	80 - 120	<0.50	ug/L	2.3	20		
9591668	Total Iron (Fe)	2024/08/19	99	80 - 120	99	80 - 120	<10	ug/L	4.0	20		
9591668	Total Lead (Pb)	2024/08/19	98	80 - 120	99	80 - 120	<0.20	ug/L	5.9	20		
9591668	Total Lithium (Li)	2024/08/19	98	80 - 120	104	80 - 120	<2.0	ug/L				
9591668	Total Manganese (Mn)	2024/08/19	98	80 - 120	101	80 - 120	<1.0	ug/L	1.9	20		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9591668	Total Molybdenum (Mo)	2024/08/19	108	80 - 120	105	80 - 120	<1.0	ug/L	0.15	20		
9591668	Total Nickel (Ni)	2024/08/19	96	80 - 120	100	80 - 120	<1.0	ug/L	2.5	20		
9591668	Total Potassium (K)	2024/08/19	NC	80 - 120	106	80 - 120	<50	ug/L				
9591668	Total Selenium (Se)	2024/08/19	100	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
9591668	Total Silicon (Si)	2024/08/19	100	80 - 120	105	80 - 120	<100	ug/L				
9591668	Total Silver (Ag)	2024/08/19	99	80 - 120	100	80 - 120	<0.020	ug/L	NC	20		
9591668	Total Sodium (Na)	2024/08/19	NC	80 - 120	105	80 - 120	<50	ug/L				
9591668	Total Strontium (Sr)	2024/08/19	NC	80 - 120	95	80 - 120	<1.0	ug/L				
9591668	Total Thallium (Tl)	2024/08/19	102	80 - 120	102	80 - 120	<0.010	ug/L	NC	20		
9591668	Total Tin (Sn)	2024/08/19	102	80 - 120	101	80 - 120	<5.0	ug/L				
9591668	Total Titanium (Ti)	2024/08/19	101	80 - 120	101	80 - 120	<5.0	ug/L				
9591668	Total Uranium (U)	2024/08/19	103	80 - 120	100	80 - 120	<0.10	ug/L				
9591668	Total Vanadium (V)	2024/08/19	96	80 - 120	95	80 - 120	<5.0	ug/L				
9591668	Total Zinc (Zn)	2024/08/19	97	80 - 120	104	80 - 120	<5.0	ug/L	0.52	20		
9591668	Total Zirconium (Zr)	2024/08/19	107	80 - 120	104	80 - 120	<0.10	ug/L				
9593024	Dissolved Aluminum (Al)	2024/08/20	100	80 - 120	98	80 - 120	<3.0	ug/L				
9593024	Dissolved Antimony (Sb)	2024/08/20	NC	80 - 120	100	80 - 120	<0.50	ug/L				
9593024	Dissolved Arsenic (As)	2024/08/20	104	80 - 120	97	80 - 120	<0.10	ug/L				
9593024	Dissolved Barium (Ba)	2024/08/20	NC	80 - 120	98	80 - 120	<1.0	ug/L				
9593024	Dissolved Beryllium (Be)	2024/08/20	103	80 - 120	98	80 - 120	<0.10	ug/L				
9593024	Dissolved Bismuth (Bi)	2024/08/20	98	80 - 120	97	80 - 120	<1.0	ug/L				
9593024	Dissolved Boron (B)	2024/08/20	105	80 - 120	102	80 - 120	<50	ug/L				
9593024	Dissolved Cadmium (Cd)	2024/08/20	100	80 - 120	97	80 - 120	<0.010	ug/L				
9593024	Dissolved Chromium (Cr)	2024/08/20	96	80 - 120	95	80 - 120	<1.0	ug/L				
9593024	Dissolved Cobalt (Co)	2024/08/20	94	80 - 120	95	80 - 120	<0.20	ug/L				
9593024	Dissolved Copper (Cu)	2024/08/20	94	80 - 120	96	80 - 120	<0.20	ug/L				
9593024	Dissolved Iron (Fe)	2024/08/20	101	80 - 120	100	80 - 120	<5.0	ug/L				
9593024	Dissolved Lead (Pb)	2024/08/20	100	80 - 120	97	80 - 120	<0.20	ug/L				
9593024	Dissolved Lithium (Li)	2024/08/20	101	80 - 120	95	80 - 120	<2.0	ug/L				
9593024	Dissolved Manganese (Mn)	2024/08/20	NC	80 - 120	98	80 - 120	<1.0	ug/L				
9593024	Dissolved Molybdenum (Mo)	2024/08/20	NC	80 - 120	102	80 - 120	<1.0	ug/L				

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9593024	Dissolved Nickel (Ni)	2024/08/20	97	80 - 120	99	80 - 120	<1.0	ug/L				
9593024	Dissolved Selenium (Se)	2024/08/20	101	80 - 120	95	80 - 120	<0.10	ug/L				
9593024	Dissolved Silicon (Si)	2024/08/20	95	80 - 120	104	80 - 120	<100	ug/L				
9593024	Dissolved Silver (Ag)	2024/08/20	101	80 - 120	99	80 - 120	<0.020	ug/L				
9593024	Dissolved Strontium (Sr)	2024/08/20	NC	80 - 120	93	80 - 120	<1.0	ug/L				
9593024	Dissolved Thallium (Tl)	2024/08/20	103	80 - 120	98	80 - 120	<0.010	ug/L				
9593024	Dissolved Tin (Sn)	2024/08/20	101	80 - 120	100	80 - 120	<5.0	ug/L				
9593024	Dissolved Titanium (Ti)	2024/08/20	101	80 - 120	98	80 - 120	<5.0	ug/L				
9593024	Dissolved Uranium (U)	2024/08/20	107	80 - 120	104	80 - 120	<0.10	ug/L				
9593024	Dissolved Vanadium (V)	2024/08/20	96	80 - 120	92	80 - 120	<5.0	ug/L				
9593024	Dissolved Zinc (Zn)	2024/08/20	105	80 - 120	97	80 - 120	<5.0	ug/L				
9593024	Dissolved Zirconium (Zr)	2024/08/20	105	80 - 120	100	80 - 120	<0.10	ug/L				
9594796	Dissolved Aluminum (Al)	2024/08/22			97	80 - 120	<3.0	ug/L				
9594796	Dissolved Barium (Ba)	2024/08/22			95	80 - 120	<1.0	ug/L				
9594796	Dissolved Copper (Cu)	2024/08/22			93	80 - 120	<0.20	ug/L				
9594796	Dissolved Iron (Fe)	2024/08/22			95	80 - 120	<5.0	ug/L				
9594796	Dissolved Manganese (Mn)	2024/08/22			97	80 - 120	<1.0	ug/L				
9595593	Dissolved Aluminum (Al)	2024/08/19	104	80 - 120	104	80 - 120	<3.0	ug/L				
9595593	Dissolved Antimony (Sb)	2024/08/19	104	80 - 120	104	80 - 120	<0.50	ug/L				
9595593	Dissolved Arsenic (As)	2024/08/19	109	80 - 120	105	80 - 120	<0.10	ug/L				
9595593	Dissolved Barium (Ba)	2024/08/19	105	80 - 120	103	80 - 120	<1.0	ug/L				
9595593	Dissolved Beryllium (Be)	2024/08/19	106	80 - 120	107	80 - 120	<0.10	ug/L				
9595593	Dissolved Bismuth (Bi)	2024/08/19	103	80 - 120	105	80 - 120	<1.0	ug/L				
9595593	Dissolved Boron (B)	2024/08/19	118	80 - 120	109	80 - 120	<50	ug/L				
9595593	Dissolved Cadmium (Cd)	2024/08/19	103	80 - 120	102	80 - 120	<0.010	ug/L				
9595593	Dissolved Chromium (Cr)	2024/08/19	100	80 - 120	99	80 - 120	<1.0	ug/L				
9595593	Dissolved Cobalt (Co)	2024/08/19	97	80 - 120	98	80 - 120	<0.20	ug/L				
9595593	Dissolved Copper (Cu)	2024/08/19	95	80 - 120	98	80 - 120	<0.20	ug/L				
9595593	Dissolved Iron (Fe)	2024/08/19	NC	80 - 120	101	80 - 120	<5.0	ug/L				
9595593	Dissolved Lead (Pb)	2024/08/19	100	80 - 120	102	80 - 120	<0.20	ug/L				
9595593	Dissolved Lithium (Li)	2024/08/19	108	80 - 120	104	80 - 120	<2.0	ug/L				

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9595593	Dissolved Manganese (Mn)	2024/08/19	NC	80 - 120	103	80 - 120	<1.0	ug/L				
9595593	Dissolved Molybdenum (Mo)	2024/08/19	114	80 - 120	108	80 - 120	<1.0	ug/L				
9595593	Dissolved Nickel (Ni)	2024/08/19	101	80 - 120	103	80 - 120	<1.0	ug/L				
9595593	Dissolved Selenium (Se)	2024/08/19	104	80 - 120	100	80 - 120	<0.10	ug/L				
9595593	Dissolved Silicon (Si)	2024/08/19	NC	80 - 120	105	80 - 120	<100	ug/L				
9595593	Dissolved Silver (Ag)	2024/08/19	102	80 - 120	103	80 - 120	<0.020	ug/L				
9595593	Dissolved Strontium (Sr)	2024/08/19	NC	80 - 120	98	80 - 120	<1.0	ug/L				
9595593	Dissolved Thallium (Tl)	2024/08/19	107	80 - 120	106	80 - 120	<0.010	ug/L				
9595593	Dissolved Tin (Sn)	2024/08/19	105	80 - 120	105	80 - 120	<5.0	ug/L				
9595593	Dissolved Titanium (Ti)	2024/08/19	107	80 - 120	104	80 - 120	<5.0	ug/L				
9595593	Dissolved Uranium (U)	2024/08/19	93	80 - 120	101	80 - 120	<0.10	ug/L				
9595593	Dissolved Vanadium (V)	2024/08/19	101	80 - 120	98	80 - 120	<5.0	ug/L				
9595593	Dissolved Zinc (Zn)	2024/08/19	100	80 - 120	106	80 - 120	<5.0	ug/L				
9595593	Dissolved Zirconium (Zr)	2024/08/19	110	80 - 120	106	80 - 120	<0.10	ug/L				
9595594	Total Aluminum (Al)	2024/08/19	102	80 - 120	101	80 - 120	<3.0	ug/L				
9595594	Total Antimony (Sb)	2024/08/19	102	80 - 120	101	80 - 120	<0.50	ug/L				
9595594	Total Arsenic (As)	2024/08/19	104	80 - 120	102	80 - 120	<0.10	ug/L				
9595594	Total Barium (Ba)	2024/08/19	98	80 - 120	98	80 - 120	<1.0	ug/L				
9595594	Total Beryllium (Be)	2024/08/19	107	80 - 120	103	80 - 120	<0.10	ug/L				
9595594	Total Bismuth (Bi)	2024/08/19	99	80 - 120	100	80 - 120	<1.0	ug/L				
9595594	Total Boron (B)	2024/08/19	110	80 - 120	103	80 - 120	<50	ug/L				
9595594	Total Cadmium (Cd)	2024/08/19	101	80 - 120	101	80 - 120	<0.010	ug/L				
9595594	Total Calcium (Ca)	2024/08/19	NC	80 - 120	102	80 - 120	<50	ug/L				
9595594	Total Chromium (Cr)	2024/08/19	97	80 - 120	96	80 - 120	<1.0	ug/L				
9595594	Total Cobalt (Co)	2024/08/19	95	80 - 120	96	80 - 120	<0.20	ug/L				
9595594	Total Copper (Cu)	2024/08/19	95	80 - 120	95	80 - 120	<0.50	ug/L				
9595594	Total Iron (Fe)	2024/08/19	97	80 - 120	98	80 - 120	<10	ug/L				
9595594	Total Lead (Pb)	2024/08/19	98	80 - 120	98	80 - 120	<0.20	ug/L				
9595594	Total Lithium (Li)	2024/08/19	103	80 - 120	100	80 - 120	<2.0	ug/L				
9595594	Total Manganese (Mn)	2024/08/19	101	80 - 120	101	80 - 120	<1.0	ug/L				
9595594	Total Molybdenum (Mo)	2024/08/19	106	80 - 120	102	80 - 120	<1.0	ug/L				

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9595594	Total Nickel (Ni)	2024/08/19	100	80 - 120	100	80 - 120	<1.0	ug/L				
9595594	Total Potassium (K)	2024/08/19	107	80 - 120	106	80 - 120	<50	ug/L				
9595594	Total Selenium (Se)	2024/08/19	102	80 - 120	100	80 - 120	<0.10	ug/L				
9595594	Total Silicon (Si)	2024/08/19	96	80 - 120	103	80 - 120	<100	ug/L				
9595594	Total Silver (Ag)	2024/08/19	100	80 - 120	100	80 - 120	<0.020	ug/L				
9595594	Total Sodium (Na)	2024/08/19	NC	80 - 120	105	80 - 120	<50	ug/L				
9595594	Total Strontium (Sr)	2024/08/19	NC	80 - 120	94	80 - 120	<1.0	ug/L				
9595594	Total Thallium (Tl)	2024/08/19	102	80 - 120	101	80 - 120	<0.010	ug/L				
9595594	Total Tin (Sn)	2024/08/19	101	80 - 120	100	80 - 120	<5.0	ug/L				
9595594	Total Titanium (Ti)	2024/08/19	104	80 - 120	102	80 - 120	<5.0	ug/L				
9595594	Total Uranium (U)	2024/08/19	98	80 - 120	98	80 - 120	<0.10	ug/L				
9595594	Total Vanadium (V)	2024/08/19	98	80 - 120	96	80 - 120	<5.0	ug/L				
9595594	Total Zinc (Zn)	2024/08/19	103	80 - 120	103	80 - 120	<5.0	ug/L				
9595594	Total Zirconium (Zr)	2024/08/19	104	80 - 120	101	80 - 120	<0.10	ug/L				
9606670	Total Yttrium (Y)	2024/08/21			93	80 - 120	<2.0	ug/L				
9606671	Dissolved Yttrium (Y)	2024/08/21			96	80 - 120	<2.0	ug/L				
9606672	Dissolved Yttrium (Y)	2024/08/21			93	80 - 120	<2.0	ug/L				
9606673	Total Yttrium (Y)	2024/08/21			97	80 - 120	<2.0	ug/L				
9606674	Dissolved Yttrium (Y)	2024/08/21			98	80 - 120	<2.0	ug/L				
9606675	Total Yttrium (Y)	2024/08/21			96	80 - 120	<2.0	ug/L				
9698602	Total Beryllium (Be)	2024/10/09	86	80 - 120	94	80 - 120	<0.010	ug/L	NC	20		
9698602	Total Selenium (Se)	2024/10/09	92	80 - 120	100	80 - 120	<0.040	ug/L	NC	20		
9701624	Dissolved Selenium (Se)	2024/10/08	104	80 - 120	100	80 - 120	<0.040	ug/L				
9701625	Total Beryllium (Be)	2024/10/08	91	80 - 120	97	80 - 120	<0.010	ug/L	NC	20		
9701625	Total Selenium (Se)	2024/10/08	97	80 - 120	100	80 - 120	<0.040	ug/L	NC	20		
9701626	Dissolved Selenium (Se)	2024/10/08	104	80 - 120	99	80 - 120	<0.040	ug/L				
9701627	Total Beryllium (Be)	2024/10/10	93	80 - 120	96	80 - 120	<0.010	ug/L				

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9701627	Total Selenium (Se)	2024/10/10	101	80 - 120	99	80 - 120	<0.040	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike exceeds acceptance limits, probable matrix interference.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ankita Bhalla, Project Manager

David Huang, BBY Scientific Specialist

Jonathan Fauvel, B.Sc, Chimiste, Scientific Specialist

Ernlie Publicover, Scientific Specialist

Louise Harding, Scientific Specialist

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Automated Statchk

VALIDATION SIGNATURE PAGE(CONT'D)

The analytical data and all QC contained in this report were reviewed and validated by:

reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page ___ of ___	
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COOLER OBSERVATIONS:

BV JOB#:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT		✓	TEMP	9	7	6
INTACT		✓		1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID 2			
PRESENT		✓	TEMP	6	6	5
INTACT		✓		1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID 3			
PRESENT		✓	TEMP	4	7	8
INTACT		✓		1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID 4			
PRESENT		✓	TEMP	7	8	5
INTACT		✓		1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID 5			
PRESENT		✓	TEMP	5	8	6
INTACT		✓		1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID 6			
PRESENT		✓	TEMP	6	8	9
INTACT		✓		1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID 7			
PRESENT		✓	TEMP	8	7	8
INTACT		✓		1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID 8			
PRESENT		✓	TEMP	8	9	9
INTACT		✓		1	2	3
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
[signature]	Shavon DeFonseca	2024/08/13	19:00

C4P0017
2024/08/13 19:00

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

NONT-2024-08-2820

RD

INVOICE TO:		REPORT TO:		PROJECT INF	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:	
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0038713.5261/4300.02
	Mississauga ON L5N 7K2			Project Name:	
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:	
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL

oratory Use Only:

Job #:	Bottle Order #:
	1003610
COC #:	Project Manager:
C#1003610-01-01	Ankita Bhalla

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals, Hg, Cr VI	Alkalinity/Anions/Conductivity/pH/Hardness	Chloride/Fluoride/Sulphate/NO23	Dissolved Organic Carbon (DOC)	Total Ammonia-N/Total Phosphorus/Un-ionized Ammonia	Total Dissolved Solids/TSS	Acidity (CaCO3) in water	Dissolved Mercury in Water by CVAA	Mercury in Water by CVAA	Total Extractable Lanthanides-waters	Dissolved Lanthanides- waters	# of Bottles	Comments
1		WC-05	24/08/02	1500	SW	Hg x1 Metals x1	X	X	X	X	X	X	X	X	X	X	10	
2		DUP-1	24/08/02	—	SW													
3		Mills LP2 1m	24/08/03	1100	SW													
4		Mills LP2 25m	24/08/03	1130	SW													
5		WC-03	24/08/03	1400	SW													
6		WC-04	24/08/03	1700	SW													
7		Mills LP 1m	24/08/04	1100	SW													
8		Mills LP 19m	24/08/04	1130	SW													
9		WC-10	24/08/04	1730	SW													
10		Riordan-02 1m	24/08/05	1600	SW													

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Adam Kennedy	24/08/13	18:15	Shaylon De Fonseka	2024/08/13	19:00	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei ACTR
Custody Seal Present ☐ Yes ☐ No
Intact ☐ ☐

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

C4P0017
2024/08/13 19:00

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			1003610
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0038713.5261/4300.02	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#1003610-01-02	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Site #:			
				Sampled By:	MH + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Diss. ICPMS Metals for Federal Int. GWOG (incl Ca, Na, K)	Total ICPMS Metals for CCME CEOG for SW (incl Ca, Na, K)	# of Bottles	Comments
1		WC-05	24/08/02	1500	SW	Hg×1 Metals×1	X	X	10	
2		DUP-1	24/08/02	←	SW					
3		Mills LP2 1m	24/08/03	1100	SW					
4		Mills LP2 25m	24/08/03	1130	SW					
5		WC-03	24/08/03	1400	SW					
6		~~WC-04~~	~~24/08/03~~	~~1700~~	~~SW~~					
7		Mills LP 1m	24/08/04	1100	SW					
8		Mills LP 19m	24/08/04	1130	SW					
9		WC-10	24/08/04	1730	SW					
10		Riordan-02 1m	24/08/05	1600	SW					

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
[signature] Robert Lemay	24/08/13	18:15	Sharon DeFonseca	2024/08/13	19:00	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	ACTR	Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

C4P0017
2024/08/13 19:00

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			1003610
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0038713.5261/4300.02		
	Mississauga ON L5N 7K2			Project Name:		COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:		C#1003610-02-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Alkalinity/Anions/Conductivity/pH/Hardness	Chloride/Fluoride/Sulphate/NO23	Dissolved Organic Carbon (DOC)	Total Ammonia-N/Total Phosphorus/Un-Ionized Ammonia	Total Dissolved Solids/TSS	Acidity (CaCO3) in water	Dissolved Mercury in Water by CVAA	Mercury in Water by CVAA	Total Extractable Lanthanides-waters	Dissolved Lanthanides- waters	# of Bottles	Comments
1		Riordan - 02 14m	24/08/05	1630	SW	Hg x1 Metals x1	X	X	X	X	X	X	X	X	X	X	10	
2		Riordan Outlet	24/08/05	1130	SW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3		Daviault - 01	24/08/05	1830	SW													
4		WC - 09	24/08/06	1100	SW													
5		Daviault Outlet	24/08/06	1530	SW													
6		~~WC-01~~	~~24/08/07~~	~~1600~~	~~SW~~													
7		Pike - 02 1m	24/08/08	1200	SW													
8		Pike - 02 8m	24/08/08	1230	SW													
9		WC - 02	24/08/08	1430	SW													
10		Molar 1m	24/08/08	1500	SW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
Adam Kennedy	24/08/13	18:15	Shavon DL FonSeca	2024/08/13	19:00			ACTR	Present		
									Intact		

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

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Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			1003610
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0038713.5261/4300.02	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#1003610-02-02	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Site #:			
				Sampled By:	MH + BL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558. ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality ____	
☐ Table ____	☐ PWQO ☐ Reg 406 Table ____	
	☐ Other ____	

Include Criteria on Certificate of Analysis (Y/N)? ____

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Diss. ICPMS Metals for Federal Int. GWQG (incl Ca, Na, K)	Total ICPMS Metals for CCME CEQG for SW (incl Ca, Na, K)	# of Bottles	Comments
1		Riordan - 02 14m	24/08/05	1630	SW	Hg < 1 metals < 1	X	X	10	
2		Riordan Outlet	24/08/05	1130	SW					
3		Daviault - 01	24/08/05	1830	SW					
4		WC - 09	24/08/06	1100	SW					
5		Daviault Outlet	24/08/06	1530	SW					
6		~~WC - 01~~	~~24/08/07~~	~~1600~~	~~SW~~					
7		Pike - 02 1m	24/08/08	1200	SW					
8		Pike - 02 8m	24/08/08	1230	SW					
9		WC - 02	24/08/08	1430	SW					
10		Motor 1m	24/08/07	1500	SW					

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Adrian Kennedy	24/08/13	18:15	Shayon DeFonseca	2024/08/13	19:00		Time Sensitive	Temperature (°C) on Recei ACTR	Custody Seal Present	Yes	No
									Intact		

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Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0038713.5261/4300.02	COC #: C#1003610-03-02	Project Manager: Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Site #:			
				Sampled By:	MH + BL, AK + HR		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Diss. ICPMS Metals for Federal Int. GW/OG (incl Ca, Na, K)	Total ICPMS Metals for CCME CEQG for SW (incl Ca, Na, K)	# of Bottles	Comments
1		Molar 27m	24/08/07	1530	SW	Hg x 1 Metals x 1	X	X	10	
2		WC-14	24/08/08	12:10						
3		WC-13	↓	15:30						
4		WC-06	24/08/09	11:00						
5		WC-07		12:25						
6		~~WC-08~~		~~16:40~~						
7		LL-2 S		14:45						
8		LL-2 D		16:10						
9		LL-3 S		17:30						
10		LL-3 D	↓	18:20	↓	↓	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
[signature] / Alexa Kennedy	24/08/13	18:15	ShaVon De Fonseka Bte	2024/08/13	19:00		Time Sensitive	Temperature (°C) on Recei ACTR	Custody Seal Present	Yes	No
									Intact		

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Address:	6925 Century Ave Suite 100	Address:		Project:	CA0038713.5261/4300.02	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#1003610-03-01	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Sampled By:	MH + BL, AK + HR		

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1		Molar 27 m	24/08/07	15:30	SW	Hg x1 metals x1	X	X	X	X	X	X	X	X	X	X	10	
2		WC-14	24/08/08	12:10	SW													
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7		LL-2 S		14:45	SW													
8		LL-2 D		16:10	SW													
9		LL-3 S		17:30	SW													
10		LL-3 D	↓	18:20	SW	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Adam Kennedy	24/08/13	18:15	Shavon DeFonseca	2024/08/13	19:00			ACTL	Intact		

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Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0038713.5261/4300.02	COC #: C#1003610-04-01	Project Manager: Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael.hildebrandt@wsp.com	Site #:			
				Sampled By:	AK & HR		

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1		Dup-2	24/08/09	—	SW	Hg x1 Metals x1	X	X	X	X	X	X	X	X	X	X	10	
2		Dup-3	↓	—	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3		DL - S	24/08/10	10:15	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4		DL - D	↓	10:40	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5		Blank	↓	—	Field Blank	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6		~~WC-16~~	~~24/08/11~~	~~10:20~~	~~SW~~													
7		WC-15	↓	15:25	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
8																		
9																		
10																		

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[signature] Adam Kennedy	24/08/13	15:15	Sharon De Fonseca	2024/08/13			Time Sensitive	Temperature (°C) on Recei: ACTR	Custody Seal Present	Yes	No
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				Sampled By:	AK + AR		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Diss. ICPMS Metals for Federal Int. GWQG (incl Ca, Na, K)	Total ICPMS Metals for CCME CEQG for SW (incl Ca, Na, K)	# of Bottles	Comments
1		Dup - 2	24/08/09	—	SW	Hg x 1 Metals x 1	X	X	10	
2		Dup - 3	↓	—						
3		DL - S	24/08/10	10:15						
4		DL - D		10:40	↓					
5		Blank	↓	—	Field Blank					
6		~~WC-16~~	~~24/08/11~~	~~10:20~~	~~SW~~					
7		WC-15	↓	15:25	↓	↓	↓	↓	↓	
8										
9										
10										

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
[signature] / Robert Kennedy	24/08/13	18:30	Sharon DeFossiux	2024/08/13			Time Sensitive	Temperature (°C) on Recei ACTL	Custody Seal Present	Yes	No
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Sent to: **Bureau Veritas Bedford**
200 Bluewater Rd Suite 105
Bedford, NS, B4B 1G9
Tel: (902) 832-4852

BUREAU VERITAS INTERLAB CHAIN OF CUSTODY RECORD

COC # C4P0017-301-01-01

REPORT INFORMATION	
Company:	Bureau Veritas
Address:	6740 Campobello Road, Mississauga, Ontario, L5N 2L8
Contact Name:	Ankita Bhalla
Email:	Ankita.Bhalla@bureauveritas.com, scontractor@bureauveritas.com
Phone:	
BV Project #:	C4P0017
Client Invoice To:	WSP Canada Inc. (1326)
Client Report To:	WSP Canada Inc. (1326)

ANALYSIS REQUESTED

Job Barcode Label

C4P0017

#	SAMPLE ID	MATRIX	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	SAMPLER INITIALS	# CONT.	Incl. on Report? Yes / No: Acidity (CaCO3) in water	ADDITIONAL SAMPLE INFORMATION
1	ZZN827-WC-05	SW	2024/08/02	15:00	AK	1	X	(P: 02)
2	ZZN828-DUP-1	SW	2024/08/02		AK	1	X	(P: 02)
3	ZZN829-MILLS LP2 1M	SW	2024/08/03	11:00	AK	1	X	(P: 02)
4	ZZN831-MILLSLP2 25M	SW	2024/08/03	11:30	AK	1	X	(P: 02)
5	ZZN832-WC-03	SW	2024/08/03	14:00	AK	1	X	(P: 02)
6	ZZN833-WC-04	SW	2024/08/03	17:00	AK	1	X	(P: 02)
7	ZZN834-MILLS LP 1M	SW	2024/08/04	11:00	AK	1	X	(P: 02)
8	ZZN835-MILLS LP 19M	SW	2024/08/04	11:30	AK	1	X	(P: 02)
9	ZZN836-WC-10	SW	2024/08/04	17:30	AK	1	X	(P: 02)
10	ZZN837-RIORDAN-02 1M	SW	2024/08/05	16:00	AK	1	X	(P: 02)

SITE LOCATION:

SITE #:

PROJECT #:
CA0038713.5261/4300.02

PO/AFE, TASK ORDER/SERVICE ORDER, LINE ITEM:

REGULATORY CRITERIA

SPECIAL INSTRUCTIONS
Please inform Bureau Veritas immediately if you are not accredited for the requested test(s) or the hold time is approaching.
Please return a copy of this form with the report.

REQUIRED EDDs
National Excel (N001)
Golder Mississauga Excel (O027)
OEC Excel (O036)
Golder EQUIS (N014)

TURNAROUND TIME
☐ Rush Required
2024/08/20
Date Required
Please inform us if rush charges will be incurred.

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present	✓			4	2	5

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present						

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present						

RECEIVING LAB USE ONLY
Bureau Veritas Job #
C4P0017

RELINQUISHED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	Samples Labelled By:	Labels Verified By:
1. NIRAL PATEL	2024/08/15	13:59	1. NAVREET			NP4	
2.			2.				

Sent to: **Bureau Veritas Bedford**
200 Bluewater Rd Suite 105
Bedford, NS, B4B 1G9
Tel: (902) 832-4852

BUREAU VERITAS INTERLAB CHAIN OF CUSTODY RECORD

COC # C4P0017-301-02-01

REPORT INFORMATION	
Company:	Bureau Veritas
Address:	6740 Campobello Road, Mississauga, Ontario, L5N 2L8
Contact Name:	Ankita Bhalla
Email:	Ankita.Bhalla@bureauveritas.com, scontractor@bureauveritas.com
Phone:	
BV Project #:	C4P0017
Client Invoice To:	WSP Canada Inc. (1326)
Client Report To:	WSP Canada Inc. (1326) Incl. on Report? Yes / No

#	SAMPLE ID	MATRIX	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	SAMPLER INITIALS	# CONT.	ANALYSIS REQUESTED: Acidity (CaCO3) in water	ADDITIONAL SAMPLE INFORMATION
1	ZZN838-RIORDAN-02 14M	SW	2024/08/05	16:30	AK	1	X	(P: 02)
2	ZZN839-ROORDAN OUTLET	SW	2024/08/05	11:30	AK	1	X	(P: 02)
3	ZZN840-DAVIAULT-01	SW	2024/08/05	18:30	AK	1	X	(P: 02)
4	ZZN841-WC-09	SW	2024/08/06	11:00	AK	1	X	(P: 02)
5	ZZN842-DAVIAULT OUTLET	SW	2024/08/06	15:30	AK	1	X	(P: 02)
6	ZZN843-WC-01	SW	2024/08/07	16:00	AK	1	X	(P: 02)
7	ZZN844-PIKE-02 1M	SW	2024/08/08	12:00	AK	1	X	(P: 02)
8	ZZN845-PIKE-02 8M	SW	2024/08/08	12:30	AK	1	X	(P: 02)
9	ZZN846-WC-02	SW	2024/08/08	14:30	AK	1	X	(P: 02)
10	ZZN847-MOLAR 1M	SW	2024/08/08	15:00	AK	1	X	(P: 02)

Job Barcode Label

C4P0017

2024 AUG 16 11:12

SITE LOCATION:

SITE #:

PROJECT #:
CA0038713.5261/4300.02

PO/AFE, TASK ORDER/SERVICE ORDER, LINE ITEM:

REGULATORY CRITERIA

SPECIAL INSTRUCTIONS
Please inform Bureau Veritas immediately if you are not accredited for the requested test(s) or the hold time is approaching.
Please return a copy of this form with the report.

REQUIRED EDDs
National Excel (N001)
Golder Mississauga Excel (O027)
OEC Excel (O036)
Golder EQUIS (N014)

TURNAROUND TIME
☐ Rush Required
2024/08/20
Date Required
Please inform us if rush charges will be incurred.

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present	✓					
				4	2	5

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present						

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present						

RECEIVING LAB USE ONLY
Bureau Veritas Job #
C4P0017

RELINQUISHED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	Samples Labelled By:	Labels Verified By:
1. See pg: 1			1. NAVREET KAUR				
2.			2.				

Sent to: **Bureau Veritas Bedford**
200 Bluewater Rd Suite 105
Bedford, NS, B4B 1G9
Tel: (902) 832-4852

BUREAU VERITAS INTERLAB CHAIN OF CUSTODY RECORD

COC # C4P0017-301-03-01

REPORT INFORMATION	
Company:	Bureau Veritas
Address:	6740 Campobello Road, Mississauga, Ontario, L5N 2L8
Contact Name:	Ankita Bhalla
Email:	Ankita.Bhalla@bureauveritas.com, scontractor@bureauveritas.com
Phone:	
BV Project #:	C4P0017
Client Invoice To:	WSP Canada Inc. (1326)
Client Report To:	WSP Canada Inc. (1326)

Incl. on Report? Yes / No

#	SAMPLE ID	MATRIX	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	SAMPLER INITIALS	# CONT.	ANALYSIS REQUESTED: Acidity (CaCO3) in water	ADDITIONAL SAMPLE INFORMATION
1	ZZN848-MOLAR 27M	SW	2024/08/07	15:30	AK	1	X	(P: 02)
2	ZZN849-WC-14	SW	2024/08/08	12:10	AK	1	X	(P: 02)
3	ZZN850-WC-13	SW	2024/08/08	15:30	AK	1	X	(P: 02)
4	ZZN851-WC-06	SW	2024/08/09	11:00	AK	1	X	(P: 02)
5	ZZN852-WC-07	SW	2024/08/09	12:25	AK	1	X	(P: 02)
6	ZZN853-WC-08	SW	2024/08/09	16:40	AK	1	X	(P: 02)
7	ZZN854-LL-2 S	SW	2024/08/09	14:45	AK	1	X	(P: 02)
8	ZZN855-LL-2 D	SW	2024/08/09	16:10	AK	1	X	(P: 02)
9	ZZN856-LL-3 S	SW	2024/08/09	17:30	AK	1	X	(P: 02)
10	ZZN857-LL-3 D	SW	2024/08/09	18:20	AK	1	X	(P: 02)

Job Barcode Label

C4P0017

2024 AUG 16 11:12

SITE LOCATION:

SITE #:

PROJECT #:
CA0038713.5261/4300.02

PO/AFE, TASK ORDER/SERVICE ORDER, LINE ITEM:

REGULATORY CRITERIA

SPECIAL INSTRUCTIONS
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REQUIRED EDDs
National Excel (N001)
Golder Mississauga Excel (O027)
OEC Excel (O036)
Golder EQUIS (N014)

TURNAROUND TIME
☐ Rush Required
2024/08/20
Date Required
Please inform us if rush charges will be incurred.

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present	✓					
				4	2	5

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present						

COOLER ID:	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present						

RECEIVING LAB USE ONLY

Bureau Veritas Job #
C4P0017

RELINQUISHED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	Samples Labelled By:	Labels Verified By:
1. See pg: 1			1. NAVREET KAUR				
2.			2. NK				

Sent to: **Bureau Veritas Bedford**

BUREAU VERITAS INTERLAB CHAIN OF CUSTODY RECORD

200 Bluewater Rd Suite 105
Bedford, NS, B4B 1G9
Tel: (902) 832-4852

COC # C4P0017-301-04-01

REPORT INFORMATION	
Company:	Bureau Veritas
Address:	6740 Campobello Road, Mississauga, Ontario, L5N 2L8
Contact Name:	Ankita Bhalla
Email:	Ankita.Bhalla@bureauveritas.com, scontractor@bureauveritas.com
Phone:	
BV Project #:	C4P0017
Client Invoice To:	WSP Canada Inc. (1326)
Client Report To:	WSP Canada Inc. (1326) Incl. on Report? Yes / No

ANALYSIS REQUESTED

Job Barcode Label

C4P0017

#	SAMPLE ID	MATRIX	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	SAMPLER INITIALS	# CONT.	Acidity (CaCO3) in water	ADDITIONAL SAMPLE INFORMATION
1	ZZN858-DUP-2	SW	2024/08/09		AK	1	X	(P: 02)
2	ZZN859-DUP-3	SW	2024/08/09		AK	1	X	(P: 02)
3	ZZN860-DL-S	SW	2024/08/10	10:15	AK	1	X	(P: 02)
4	ZZN861-DL-D	SW	2024/08/10	10:40	AK	1	X	(P: 02)
5	ZZN862-BLANK	SW	2024/08/10		AK	1	X	(P: 02)
6	ZZN863-WC-16	SW	2024/08/11	10:20	AK	1	X	(P: 02)
7	ZZN864-WC-15	SW	2024/08/11	15:25	AK	1	X	(P: 02)
8								
9								
10								

AUG 16 11:2

SITE LOCATION:

SITE #:

PROJECT #: CA0038713.5261/4300.02

PO/AFE, TASK ORDER/SERVICE ORDER, LINE ITEM:

REGULATORY CRITERIA

SPECIAL INSTRUCTIONS

Please inform Bureau Veritas immediately if you are not accredited for the requested test(s) or the hold time is approaching.
Please return a copy of this form with the report.

REQUIRED EDDs

National Excel (N001)
Golder Mississauga Excel (O027)
OEC Excel (O036)
Golder EQUIS (N014)

TURNAROUND TIME

☐ Rush Required

2024/08/20
Date Required

Please inform us if rush charges will be incurred.

COOLER ID:

	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present	✓					
				4	2	5

COOLER ID:

	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present						

COOLER ID:

	YES	NO	Temp: (°C)	1	2	3
Custody Seal Present						
Custody Seal Intact						
Cooling Media Present						

RECEIVING LAB USE ONLY

Bureau Veritas Job #

C4P0017

RELINQUISHED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	Samples Labelled By:	Labels Verified By:
1. See pg: 1			1. NAVREET KAUR				
2.			2.				

Your Project #: CA0003092.5894/500
Your C.O.C. #: 937563-01-01, 937563-02-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401235
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3H6669
Received: 2023/06/16, 19:09

Sample Matrix: Soil
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acid Extractable Metals by ICPMS	12	2023/06/22	2023/06/22	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2023/06/23	2023/06/23	CAM SOP-00447	EPA 6020B m
Texture by Hydrometer (1)	11	N/A	2023/06/28	AB SOP-00030	Carter 2nd ed 55.3 m
Texture Class (1)	11	N/A	2023/06/28		Auto Calc
Moisture	13	N/A	2023/06/21	CAM SOP-00445	Carter 2nd ed 51.2 m
Nitrogen	13	N/A	2023/06/23	CAM SOP-00460	EN0000:2003 TC WI
Nitrate & Nitrite as Nitrogen in Soil	13	2023/06/19	2023/06/19	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Calculated Total Kjeldahl Nitrogen	1	N/A	2023/06/23	Auto Calc.	
Calculated Total Kjeldahl Nitrogen	12	N/A	2023/06/26	Auto Calc.	
Total Organic Carbon in Soil	13	N/A	2023/06/23	CAM SOP-00468	BCMOE TOC Aug 2014

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 937563-01-01, 937563-02-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401235
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3H6669

Received: 2023/06/16, 19:09

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		WDB112		WDB113		WDB114	WDB116		
Sampling Date		2023/06/07 18:00		2023/06/08 15:30		2023/06/09 12:00	2023/06/09 15:00		
COC Number		937563-01-01		937563-01-01		937563-01-01	937563-01-01		
	UNITS	WC-10	QC Batch	WC-9	QC Batch	WC-08	WC-07	RDL	QC Batch
Inorganics									
Moisture	%	18	8743047	20	8742759	17	22	1.0	8743047
Nitrogen (N)	%	0.089	8744582	<0.010	8744582	0.029	<0.010	0.010	8744582
Total Organic Carbon	mg/kg	7300	8744562	3300	8744562	7100	25000	500	8744562
Calculated Total Kjeldahl Nitrogen	ug/g	890	8733646	<100	8733646	290	<100	100	8733646
Nitrite (N)	ug/g	<0.5	8735637	<0.5	8735637	<0.5	<0.5	0.5	8735637
Nitrate (N)	ug/g	<2	8735637	<2	8735637	<2	<2	2	8735637
Nitrate + Nitrite (N)	ug/g	<3	8735637	<3	8735637	<3	<3	3	8735637

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		WDB116			WDB118	WDB120	WDB122		
Sampling Date		2023/06/09 15:00			2023/06/10 12:00	2023/06/10 16:00	2023/06/12 12:30		
COC Number		937563-01-01			937563-01-01	937563-01-01	937563-01-01		
	UNITS	WC-07 Lab-Dup	RDL	QC Batch	WC-06	WC-05	WC-01	RDL	QC Batch
Inorganics									
Moisture	%				22	64	27	1.0	8743047
Nitrogen (N)	%				0.10	0.027	0.068	0.010	8744582
Total Organic Carbon	mg/kg				21000	37000	19000	500	8744562
Calculated Total Kjeldahl Nitrogen	ug/g				1000	270	680	100	8733646
Nitrite (N)	ug/g	<0.5	0.5	8735637	<0.5	<0.5	<0.5	0.5	8735637
Nitrate (N)	ug/g	<2	2	8735637	<2	<2	<2	2	8735637
Nitrate + Nitrite (N)	ug/g	<3	3	8735637	<3	<3	<3	3	8735637

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6669
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		WDB124			WDB124			WDB126		
Sampling Date		2023/06/12 15:00			2023/06/12 15:00			2023/06/12 17:25		
COC Number		937563-01-01			937563-01-01			937563-01-01		
	UNITS	WC-02	RDL	QC Batch	WC-02 Lab-Dup	RDL	QC Batch	PL-02	RDL	QC Batch
Inorganics										
Moisture	%	23	1.0	8742759				93	1.0	8743047
Nitrogen (N)	%	0.028	0.010	8744612	0.024	0.010	8744612	0.25	0.010	8744582
Total Organic Carbon	mg/kg	4100	500	8744562				150000	500	8744562
Calculated Total Kjeldahl Nitrogen	ug/g	280	100	8733646				2500	100	8733646
Nitrite (N)	ug/g	<0.5	0.5	8735637				<0.5	0.5	8735637
Nitrate (N)	ug/g	<2	2	8735637				<2	2	8735637
Nitrate + Nitrite (N)	ug/g	<3	3	8735637				<3	3	8735637

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		WDB127		WDB138	WDB139	WDB140		
Sampling Date		2023/06/13 13:15		2023/06/13 18:00	2023/06/14 09:50	2023/06/15 07:00		
COC Number		937563-01-01		937563-02-01	937563-02-01	937563-02-01		
	UNITS	WC-04	QC Batch	WC-03	MIL-02	LL-02	RDL	QC Batch
Inorganics								
Moisture	%	11	8742759	17	90	83	1.0	8743047
Nitrogen (N)	%	0.024	8744582	0.17	0.67	0.21	0.010	8744582
Total Organic Carbon	mg/kg	13000	8744562	7000	83000	39000	500	8744562
Calculated Total Kjeldahl Nitrogen	ug/g	240	8733646	1700	6700	2100	100	8733646
Nitrite (N)	ug/g	<0.5	8735637	<0.5	<0.5	<0.5	0.5	8735637
Nitrate (N)	ug/g	<2	8735637	<2	<2	<2	2	8735637
Nitrate + Nitrite (N)	ug/g	<3	8735637	<3	<3	<3	3	8735637

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		WDB112	WDB113	WDB114		WDB116	WDB116		
Sampling Date		2023/06/07 18:00	2023/06/08 15:30	2023/06/09 12:00		2023/06/09 15:00	2023/06/09 15:00		
COC Number		937563-01-01	937563-01-01	937563-01-01		937563-01-01	937563-01-01		
	UNITS	WC-10	WC-9	WC-08	RDL	WC-07	WC-07 Lab-Dup	RDL	QC Batch
Metals									
Acid Extractable Aluminum (Al)	ug/g	13000	5100	3100	50	2400	2400	50	8744881
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.20	<0.20	<0.20	0.20	8744881
Acid Extractable Arsenic (As)	ug/g	<1.0	1.2	<1.0	1.0	1.7	1.8	1.0	8744881
Acid Extractable Barium (Ba)	ug/g	64	430	51	0.50	900	920	0.50	8744881
Acid Extractable Beryllium (Be)	ug/g	0.22	<0.20	<0.20	0.20	<0.20	<0.20	0.20	8744881
Acid Extractable Bismuth (Bi)	ug/g	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	1.0	8744881
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	5.0	8744881
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.11	<0.10	0.10	0.27	0.40	0.10	8744881
Acid Extractable Calcium (Ca)	ug/g	4400	2700	2900	50	34000	35000	50	8744881
Acid Extractable Chromium (Cr)	ug/g	85	22	19	1.0	9.8	10	1.0	8744881
Acid Extractable Cobalt (Co)	ug/g	15	8.9	7.0	0.10	4.5	4.7	0.10	8744881
Acid Extractable Copper (Cu)	ug/g	34	5.4	4.4	0.50	3.2	3.4	0.50	8744881
Acid Extractable Iron (Fe)	ug/g	42000	33000	84000	50	47000	49000	50	8744881
Acid Extractable Lead (Pb)	ug/g	7.1	4.0	1.6	1.0	3.1	2.9	1.0	8744881
Acid Extractable Magnesium (Mg)	ug/g	9500	3000	2900	50	20000	20000	50	8744881
Acid Extractable Manganese (Mn)	ug/g	510	3000	1000	1.0	12000	12000	5.0	8744881
Acid Extractable Molybdenum (Mo)	ug/g	1.0	5.5	0.85	0.50	5.1	5.1	0.50	8744881
Acid Extractable Nickel (Ni)	ug/g	35	18	9.6	0.50	11	11	0.50	8744881
Acid Extractable Phosphorus (P)	ug/g	700	760	740	50	690	810	50	8744881
Acid Extractable Potassium (K)	ug/g	3200	1400	420	200	210	220	200	8744881
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	0.50	<0.50	<0.50	0.50	8744881
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	0.20	<0.20	<0.20	0.20	8744881
Acid Extractable Sodium (Na)	ug/g	56	100	<50	50	<50	<50	50	8744881
Acid Extractable Strontium (Sr)	ug/g	20	18	5.2	1.0	13	14	1.0	8744881
Acid Extractable Thallium (Tl)	ug/g	0.26	0.24	0.054	0.050	0.20	0.21	0.050	8744881
Acid Extractable Tin (Sn)	ug/g	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	1.0	8744881
Acid Extractable Uranium (U)	ug/g	1.6	1.2	1.2	0.050	2.2	2.2	0.050	8744881
Acid Extractable Vanadium (V)	ug/g	33	17	16	5.0	11	12	5.0	8744881
Acid Extractable Zinc (Zn)	ug/g	66	49	19	5.0	58	61	5.0	8744881
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	0.050	<0.050	<0.050	0.050	8744881

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		WDB118		WDB120		WDB122		WDB124		
Sampling Date		2023/06/10 12:00		2023/06/10 16:00		2023/06/12 12:30		2023/06/12 15:00		
COC Number		937563-01-01		937563-01-01		937563-01-01		937563-01-01		
	UNITS	WC-06	RDL	WC-05	RDL	WC-01	RDL	WC-02	RDL	QC Batch
Metals										
Acid Extractable Aluminum (Al)	ug/g	2000	250	6700	50	4100	50	2400	50	8744881
Acid Extractable Antimony (Sb)	ug/g	<1.0	1.0	<0.20	0.20	<0.20	0.20	<0.20	0.20	8744881
Acid Extractable Arsenic (As)	ug/g	6.8	5.0	<1.0	1.0	1.8	1.0	<1.0	1.0	8744881
Acid Extractable Barium (Ba)	ug/g	7000	2.5	58	0.50	1100	0.50	97	0.50	8744881
Acid Extractable Beryllium (Be)	ug/g	<1.0	1.0	<0.20	0.20	<0.20	0.20	<0.20	0.20	8744881
Acid Extractable Bismuth (Bi)	ug/g	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	8744881
Acid Extractable Boron (B)	ug/g	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	8744881
Acid Extractable Cadmium (Cd)	ug/g	<0.50	0.50	0.15	0.10	0.15	0.10	<0.10	0.10	8744881
Acid Extractable Calcium (Ca)	ug/g	9900	250	7200	50	4000	50	1400	50	8744881
Acid Extractable Chromium (Cr)	ug/g	10	5.0	39	1.0	19	1.0	8.8	1.0	8744881
Acid Extractable Cobalt (Co)	ug/g	7.1	0.50	6.6	0.10	7.6	0.10	2.1	0.10	8744881
Acid Extractable Copper (Cu)	ug/g	5.0	2.5	10	0.50	5.2	0.50	1.4	0.50	8744881
Acid Extractable Iron (Fe)	ug/g	170000	250	35000	50	32000	50	6400	50	8744881
Acid Extractable Lead (Pb)	ug/g	<5.0	5.0	5.0	1.0	2.9	1.0	1.7	1.0	8744881
Acid Extractable Magnesium (Mg)	ug/g	2900	250	6600	50	2300	50	1500	50	8744881
Acid Extractable Manganese (Mn)	ug/g	66000	50	300	1.0	23000	5.0	1900	1.0	8744881
Acid Extractable Molybdenum (Mo)	ug/g	73	2.5	1.2	0.50	14	0.50	1.7	0.50	8744881
Acid Extractable Nickel (Ni)	ug/g	20	2.5	17	0.50	19	0.50	6.1	0.50	8744881
Acid Extractable Phosphorus (P)	ug/g	670	250	780	50	710	50	310	50	8744881
Acid Extractable Potassium (K)	ug/g	<1000	1000	890	200	630	200	380	200	8744881
Acid Extractable Selenium (Se)	ug/g	<2.5	2.5	1.7	0.50	<0.50	0.50	<0.50	0.50	8744881
Acid Extractable Silver (Ag)	ug/g	<1.0	1.0	<0.20	0.20	<0.20	0.20	<0.20	0.20	8744881
Acid Extractable Sodium (Na)	ug/g	<250	250	75	50	<50	50	<50	50	8744881
Acid Extractable Strontium (Sr)	ug/g	37	5.0	11	1.0	20	1.0	10	1.0	8744881
Acid Extractable Thallium (Tl)	ug/g	2.1	0.25	0.084	0.050	0.54	0.050	0.11	0.050	8744881
Acid Extractable Tin (Sn)	ug/g	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	8744881
Acid Extractable Uranium (U)	ug/g	5.8	0.25	3.6	0.050	2.2	0.050	0.46	0.050	8744881
Acid Extractable Vanadium (V)	ug/g	<25	25	23	5.0	16	5.0	5.8	5.0	8744881
Acid Extractable Zinc (Zn)	ug/g	53	25	48	5.0	41	5.0	15	5.0	8744881
Acid Extractable Mercury (Hg)	ug/g	<0.25	0.25	<0.050	0.050	<0.050	0.050	<0.050	0.050	8744881

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		WDB126		WDB127	WDB138	WDB139		
Sampling Date		2023/06/12 17:25		2023/06/13 13:15	2023/06/13 18:00	2023/06/14 09:50		
COC Number		937563-01-01		937563-01-01	937563-02-01	937563-02-01		
	UNITS	PL-02	QC Batch	WC-04	WC-03	MIL-02	RDL	QC Batch
Metals								
Acid Extractable Aluminum (Al)	ug/g	11000	8747543	6900	4400	16000	50	8744881
Acid Extractable Antimony (Sb)	ug/g	<0.20	8747543	<0.20	<0.20	<0.20	0.20	8744881
Acid Extractable Arsenic (As)	ug/g	2.0	8747543	1.2	<1.0	1.2	1.0	8744881
Acid Extractable Barium (Ba)	ug/g	200	8747543	250	79	350	0.50	8744881
Acid Extractable Beryllium (Be)	ug/g	0.30	8747543	<0.20	<0.20	0.39	0.20	8744881
Acid Extractable Bismuth (Bi)	ug/g	<1.0	8747543	<1.0	<1.0	<1.0	1.0	8744881
Acid Extractable Boron (B)	ug/g	<5.0	8747543	<5.0	<5.0	<5.0	5.0	8744881
Acid Extractable Cadmium (Cd)	ug/g	0.45	8747543	0.22	<0.10	0.63	0.10	8744881
Acid Extractable Calcium (Ca)	ug/g	6600	8747543	3700	2000	6400	50	8744881
Acid Extractable Chromium (Cr)	ug/g	37	8747543	32	24	64	1.0	8744881
Acid Extractable Cobalt (Co)	ug/g	8.8	8747543	6.3	4.8	9.8	0.10	8744881
Acid Extractable Copper (Cu)	ug/g	21	8747543	13	2.9	27	0.50	8744881
Acid Extractable Iron (Fe)	ug/g	46000	8747543	29000	13000	32000	50	8744881
Acid Extractable Lead (Pb)	ug/g	21	8747543	7.0	2.8	11	1.0	8744881
Acid Extractable Magnesium (Mg)	ug/g	2500	8747543	4900	2900	5200	50	8744881
Acid Extractable Manganese (Mn)	ug/g	2000	8747543	4300	960	1700	1.0	8744881
Acid Extractable Molybdenum (Mo)	ug/g	5.3	8747543	5.2	2.0	5.5	0.50	8744881
Acid Extractable Nickel (Ni)	ug/g	24	8747543	21	11	35	0.50	8744881
Acid Extractable Phosphorus (P)	ug/g	2000	8747543	850	400	1400	50	8744881
Acid Extractable Potassium (K)	ug/g	930	8747543	3700	810	1800	200	8744881
Acid Extractable Selenium (Se)	ug/g	1.0	8747543	<0.50	<0.50	0.98	0.50	8744881
Acid Extractable Silver (Ag)	ug/g	0.24	8747543	<0.20	<0.20	0.37	0.20	8744881
Acid Extractable Sodium (Na)	ug/g	87	8747543	110	57	150	50	8744881
Acid Extractable Strontium (Sr)	ug/g	17	8747543	15	11	22	1.0	8744881
Acid Extractable Thallium (Tl)	ug/g	0.30	8747543	0.44	0.090	0.41	0.050	8744881
Acid Extractable Tin (Sn)	ug/g	<1.0	8747543	<1.0	<1.0	<1.0	1.0	8744881
Acid Extractable Uranium (U)	ug/g	6.1	8747543	3.4	1.1	12	0.050	8744881
Acid Extractable Vanadium (V)	ug/g	20	8747543	40	16	36	5.0	8744881
Acid Extractable Zinc (Zn)	ug/g	72	8747543	69	18	120	5.0	8744881
Acid Extractable Mercury (Hg)	ug/g	0.23	8747543	<0.050	<0.050	0.093	0.050	8744881

RDL = Reportable Detection Limit
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		WDB140		
Sampling Date		2023/06/15 07:00		
COC Number		937563-02-01		
	UNITS	LL-02	RDL	QC Batch
Metals				
Acid Extractable Aluminum (Al)	ug/g	30000	50	8744881
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8744881
Acid Extractable Arsenic (As)	ug/g	2.1	1.0	8744881
Acid Extractable Barium (Ba)	ug/g	1100	0.50	8744881
Acid Extractable Beryllium (Be)	ug/g	0.59	0.20	8744881
Acid Extractable Bismuth (Bi)	ug/g	<1.0	1.0	8744881
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8744881
Acid Extractable Cadmium (Cd)	ug/g	0.72	0.10	8744881
Acid Extractable Calcium (Ca)	ug/g	5600	50	8744881
Acid Extractable Chromium (Cr)	ug/g	70	1.0	8744881
Acid Extractable Cobalt (Co)	ug/g	31	0.10	8744881
Acid Extractable Copper (Cu)	ug/g	21	0.50	8744881
Acid Extractable Iron (Fe)	ug/g	140000	250	8744881
Acid Extractable Lead (Pb)	ug/g	13	1.0	8744881
Acid Extractable Magnesium (Mg)	ug/g	4800	50	8744881
Acid Extractable Manganese (Mn)	ug/g	15000	5.0	8744881
Acid Extractable Molybdenum (Mo)	ug/g	3.1	0.50	8744881
Acid Extractable Nickel (Ni)	ug/g	56	0.50	8744881
Acid Extractable Phosphorus (P)	ug/g	1300	50	8744881
Acid Extractable Potassium (K)	ug/g	1400	200	8744881
Acid Extractable Selenium (Se)	ug/g	1.0	0.50	8744881
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8744881
Acid Extractable Sodium (Na)	ug/g	92	50	8744881
Acid Extractable Strontium (Sr)	ug/g	17	1.0	8744881
Acid Extractable Thallium (Tl)	ug/g	0.68	0.050	8744881
Acid Extractable Tin (Sn)	ug/g	<1.0	1.0	8744881
Acid Extractable Uranium (U)	ug/g	17	0.050	8744881
Acid Extractable Vanadium (V)	ug/g	38	5.0	8744881
Acid Extractable Zinc (Zn)	ug/g	220	5.0	8744881
Acid Extractable Mercury (Hg)	ug/g	0.10	0.050	8744881

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6669
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

SUBCONTRACTED ANALYSIS (SOIL)

Bureau Veritas ID		WDB112			WDB112			WDB113	WDB114		
Sampling Date		2023/06/07 18:00			2023/06/07 18:00			2023/06/08 15:30	2023/06/09 12:00		
COC Number		937563-01-01			937563-01-01			937563-01-01	937563-01-01		
	UNITS	WC-10	RDL	QC Batch	WC-10 Lab-Dup	RDL	QC Batch	WC-9	WC-08	RDL	QC Batch
Physical Testing											
Clay	%	<2.0	2.0	8777964	<2.0	2.0	8777964	<2.0	<2.0	2.0	8777964
Sand	%	91	2.0	8777964	92	2.0	8777964	98	98	2.0	8777964
Silt	%	7.4	2.0	8777964	6.7	2.0	8777964	<2.0	<2.0	2.0	8777964
Texture	N/A	SAND	N/A	8777963				SAND	SAND	N/A	8777963

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas ID		WDB116	WDB118	WDB120	WDB122	WDB124	WDB127		
Sampling Date		2023/06/09 15:00	2023/06/10 12:00	2023/06/10 16:00	2023/06/12 12:30	2023/06/12 15:00	2023/06/13 13:15		
COC Number		937563-01-01	937563-01-01	937563-01-01	937563-01-01	937563-01-01	937563-01-01		
	UNITS	WC-07	WC-06	WC-05	WC-01	WC-02	WC-04	RDL	QC Batch
Physical Testing									
Clay	%	2.4	<2.0	2.4	3.1	<2.0	<2.0	2.0	8777964
Sand	%	93	97	73	93	97	97	2.0	8777964
Silt	%	4.9	<2.0	25	3.9	<2.0	<2.0	2.0	8777964
Texture	N/A	SAND	SAND	LOAMY SAND	SAND	SAND	SAND	N/A	8777963

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		WDB138	WDB140		
Sampling Date		2023/06/13 18:00	2023/06/15 07:00		
COC Number		937563-02-01	937563-02-01		
	UNITS	WC-03	LL-02	RDL	QC Batch
Physical Testing					
Clay	%	<2.0	2.6	2.0	8777964
Sand	%	97	74	2.0	8777964
Silt	%	2.0	24	2.0	8777964
Texture	N/A	SAND	LOAMY SAND	N/A	8777963

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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TEST SUMMARY

Bureau Veritas ID: WDB112 **Collected:** 2023/06/07
Sample ID: WC-10 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB112 Dup **Collected:** 2023/06/07
Sample ID: WC-10 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol

Bureau Veritas ID: WDB113 **Collected:** 2023/06/08
Sample ID: WC-9 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8742759	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB114 **Collected:** 2023/06/09
Sample ID: WC-08 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDB116 **Collected:** 2023/06/09
Sample ID: WC-07 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB116 Dup **Collected:** 2023/06/09
Sample ID: WC-07 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal

Bureau Veritas ID: WDB118 **Collected:** 2023/06/10
Sample ID: WC-06 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB120 **Collected:** 2023/06/10
Sample ID: WC-05 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDB122 **Collected:** 2023/06/12
Sample ID: WC-01 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB124 **Collected:** 2023/06/12
Sample ID: WC-02 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8742759	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744612	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/23	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB124 Dup **Collected:** 2023/06/12
Sample ID: WC-02 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen	COMB	8744612	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB126 **Collected:** 2023/06/12
Sample ID: PL-02 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8747543	2023/06/23	2023/06/23	Indira HarryPaul
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WDB127 **Collected:** 2023/06/13
Sample ID: WC-04 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8742759	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB138 **Collected:** 2023/06/13
Sample ID: WC-03 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB139 **Collected:** 2023/06/14
Sample ID: MIL-02 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

Bureau Veritas ID: WDB140 **Collected:** 2023/06/15
Sample ID: LL-02 **Shipped:**
Matrix: Soil **Received:** 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8744881	2023/06/22	2023/06/22	Thuy Linh Nguyen
Texture by Hydrometer		8777964	N/A	2023/06/28	Randeep Deol
Texture Class	CALC	8777963	N/A	2023/06/28	Automated Statchk
Moisture	BAL	8743047	N/A	2023/06/21	Shivani Desai
Nitrogen	COMB	8744582	N/A	2023/06/23	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3H6669
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: WDB140
Sample ID: LL-02
Matrix: Soil

Collected: 2023/06/15
Shipped:
Received: 2023/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Soil	LACH	8735637	2023/06/19	2023/06/19	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8733646	N/A	2023/06/26	Automated Statchk
Total Organic Carbon in Soil	COMB	8744562	N/A	2023/06/23	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

Sample WDB118 [WC-06] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8735637	Nitrate (N)	2023/06/19	96	N/A			<2	ug/g	NC	30		
8735637	Nitrate + Nitrite (N)	2023/06/19	96	N/A			<3	ug/g	NC	30	92	75 - 125
8735637	Nitrite (N)	2023/06/19	98	N/A			<0.5	ug/g	NC	30		
8742759	Moisture	2023/06/21							1.5	20		
8743047	Moisture	2023/06/21							0.76	20		
8744562	Total Organic Carbon	2023/06/23					<500	mg/kg	4.5	35	98	75 - 125
8744582	Nitrogen (N)	2023/06/23					<0.010	%	6.4	35	95	90 - 110
8744612	Nitrogen (N)	2023/06/23					<0.010	%	17	35	97	90 - 110
8744881	Acid Extractable Aluminum (Al)	2023/06/22	NC	75 - 125	99	80 - 120	<50	ug/g	1.5	30		
8744881	Acid Extractable Antimony (Sb)	2023/06/22	96	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
8744881	Acid Extractable Arsenic (As)	2023/06/22	95	75 - 125	101	80 - 120	<1.0	ug/g	2.9	30		
8744881	Acid Extractable Barium (Ba)	2023/06/22	NC	75 - 125	99	80 - 120	<0.50	ug/g	1.8	30		
8744881	Acid Extractable Beryllium (Be)	2023/06/22	94	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
8744881	Acid Extractable Bismuth (Bi)	2023/06/22	97	75 - 125	102	80 - 120	<1.0	ug/g	NC	30		
8744881	Acid Extractable Boron (B)	2023/06/22	93	75 - 125	101	80 - 120	<5.0	ug/g	NC	30		
8744881	Acid Extractable Cadmium (Cd)	2023/06/22	97	75 - 125	101	80 - 120	<0.10	ug/g	NC	30		
8744881	Acid Extractable Calcium (Ca)	2023/06/22	NC	75 - 125	107	80 - 120	<50	ug/g	2.3	30		
8744881	Acid Extractable Chromium (Cr)	2023/06/22	95	75 - 125	101	80 - 120	<1.0	ug/g	5.5	30		
8744881	Acid Extractable Cobalt (Co)	2023/06/22	94	75 - 125	101	80 - 120	<0.10	ug/g	3.9	30		
8744881	Acid Extractable Copper (Cu)	2023/06/22	93	75 - 125	100	80 - 120	<0.50	ug/g	6.3	30		
8744881	Acid Extractable Iron (Fe)	2023/06/22	NC	75 - 125	101	80 - 120	<50	ug/g	4.4	30		
8744881	Acid Extractable Lead (Pb)	2023/06/22	98	75 - 125	104	80 - 120	<1.0	ug/g	5.8	30		
8744881	Acid Extractable Magnesium (Mg)	2023/06/22	NC	75 - 125	99	80 - 120	<50	ug/g	2.0	30		
8744881	Acid Extractable Manganese (Mn)	2023/06/22	NC	75 - 125	100	80 - 120	<1.0	ug/g	1.4	30		
8744881	Acid Extractable Mercury (Hg)	2023/06/22	99	75 - 125	104	80 - 120	<0.050	ug/g	NC	30		
8744881	Acid Extractable Molybdenum (Mo)	2023/06/22	99	75 - 125	98	80 - 120	<0.50	ug/g	0.12	30		
8744881	Acid Extractable Nickel (Ni)	2023/06/22	94	75 - 125	103	80 - 120	<0.50	ug/g	1.3	30		
8744881	Acid Extractable Phosphorus (P)	2023/06/22	NC	75 - 125	107	80 - 120	<50	ug/g	15	30		
8744881	Acid Extractable Potassium (K)	2023/06/22	93	75 - 125	96	80 - 120	<200	ug/g	3.1	30		
8744881	Acid Extractable Selenium (Se)	2023/06/22	95	75 - 125	101	80 - 120	<0.50	ug/g	NC	30		
8744881	Acid Extractable Silver (Ag)	2023/06/22	98	75 - 125	102	80 - 120	<0.20	ug/g	NC	30		

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8744881	Acid Extractable Sodium (Na)	2023/06/22	96	75 - 125	100	80 - 120	<50	ug/g	NC	30		
8744881	Acid Extractable Strontium (Sr)	2023/06/22	97	75 - 125	100	80 - 120	<1.0	ug/g	9.1	30		
8744881	Acid Extractable Thallium (Tl)	2023/06/22	99	75 - 125	106	80 - 120	<0.050	ug/g	5.4	30		
8744881	Acid Extractable Tin (Sn)	2023/06/22	95	75 - 125	98	80 - 120	<1.0	ug/g	NC	30		
8744881	Acid Extractable Uranium (U)	2023/06/22	99	75 - 125	104	80 - 120	<0.050	ug/g	2.2	30		
8744881	Acid Extractable Vanadium (V)	2023/06/22	93	75 - 125	98	80 - 120	<5.0	ug/g	6.1	30		
8744881	Acid Extractable Zinc (Zn)	2023/06/22	NC	75 - 125	102	80 - 120	<5.0	ug/g	4.5	30		
8747543	Acid Extractable Aluminum (Al)	2023/06/23	NC	75 - 125	102	80 - 120	<50	ug/g				
8747543	Acid Extractable Antimony (Sb)	2023/06/23	93	75 - 125	98	80 - 120	<0.20	ug/g	NC	30		
8747543	Acid Extractable Arsenic (As)	2023/06/23	99	75 - 125	104	80 - 120	<1.0	ug/g	14	30		
8747543	Acid Extractable Barium (Ba)	2023/06/23	NC	75 - 125	103	80 - 120	<0.50	ug/g	6.8	30		
8747543	Acid Extractable Beryllium (Be)	2023/06/23	99	75 - 125	102	80 - 120	<0.20	ug/g	6.1	30		
8747543	Acid Extractable Bismuth (Bi)	2023/06/23	96	75 - 125	100	80 - 120	<1.0	ug/g				
8747543	Acid Extractable Boron (B)	2023/06/23	91	75 - 125	98	80 - 120	<5.0	ug/g	13	30		
8747543	Acid Extractable Cadmium (Cd)	2023/06/23	96	75 - 125	100	80 - 120	<0.10	ug/g	NC	30		
8747543	Acid Extractable Calcium (Ca)	2023/06/23	NC	75 - 125	109	80 - 120	<50	ug/g				
8747543	Acid Extractable Chromium (Cr)	2023/06/23	99	75 - 125	103	80 - 120	<1.0	ug/g	12	30		
8747543	Acid Extractable Cobalt (Co)	2023/06/23	94	75 - 125	102	80 - 120	<0.10	ug/g	1.9	30		
8747543	Acid Extractable Copper (Cu)	2023/06/23	93	75 - 125	102	80 - 120	<0.50	ug/g	5.0	30		
8747543	Acid Extractable Iron (Fe)	2023/06/23	NC	75 - 125	104	80 - 120	<50	ug/g				
8747543	Acid Extractable Lead (Pb)	2023/06/23	97	75 - 125	104	80 - 120	<1.0	ug/g	0.53	30		
8747543	Acid Extractable Magnesium (Mg)	2023/06/23	NC	75 - 125	102	80 - 120	<50	ug/g				
8747543	Acid Extractable Manganese (Mn)	2023/06/23	NC	75 - 125	98	80 - 120	<1.0	ug/g				
8747543	Acid Extractable Mercury (Hg)	2023/06/23	95	75 - 125	103	80 - 120	<0.050	ug/g	NC	30		
8747543	Acid Extractable Molybdenum (Mo)	2023/06/23	98	75 - 125	101	80 - 120	<0.50	ug/g	3.7	30		
8747543	Acid Extractable Nickel (Ni)	2023/06/23	94	75 - 125	102	80 - 120	<0.50	ug/g	2.6	30		
8747543	Acid Extractable Phosphorus (P)	2023/06/23	NC	75 - 125	106	80 - 120	<50	ug/g				
8747543	Acid Extractable Potassium (K)	2023/06/23	NC	75 - 125	98	80 - 120	<200	ug/g				
8747543	Acid Extractable Selenium (Se)	2023/06/23	98	75 - 125	105	80 - 120	<0.50	ug/g	NC	30		
8747543	Acid Extractable Silver (Ag)	2023/06/23	98	75 - 125	103	80 - 120	<0.20	ug/g	NC	30		
8747543	Acid Extractable Sodium (Na)	2023/06/23	NC	75 - 125	107	80 - 120	<50	ug/g				

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8747543	Acid Extractable Strontium (Sr)	2023/06/23	NC	75 - 125	99	80 - 120	<1.0	ug/g				
8747543	Acid Extractable Thallium (Tl)	2023/06/23	97	75 - 125	105	80 - 120	<0.050	ug/g	1.5	30		
8747543	Acid Extractable Tin (Sn)	2023/06/23	97	75 - 125	98	80 - 120	<1.0	ug/g				
8747543	Acid Extractable Uranium (U)	2023/06/23	100	75 - 125	104	80 - 120	<0.050	ug/g	7.7	30		
8747543	Acid Extractable Vanadium (V)	2023/06/23	92	75 - 125	100	80 - 120	<5.0	ug/g	9.8	30		
8747543	Acid Extractable Zinc (Zn)	2023/06/23	NC	75 - 125	104	80 - 120	<5.0	ug/g	8.6	30		
8777964	Clay	2023/06/28							NC	30	95	75 - 125
8777964	Sand	2023/06/28							0.91	30	99	75 - 125
8777964	Silt	2023/06/28							11	30	108	75 - 125

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Supervisor-Afternoon Shift

Sandy Yuan, M.Sc., QP, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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Page of

16-Jun-23 19:09
Ankita Bhalla
C3H6669

Bottle Order #: 937563

Project Manager: Ankita Bhalla

C#937563-01-01

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:	
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500
	Mississauga ON L5N 7K2			Project Name:	
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:	
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com, brian.lingelbach@ws	Sampled By:	Michael Hildebrandt + Brian Lingelbach

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ___
- ☐ PWQO ☐ Reg 406 Table ___
- ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Total Organic Carbon in Soil	Total Kjeldahl Nitrogen/Nitrate/Nitrite/Nitrogen	Acid Extractable Metals by ICPMS	Texture by Hydrometer	# of Bottles	Comments
1		WC-10	2023/06/07	18:00	Sed		X	X	X	X	2	Sed = Sediment
2		WC-9	2023/06/08	15:30	Sed							
3		WC-08	2023/06/09	12:00	Sed							
4		WC-07	2023/06/09	15:00	Sed							
5		WC-06	2023/06/10	12:00	Sed							
6		WC-05	2023/06/10	16:00	Sed							
7		WC-01	2023/06/12	12:30	Sed							
8		WC-02	2023/06/12	15:00	Sed							
9		Pike-02	2023/06/12	17:25	Sed							
10		WC-04	2023/06/13	13:15	Sed							

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/06/16	19:00	RAJ MASANI	2023/06/16	19:09	

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 17 17 U | Custody Seal Present ✓ Intact | Yes ✓ | No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
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Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			937563
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#937563-02-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com, brian.lingelbach@ws	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ___
- ☐ PWQO ☐ Reg 406 Table ___
- ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Total Organic Carbon in Soil	Total Kjeldahl Nitrogen/Nitrate/Nitrite/Nitrogen	Acid Extractable Metals by ICPMS	Texture by Hydrometer						# of Bottles	Comments
1		WC-03	2023/06/13	18:00	Sed		X	X	X	X						2	Sed = Sediment
2		Mills SS	2023/06/14	9:50	Sed		X	X	X	X						2	
3		Long-02 SS	2023/06/15	7:00	Sed		X	X	X	X						2	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/06/16	19:00	RAJ MACAN2	2023/06/16	1909	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	1 1 4	Present	✓	
		Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945900-02-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401234
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P1634
Received: 2023/08/18, 14:33

Sample Matrix: Sediment
Samples Received: 19

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acid Extractable Metals by ICPMS	19	2023/08/25	2023/08/25	CAM SOP-00447	EPA 6020B m
Texture by Hydrometer (1)	5	N/A	2023/08/28	AB SOP-00030	Carter 2nd ed 55.3 m
Texture by Hydrometer (1)	14	N/A	2023/08/29	AB SOP-00030	Carter 2nd ed 55.3 m
Texture Class (1)	5	N/A	2023/08/28		Auto Calc
Texture Class (1)	14	N/A	2023/08/29		Auto Calc
Moisture	19	N/A	2023/08/24	CAM SOP-00445	Carter 2nd ed 51.2 m
Nitrogen	19	N/A	2023/08/24	CAM SOP-00460	EN0000:2003 TC WI
Nitrate & Nitrite as Nitrogen in Soil	1	2023/08/25	2023/08/27	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Soil	18	2023/08/25	2023/08/28	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Calculated Total Kjeldahl Nitrogen	19	N/A	2023/08/28	Auto Calc.	
Total Organic Carbon in Soil	19	N/A	2023/08/25	CAM SOP-00468	BCMOE TOC Aug 2014

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Your Project #: CA0003092.5894/500
Your C.O.C. #: 945900-02-01

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Report Date: 2024/11/12
Report #: R8401234
Version: 4 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3P1634

Received: 2023/08/18, 14:33

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		WSS867		WSS868			WSS869		
Sampling Date		2023/08/09 18:30		2023/08/10 13:30			2023/08/10 15:45		
COC Number		945900-02-01		945900-02-01			945900-02-01		
	UNITS	DL-02	QC Batch	WC-05	RDL	QC Batch	WC-06	RDL	QC Batch
Metals									
Acid Extractable Aluminum (Al)	ug/g	14000	8876247	7900	50	8876346	1400	50	8876346
Acid Extractable Antimony (Sb)	ug/g	<0.20	8876247	<0.20	0.20	8876346	<0.20	0.20	8876346
Acid Extractable Arsenic (As)	ug/g	2.1	8876247	<1.0	1.0	8876346	1.6	1.0	8876346
Acid Extractable Barium (Ba)	ug/g	370	8876247	69	0.50	8876346	840	0.50	8876346
Acid Extractable Beryllium (Be)	ug/g	0.33	8876247	0.21	0.20	8876346	<0.20	0.20	8876346
Acid Extractable Bismuth (Bi)	ug/g	<1.0	8876247	<1.0	1.0	8876346	<1.0	1.0	8876346
Acid Extractable Boron (B)	ug/g	<5.0	8876247	<5.0	5.0	8876346	<5.0	5.0	8876346
Acid Extractable Cadmium (Cd)	ug/g	0.61	8876247	0.18	0.10	8876346	<0.10	0.10	8876346
Acid Extractable Calcium (Ca)	ug/g	5100	8876247	9300	50	8876346	3100	50	8876346
Acid Extractable Chromium (Cr)	ug/g	44	8876247	43	1.0	8876346	12	1.0	8876346
Acid Extractable Cobalt (Co)	ug/g	11	8876247	6.8	0.10	8876346	3.3	0.10	8876346
Acid Extractable Copper (Cu)	ug/g	27	8876247	11	0.50	8876346	1.7	0.50	8876346
Acid Extractable Iron (Fe)	ug/g	30000	8876247	36000	50	8876346	65000	50	8876346
Acid Extractable Lead (Pb)	ug/g	31	8876247	7.2	1.0	8876346	1.1	1.0	8876346
Acid Extractable Magnesium (Mg)	ug/g	3000	8876247	8000	50	8876346	1100	50	8876346
Acid Extractable Manganese (Mn)	ug/g	4600	8876247	460	1.0	8876346	10000	5.0	8938127
Acid Extractable Molybdenum (Mo)	ug/g	12	8876247	1.2	0.50	8876346	9.4	0.50	8876346
Acid Extractable Nickel (Ni)	ug/g	29	8876247	19	0.50	8876346	5.9	0.50	8876346
Acid Extractable Phosphorus (P)	ug/g	2000	8876247	780	50	8876346	580	50	8876346
Acid Extractable Potassium (K)	ug/g	1300	8876247	920	200	8876346	<200	200	8876346
Acid Extractable Selenium (Se)	ug/g	0.91	8876247	1.3	0.50	8876346	<0.50	0.50	8876346
Acid Extractable Silver (Ag)	ug/g	0.41	8876247	<0.20	0.20	8876346	<0.20	0.20	8876346
Acid Extractable Sodium (Na)	ug/g	140	8876247	85	50	8876346	<50	50	8876346
Acid Extractable Strontium (Sr)	ug/g	26	8876247	14	1.0	8876346	9.2	1.0	8876346
Acid Extractable Thallium (Tl)	ug/g	0.29	8876247	0.088	0.050	8876346	0.24	0.050	8876346
Acid Extractable Tin (Sn)	ug/g	1.1	8876247	<1.0	1.0	8876346	<1.0	1.0	8876346
Acid Extractable Uranium (U)	ug/g	6.6	8876247	2.7	0.050	8876346	1.2	0.050	8876346
Acid Extractable Vanadium (V)	ug/g	31	8876247	24	5.0	8876346	11	5.0	8876346
Acid Extractable Zinc (Zn)	ug/g	91	8876247	59	5.0	8876346	15	5.0	8876346
Acid Extractable Mercury (Hg)	ug/g	0.15	8876247	<0.050	0.050	8876346	<0.050	0.050	8876346

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		WSS870	WSS871	WSS872	WSS873		
Sampling Date		2023/08/10 17:00	2023/08/10 17:15	2023/08/11 15:00	2023/08/11 18:45		
COC Number		945900-02-01	945900-02-01	945900-02-01	945900-02-01		
	UNITS	WC-07	WC-08	WC-02	WC-12	RDL	QC Batch
Metals							
Acid Extractable Aluminum (Al)	ug/g	3000	3100	3700	3900	50	8876346
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	8876346
Acid Extractable Arsenic (As)	ug/g	<1.0	<1.0	<1.0	<1.0	1.0	8876346
Acid Extractable Barium (Ba)	ug/g	85	84	25	41	0.50	8876346
Acid Extractable Beryllium (Be)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	8876346
Acid Extractable Bismuth (Bi)	ug/g	<1.0	<1.0	<1.0	<1.0	1.0	8876346
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	<5.0	5.0	8876346
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	<0.10	0.10	8876346
Acid Extractable Calcium (Ca)	ug/g	6900	2500	1700	1100	50	8876346
Acid Extractable Chromium (Cr)	ug/g	14	16	15	20	1.0	8876346
Acid Extractable Cobalt (Co)	ug/g	2.9	5.1	2.3	2.9	0.10	8876346
Acid Extractable Copper (Cu)	ug/g	1.7	3.8	1.6	7.2	0.50	8876346
Acid Extractable Iron (Fe)	ug/g	25000	49000	10000	8500	50	8876346
Acid Extractable Lead (Pb)	ug/g	1.5	1.7	1.8	2.8	1.0	8876346
Acid Extractable Magnesium (Mg)	ug/g	5200	2900	2400	2900	50	8876346
Acid Extractable Manganese (Mn)	ug/g	1600	1500	180	130	1.0	8876346
Acid Extractable Molybdenum (Mo)	ug/g	1.0	0.92	1.4	<0.50	0.50	8876346
Acid Extractable Nickel (Ni)	ug/g	7.7	9.2	7.0	10	0.50	8876346
Acid Extractable Phosphorus (P)	ug/g	480	520	440	200	50	8876346
Acid Extractable Potassium (K)	ug/g	270	470	620	1400	200	8876346
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	8876346
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	8876346
Acid Extractable Sodium (Na)	ug/g	<50	<50	<50	<50	50	8876346
Acid Extractable Strontium (Sr)	ug/g	6.1	4.4	12	7.9	1.0	8876346
Acid Extractable Thallium (Tl)	ug/g	<0.050	0.059	<0.050	0.079	0.050	8876346
Acid Extractable Tin (Sn)	ug/g	<1.0	<1.0	<1.0	<1.0	1.0	8876346
Acid Extractable Uranium (U)	ug/g	0.66	0.83	0.73	0.24	0.050	8876346
Acid Extractable Vanadium (V)	ug/g	11	12	11	11	5.0	8876346
Acid Extractable Zinc (Zn)	ug/g	40	16	14	17	5.0	8876346
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	8876346

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		WSS874			WSS874			WSS874		
Sampling Date		2023/08/12 12:00			2023/08/12 12:00			2023/08/12 12:00		
COC Number		945900-02-01			945900-02-01			945900-02-01		
	UNITS	WC-01	RDL	QC Batch	WC-01 REPEAT	RDL	QC Batch	WC-01 Lab-Dup	RDL	QC Batch
Metals										
Acid Extractable Aluminum (Al)	ug/g	3100	50	8876346				3000	50	8876346
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8876346				<0.20	0.20	8876346
Acid Extractable Arsenic (As)	ug/g	<1.0	1.0	8876346				<1.0	1.0	8876346
Acid Extractable Barium (Ba)	ug/g	320	0.50	8876346				310	0.50	8876346
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.20	8876346				<0.20	0.20	8876346
Acid Extractable Bismuth (Bi)	ug/g	<1.0	1.0	8876346				<1.0	1.0	8876346
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8876346				<5.0	5.0	8876346
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	8876346				<0.10	0.10	8876346
Acid Extractable Calcium (Ca)	ug/g	2500	50	8876346				2500	50	8876346
Acid Extractable Chromium (Cr)	ug/g	13	1.0	8876346				12	1.0	8876346
Acid Extractable Cobalt (Co)	ug/g	3.8	0.10	8876346				3.8	0.10	8876346
Acid Extractable Copper (Cu)	ug/g	3.6	0.50	8876346				3.4	0.50	8876346
Acid Extractable Iron (Fe)	ug/g	17000	50	8876346				16000	50	8876346
Acid Extractable Lead (Pb)	ug/g	1.6	1.0	8876346				1.7	1.0	8876346
Acid Extractable Magnesium (Mg)	ug/g	1700	50	8876346				1600	50	8876346
Acid Extractable Manganese (Mn)	ug/g				8300	5.0	8949722			
Acid Extractable Molybdenum (Mo)	ug/g	2.0	0.50	8876346				1.8	0.50	8876346
Acid Extractable Nickel (Ni)	ug/g	9.8	0.50	8876346				9.7	0.50	8876346
Acid Extractable Phosphorus (P)	ug/g	580	50	8876346				600	50	8876346
Acid Extractable Potassium (K)	ug/g	420	200	8876346				420	200	8876346
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8876346				<0.50	0.50	8876346
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8876346				<0.20	0.20	8876346
Acid Extractable Sodium (Na)	ug/g	<50	50	8876346				<50	50	8876346
Acid Extractable Strontium (Sr)	ug/g	12	1.0	8876346				12	1.0	8876346
Acid Extractable Thallium (Tl)	ug/g	0.25	0.050	8876346				0.25	0.050	8876346
Acid Extractable Tin (Sn)	ug/g	<1.0	1.0	8876346				<1.0	1.0	8876346
Acid Extractable Uranium (U)	ug/g	0.97	0.050	8876346				0.93	0.050	8876346
Acid Extractable Vanadium (V)	ug/g	9.1	5.0	8876346				8.8	5.0	8876346
Acid Extractable Zinc (Zn)	ug/g	22	5.0	8876346				22	5.0	8876346
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	8876346				<0.050	0.050	8876346

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		WSS875	WSS876	WSS877	WSS878	WSS879		
Sampling Date		2023/08/12 14:00	2023/08/13 15:20	2023/08/13 19:50	2023/08/14 12:20	2023/08/14 14:30		
COC Number		945900-02-01	945900-02-01	945900-02-01	945900-02-01	945900-02-01		
	UNITS	PL-02	MOL-02	MIL-02	MIL-03	WC-03	RDL	QC Batch
Metals								
Acid Extractable Aluminum (Al)	ug/g	9900	16000	14000	12000	3000	50	8876346
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.29	<0.20	0.20	8876346
Acid Extractable Arsenic (As)	ug/g	1.8	<1.0	1.6	1.6	<1.0	1.0	8876346
Acid Extractable Barium (Ba)	ug/g	260	230	330	160	36	0.50	8876346
Acid Extractable Beryllium (Be)	ug/g	0.28	0.35	0.39	0.32	<0.20	0.20	8876346
Acid Extractable Bismuth (Bi)	ug/g	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8876346
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8876346
Acid Extractable Cadmium (Cd)	ug/g	0.34	0.31	0.68	0.99	<0.10	0.10	8876346
Acid Extractable Calcium (Ca)	ug/g	5600	8100	7000	5800	1700	50	8876346
Acid Extractable Chromium (Cr)	ug/g	33	61	55	49	19	1.0	8876346
Acid Extractable Cobalt (Co)	ug/g	7.9	6.2	10	5.5	2.8	0.10	8876346
Acid Extractable Copper (Cu)	ug/g	17	25	28	22	2.1	0.50	8876346
Acid Extractable Iron (Fe)	ug/g	73000	16000	40000	28000	11000	50	8876346
Acid Extractable Lead (Pb)	ug/g	13	7.9	17	57	2.1	1.0	8876346
Acid Extractable Magnesium (Mg)	ug/g	1900	3800	4700	3900	2000	50	8876346
Acid Extractable Manganese (Mn)	ug/g	2500	580	4700	1300	360	1.0	8876346
Acid Extractable Molybdenum (Mo)	ug/g	2.2	6.0	5.9	4.4	0.77	0.50	8876346
Acid Extractable Nickel (Ni)	ug/g	20	21	33	22	7.1	0.50	8876346
Acid Extractable Phosphorus (P)	ug/g	2800	1800	1300	1000	410	50	8876346
Acid Extractable Potassium (K)	ug/g	740	1200	1600	1200	560	200	8876346
Acid Extractable Selenium (Se)	ug/g	0.93	1.0	1.1	1.3	<0.50	0.50	8876346
Acid Extractable Silver (Ag)	ug/g	0.21	0.49	0.33	0.30	<0.20	0.20	8876346
Acid Extractable Sodium (Na)	ug/g	80	120	140	120	<50	50	8876346
Acid Extractable Strontium (Sr)	ug/g	15	28	24	19	9.3	1.0	8876346
Acid Extractable Thallium (Tl)	ug/g	0.20	0.17	0.42	0.21	<0.050	0.050	8876346
Acid Extractable Tin (Sn)	ug/g	<1.0	9.6	<1.0	1.7	<1.0	1.0	8876346
Acid Extractable Uranium (U)	ug/g	4.7	13	11	9.0	0.76	0.050	8876346
Acid Extractable Vanadium (V)	ug/g	17	25	34	27	12	5.0	8876346
Acid Extractable Zinc (Zn)	ug/g	64	79	110	96	13	5.0	8876346
Acid Extractable Mercury (Hg)	ug/g	0.16	0.073	0.092	0.16	<0.050	0.050	8876346

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		WSS880			WSS881		WSS882		
Sampling Date		2023/08/14 16:30			2023/08/15 14:00		2023/08/15 16:15		
COC Number		945900-02-01			945900-02-01		945900-02-01		
	UNITS	WC-04	RDL	QC Batch	LL-02	RDL	LL-03	RDL	QC Batch
Metals									
Acid Extractable Aluminum (Al)	ug/g	5900	50	8876346	16000	50	17000	50	8876346
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	8876346	<0.20	0.20	<0.20	0.20	8876346
Acid Extractable Arsenic (As)	ug/g	<1.0	1.0	8876346	4.0	1.0	4.4	1.0	8876346
Acid Extractable Barium (Ba)	ug/g	92	0.50	8876346	400	0.50	1300	0.50	8876346
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.20	8876346	0.51	0.20	0.54	0.20	8876346
Acid Extractable Bismuth (Bi)	ug/g	<1.0	1.0	8876346	<1.0	1.0	<1.0	1.0	8876346
Acid Extractable Boron (B)	ug/g	<5.0	5.0	8876346	<5.0	5.0	<5.0	5.0	8876346
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	8876346	0.95	0.10	0.94	0.10	8876346
Acid Extractable Calcium (Ca)	ug/g	2100	50	8876346	4800	50	6200	50	8876346
Acid Extractable Chromium (Cr)	ug/g	25	1.0	8876346	63	1.0	58	1.0	8876346
Acid Extractable Cobalt (Co)	ug/g	4.0	0.10	8876346	15	0.10	18	0.10	8876346
Acid Extractable Copper (Cu)	ug/g	5.9	0.50	8876346	28	0.50	30	0.50	8876346
Acid Extractable Iron (Fe)	ug/g	25000	50	8876346	92000	50	95000	50	8876346
Acid Extractable Lead (Pb)	ug/g	2.7	1.0	8876346	39	1.0	33	1.0	8876346
Acid Extractable Magnesium (Mg)	ug/g	4000	50	8876346	5900	50	5600	50	8876346
Acid Extractable Manganese (Mn)	ug/g	580	1.0	8876346	9100	5.0	35000 (1)	10	8938127
Acid Extractable Molybdenum (Mo)	ug/g	1.1	0.50	8876346	5.8	0.50	5.6	0.50	8876346
Acid Extractable Nickel (Ni)	ug/g	11	0.50	8876346	40	0.50	51	0.50	8876346
Acid Extractable Phosphorus (P)	ug/g	600	50	8876346	1200	50	1800	50	8876346
Acid Extractable Potassium (K)	ug/g	3400	200	8876346	2000	200	2000	200	8876346
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8876346	1.3	0.50	1.7	0.50	8876346
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8876346	0.26	0.20	0.27	0.20	8876346
Acid Extractable Sodium (Na)	ug/g	76	50	8876346	130	50	140	50	8876346
Acid Extractable Strontium (Sr)	ug/g	13	1.0	8876346	17	1.0	21	1.0	8876346
Acid Extractable Thallium (Tl)	ug/g	0.20	0.050	8876346	0.42	0.050	0.58	0.050	8876346
Acid Extractable Tin (Sn)	ug/g	<1.0	1.0	8876346	1.3	1.0	<1.0	1.0	8876346
Acid Extractable Uranium (U)	ug/g	1.3	0.050	8876346	9.1	0.050	13	0.050	8876346
Acid Extractable Vanadium (V)	ug/g	27	5.0	8876346	40	5.0	43	5.0	8876346
Acid Extractable Zinc (Zn)	ug/g	47	5.0	8876346	140	5.0	130	5.0	8876346
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	8876346	0.16	0.050	0.13	0.050	8876346

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Duplicate results exceeded RPD acceptance criteria. The variability in the results for this analyte may be more pronounced.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		WSS883	WSS884	WSS885		
Sampling Date		2023/08/15 18:00	2023/08/16 13:30	2023/08/16 19:30		
COC Number		945900-02-01	945900-02-01	945900-02-01		
	UNITS	WC-09	RL-02	WC-10	RDL	QC Batch
Metals						
Acid Extractable Aluminum (Al)	ug/g	8400	7100	8200	50	8876346
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.20	8876346
Acid Extractable Arsenic (As)	ug/g	<1.0	1.2	<1.0	1.0	8876346
Acid Extractable Barium (Ba)	ug/g	81	200	110	0.50	8876346
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.25	<0.20	0.20	8876346
Acid Extractable Bismuth (Bi)	ug/g	<1.0	<1.0	<1.0	1.0	8876346
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	5.0	8876346
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.71	0.10	0.10	8876346
Acid Extractable Calcium (Ca)	ug/g	3000	6300	3800	50	8876346
Acid Extractable Chromium (Cr)	ug/g	37	27	63	1.0	8876346
Acid Extractable Cobalt (Co)	ug/g	10	6.8	11	0.10	8876346
Acid Extractable Copper (Cu)	ug/g	6.5	25	13	0.50	8876346
Acid Extractable Iron (Fe)	ug/g	44000	38000	37000	50	8876346
Acid Extractable Lead (Pb)	ug/g	3.4	17	4.4	1.0	8876346
Acid Extractable Magnesium (Mg)	ug/g	4900	3800	7000	50	8876346
Acid Extractable Manganese (Mn)	ug/g	1300	1500	1100	1.0	8876346
Acid Extractable Molybdenum (Mo)	ug/g	3.4	3.7	1.0	0.50	8876346
Acid Extractable Nickel (Ni)	ug/g	24	21	32	0.50	8876346
Acid Extractable Phosphorus (P)	ug/g	840	1100	880	50	8876346
Acid Extractable Potassium (K)	ug/g	1300	1100	3600	200	8876346
Acid Extractable Selenium (Se)	ug/g	<0.50	1.2	<0.50	0.50	8876346
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	0.20	8876346
Acid Extractable Sodium (Na)	ug/g	59	110	140	50	8876346
Acid Extractable Strontium (Sr)	ug/g	12	16	19	1.0	8876346
Acid Extractable Thallium (Tl)	ug/g	0.14	0.18	0.27	0.050	8876346
Acid Extractable Tin (Sn)	ug/g	<1.0	1.1	<1.0	1.0	8876346
Acid Extractable Uranium (U)	ug/g	1.1	8.3	0.67	0.050	8876346
Acid Extractable Vanadium (V)	ug/g	22	20	31	5.0	8876346
Acid Extractable Zinc (Zn)	ug/g	62	110	44	5.0	8876346
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.073	<0.050	0.050	8876346

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		WSS867		WSS868			WSS868		
Sampling Date		2023/08/09 18:30		2023/08/10 13:30			2023/08/10 13:30		
COC Number		945900-02-01		945900-02-01			945900-02-01		
	UNITS	DL-02	QC Batch	WC-05	RDL	QC Batch	WC-05 Lab-Dup	RDL	QC Batch
Inorganics									
Moisture	%	90	8874256	64	1.0	8874256			
Nitrogen (N)	%	0.72	8872424	0.38	0.010	8872507	0.34	0.010	8872507
Total Organic Carbon	mg/kg	69000	8875750	44000	500	8875750			
Calculated Total Kjeldahl Nitrogen	ug/g	7200	8867163	3800	100	8867163			
Nitrite (N)	ug/g	<0.5	8876870	<0.5	0.5	8876870			
Nitrate (N)	ug/g	<2	8876870	<2	2	8876870			
Nitrate + Nitrite (N)	ug/g	<3	8876870	<3	3	8876870			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		WSS869	WSS870	WSS871	WSS872		
Sampling Date		2023/08/10 15:45	2023/08/10 17:00	2023/08/10 17:15	2023/08/11 15:00		
COC Number		945900-02-01	945900-02-01	945900-02-01	945900-02-01		
	UNITS	WC-06	WC-07	WC-08	WC-02	RDL	QC Batch
Inorganics							
Moisture	%	33	24	17	26	1.0	8874256
Nitrogen (N)	%	0.043	0.024	0.012	0.031	0.010	8872424
Total Organic Carbon	mg/kg	5400	19000	2100	5700	500	8875750
Calculated Total Kjeldahl Nitrogen	ug/g	430	240	120	310	100	8867163
Nitrite (N)	ug/g	<0.5	<0.5	<0.5	<0.5	0.5	8876870
Nitrate (N)	ug/g	<2	<2	<2	<2	2	8876870
Nitrate + Nitrite (N)	ug/g	<3	<3	<3	<3	3	8876870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P1634
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		WSS872			WSS873		WSS874	WSS875		
Sampling Date		2023/08/11 15:00			2023/08/11 18:45		2023/08/12 12:00	2023/08/12 14:00		
COC Number		945900-02-01			945900-02-01		945900-02-01	945900-02-01		
	UNITS	WC-02 Lab-Dup	RDL	QC Batch	WC-12	QC Batch	WC-01	PL-02	RDL	QC Batch
Inorganics										
Moisture	%				19	8874256	32	94	1.0	8874256
Nitrogen (N)	%	0.026	0.010	8872424	0.010	8872507	0.055	1.6	0.010	8872424
Total Organic Carbon	mg/kg				4200	8875750	11000	150000	500	8875750
Calculated Total Kjeldahl Nitrogen	ug/g				100	8867163	550	16000	100	8867163
Nitrite (N)	ug/g				<0.5	8876870	<0.5	<0.5	0.5	8876870
Nitrate (N)	ug/g				<2	8876870	<2	<2	2	8876870
Nitrate + Nitrite (N)	ug/g				<3	8876870	<3	<3	3	8876870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		WSS876	WSS877			WSS877		
Sampling Date		2023/08/13 15:20	2023/08/13 19:50			2023/08/13 19:50		
COC Number		945900-02-01	945900-02-01			945900-02-01		
	UNITS	MOL-02	MIL-02	RDL	QC Batch	MIL-02 Lab-Dup	RDL	QC Batch
Inorganics								
Moisture	%	90	91	1.0	8874256			
Nitrogen (N)	%	0.73	0.79	0.010	8872424			
Total Organic Carbon	mg/kg	86000	82000	500	8875750	80000	500	8875750
Calculated Total Kjeldahl Nitrogen	ug/g	7300	7900	100	8867163			
Nitrite (N)	ug/g	<0.5	<0.5	0.5	8876870			
Nitrate (N)	ug/g	<2	<2	2	8876870			
Nitrate + Nitrite (N)	ug/g	<3	<3	3	8876870			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		WSS878	WSS879	WSS880	WSS881		
Sampling Date		2023/08/14 12:20	2023/08/14 14:30	2023/08/14 16:30	2023/08/15 14:00		
COC Number		945900-02-01	945900-02-01	945900-02-01	945900-02-01		
	UNITS	MIL-03	WC-03	WC-04	LL-02	RDL	QC Batch
Inorganics							
Moisture	%	92	19	19	89	1.0	8874256
Nitrogen (N)	%	0.92	0.022	0.023	0.76	0.010	8872424
Total Organic Carbon	mg/kg	89000	3500	8900	59000	500	8875750
Calculated Total Kjeldahl Nitrogen	ug/g	9200	220	230	7600	100	8867163
Nitrite (N)	ug/g	<0.5	<0.5	<0.5	<0.5	0.5	8876870
Nitrate (N)	ug/g	<2	<2	<2	<2	2	8876870
Nitrate + Nitrite (N)	ug/g	<3	<3	<3	<3	3	8876870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		WSS881			WSS882	WSS883		WSS884		
Sampling Date		2023/08/15 14:00			2023/08/15 16:15	2023/08/15 18:00		2023/08/16 13:30		
COC Number		945900-02-01			945900-02-01	945900-02-01		945900-02-01		
	UNITS	LL-02 Lab-Dup	RDL	QC Batch	LL-03	WC-09	QC Batch	RL-02	RDL	QC Batch
Inorganics										
Moisture	%				90	47	8874256	94	1.0	8874256
Nitrogen (N)	%				0.64	0.13	8872424	1.4	0.010	8872424
Total Organic Carbon	mg/kg				64000	15000	8875750	110000	500	8875751
Calculated Total Kjeldahl Nitrogen	ug/g				6400	1300	8867163	14000	100	8867163
Nitrite (N)	ug/g	<0.5	0.5	8876870	<0.5	<0.5	8876870	<0.5	0.5	8876882
Nitrate (N)	ug/g	<2	2	8876870	<2	<2	8876870	<2	2	8876882
Nitrate + Nitrite (N)	ug/g	<3	3	8876870	<3	<3	8876870	<3	3	8876882

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		WSS885		
Sampling Date		2023/08/16 19:30		
COC Number		945900-02-01		
	UNITS	WC-10	RDL	QC Batch
Inorganics				
Moisture	%	14	1.0	8874256
Nitrogen (N)	%	<0.010	0.010	8872424
Total Organic Carbon	mg/kg	2600	500	8875750
Calculated Total Kjeldahl Nitrogen	ug/g	<100	100	8867163
Nitrite (N)	ug/g	<0.5	0.5	8876870
Nitrate (N)	ug/g	<2	2	8876870
Nitrate + Nitrite (N)	ug/g	<3	3	8876870

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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SUBCONTRACTED ANALYSIS (SEDIMENT)

Bureau Veritas ID		WSS867		WSS868	WSS869	WSS870		
Sampling Date		2023/08/09 18:30		2023/08/10 13:30	2023/08/10 15:45	2023/08/10 17:00		
COC Number		945900-02-01		945900-02-01	945900-02-01	945900-02-01		
	UNITS	DL-02	QC Batch	WC-05	WC-06	WC-07	RDL	QC Batch
Physical Testing								
Clay	%	29	8885117	7.4	2.5	3.7	2.0	8885119
Sand	%	23	8885117	50	96	93	2.0	8885119
Silt	%	49	8885117	42	<2.0	3.0	2.0	8885119
Texture	N/A	CLAY LOAM	8885118	LOAM	SAND	SAND	N/A	8885118

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		WSS871	WSS872	WSS873		WSS874		
Sampling Date		2023/08/10 17:15	2023/08/11 15:00	2023/08/11 18:45		2023/08/12 12:00		
COC Number		945900-02-01	945900-02-01	945900-02-01		945900-02-01		
	UNITS	WC-08	WC-02	WC-12	QC Batch	WC-01	RDL	QC Batch
Physical Testing								
Clay	%	<2.0	3.3	<2.0	8885117	7.4	2.0	8885119
Sand	%	96	95	98	8885117	88	2.0	8885119
Silt	%	2.4	<2.0	<2.0	8885117	5.0	2.0	8885119
Texture	N/A	SAND	SAND	SAND	8885118	LOAMY SAND	N/A	8885118

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		WSS875		WSS876	WSS877		WSS878		
Sampling Date		2023/08/12 14:00		2023/08/13 15:20	2023/08/13 19:50		2023/08/14 12:20		
COC Number		945900-02-01		945900-02-01	945900-02-01		945900-02-01		
	UNITS	PL-02	QC Batch	MOL-02	MIL-02	QC Batch	MIL-03	RDL	QC Batch
Physical Testing									
Clay	%	17	8885121	19	15	8885117	17	2.0	8885121
Sand	%	69	8885121	30	49	8885117	42	2.0	8885121
Silt	%	15	8885121	51	36	8885117	41	2.0	8885121
Texture	N/A	SANDY LOAM	8885122	SILT LOAM	LOAM	8885122	LOAM	N/A	8885122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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SUBCONTRACTED ANALYSIS (SEDIMENT)

Bureau Veritas ID		WSS879			WSS879			WSS880	WSS881		
Sampling Date		2023/08/14 14:30			2023/08/14 14:30			2023/08/14 16:30	2023/08/15 14:00		
COC Number		945900-02-01			945900-02-01			945900-02-01	945900-02-01		
	UNITS	WC-03	RDL	QC Batch	WC-03 Lab-Dup	RDL	QC Batch	WC-04	LL-02	RDL	QC Batch
Physical Testing											
Clay	%	3.3	2.0	8885117	3.1	2.0	8885117	3.2	13	2.0	8885117
Sand	%	95	2.0	8885117	95	2.0	8885117	94	46	2.0	8885117
Silt	%	<2.0	2.0	8885117	2.1	2.0	8885117	3.1	40	2.0	8885117
Texture	N/A	SAND	N/A	8885122				SAND	LOAM	N/A	8885122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas ID		WSS882	WSS883		WSS884		WSS885		
Sampling Date		2023/08/15 16:15	2023/08/15 18:00		2023/08/16 13:30		2023/08/16 19:30		
COC Number		945900-02-01	945900-02-01		945900-02-01		945900-02-01		
	UNITS	LL-03	WC-09	QC Batch	RL-02	QC Batch	WC-10	RDL	QC Batch
Physical Testing									
Clay	%	9.9	6.0	8885117	5.7	8885121	<2.0	2.0	8885119
Sand	%	50	68	8885117	87	8885121	98	2.0	8885119
Silt	%	40	26	8885117	7.2	8885121	<2.0	2.0	8885119
Texture	N/A	LOAM	SANDY LOAM	8885122	LOAMY SAND	8885122	SAND	N/A	8885122

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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TEST SUMMARY

Bureau Veritas ID: WSS867 **Collected:** 2023/08/09
Sample ID: DL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876247	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885118	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS868 **Collected:** 2023/08/10
Sample ID: WC-05 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885119	N/A	2023/08/28	Randeep Deol
Texture Class	CALC	8885118	N/A	2023/08/28	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872507	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS868 Dup **Collected:** 2023/08/10
Sample ID: WC-05 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen	COMB	8872507	N/A	2023/08/24	Samuel Law

Bureau Veritas ID: WSS869 **Collected:** 2023/08/10
Sample ID: WC-06 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885119	N/A	2023/08/28	Randeep Deol
Texture Class	CALC	8885118	N/A	2023/08/28	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSS870 **Collected:** 2023/08/10
Sample ID: WC-07 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885119	N/A	2023/08/28	Randeep Deol
Texture Class	CALC	8885118	N/A	2023/08/28	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS871 **Collected:** 2023/08/10
Sample ID: WC-08 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885118	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS872 **Collected:** 2023/08/11
Sample ID: WC-02 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885118	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS872 Dup **Collected:** 2023/08/11
Sample ID: WC-02 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSS873 **Collected:** 2023/08/11
Sample ID: WC-12 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885118	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872507	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS874 **Collected:** 2023/08/12
Sample ID: WC-01 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885119	N/A	2023/08/28	Randeep Deol
Texture Class	CALC	8885118	N/A	2023/08/28	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS874 Dup **Collected:** 2023/08/12
Sample ID: WC-01 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai

Bureau Veritas ID: WSS875 **Collected:** 2023/08/12
Sample ID: PL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885121	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSS876
Sample ID: MOL-02
Matrix: Sediment

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS877
Sample ID: MIL-02
Matrix: Sediment

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS877 Dup
Sample ID: MIL-02
Matrix: Sediment

Collected: 2023/08/13
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS878
Sample ID: MIL-03
Matrix: Sediment

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885121	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSS879
Sample ID: WC-03
Matrix: Sediment

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS879 Dup
Sample ID: WC-03
Matrix: Sediment

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol

Bureau Veritas ID: WSS880
Sample ID: WC-04
Matrix: Sediment

Collected: 2023/08/14
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS881
Sample ID: LL-02
Matrix: Sediment

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: WSS881 Dup
Sample ID: LL-02
Matrix: Sediment

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal

Bureau Veritas ID: WSS882
Sample ID: LL-03
Matrix: Sediment

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS883
Sample ID: WC-09
Matrix: Sediment

Collected: 2023/08/15
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885117	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

Bureau Veritas ID: WSS884
Sample ID: RL-02
Matrix: Sediment

Collected: 2023/08/16
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885121	N/A	2023/08/29	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/29	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876882	2023/08/25	2023/08/27	Viorica Rotaru
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875751	N/A	2023/08/25	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3P1634
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: WSS885
Sample ID: WC-10
Matrix: Sediment

Collected: 2023/08/16
Shipped:
Received: 2023/08/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8876346	2023/08/25	2023/08/25	Gagandeep Rai
Texture by Hydrometer		8885119	N/A	2023/08/28	Randeep Deol
Texture Class	CALC	8885122	N/A	2023/08/28	Automated Statchk
Moisture	BAL	8874256	N/A	2023/08/24	Shivani Desai
Nitrogen	COMB	8872424	N/A	2023/08/24	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	8876870	2023/08/25	2023/08/28	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	8867163	N/A	2023/08/28	Automated Statchk
Total Organic Carbon in Soil	COMB	8875750	N/A	2023/08/25	Samuel Law

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.7°C
Package 2	4.3°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

Revised Report [2023/09/27]: Additional parameters added on metals as per client request.

Sample WSS869, Acid Extractable Metals by ICPMS: Test repeated.
Sample WSS874, Acid Extractable Metals by ICPMS: Test repeated.
Sample WSS881, Acid Extractable Metals by ICPMS: Test repeated.
Sample WSS882, Acid Extractable Metals by ICPMS: Test repeated.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8872424	Nitrogen (N)	2023/08/24					<0.010	%	17	35	97	90 - 110
8872507	Nitrogen (N)	2023/08/24					<0.010	%	11	35	96	90 - 110
8874256	Moisture	2023/08/24							1.4	20		
8875750	Total Organic Carbon	2023/08/25					<500	mg/kg	2.7	35	98	75 - 125
8875751	Total Organic Carbon	2023/08/25					<500	mg/kg	7.1	35	99	75 - 125
8876247	Acid Extractable Aluminum (Al)	2023/08/25	NC	75 - 125	101	80 - 120	<50	ug/g				
8876247	Acid Extractable Antimony (Sb)	2023/08/25	87	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
8876247	Acid Extractable Arsenic (As)	2023/08/25	93	75 - 125	99	80 - 120	<1.0	ug/g	2.6	30		
8876247	Acid Extractable Barium (Ba)	2023/08/25	NC	75 - 125	96	80 - 120	<0.50	ug/g	1.2	30		
8876247	Acid Extractable Beryllium (Be)	2023/08/25	94	75 - 125	99	80 - 120	<0.20	ug/g	3.0	30		
8876247	Acid Extractable Bismuth (Bi)	2023/08/25	92	75 - 125	98	80 - 120	<1.0	ug/g				
8876247	Acid Extractable Boron (B)	2023/08/25	93	75 - 125	95	80 - 120	<5.0	ug/g	NC	30		
8876247	Acid Extractable Cadmium (Cd)	2023/08/25	93	75 - 125	97	80 - 120	<0.10	ug/g	9.6	30		
8876247	Acid Extractable Calcium (Ca)	2023/08/25	NC	75 - 125	108	80 - 120	<50	ug/g				
8876247	Acid Extractable Chromium (Cr)	2023/08/25	91	75 - 125	95	80 - 120	<1.0	ug/g	1.5	30		
8876247	Acid Extractable Cobalt (Co)	2023/08/25	91	75 - 125	96	80 - 120	<0.10	ug/g	2.7	30		
8876247	Acid Extractable Copper (Cu)	2023/08/25	NC	75 - 125	99	80 - 120	<0.50	ug/g	3.3	30		
8876247	Acid Extractable Iron (Fe)	2023/08/25	NC	75 - 125	103	80 - 120	<50	ug/g				
8876247	Acid Extractable Lead (Pb)	2023/08/25	93	75 - 125	98	80 - 120	<1.0	ug/g	0.43	30		
8876247	Acid Extractable Magnesium (Mg)	2023/08/25	NC	75 - 125	99	80 - 120	<50	ug/g				
8876247	Acid Extractable Manganese (Mn)	2023/08/25	NC	75 - 125	98	80 - 120	<1.0	ug/g				
8876247	Acid Extractable Mercury (Hg)	2023/08/25	94	75 - 125	97	80 - 120	<0.050	ug/g	NC	30		
8876247	Acid Extractable Molybdenum (Mo)	2023/08/25	92	75 - 125	97	80 - 120	<0.50	ug/g	3.4	30		
8876247	Acid Extractable Nickel (Ni)	2023/08/25	91	75 - 125	97	80 - 120	<0.50	ug/g	0.97	30		
8876247	Acid Extractable Phosphorus (P)	2023/08/25	NC	75 - 125	103	80 - 120	<50	ug/g				
8876247	Acid Extractable Potassium (K)	2023/08/25	NC	75 - 125	98	80 - 120	<200	ug/g				
8876247	Acid Extractable Selenium (Se)	2023/08/25	94	75 - 125	100	80 - 120	<0.50	ug/g	NC	30		
8876247	Acid Extractable Silver (Ag)	2023/08/25	95	75 - 125	100	80 - 120	<0.20	ug/g	NC	30		
8876247	Acid Extractable Sodium (Na)	2023/08/25	93	75 - 125	97	80 - 120	<50	ug/g				
8876247	Acid Extractable Strontium (Sr)	2023/08/25	NC	75 - 125	99	80 - 120	<1.0	ug/g				
8876247	Acid Extractable Thallium (Tl)	2023/08/25	93	75 - 125	99	80 - 120	<0.050	ug/g	5.4	30		

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8876247	Acid Extractable Tin (Sn)	2023/08/25	95	75 - 125	99	80 - 120	<1.0	ug/g				
8876247	Acid Extractable Uranium (U)	2023/08/25	91	75 - 125	94	80 - 120	<0.050	ug/g	24	30		
8876247	Acid Extractable Vanadium (V)	2023/08/25	NC	75 - 125	94	80 - 120	<5.0	ug/g	1.7	30		
8876247	Acid Extractable Zinc (Zn)	2023/08/25	NC	75 - 125	96	80 - 120	<5.0	ug/g	0.61	30		
8876346	Acid Extractable Aluminum (Al)	2023/08/25	NC	75 - 125	102	80 - 120	<50	ug/g	4.0	30		
8876346	Acid Extractable Antimony (Sb)	2023/08/25	94	75 - 125	98	80 - 120	<0.20	ug/g	NC	30		
8876346	Acid Extractable Arsenic (As)	2023/08/25	97	75 - 125	97	80 - 120	<1.0	ug/g	NC	30		
8876346	Acid Extractable Barium (Ba)	2023/08/25	NC	75 - 125	98	80 - 120	<0.50	ug/g	6.0	30		
8876346	Acid Extractable Beryllium (Be)	2023/08/25	97	75 - 125	97	80 - 120	<0.20	ug/g	NC	30		
8876346	Acid Extractable Bismuth (Bi)	2023/08/25	94	75 - 125	95	80 - 120	<1.0	ug/g	NC	30		
8876346	Acid Extractable Boron (B)	2023/08/25	96	75 - 125	92	80 - 120	<5.0	ug/g	NC	30		
8876346	Acid Extractable Cadmium (Cd)	2023/08/25	94	75 - 125	96	80 - 120	<0.10	ug/g	NC	30		
8876346	Acid Extractable Calcium (Ca)	2023/08/25	NC	75 - 125	108	80 - 120	<50	ug/g	0.025	30		
8876346	Acid Extractable Chromium (Cr)	2023/08/25	97	75 - 125	96	80 - 120	<1.0	ug/g	6.2	30		
8876346	Acid Extractable Cobalt (Co)	2023/08/25	95	75 - 125	95	80 - 120	<0.10	ug/g	1.0	30		
8876346	Acid Extractable Copper (Cu)	2023/08/25	96	75 - 125	100	80 - 120	<0.50	ug/g	3.2	30		
8876346	Acid Extractable Iron (Fe)	2023/08/25	NC	75 - 125	103	80 - 120	<50	ug/g	3.3	30		
8876346	Acid Extractable Lead (Pb)	2023/08/25	95	75 - 125	95	80 - 120	<1.0	ug/g	10	30		
8876346	Acid Extractable Magnesium (Mg)	2023/08/25	NC	75 - 125	99	80 - 120	<50	ug/g	2.3	30		
8876346	Acid Extractable Manganese (Mn)	2023/08/25			99	80 - 120	<1.0	ug/g				
8876346	Acid Extractable Mercury (Hg)	2023/08/25	93	75 - 125	93	80 - 120	<0.050	ug/g	NC	30		
8876346	Acid Extractable Molybdenum (Mo)	2023/08/25	94	75 - 125	97	80 - 120	<0.50	ug/g	11	30		
8876346	Acid Extractable Nickel (Ni)	2023/08/25	98	75 - 125	97	80 - 120	<0.50	ug/g	0.37	30		
8876346	Acid Extractable Phosphorus (P)	2023/08/25	NC	75 - 125	102	80 - 120	<50	ug/g	3.9	30		
8876346	Acid Extractable Potassium (K)	2023/08/25	NC	75 - 125	103	80 - 120	<200	ug/g	0.73	30		
8876346	Acid Extractable Selenium (Se)	2023/08/25	96	75 - 125	99	80 - 120	<0.50	ug/g	NC	30		
8876346	Acid Extractable Silver (Ag)	2023/08/25	95	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
8876346	Acid Extractable Sodium (Na)	2023/08/25	95	75 - 125	100	80 - 120	<50	ug/g	NC	30		
8876346	Acid Extractable Strontium (Sr)	2023/08/25	106	75 - 125	97	80 - 120	<1.0	ug/g	3.9	30		
8876346	Acid Extractable Thallium (Tl)	2023/08/25	94	75 - 125	95	80 - 120	<0.050	ug/g	1.5	30		
8876346	Acid Extractable Tin (Sn)	2023/08/25	96	75 - 125	95	80 - 120	<1.0	ug/g	NC	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8876346	Acid Extractable Uranium (U)	2023/08/25	92	75 - 125	93	80 - 120	<0.050	ug/g	4.3	30		
8876346	Acid Extractable Vanadium (V)	2023/08/25	97	75 - 125	94	80 - 120	<5.0	ug/g	2.8	30		
8876346	Acid Extractable Zinc (Zn)	2023/08/25	104	75 - 125	94	80 - 120	<5.0	ug/g	0.23	30		
8876870	Nitrate (N)	2023/08/28	92	N/A			<2	ug/g	NC	30		
8876870	Nitrate + Nitrite (N)	2023/08/28	573	N/A			<3	ug/g	NC	30	82	75 - 125
8876870	Nitrite (N)	2023/08/28	107	N/A			<0.5	ug/g	NC	30		
8876882	Nitrate (N)	2023/08/27	109	N/A			<2	ug/g	NC	30	NA	75 - 125
8876882	Nitrate + Nitrite (N)	2023/08/27	109	N/A			<3	ug/g	NC	30	103	75 - 125
8876882	Nitrite (N)	2023/08/27	110	N/A			<0.5	ug/g	NC	30		
8885117	Clay	2023/08/29							5.6	30	105	75 - 125
8885117	Sand	2023/08/29							0.36	30	95	75 - 125
8885117	Silt	2023/08/29							7.1	30	103	75 - 125
8885119	Clay	2023/08/28									105	75 - 125
8885119	Sand	2023/08/28									95	75 - 125
8885119	Silt	2023/08/28									102	75 - 125
8885121	Clay	2023/08/29									98	75 - 125
8885121	Sand	2023/08/29									99	75 - 125
8885121	Silt	2023/08/29									106	75 - 125
8938127	Acid Extractable Manganese (Mn)	2023/09/25	NC	75 - 125	98	80 - 120	<1.0	ug/g				
8949722	Acid Extractable Manganese (Mn)	2023/09/29	NC	75 - 125	98	80 - 120	<1.0	ug/g				

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Supervisor-Afternoon Shift

Cristina Carriere, Senior Scientific Specialist

Harry (Peng) Liang, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			945900
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#945900-02-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Nitrogen	Total Organic Carbon in Soil	Calculated Total Kjeldahl Nitrogen	Nitrate & Nitrite as Nitrogen in Soil	O. Reg 153 ICPMS Metals	Acid Extractable Metals by ICPMS	Texture by Hydrometer	# of Bottles	Comments
1		DL SS	2023/08/09	18:30	Sed		X	X	X	X	X	X	X	4	Sed = Sediment
2		WC-05	2023/08/10	13:30	Sed		↓	↓	↓	↓	↓	↓	↓	2	
3		WC-06	2023/08/10	15:45	Sed		↓	↓	↓	↓	↓	↓	↓	2	
4		WC-07	2023/08/10	17:00	Sed		↓	↓	↓	↓	↓	↓	↓	2	
5		WC-08	2023/08/10	17:15	Sed		↓	↓	↓	↓	↓	↓	↓	2	
6		WC-02	2023/08/11	15:00	Sed		↓	↓	↓	↓	↓	↓	↓	4	
7		Daviault-01	2023/08/11	18:45	Sed		↓	↓	↓	↓	↓	↓	↓	3	
8		WC-01	2023/08/12	12:00	Sed		↓	↓	↓	↓	↓	↓	↓	2	
9		Pike-02	2023/08/12	14:00	Sed		↓	↓	↓	↓	↓	↓	↓	4	
10		ML SS	2023/08/13	15:20	Sed		↓	↓	↓	↓	↓	↓	↓	4	

18-Aug-23 14:33
Ankita Bhalla
C3P1634
AK0 ENV-1290

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
Michael Hildebrandt	23/08/18		Rupinder / RUPINDER	2023/08/18	14:33			3/3/2, 6/3/4	Present	✓	
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			945900
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:		C#945900-03-01	Ankita Bhalla
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:			
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Sampled By:	Michael Hildebrandt & Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ___
- ☐ PWQO ☐ Reg 406 Table ___
- ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (If applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Nitrogen	Total Organic Carbon in Soil	Calculated Total Kjeldahl Nitrogen	Nitrate & Nitrite as Nitrogen in Soil	O. Reg 153 ICPMS Metals	Acid Extractable Metals by ICPMS	Texture by Hydrometer				# of Bottles	Comments
1		Mills SS	2023/08/13	19:50	Sed		X	X	X	X	X	X	X				4	Sed = Sediment
2		Mills SS2	2023/08/14	12:20	Sed												4	
3		WC-03	2023/08/14	14:30	Sed												4	
4		WC-04	2023/08/14	16:30	Sed												3	
5		Long-02 SS	2023/08/15	14:00	Sed												5	
6		Long-03 SS	2023/08/15	16:15	Sed												4	
7		WC-09	2023/08/15	18:00	Sed												5	
8		Riordan-02 SS	2023/08/16	13:30	Sed												4	
9		WC-10	2023/08/16	19:30	Sed												4	
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Michael Hildebrandt	23/08/18		See page 1			

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: CA0003092.5894/500

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Your C.O.C. #: 956426-07-01, 956426-06-01, 956426-05-01

Report Date: 2024/11/12
Report #: R8401251
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3X6644
Received: 2023/10/26, 14:06

Sample Matrix: Sediment
Samples Received: 24

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acid Extractable Metals by ICPMS	10	2023/11/02	2023/11/04	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	10	2023/11/02	2023/11/06	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	4	2023/11/02	2023/11/07	CAM SOP-00447	EPA 6020B m
Texture by Hydrometer (1)	5	N/A	2023/11/10	AB SOP-00030	Carter 2nd ed 55.3 m
Texture by Hydrometer (1)	11	N/A	2023/11/11	AB SOP-00030	Carter 2nd ed 55.3 m
Texture by Hydrometer (1)	2	N/A	2023/11/16	AB SOP-00030	Carter 2nd ed 55.3 m
Texture by Hydrometer (1)	6	N/A	2023/11/30	AB SOP-00030	Carter 2nd ed 55.3 m
Texture Class (1)	5	N/A	2023/11/10		Auto Calc
Texture Class (1)	11	N/A	2023/11/11		Auto Calc
Texture Class (1)	2	N/A	2023/11/16		Auto Calc
Texture Class (1)	6	N/A	2023/11/30		Auto Calc
Moisture	24	N/A	2023/11/01	CAM SOP-00445	Carter 2nd ed 51.2 m
Nitrogen	24	N/A	2023/11/12	CAM SOP-00460	EN0000:2003 TC WI
Nitrate & Nitrite as Nitrogen in Soil	4	2023/11/03	2023/11/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Soil	20	2023/11/03	2023/11/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Calculated Total Kjeldahl Nitrogen	24	N/A	2023/11/13	Auto Calc.	
Total Organic Carbon in Soil	4	N/A	2023/11/03	CAM SOP-00468	BCMOE TOC Aug 2014
Total Organic Carbon in Soil	20	N/A	2023/11/06	CAM SOP-00468	BCMOE TOC Aug 2014

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Your Project #: CA0003092.5894/500

Attention: Michael Hildebrandt

WSP Canada Inc.
6925 Century Ave
Suite 100
Mississauga, ON
CANADA L5N 7K2

Your C.O.C. #: 956426-07-01, 956426-06-01, 956426-05-01

Report Date: 2024/11/12
Report #: R8401251
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3X6644
Received: 2023/10/26, 14:06

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Ankita Bhalla, Project Manager
Email: Ankita.Bhalla@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C3X6644
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		XKU189	XKU190	XKU191		XKU192		
Sampling Date		2023/10/13 12:00	2023/10/13 13:30	2023/10/13 15:30		2023/10/13 13:00		
COC Number		956426-07-01	956426-07-01	956426-07-01		956426-07-01		
	UNITS	WC-15	WC-14	WC-13	QC Batch	WC-05	RDL	QC Batch
Inorganics								
Moisture	%	23	67	39	9020971	71	1.0	9020971
Nitrogen (N)	%	<0.010	0.34	0.064	9025854	0.50	0.010	9032822
Total Organic Carbon	mg/kg	500	52000	18000	9024500	80000	500	9024500
Calculated Total Kjeldahl Nitrogen	ug/g	<100	3400	640	9015850	5000	100	9015850
Nitrite (N)	ug/g	<0.5	<0.5	<0.5	9026448	<0.5	0.5	9026448
Nitrate (N)	ug/g	<2	<2	<2	9026448	<2	2	9026448
Nitrate + Nitrite (N)	ug/g	<3	<3	<3	9026448	<3	3	9026448

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		XKU192			XKU193	XKU194		
Sampling Date		2023/10/13 13:00			2023/10/14 15:00	2023/10/15 12:00		
COC Number		956426-07-01			956426-07-01	956426-07-01		
	UNITS	WC-05 Lab-Dup	RDL	QC Batch	WC-12	WC-10	RDL	QC Batch
Inorganics								
Moisture	%				23	20	1.0	9020971
Nitrogen (N)	%	0.49	0.010	9032822	<0.010	<0.010	0.010	9025854
Total Organic Carbon	mg/kg				3800	3200	500	9024500
Calculated Total Kjeldahl Nitrogen	ug/g				<100	<100	100	9015850
Nitrite (N)	ug/g				<0.5	<0.5	0.5	9026448
Nitrate (N)	ug/g				<2	<2	2	9026448
Nitrate + Nitrite (N)	ug/g				<3	<3	3	9026448

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		XKU194			XKU195	XKU196	XKU197		
Sampling Date		2023/10/15 12:00			2023/10/16 11:00	2023/10/16 15:00	2023/10/17 11:00		
COC Number		956426-07-01			956426-07-01	956426-07-01	956426-07-01		
	UNITS	WC-10 Lab-Dup	RDL	QC Batch	WC-06	WC-07	WC-08	RDL	QC Batch
Inorganics									
Moisture	%				26	28	29	1.0	9020971
Nitrogen (N)	%				0.022	0.020	0.013	0.010	9025854
Total Organic Carbon	mg/kg	3000	500	9024500	7400	26000	5800	500	9024500
Calculated Total Kjeldahl Nitrogen	ug/g				220	200	130	100	9015850
Nitrite (N)	ug/g				<0.5	<0.5	<0.5	0.5	9026448
Nitrate (N)	ug/g				<2	<2	<2	2	9026448
Nitrate + Nitrite (N)	ug/g				<3	<3	<3	3	9026448

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		XKU198			XKU198			XKU250		
Sampling Date		2023/10/17			2023/10/17			2023/10/17 15:00		
COC Number		956426-07-01			956426-07-01			956426-06-01		
	UNITS	DUP	RDL	QC Batch	DUP Lab-Dup	RDL	QC Batch	WC-09	RDL	QC Batch
Inorganics										
Moisture	%	29	1.0	9020971				21	1.0	9020971
Nitrogen (N)	%	0.014	0.010	9025854				0.025	0.010	9025854
Total Organic Carbon	mg/kg	5200	500	9024500				15000	500	9024500
Calculated Total Kjeldahl Nitrogen	ug/g	140	100	9015850				250	100	9015850
Nitrite (N)	ug/g	<0.5	0.5	9026448	<0.5	0.5	9026448	<0.5	0.5	9026448
Nitrate (N)	ug/g	<2	2	9026448	<2	2	9026448	<2	2	9026448
Nitrate + Nitrite (N)	ug/g	<3	3	9026448	<3	3	9026448	<3	3	9026448

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QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		XKU251			XKU251			XKU252		
Sampling Date		2023/10/18 14:00			2023/10/18 14:00			2023/10/19 12:45		
COC Number		956426-06-01			956426-06-01			956426-06-01		
	UNITS	WC-02	RDL	QC Batch	WC-02 Lab-Dup	RDL	QC Batch	WC-01	RDL	QC Batch
Inorganics										
Moisture	%	23	1.0	9020971				54	1.0	9020971
Nitrogen (N)	%	0.013	0.010	9025854				0.22	0.010	9025854
Total Organic Carbon	mg/kg	5300	500	9024526	5500	500	9024526	34000	500	9024500
Calculated Total Kjeldahl Nitrogen	ug/g	130	100	9015850				2200	100	9015850
Nitrite (N)	ug/g	<0.5	0.5	9026448				<0.5	0.5	9026448
Nitrate (N)	ug/g	<2	2	9026448				<2	2	9026448
Nitrate + Nitrite (N)	ug/g	<3	3	9026448				<3	3	9026448

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		XKU252			XKU253	XKU254	XKU255		
Sampling Date		2023/10/19 12:45			2023/10/19 15:30	2023/10/20 12:00	2023/10/21 12:00		
COC Number		956426-06-01			956426-06-01	956426-06-01	956426-06-01		
	UNITS	WC-01 Lab-Dup	RDL	QC Batch	PL-02	WC-03	WC-04	RDL	QC Batch
Inorganics									
Moisture	%				93	32	25	1.0	9020971
Nitrogen (N)	%	0.19	0.010	9025854	1.3	0.036	0.018	0.010	9025854
Total Organic Carbon	mg/kg				130000	7800	8900	500	9024500
Calculated Total Kjeldahl Nitrogen	ug/g				13000	360	180	100	9015850
Nitrite (N)	ug/g				<0.5	<0.5	<0.5	0.5	9026448
Nitrate (N)	ug/g				<2	<2	<2	2	9026448
Nitrate + Nitrite (N)	ug/g				<3	<3	<3	3	9026448

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QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		XKU256			XKU256			XKU257		
Sampling Date		2023/10/21 11:30			2023/10/21 11:30			2023/10/21 13:30		
COC Number		956426-06-01			956426-06-01			956426-06-01		
	UNITS	MIL-03	RDL	QC Batch	MIL-03 Lab-Dup	RDL	QC Batch	MIL-02	RDL	QC Batch
Inorganics										
Moisture	%	89	1.0	9020971				91	1.0	9020971
Nitrogen (N)	%	0.86	0.010	9025854				0.69	0.010	9025854
Total Organic Carbon	mg/kg	93000	500	9024526				81000	500	9024526
Calculated Total Kjeldahl Nitrogen	ug/g	8600	100	9015850				6900	100	9015850
Nitrite (N)	ug/g	0.9	0.5	9026428	0.9	0.5	9026428	<0.5	0.5	9026428
Nitrate (N)	ug/g	<2	2	9026428	<2	2	9026428	<2	2	9026428
Nitrate + Nitrite (N)	ug/g	<3	3	9026428	<3	3	9026428	<3	3	9026428

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		XKU258		XKU259		XKU293		
Sampling Date		2023/10/22 11:30		2023/10/22 15:30		2023/10/23 12:30		
COC Number		956426-06-01		956426-06-01		956426-05-01		
	UNITS	MOL-02	QC Batch	DL-02	QC Batch	RL-02	RDL	QC Batch
Inorganics								
Moisture	%	90	9020971	83	9021175	92	1.0	9021316
Nitrogen (N)	%	1.0	9025854	0.41	9025854	1.4	0.010	9025854
Total Organic Carbon	mg/kg	110000	9024526	50000	9024500	150000	500	9024500
Calculated Total Kjeldahl Nitrogen	ug/g	10000	9015850	4100	9015850	14000	100	9015850
Nitrite (N)	ug/g	0.7	9026428	<0.5	9026448	<0.5	0.5	9026448
Nitrate (N)	ug/g	<2	9026428	<2	9026448	<2	2	9026448
Nitrate + Nitrite (N)	ug/g	<3	9026428	<3	9026448	<3	3	9026448

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		XKU294		XKU295		XKU296		
Sampling Date		2023/10/23 15:00		2023/10/24 11:45		2023/10/24 14:30		
COC Number		956426-05-01		956426-05-01		956426-05-01		
	UNITS	WC-11	QC Batch	LL-02	QC Batch	LL-03	RDL	QC Batch
Inorganics								
Moisture	%	46	9021316	89	9021316	90	1.0	9021316
Nitrogen (N)	%	0.30	9032822	0.57	9025880	0.61	0.010	9025880
Total Organic Carbon	mg/kg	18000	9024500	54000	9024500	68000	500	9024500
Calculated Total Kjeldahl Nitrogen	ug/g	3000	9015850	5700	9015850	6100	100	9015850
Nitrite (N)	ug/g	<0.5	9026448	0.9	9026448	<0.5	0.5	9026428
Nitrate (N)	ug/g	<2	9026448	<2	9026448	<2	2	9026428
Nitrate + Nitrite (N)	ug/g	<3	9026448	<3	9026448	<3	3	9026428

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Bureau Veritas ID		XKU189		XKU190		XKU191		XKU192		
Sampling Date		2023/10/13 12:00		2023/10/13 13:30		2023/10/13 15:30		2023/10/13 13:00		
COC Number		956426-07-01		956426-07-01		956426-07-01		956426-07-01		
	UNITS	WC-15	RDL	WC-14	RDL	WC-13	RDL	WC-05	RDL	QC Batch
Metals										
Acid Extractable Aluminum (Al)	ug/g	400	50	5900	50	6600	50	7200	50	9024269
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	9024269
Acid Extractable Arsenic (As)	ug/g	2.0	1.0	1.5	1.0	1.4	1.0	<1.0	1.0	9024269
Acid Extractable Barium (Ba)	ug/g	82	0.50	1300	0.50	1200	0.50	82	0.50	9024269
Acid Extractable Beryllium (Be)	ug/g	0.32	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	9024269
Acid Extractable Bismuth (Bi)	ug/g	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	9024269
Acid Extractable Boron (B)	ug/g	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	9024269
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.23	0.10	0.17	0.10	0.18	0.10	9024269
Acid Extractable Calcium (Ca)	ug/g	320	50	6600	50	5400	50	5900	50	9024269
Acid Extractable Chromium (Cr)	ug/g	2.0	1.0	24	1.0	31	1.0	42	1.0	9024269
Acid Extractable Cobalt (Co)	ug/g	5.3	0.10	5.0	0.10	7.1	0.10	7.9	0.10	9024269
Acid Extractable Copper (Cu)	ug/g	2.0	0.50	6.9	0.50	6.6	0.50	11	0.50	9024269
Acid Extractable Iron (Fe)	ug/g	64000	50	64000	50	52000	50	40000	50	9024269
Acid Extractable Lead (Pb)	ug/g	<1.0	1.0	2.6	1.0	2.7	1.0	8.4	1.0	9024269
Acid Extractable Magnesium (Mg)	ug/g	180	50	3200	50	4100	50	5900	50	9024269
Acid Extractable Manganese (Mn)	ug/g	4800	5.0	30000	10	21000	5.0	670	1.0	9024269
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	22	0.50	15	0.50	1.9	0.50	9024269
Acid Extractable Nickel (Ni)	ug/g	1.9	0.50	20	0.50	25	0.50	21	0.50	9024269
Acid Extractable Phosphorus (P)	ug/g	97	50	700	50	630	50	650	50	9024269
Acid Extractable Potassium (K)	ug/g	<200	200	430	200	610	200	890	200	9024269
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	<0.50	0.50	<0.50	0.50	1.5	0.50	9024269
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	9024269
Acid Extractable Sodium (Na)	ug/g	<50	50	<50	50	59	50	100	50	9024269
Acid Extractable Strontium (Sr)	ug/g	2.7	1.0	20	1.0	19	1.0	15	1.0	9024269
Acid Extractable Thallium (Tl)	ug/g	<0.050	0.050	0.22	0.050	0.22	0.050	0.10	0.050	9024269
Acid Extractable Tin (Sn)	ug/g	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	9024269
Acid Extractable Uranium (U)	ug/g	0.095	0.050	2.7	0.050	3.7	0.050	3.1	0.050	9024269
Acid Extractable Vanadium (V)	ug/g	<5.0	5.0	16	5.0	20	5.0	25	5.0	9024269
Acid Extractable Zinc (Zn)	ug/g	7.4	5.0	91	5.0	77	5.0	59	5.0	9024269
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.056	0.050	<0.050	0.050	<0.050	0.050	9024269

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ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Bureau Veritas ID		XKU193		XKU194	XKU194			XKU195		
Sampling Date		2023/10/14 15:00		2023/10/15 12:00	2023/10/15 12:00			2023/10/16 11:00		
COC Number		956426-07-01		956426-07-01	956426-07-01			956426-07-01		
	UNITS	WC-12	QC Batch	WC-10	WC-10 Lab-Dup	RDL	QC Batch	WC-06	RDL	QC Batch
Metals										
Acid Extractable Aluminum (Al)	ug/g	4700	9024269	4100	3600	50	9024827	1700	50	9024269
Acid Extractable Antimony (Sb)	ug/g	<0.20	9024269	<0.20	<0.20	0.20	9024827	<0.20	0.20	9024269
Acid Extractable Arsenic (As)	ug/g	<1.0	9024269	<1.0	<1.0	1.0	9024827	2.9	1.0	9024269
Acid Extractable Barium (Ba)	ug/g	50	9024269	53	53	0.50	9024827	2300	0.50	9024269
Acid Extractable Beryllium (Be)	ug/g	<0.20	9024269	<0.20	<0.20	0.20	9024827	<0.20	0.20	9024269
Acid Extractable Bismuth (Bi)	ug/g	<1.0	9024269	<1.0	<1.0	1.0	9024827	<1.0	1.0	9024269
Acid Extractable Boron (B)	ug/g	<5.0	9024269	<5.0	<5.0	5.0	9024827	<5.0	5.0	9024269
Acid Extractable Cadmium (Cd)	ug/g	<0.10	9024269	<0.10	<0.10	0.10	9024827	0.14	0.10	9024269
Acid Extractable Calcium (Ca)	ug/g	2000	9024269	2200	2200	50	9024827	4900	50	9024269
Acid Extractable Chromium (Cr)	ug/g	29	9024269	41	49	1.0	9024827	12	1.0	9024269
Acid Extractable Cobalt (Co)	ug/g	3.9	9024269	8.9	11	0.10	9024827	4.6	0.10	9024269
Acid Extractable Copper (Cu)	ug/g	11	9024269	8.1	10	0.50	9024827	2.5	0.50	9024269
Acid Extractable Iron (Fe)	ug/g	11000	9024269	53000	67000	50	9024827	99000	50	9024269
Acid Extractable Lead (Pb)	ug/g	3.3	9024269	15	4.8 (1)	1.0	9024827	1.1	1.0	9024269
Acid Extractable Magnesium (Mg)	ug/g	3600	9024269	3600	3200	50	9024827	1800	50	9024269
Acid Extractable Manganese (Mn)	ug/g	100	9024269	870	1100	1.0	9024827	25000	5.0	9024269
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	9024269	0.69	0.87	0.50	9024827	25	0.50	9024269
Acid Extractable Nickel (Ni)	ug/g	13	9024269	16	16	0.50	9024827	9.6	0.50	9024269
Acid Extractable Phosphorus (P)	ug/g	510	9024269	440	530	50	9024827	520	50	9024269
Acid Extractable Potassium (K)	ug/g	1500	9024269	1200	1000	200	9024827	310	200	9024269
Acid Extractable Selenium (Se)	ug/g	<0.50	9024269	<0.50	<0.50	0.50	9024827	<0.50	0.50	9024269
Acid Extractable Silver (Ag)	ug/g	<0.20	9024269	<0.20	<0.20	0.20	9024827	<0.20	0.20	9024269
Acid Extractable Sodium (Na)	ug/g	62	9024269	97	86	50	9024827	54	50	9024269
Acid Extractable Strontium (Sr)	ug/g	13	9024269	9.4	9.2	1.0	9024827	18	1.0	9024269
Acid Extractable Thallium (Tl)	ug/g	0.097	9024269	0.11	0.086	0.050	9024827	0.67	0.050	9024269
Acid Extractable Tin (Sn)	ug/g	<1.0	9024269	<1.0	<1.0	1.0	9024827	<1.0	1.0	9024269
Acid Extractable Uranium (U)	ug/g	0.32	9024269	0.49	0.57	0.050	9024827	2.3	0.050	9024269
Acid Extractable Vanadium (V)	ug/g	17	9024269	33	39	5.0	9024827	13	5.0	9024269
Acid Extractable Zinc (Zn)	ug/g	21	9024269	29	28	5.0	9024827	29	5.0	9024269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Bureau Veritas ID		XKU193		XKU194	XKU194			XKU195		
Sampling Date		2023/10/14 15:00		2023/10/15 12:00	2023/10/15 12:00			2023/10/16 11:00		
COC Number		956426-07-01		956426-07-01	956426-07-01			956426-07-01		
	UNITS	**WC-12**	**QC Batch**	**WC-10**	**WC-10 Lab-Dup**	**RDL**	**QC Batch**	**WC-06**	**RDL**	**QC Batch**
Acid Extractable Mercury (Hg)	ug/g	<0.050	9024269	<0.050	<0.050	0.050	9024827	<0.050	0.050	9024269

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ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Bureau Veritas ID		XKU196		XKU197	XKU198	XKU250		
Sampling Date		2023/10/16 15:00		2023/10/17 11:00	2023/10/17	2023/10/17 15:00		
COC Number		956426-07-01		956426-07-01	956426-07-01	956426-06-01		
	UNITS	WC-07	RDL	WC-08	DUP	WC-09	RDL	QC Batch
Metals								
Acid Extractable Aluminum (Al)	ug/g	2400	50	6300	4900	8700	50	9024269
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	<0.20	<0.20	<0.20	0.20	9024269
Acid Extractable Arsenic (As)	ug/g	1.3	1.0	1.3	<1.0	1.2	1.0	9024269
Acid Extractable Barium (Ba)	ug/g	650	0.50	320	120	100	0.50	9024269
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.20	<0.20	<0.20	0.20	0.20	9024269
Acid Extractable Bismuth (Bi)	ug/g	<1.0	1.0	<1.0	<1.0	<1.0	1.0	9024269
Acid Extractable Boron (B)	ug/g	<5.0	5.0	<5.0	<5.0	<5.0	5.0	9024269
Acid Extractable Cadmium (Cd)	ug/g	0.27	0.10	0.11	<0.10	0.19	0.10	9024269
Acid Extractable Calcium (Ca)	ug/g	30000	50	4900	3700	3400	50	9024269
Acid Extractable Chromium (Cr)	ug/g	10	1.0	35	26	41	1.0	9024269
Acid Extractable Cobalt (Co)	ug/g	4.2	0.10	8.9	5.9	12	0.10	9024269
Acid Extractable Copper (Cu)	ug/g	2.8	0.50	7.2	4.9	8.1	0.50	9024269
Acid Extractable Iron (Fe)	ug/g	43000	50	44000	47000	50000	50	9024269
Acid Extractable Lead (Pb)	ug/g	2.4	1.0	2.3	1.6	3.9	1.0	9024269
Acid Extractable Magnesium (Mg)	ug/g	17000	50	6300	4600	5500	50	9024269
Acid Extractable Manganese (Mn)	ug/g	9500	5.0	4700	2300	2100	1.0	9024269
Acid Extractable Molybdenum (Mo)	ug/g	4.0	0.50	2.9	1.4	3.3	0.50	9024269
Acid Extractable Nickel (Ni)	ug/g	9.3	0.50	21	13	29	0.50	9024269
Acid Extractable Phosphorus (P)	ug/g	690	50	710	650	740	50	9024269
Acid Extractable Potassium (K)	ug/g	230	200	960	590	1400	200	9024269
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	<0.50	<0.50	<0.50	0.50	9024269
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	<0.20	<0.20	<0.20	0.20	9024269
Acid Extractable Sodium (Na)	ug/g	<50	50	53	<50	68	50	9024269
Acid Extractable Strontium (Sr)	ug/g	14	1.0	9.2	7.0	15	1.0	9024269
Acid Extractable Thallium (Tl)	ug/g	0.16	0.050	0.20	0.080	0.25	0.050	9024269
Acid Extractable Tin (Sn)	ug/g	<1.0	1.0	<1.0	<1.0	<1.0	1.0	9024269
Acid Extractable Uranium (U)	ug/g	1.7	0.050	1.7	1.1	1.1	0.050	9024269
Acid Extractable Vanadium (V)	ug/g	11	5.0	23	17	26	5.0	9024269
Acid Extractable Zinc (Zn)	ug/g	51	5.0	35	24	72	5.0	9024269
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	<0.050	<0.050	<0.050	0.050	9024269

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ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Bureau Veritas ID		XKU251			XKU252		XKU253	XKU254		
Sampling Date		2023/10/18 14:00			2023/10/19 12:45		2023/10/19 15:30	2023/10/20 12:00		
COC Number		956426-06-01			956426-06-01		956426-06-01	956426-06-01		
	UNITS	WC-02	RDL	QC Batch	WC-01	RDL	PL-02	WC-03	RDL	QC Batch
Metals										
Acid Extractable Aluminum (Al)	ug/g	4000	50	9024474	4100	50	12000	3600	50	9024269
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	9024474	<0.20	0.20	<0.20	<0.20	0.20	9024269
Acid Extractable Arsenic (As)	ug/g	<1.0	1.0	9024474	<1.0	1.0	1.6	<1.0	1.0	9024269
Acid Extractable Barium (Ba)	ug/g	82	0.50	9024474	210	0.50	250	37	0.50	9024269
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.20	9024474	<0.20	0.20	0.27	<0.20	0.20	9024269
Acid Extractable Bismuth (Bi)	ug/g	<1.0	1.0	9024474	<1.0	1.0	<1.0	<1.0	1.0	9024269
Acid Extractable Boron (B)	ug/g	<5.0	5.0	9024474	<5.0	5.0	<5.0	<5.0	5.0	9024269
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	9024474	<0.10	0.10	0.35	<0.10	0.10	9024269
Acid Extractable Calcium (Ca)	ug/g	1900	50	9024474	3200	50	6300	2300	50	9024269
Acid Extractable Chromium (Cr)	ug/g	17	1.0	9024474	18	1.0	38	21	1.0	9024269
Acid Extractable Cobalt (Co)	ug/g	2.8	0.10	9024474	5.3	0.10	10	2.7	0.10	9024269
Acid Extractable Copper (Cu)	ug/g	1.8	0.50	9024474	5.5	0.50	17	2.7	0.50	9024269
Acid Extractable Iron (Fe)	ug/g	9400	50	9024474	20000	50	100000	13000	50	9024269
Acid Extractable Lead (Pb)	ug/g	8.3	1.0	9024474	2.4	1.0	11	2.7	1.0	9024269
Acid Extractable Magnesium (Mg)	ug/g	2600	50	9024474	2200	50	2200	2200	50	9024269
Acid Extractable Manganese (Mn)	ug/g	980	1.0	9024474	5500	5.0	4700	140	1.0	9024269
Acid Extractable Molybdenum (Mo)	ug/g	1.0	0.50	9024474	1.8	0.50	1.9	<0.50	0.50	9024269
Acid Extractable Nickel (Ni)	ug/g	8.2	0.50	9024474	12	0.50	22	7.2	0.50	9024269
Acid Extractable Phosphorus (P)	ug/g	450	50	9024474	630	50	1800	470	50	9024269
Acid Extractable Potassium (K)	ug/g	760	200	9024474	450	200	650	540	200	9024269
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	9024474	<0.50	0.50	0.88	<0.50	0.50	9024269
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	9024474	<0.20	0.20	0.21	<0.20	0.20	9024269
Acid Extractable Sodium (Na)	ug/g	<50	50	9024474	66	50	79	75	50	9024269
Acid Extractable Strontium (Sr)	ug/g	12	1.0	9024474	14	1.0	17	13	1.0	9024269
Acid Extractable Thallium (Tl)	ug/g	0.086	0.050	9024474	0.19	0.050	0.23	<0.050	0.050	9024269
Acid Extractable Tin (Sn)	ug/g	<1.0	1.0	9024474	<1.0	1.0	<1.0	<1.0	1.0	9024269
Acid Extractable Uranium (U)	ug/g	0.51	0.050	9024474	2.1	0.050	5.7	0.73	0.050	9024269
Acid Extractable Vanadium (V)	ug/g	10	5.0	9024474	12	5.0	17	13	5.0	9024269
Acid Extractable Zinc (Zn)	ug/g	17	5.0	9024474	31	5.0	80	13	5.0	9024269
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	9024474	<0.050	0.050	0.15	<0.050	0.050	9024269

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ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Bureau Veritas ID		XKU255		XKU256	XKU257		XKU258		
Sampling Date		2023/10/21 12:00		2023/10/21 11:30	2023/10/21 13:30		2023/10/22 11:30		
COC Number		956426-06-01		956426-06-01	956426-06-01		956426-06-01		
	UNITS	WC-04	RDL	MIL-03	MIL-02	RDL	MOL-02	RDL	QC Batch
Metals									
Acid Extractable Aluminum (Al)	ug/g	13000	50	16000	15000	50	13000	50	9024827
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	<0.20	<0.20	0.20	<0.20	0.20	9024827
Acid Extractable Arsenic (As)	ug/g	<1.0	1.0	2.3	2.4	1.0	1.6	1.0	9024827
Acid Extractable Barium (Ba)	ug/g	110	0.50	1000	640	0.50	160	0.50	9024827
Acid Extractable Beryllium (Be)	ug/g	0.26	0.20	0.40	0.42	0.20	0.27	0.20	9024827
Acid Extractable Bismuth (Bi)	ug/g	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	9024827
Acid Extractable Boron (B)	ug/g	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	9024827
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.82	0.77	0.10	0.59	0.10	9024827
Acid Extractable Calcium (Ca)	ug/g	3800	50	6900	6400	50	6900	50	9024827
Acid Extractable Chromium (Cr)	ug/g	53	1.0	57	50	1.0	48	1.0	9024827
Acid Extractable Cobalt (Co)	ug/g	9.2	0.10	9.7	12	0.10	5.9	0.10	9024827
Acid Extractable Copper (Cu)	ug/g	15	0.50	29	23	0.50	21	0.50	9024827
Acid Extractable Iron (Fe)	ug/g	35000	50	44000	74000	50	17000	50	9024827
Acid Extractable Lead (Pb)	ug/g	4.8	1.0	17	23	1.0	32	1.0	9024827
Acid Extractable Magnesium (Mg)	ug/g	9000	50	4500	4300	50	3000	50	9024827
Acid Extractable Manganese (Mn)	ug/g	400	1.0	13000	12000	5.0	940	1.0	9024827
Acid Extractable Molybdenum (Mo)	ug/g	2.7	0.50	11	3.5	0.50	5.1	0.50	9024827
Acid Extractable Nickel (Ni)	ug/g	24	0.50	33	34	0.50	19	0.50	9024827
Acid Extractable Phosphorus (P)	ug/g	740	50	1700	1400	50	1400	50	9024827
Acid Extractable Potassium (K)	ug/g	3200	200	1400	1500	200	900	200	9024827
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	1.5	1.2	0.50	1.2	0.50	9024827
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.37	0.29	0.20	0.38	0.20	9024827
Acid Extractable Sodium (Na)	ug/g	75	50	150	160	50	110	50	9024827
Acid Extractable Strontium (Sr)	ug/g	14	1.0	24	21	1.0	22	1.0	9024827
Acid Extractable Thallium (Tl)	ug/g	0.27	0.050	0.34	0.42	0.050	0.17	0.050	9024827
Acid Extractable Tin (Sn)	ug/g	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	9024827
Acid Extractable Uranium (U)	ug/g	2.2	0.050	15	12	0.050	9.4	0.050	9024827
Acid Extractable Vanadium (V)	ug/g	49	5.0	35	34	5.0	19	5.0	9024827
Acid Extractable Zinc (Zn)	ug/g	90	5.0	130	120	5.0	81	5.0	9024827
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.13	0.10	0.050	0.15	0.050	9024827

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Bureau Veritas ID		XKU259	XKU293	XKU294			XKU295		
Sampling Date		2023/10/22 15:30	2023/10/23 12:30	2023/10/23 15:00			2023/10/24 11:45		
COC Number		956426-06-01	956426-05-01	956426-05-01			956426-05-01		
	UNITS	DL-02	RL-02	WC-11	RDL	QC Batch	LL-02	RDL	QC Batch
Metals									
Acid Extractable Aluminum (Al)	ug/g	15000	5500	2400	50	9024269	17000	50	9024827
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.20	9024269	<0.20	0.20	9024827
Acid Extractable Arsenic (As)	ug/g	1.7	<1.0	<1.0	1.0	9024269	7.4	1.0	9024827
Acid Extractable Barium (Ba)	ug/g	250	150	43	0.50	9024269	1900	0.50	9024827
Acid Extractable Beryllium (Be)	ug/g	0.37	<0.20	<0.20	0.20	9024269	0.49	0.20	9024827
Acid Extractable Bismuth (Bi)	ug/g	<1.0	<1.0	<1.0	1.0	9024269	<1.0	1.0	9024827
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	5.0	9024269	<5.0	5.0	9024827
Acid Extractable Cadmium (Cd)	ug/g	0.61	0.44	<0.10	0.10	9024269	0.93	0.10	9024827
Acid Extractable Calcium (Ca)	ug/g	4200	5500	4900	50	9024269	5700	50	9024827
Acid Extractable Chromium (Cr)	ug/g	70	24	14	1.0	9024269	56	1.0	9024827
Acid Extractable Cobalt (Co)	ug/g	18	6.2	3.5	0.10	9024269	18	0.10	9024827
Acid Extractable Copper (Cu)	ug/g	46	19	2.7	0.50	9024269	32	0.50	9024827
Acid Extractable Iron (Fe)	ug/g	39000	36000	56000	50	9024269	170000	250	9024827
Acid Extractable Lead (Pb)	ug/g	58	7.7	3.7	1.0	9024269	11	1.0	9024827
Acid Extractable Magnesium (Mg)	ug/g	6700	3400	3000	50	9024269	4700	50	9024827
Acid Extractable Manganese (Mn)	ug/g	1900	1500	770	1.0	9024269	21000	5.0	9024827
Acid Extractable Molybdenum (Mo)	ug/g	4.8	4.2	1.1	0.50	9024269	43	0.50	9024827
Acid Extractable Nickel (Ni)	ug/g	42	19	6.5	0.50	9024269	61	0.50	9024827
Acid Extractable Phosphorus (P)	ug/g	1400	850	690	50	9024269	4800	50	9024827
Acid Extractable Potassium (K)	ug/g	3200	930	340	200	9024269	1600	200	9024827
Acid Extractable Selenium (Se)	ug/g	0.58	0.96	<0.50	0.50	9024269	2.4	0.50	9024827
Acid Extractable Silver (Ag)	ug/g	0.43	<0.20	<0.20	0.20	9024269	0.20	0.20	9024827
Acid Extractable Sodium (Na)	ug/g	250	110	<50	50	9024269	85	50	9024827
Acid Extractable Strontium (Sr)	ug/g	29	14	7.4	1.0	9024269	19	1.0	9024827
Acid Extractable Thallium (Tl)	ug/g	0.39	0.16	<0.050	0.050	9024269	0.48	0.050	9024827
Acid Extractable Tin (Sn)	ug/g	3.2	<1.0	<1.0	1.0	9024269	<1.0	1.0	9024827
Acid Extractable Uranium (U)	ug/g	3.0	6.6	1.0	0.050	9024269	15	0.050	9024827
Acid Extractable Vanadium (V)	ug/g	40	19	12	5.0	9024269	39	5.0	9024827
Acid Extractable Zinc (Zn)	ug/g	140	87	20	5.0	9024269	140	5.0	9024827
Acid Extractable Mercury (Hg)	ug/g	0.14	<0.050	<0.050	0.050	9024269	0.070	0.050	9024827

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Bureau Veritas ID		XKU296		
Sampling Date		2023/10/24 14:30		
COC Number		956426-05-01		
	UNITS	LL-03	RDL	QC Batch
Metals				
Acid Extractable Aluminum (Al)	ug/g	15000	50	9024269
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	9024269
Acid Extractable Arsenic (As)	ug/g	6.3	1.0	9024269
Acid Extractable Barium (Ba)	ug/g	1700	0.50	9024269
Acid Extractable Beryllium (Be)	ug/g	0.50	0.20	9024269
Acid Extractable Bismuth (Bi)	ug/g	<1.0	1.0	9024269
Acid Extractable Boron (B)	ug/g	<5.0	5.0	9024269
Acid Extractable Cadmium (Cd)	ug/g	0.91	0.10	9024269
Acid Extractable Calcium (Ca)	ug/g	6000	50	9024269
Acid Extractable Chromium (Cr)	ug/g	56	1.0	9024269
Acid Extractable Cobalt (Co)	ug/g	19	0.10	9024269
Acid Extractable Copper (Cu)	ug/g	27	0.50	9024269
Acid Extractable Iron (Fe)	ug/g	100000	250	9024269
Acid Extractable Lead (Pb)	ug/g	31	1.0	9024269
Acid Extractable Magnesium (Mg)	ug/g	5400	50	9024269
Acid Extractable Manganese (Mn)	ug/g	39000	10	9024269
Acid Extractable Molybdenum (Mo)	ug/g	9.2	0.50	9024269
Acid Extractable Nickel (Ni)	ug/g	50	0.50	9024269
Acid Extractable Phosphorus (P)	ug/g	2500	50	9024269
Acid Extractable Potassium (K)	ug/g	1800	200	9024269
Acid Extractable Selenium (Se)	ug/g	1.8	0.50	9024269
Acid Extractable Silver (Ag)	ug/g	0.26	0.20	9024269
Acid Extractable Sodium (Na)	ug/g	140	50	9024269
Acid Extractable Strontium (Sr)	ug/g	22	1.0	9024269
Acid Extractable Thallium (Tl)	ug/g	0.53	0.050	9024269
Acid Extractable Tin (Sn)	ug/g	<1.0	1.0	9024269
Acid Extractable Uranium (U)	ug/g	12	0.050	9024269
Acid Extractable Vanadium (V)	ug/g	41	5.0	9024269
Acid Extractable Zinc (Zn)	ug/g	130	5.0	9024269
Acid Extractable Mercury (Hg)	ug/g	0.13	0.050	9024269

RDL = Reportable Detection Limit
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SUBCONTRACTED ANALYSIS (SEDIMENT)

Bureau Veritas ID		XKU189	XKU190		XKU191		XKU192		
Sampling Date		2023/10/13 12:00	2023/10/13 13:30		2023/10/13 15:30		2023/10/13 13:00		
COC Number		956426-07-01	956426-07-01		956426-07-01		956426-07-01		
	UNITS	WC-15	WC-14	QC Batch	WC-13	QC Batch	WC-05	RDL	QC Batch
Physical Testing									
Clay	%	<2.0	14	9083028	2.3	9083028	2.4	2.0	9083028
Sand	%	98	66	9083028	95	9083028	62	2.0	9083028
Silt	%	<2.0	20	9083028	2.3	9083028	35	2.0	9083028
Texture	N/A	SAND	SANDY LOAM	9083027	SAND	9083029	SANDY LOAM	N/A	9083030

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		XKU193	XKU194		XKU195		XKU196	XKU197		
Sampling Date		2023/10/14 15:00	2023/10/15 12:00		2023/10/16 11:00		2023/10/16 15:00	2023/10/17 11:00		
COC Number		956426-07-01	956426-07-01		956426-07-01		956426-07-01	956426-07-01		
	UNITS	WC-12	WC-10	QC Batch	WC-06	QC Batch	WC-07	WC-08	RDL	QC Batch
Physical Testing										
Clay	%	<2.0	<2.0	9083028	3.3	9083031	<2.0	3.2	2.0	9083028
Sand	%	97	99	9083028	95	9083031	95	95	2.0	9083028
Silt	%	<2.0	<2.0	9083028	<2.0	9083031	3.3	<2.0	2.0	9083028
Texture	N/A	SAND	SAND	9083030	SAND	9083030	SAND	SAND	N/A	9083030

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		XKU197			XKU198	XKU250		XKU251		
Sampling Date		2023/10/17 11:00			2023/10/17	2023/10/17 15:00		2023/10/18 14:00		
COC Number		956426-07-01			956426-07-01	956426-06-01		956426-06-01		
	UNITS	WC-08 Lab-Dup	RDL	QC Batch	DUP	WC-09	QC Batch	WC-02	RDL	QC Batch
Physical Testing										
Clay	%	2.2	2.0	9083028	<2.0	<2.0	9083028	3.3	2.0	9083031
Sand	%	96	2.0	9083028	96	96	9083028	96	2.0	9083031
Silt	%	<2.0	2.0	9083028	3.1	3.1	9083028	<2.0	2.0	9083031
Texture	N/A				SAND	SAND	9083030	SAND	N/A	9083030

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

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SUBCONTRACTED ANALYSIS (SEDIMENT)

Bureau Veritas ID		XKU252		XKU253		XKU254	XKU255		
Sampling Date		2023/10/19 12:45		2023/10/19 15:30		2023/10/20 12:00	2023/10/21 12:00		
COC Number		956426-06-01		956426-06-01		956426-06-01	956426-06-01		
	UNITS	WC-01	QC Batch	PL-02	QC Batch	WC-03	WC-04	RDL	QC Batch
Physical Testing									
Clay	%	6.3	9083031	15	9083032	4.6	4.9	2.0	9083031
Sand	%	88	9083031	64	9083032	92	91	2.0	9083031
Silt	%	6.1	9083031	22	9083032	3.5	3.6	2.0	9083031
Texture	N/A	LOAMY SAND	9083030	SANDY LOAM	9083030	SAND	SAND	N/A	9083030

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		XKU256	XKU257	XKU258		XKU259		
Sampling Date		2023/10/21 11:30	2023/10/21 13:30	2023/10/22 11:30		2023/10/22 15:30		
COC Number		956426-06-01	956426-06-01	956426-06-01		956426-06-01		
	UNITS	MIL-03	MIL-02	MOL-02	QC Batch	DL-02	RDL	QC Batch
Physical Testing								
Clay	%	11	9.8	17	9083032	22	2.0	9083033
Sand	%	53	55	40	9083032	11	2.0	9083033
Silt	%	36	35	43	9083032	67	2.0	9083033
Texture	N/A	SANDY LOAM	SANDY LOAM	LOAM	9083030	SILT LOAM	N/A	9083030

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		XKU293		XKU294		XKU295		
Sampling Date		2023/10/23 12:30		2023/10/23 15:00		2023/10/24 11:45		
COC Number		956426-05-01		956426-05-01		956426-05-01		
	UNITS	RL-02	QC Batch	WC-11	QC Batch	LL-02	RDL	QC Batch
Physical Testing								
Clay	%	5.5	9083032	2.3	9083028	14	2.0	9083033
Sand	%	78	9083032	92	9083028	48	2.0	9083033
Silt	%	16	9083032	5.7	9083028	38	2.0	9083033
Texture	N/A	LOAMY SAND	9083030	SAND	9083030	LOAM	N/A	9083030

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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SUBCONTRACTED ANALYSIS (SEDIMENT)

Bureau Veritas ID		XKU296		
Sampling Date		2023/10/24 14:30		
COC Number		956426-05-01		
	UNITS	**LL-03**	**RDL**	**QC Batch**
Physical Testing				
Clay	%	9.1	2.0	9083032
Sand	%	53	2.0	9083032
Silt	%	37	2.0	9083032
Texture	N/A	SANDY LOAM	N/A	9083030

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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TEST SUMMARY

Bureau Veritas ID: XKU189
Sample ID: WC-15
Matrix: Sediment

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/06	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083027	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU190
Sample ID: WC-14
Matrix: Sediment

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/06	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083027	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU191
Sample ID: WC-13
Matrix: Sediment

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/06	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083029	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU192
Sample ID: WC-05
Matrix: Sediment

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/11	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: XKU192
Sample ID: WC-05
Matrix: Sediment

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9032822	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU192 Dup
Sample ID: WC-05
Matrix: Sediment

Collected: 2023/10/13
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen	COMB	9032822	N/A	2023/11/12	Samuel Law

Bureau Veritas ID: XKU193
Sample ID: WC-12
Matrix: Sediment

Collected: 2023/10/14
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU194
Sample ID: WC-10
Matrix: Sediment

Collected: 2023/10/15
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024827	2023/11/02	2023/11/07	Prempal Bhatti
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

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TEST SUMMARY

Bureau Veritas ID: XKU194 Dup
Sample ID: WC-10
Matrix: Sediment

Collected: 2023/10/15
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024827	2023/11/02	2023/11/07	Prempal Bhatti
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU195
Sample ID: WC-06
Matrix: Sediment

Collected: 2023/10/16
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/06	Daniel Teclu
Texture by Hydrometer		9083031	N/A	2023/11/10	Maria Eliza Javier
Texture Class	CALC	9083030	N/A	2023/11/10	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU196
Sample ID: WC-07
Matrix: Sediment

Collected: 2023/10/16
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/06	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU197
Sample ID: WC-08
Matrix: Sediment

Collected: 2023/10/17
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKU197 Dup
Sample ID: WC-08
Matrix: Sediment
Collected: 2023/10/17
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol

Bureau Veritas ID: XKU198
Sample ID: DUP
Matrix: Sediment
Collected: 2023/10/17
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU198 Dup
Sample ID: DUP
Matrix: Sediment
Collected: 2023/10/17
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal

Bureau Veritas ID: XKU250
Sample ID: WC-09
Matrix: Sediment
Collected: 2023/10/17
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU251
Sample ID: WC-02
Matrix: Sediment
Collected: 2023/10/18
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024474	2023/11/02	2023/11/06	Prempal Bhatti
Texture by Hydrometer		9083031	N/A	2023/11/10	Maria Eliza Javier
Texture Class	CALC	9083030	N/A	2023/11/10	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKU251 **Collected:** 2023/10/18
Sample ID: WC-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024526	N/A	2023/11/03	Samuel Law

Bureau Veritas ID: XKU251 Dup **Collected:** 2023/10/18
Sample ID: WC-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon in Soil	COMB	9024526	N/A	2023/11/03	Samuel Law

Bureau Veritas ID: XKU252 **Collected:** 2023/10/19
Sample ID: WC-01 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/06	Daniel Teclu
Texture by Hydrometer		9083031	N/A	2023/11/10	Maria Eliza Javier
Texture Class	CALC	9083030	N/A	2023/11/10	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU252 Dup **Collected:** 2023/10/19
Sample ID: WC-01 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law

Bureau Veritas ID: XKU253 **Collected:** 2023/10/19
Sample ID: PL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083032	N/A	2023/11/30	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/30	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKU254 **Collected:** 2023/10/20
Sample ID: WC-03 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083031	N/A	2023/11/10	Maria Eliza Javier
Texture Class	CALC	9083030	N/A	2023/11/10	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU255 **Collected:** 2023/10/21
Sample ID: WC-04 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024827	2023/11/02	2023/11/06	Prempal Bhatti
Texture by Hydrometer		9083031	N/A	2023/11/10	Maria Eliza Javier
Texture Class	CALC	9083030	N/A	2023/11/10	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU256 **Collected:** 2023/10/21
Sample ID: MIL-03 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024827	2023/11/02	2023/11/07	Prempal Bhatti
Texture by Hydrometer		9083032	N/A	2023/11/30	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/30	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026428	2023/11/03	2023/11/03	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024526	N/A	2023/11/03	Samuel Law

Bureau Veritas ID: XKU256 Dup **Collected:** 2023/10/21
Sample ID: MIL-03 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026428	2023/11/03	2023/11/03	Chandra Nandlal

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKU257 **Collected:** 2023/10/21
Sample ID: MIL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024827	2023/11/02	2023/11/07	Prempal Bhatti
Texture by Hydrometer		9083032	N/A	2023/11/30	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/30	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026428	2023/11/03	2023/11/03	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024526	N/A	2023/11/03	Samuel Law

Bureau Veritas ID: XKU258 **Collected:** 2023/10/22
Sample ID: MOL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024827	2023/11/02	2023/11/06	Prempal Bhatti
Texture by Hydrometer		9083032	N/A	2023/11/30	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/30	Automated Statchk
Moisture	BAL	9020971	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026428	2023/11/03	2023/11/03	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024526	N/A	2023/11/03	Samuel Law

Bureau Veritas ID: XKU259 **Collected:** 2023/10/22
Sample ID: DL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083033	N/A	2023/11/16	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/16	Automated Statchk
Moisture	BAL	9021175	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU293 **Collected:** 2023/10/23
Sample ID: RL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083032	N/A	2023/11/30	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/30	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: XKU293 **Collected:** 2023/10/23
Sample ID: RL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	9021316	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025854	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU294 **Collected:** 2023/10/23
Sample ID: WC-11 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/04	Daniel Teclu
Texture by Hydrometer		9083028	N/A	2023/11/11	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/11	Automated Statchk
Moisture	BAL	9021316	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9032822	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU295 **Collected:** 2023/10/24
Sample ID: LL-02 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024827	2023/11/02	2023/11/07	Prempal Bhatti
Texture by Hydrometer		9083033	N/A	2023/11/16	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/16	Automated Statchk
Moisture	BAL	9021316	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025880	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026448	2023/11/03	2023/11/04	Chandra Nandlal
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

Bureau Veritas ID: XKU296 **Collected:** 2023/10/24
Sample ID: LL-03 **Shipped:**
Matrix: Sediment **Received:** 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9024269	2023/11/02	2023/11/06	Daniel Teclu
Texture by Hydrometer		9083032	N/A	2023/11/30	Randeep Deol
Texture Class	CALC	9083030	N/A	2023/11/30	Automated Statchk
Moisture	BAL	9021316	N/A	2023/11/01	Muhammad Chhaidan
Nitrogen	COMB	9025880	N/A	2023/11/12	Samuel Law
Nitrate & Nitrite as Nitrogen in Soil	LACH	9026428	2023/11/03	2023/11/03	Chandra Nandlal

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C3X6644
Report Date: 2024/11/12

WSP Canada Inc.
Client Project #: CA0003092.5894/500
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: XKU296
Sample ID: LL-03
Matrix: Sediment

Collected: 2023/10/24
Shipped:
Received: 2023/10/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Calculated Total Kjeldahl Nitrogen	CALC	9015850	N/A	2023/11/13	Automated Statchk
Total Organic Carbon in Soil	COMB	9024500	N/A	2023/11/06	Samuel Law

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.7°C
Package 2	7.0°C
Package 3	4.0°C

Revised Report [2024/11/12]: Sample ID amended as per client request.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9020971	Moisture	2023/11/01							8.6	20		
9021175	Moisture	2023/11/01							1.9	20		
9021316	Moisture	2023/11/01							1.7	20		
9024269	Acid Extractable Aluminum (Al)	2023/11/04	NC	75 - 125	100	80 - 120	<50	ug/g				
9024269	Acid Extractable Antimony (Sb)	2023/11/04	92	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
9024269	Acid Extractable Arsenic (As)	2023/11/04	94	75 - 125	99	80 - 120	<1.0	ug/g	1.9	30		
9024269	Acid Extractable Barium (Ba)	2023/11/04	92	75 - 125	94	80 - 120	<0.50	ug/g	2.2	30		
9024269	Acid Extractable Beryllium (Be)	2023/11/04	88	75 - 125	92	80 - 120	<0.20	ug/g	0.60	30		
9024269	Acid Extractable Bismuth (Bi)	2023/11/04	92	75 - 125	96	80 - 120	<1.0	ug/g				
9024269	Acid Extractable Boron (B)	2023/11/04	88	75 - 125	90	80 - 120	<5.0	ug/g	NC	30		
9024269	Acid Extractable Cadmium (Cd)	2023/11/04	94	75 - 125	95	80 - 120	<0.10	ug/g	19	30		
9024269	Acid Extractable Calcium (Ca)	2023/11/04	NC	75 - 125	108	80 - 120	<50	ug/g				
9024269	Acid Extractable Chromium (Cr)	2023/11/04	95	75 - 125	96	80 - 120	<1.0	ug/g	2.8	30		
9024269	Acid Extractable Cobalt (Co)	2023/11/04	92	75 - 125	96	80 - 120	<0.10	ug/g	3.1	30		
9024269	Acid Extractable Copper (Cu)	2023/11/04	91	75 - 125	96	80 - 120	<0.50	ug/g	4.4	30		
9024269	Acid Extractable Iron (Fe)	2023/11/04	NC	75 - 125	107	80 - 120	<50	ug/g				
9024269	Acid Extractable Lead (Pb)	2023/11/04	93	75 - 125	95	80 - 120	<1.0	ug/g	5.0	30		
9024269	Acid Extractable Magnesium (Mg)	2023/11/04	NC	75 - 125	98	80 - 120	<50	ug/g				
9024269	Acid Extractable Manganese (Mn)	2023/11/04	NC	75 - 125	98	80 - 120	<1.0	ug/g				
9024269	Acid Extractable Mercury (Hg)	2023/11/04	95	75 - 125	97	80 - 120	<0.050	ug/g	NC	30		
9024269	Acid Extractable Molybdenum (Mo)	2023/11/04	92	75 - 125	92	80 - 120	<0.50	ug/g	NC	30		
9024269	Acid Extractable Nickel (Ni)	2023/11/04	95	75 - 125	99	80 - 120	<0.50	ug/g	0.92	30		
9024269	Acid Extractable Phosphorus (P)	2023/11/04	NC	75 - 125	94	80 - 120	<50	ug/g				
9024269	Acid Extractable Potassium (K)	2023/11/04	NC	75 - 125	97	80 - 120	<200	ug/g				
9024269	Acid Extractable Selenium (Se)	2023/11/04	96	75 - 125	100	80 - 120	<0.50	ug/g	NC	30		
9024269	Acid Extractable Silver (Ag)	2023/11/04	95	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
9024269	Acid Extractable Sodium (Na)	2023/11/04	93	75 - 125	103	80 - 120	<50	ug/g				
9024269	Acid Extractable Strontium (Sr)	2023/11/04	NC	75 - 125	98	80 - 120	<1.0	ug/g				
9024269	Acid Extractable Thallium (Tl)	2023/11/04	93	75 - 125	96	80 - 120	<0.050	ug/g	NC	30		
9024269	Acid Extractable Tin (Sn)	2023/11/04	90	75 - 125	86	80 - 120	<1.0	ug/g				
9024269	Acid Extractable Uranium (U)	2023/11/04	93	75 - 125	94	80 - 120	<0.050	ug/g	7.0	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9024269	Acid Extractable Vanadium (V)	2023/11/04	96	75 - 125	96	80 - 120	<5.0	ug/g	0.40	30		
9024269	Acid Extractable Zinc (Zn)	2023/11/04	NC	75 - 125	100	80 - 120	<5.0	ug/g	3.6	30		
9024474	Acid Extractable Aluminum (Al)	2023/11/06	NC	75 - 125	99	80 - 120	<50	ug/g				
9024474	Acid Extractable Antimony (Sb)	2023/11/06	80	75 - 125	98	80 - 120	<0.20	ug/g	NC	30		
9024474	Acid Extractable Arsenic (As)	2023/11/06	92	75 - 125	101	80 - 120	<1.0	ug/g	1.4	30		
9024474	Acid Extractable Barium (Ba)	2023/11/06	NC	75 - 125	97	80 - 120	<0.50	ug/g	1.4	30		
9024474	Acid Extractable Beryllium (Be)	2023/11/06	94	75 - 125	100	80 - 120	<0.20	ug/g	2.7	30		
9024474	Acid Extractable Bismuth (Bi)	2023/11/06	92	75 - 125	100	80 - 120	<1.0	ug/g				
9024474	Acid Extractable Boron (B)	2023/11/06	94	75 - 125	105	80 - 120	<5.0	ug/g	2.7	30		
9024474	Acid Extractable Cadmium (Cd)	2023/11/06	90	75 - 125	97	80 - 120	<0.10	ug/g	7.3	30		
9024474	Acid Extractable Calcium (Ca)	2023/11/06	NC	75 - 125	108	80 - 120	<50	ug/g				
9024474	Acid Extractable Chromium (Cr)	2023/11/06	88	75 - 125	96	80 - 120	<1.0	ug/g	3.3	30		
9024474	Acid Extractable Cobalt (Co)	2023/11/06	88	75 - 125	95	80 - 120	<0.10	ug/g	2.4	30		
9024474	Acid Extractable Copper (Cu)	2023/11/06	91	75 - 125	98	80 - 120	<0.50	ug/g	0.77	30		
9024474	Acid Extractable Iron (Fe)	2023/11/06	NC	75 - 125	109	80 - 120	<50	ug/g				
9024474	Acid Extractable Lead (Pb)	2023/11/06	90	75 - 125	99	80 - 120	<1.0	ug/g	2.3	30		
9024474	Acid Extractable Magnesium (Mg)	2023/11/06	NC	75 - 125	98	80 - 120	<50	ug/g				
9024474	Acid Extractable Manganese (Mn)	2023/11/06	NC	75 - 125	102	80 - 120	<1.0	ug/g				
9024474	Acid Extractable Mercury (Hg)	2023/11/06	94	75 - 125	103	80 - 120	<0.050	ug/g	NC	30		
9024474	Acid Extractable Molybdenum (Mo)	2023/11/06	85	75 - 125	93	80 - 120	<0.50	ug/g	NC	30		
9024474	Acid Extractable Nickel (Ni)	2023/11/06	95	75 - 125	101	80 - 120	<0.50	ug/g	1.4	30		
9024474	Acid Extractable Phosphorus (P)	2023/11/06	NC	75 - 125	100	80 - 120	<50	ug/g				
9024474	Acid Extractable Potassium (K)	2023/11/06	NC	75 - 125	99	80 - 120	<200	ug/g				
9024474	Acid Extractable Selenium (Se)	2023/11/06	94	75 - 125	100	80 - 120	<0.50	ug/g	NC	30		
9024474	Acid Extractable Silver (Ag)	2023/11/06	90	75 - 125	97	80 - 120	<0.20	ug/g	NC	30		
9024474	Acid Extractable Sodium (Na)	2023/11/06	94	75 - 125	103	80 - 120	<50	ug/g				
9024474	Acid Extractable Strontium (Sr)	2023/11/06	NC	75 - 125	99	80 - 120	<1.0	ug/g				
9024474	Acid Extractable Thallium (Tl)	2023/11/06	94	75 - 125	102	80 - 120	<0.050	ug/g	2.7	30		
9024474	Acid Extractable Tin (Sn)	2023/11/06	91	75 - 125	97	80 - 120	<1.0	ug/g				
9024474	Acid Extractable Uranium (U)	2023/11/06	90	75 - 125	97	80 - 120	<0.050	ug/g	1.4	30		
9024474	Acid Extractable Vanadium (V)	2023/11/06	NC	75 - 125	95	80 - 120	<5.0	ug/g	2.4	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9024474	Acid Extractable Zinc (Zn)	2023/11/06	NC	75 - 125	96	80 - 120	<5.0	ug/g	1.8	30		
9024500	Total Organic Carbon	2023/11/06					<500	mg/kg	7.1	35	100	75 - 125
9024526	Total Organic Carbon	2023/11/03					<500	mg/kg	4.4	35	102	75 - 125
9024827	Acid Extractable Aluminum (Al)	2023/11/07	NC	75 - 125	102	80 - 120	<50	ug/g	12	30		
9024827	Acid Extractable Antimony (Sb)	2023/11/07	94	75 - 125	96	80 - 120	<0.20	ug/g	NC	30		
9024827	Acid Extractable Arsenic (As)	2023/11/07	96	75 - 125	96	80 - 120	<1.0	ug/g	NC	30		
9024827	Acid Extractable Barium (Ba)	2023/11/07	NC	75 - 125	96	80 - 120	<0.50	ug/g	0.48	30		
9024827	Acid Extractable Beryllium (Be)	2023/11/07	96	75 - 125	96	80 - 120	<0.20	ug/g	NC	30		
9024827	Acid Extractable Bismuth (Bi)	2023/11/07	91	75 - 125	92	80 - 120	<1.0	ug/g	NC	30		
9024827	Acid Extractable Boron (B)	2023/11/07	105	75 - 125	102	80 - 120	<5.0	ug/g	NC	30		
9024827	Acid Extractable Cadmium (Cd)	2023/11/07	94	75 - 125	95	80 - 120	<0.10	ug/g	NC	30		
9024827	Acid Extractable Calcium (Ca)	2023/11/07	NC	75 - 125	109	80 - 120	<50	ug/g	0.63	30		
9024827	Acid Extractable Chromium (Cr)	2023/11/07	NC	75 - 125	91	80 - 120	<1.0	ug/g	18	30		
9024827	Acid Extractable Cobalt (Co)	2023/11/07	88	75 - 125	91	80 - 120	<0.10	ug/g	20	30		
9024827	Acid Extractable Copper (Cu)	2023/11/07	137 (1)	75 - 125	93	80 - 120	<0.50	ug/g	22	30		
9024827	Acid Extractable Iron (Fe)	2023/11/07	NC	75 - 125	104	80 - 120	<50	ug/g	24	30		
9024827	Acid Extractable Lead (Pb)	2023/11/07	44 (1)	75 - 125	91	80 - 120	<1.0	ug/g	104 (2)	30		
9024827	Acid Extractable Magnesium (Mg)	2023/11/07	NC	75 - 125	96	80 - 120	<50	ug/g	10	30		
9024827	Acid Extractable Manganese (Mn)	2023/11/07	NC	75 - 125	97	80 - 120	<1.0	ug/g	25	30		
9024827	Acid Extractable Mercury (Hg)	2023/11/07	96	75 - 125	101	80 - 120	<0.050	ug/g	NC	30		
9024827	Acid Extractable Molybdenum (Mo)	2023/11/07	88	75 - 125	89	80 - 120	<0.50	ug/g	22	30		
9024827	Acid Extractable Nickel (Ni)	2023/11/07	90	75 - 125	95	80 - 120	<0.50	ug/g	1.9	30		
9024827	Acid Extractable Phosphorus (P)	2023/11/07	94	75 - 125	97	80 - 120	<50	ug/g	19	30		
9024827	Acid Extractable Potassium (K)	2023/11/07	NC	75 - 125	98	80 - 120	<200	ug/g	15	30		
9024827	Acid Extractable Selenium (Se)	2023/11/07	95	75 - 125	98	80 - 120	<0.50	ug/g	NC	30		
9024827	Acid Extractable Silver (Ag)	2023/11/07	90	75 - 125	94	80 - 120	<0.20	ug/g	NC	30		
9024827	Acid Extractable Sodium (Na)	2023/11/07	82	75 - 125	105	80 - 120	<50	ug/g	13	30		
9024827	Acid Extractable Strontium (Sr)	2023/11/07	94	75 - 125	98	80 - 120	<1.0	ug/g	2.6	30		
9024827	Acid Extractable Thallium (Tl)	2023/11/07	91	75 - 125	93	80 - 120	<0.050	ug/g	21	30		
9024827	Acid Extractable Tin (Sn)	2023/11/07	96	75 - 125	97	80 - 120	<1.0	ug/g	NC	30		
9024827	Acid Extractable Uranium (U)	2023/11/07	90	75 - 125	91	80 - 120	<0.050	ug/g	15	30		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9024827	Acid Extractable Vanadium (V)	2023/11/07	NC	75 - 125	91	80 - 120	<5.0	ug/g	18	30		
9024827	Acid Extractable Zinc (Zn)	2023/11/07	NC	75 - 125	100	80 - 120	<5.0	ug/g	4.1	30		
9025854	Nitrogen (N)	2023/11/12					<0.010	%	14	35	95	90 - 110
9025880	Nitrogen (N)	2023/11/12					<0.010	%	18	35	95	90 - 110
9026428	Nitrate (N)	2023/11/03	102	N/A			<2	ug/g	NC	30		
9026428	Nitrate + Nitrite (N)	2023/11/03	104	N/A			<3	ug/g	NC	30	95	75 - 125
9026428	Nitrite (N)	2023/11/03	111	N/A			<0.5	ug/g	1.1	30		
9026448	Nitrate (N)	2023/11/04	93	N/A			<2	ug/g	NC	30		
9026448	Nitrate + Nitrite (N)	2023/11/04	96	N/A			<3	ug/g	NC	30	93	75 - 125
9026448	Nitrite (N)	2023/11/04	108	N/A			<0.5	ug/g	NC	30		
9032822	Nitrogen (N)	2023/11/12					<0.010	%	3.5	35	95	90 - 110
9083028	Clay	2023/11/11							NC	30	89	75 - 125
9083028	Sand	2023/11/11							1.3	30	104	75 - 125
9083028	Silt	2023/11/11							NC	30	110	75 - 125
9083031	Clay	2023/11/10									96	75 - 125
9083031	Sand	2023/11/10									96	75 - 125
9083031	Silt	2023/11/10									112	75 - 125
9083032	Clay	2023/11/30									96	75 - 125
9083032	Sand	2023/11/30									101	75 - 125
9083032	Silt	2023/11/30									102	75 - 125
9083033	Clay	2023/11/16									99	75 - 125
9083033	Sand	2023/11/16									97	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9083033	Silt	2023/11/16									106	75 - 125

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike exceeds acceptance limits, probable matrix interference

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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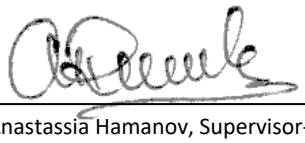
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Supervisor-Afternoon Shift

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN

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26-Oct-23 14:06
Ankita Bhalla
C3X6644
SBS ENV-1465
C#956426-07-01
Ankita Bhalla

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:	
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:	
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:	
				Sampled By:	Michael Hildebrandt + Brian Lingelbach

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558 ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Nitrogen	Total Organic Carbon in Soil	Calculated Total Kjeldahl Nitrogen	Nitrate & Nitrite as Nitrogen in Soil	Acid Extractable Metals by ICPMS	Texture by Hydrometer	O. Reg 153 ICPMS Metals	[illegible]	Alkalinity (as CaCO3) in water	[illegible]	# of Bottles	Comments
1		SC15	23/10/13	1200	Sed	X	X	X	X	X	X	X				3	Sed = Sediment
2		SC14	23/10/13	1330	Sed	↓	↓	↓	↓	↓	↓	↓				3	
3		SC13	23/10/13	1530	Sed											3	
4		WC-05	23/10/13	1300	Sed											2	
5		Daviault-01	23/10/14	1500	Sed											2	
6		WC-10	23/10/15	1200	Sed											2	
7		WC-06	23/10/16	1100	Sed											2	
8		WC-07	23/10/16	1500	Sed											2	
9		WC-08	23/10/17	1100	Sed											2	
10		DUP	23/10/17	—	Sed	↓	↓	↓	↓	↓	↓	↓				2	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
M. Hildebrandt	23/10/26	13:45	[illegible]	2023/10/26	14:06	

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei 4/7/3 | Custody Seal Present ☑ Intact ☑ Yes ☑ No ☐

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

7/17 8/0/4

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

Page of

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			956426
Address:	6925 Century Ave Suite 100 Mississauga ON L5N 7K2	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Project Name:		C#956426-06-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Site #:			
				Sampled By:	Michael Hildebrandt + Brian Lingelbach		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558 ☐ Storm Sewer Bylaw
- ☐ MISA Municipality _____
- ☐ PWQO ☐ Reg 406 Table _____
- ☐ Other _____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? _____

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Nitrogen	Total Organic Carbon in Soil	Calculated Total Kjeldahl Nitrogen	Nitrate & Nitrite as Nitrogen in Soil	Acid Extractable Metals by ICPMS	Texture by Hydrometer	O. Reg 153 ICPMS Metals	Alkalinity	Acidity (as CaCO3) in water	Conductivity	# of Bottles	Comments
1		WC-09	23/10/17	1500	Sed	X	X	X	X	X	X	X				2	Sed = Sediment
2		WC-02	23/10/18	1400	Sed	↓	↓	↓	↓	↓	↓	↓				2	
3		WC-01	23/10/19	1245	Sed											2	
4		Pike-02	23/10/19	1530	Sed											4	
5		WC-03	23/10/20	1200	Sed											2	
6		WC-04	23/10/21	1200	Sed											2	
7		Mills LP2	23/10/21	1130	Sed											4	
8		Mills LP	23/10/21	1330	Sed											4	
9		Molar LP	23/10/22	1130	Sed											4	
10		DL	23/10/22	1530	Sed	↓	↓	↓	↓	↓	↓	↓				4	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
M Hildebrandt	23/10/26	1345	See Rye			

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

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Bureau Veritas
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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#1326 WSP Canada Inc.	Company Name:		Quotation #:	C31027	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Michael Hildebrandt	P.O. #:			956426
Address:	6925 Century Ave Suite 100	Address:		Project:	CA0003092.5894/500	COC #:	Project Manager:
	Mississauga ON L5N 7K2			Project Name:			
Tel:	(905) 567-4444 Fax: (905) 567-6561	Tel:	Fax:	Site #:		C#956426-05-01	Ankita Bhalla
Email:	CAPayablesInvoice@wsp.com	Email:	michael_hildebrandt@golder.com	Sampled By:	Michael Hildebrandt + Brian Lingelbach		

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- ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
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(will be applied if Rush TAT is not specified):
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Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Nitrogen	Total Organic Carbon in Soil	Calculated Total Kjeldahl Nitrogen	Nitrate & Nitrite as Nitrogen in Soil	Acid Extractable Metals by ICPMS	Texture by Hydrometer	O. Reg 153 ICPMS Metals	Aluminum	Antimony (ICP-OES) in water	Carbamates	# of Bottles	Comments
1		Riordan - 02	23/10/23	1230	Sed		X	X	X	X	X	X	X				4	Sed = Sediment
2		SC12	23/10/23	1500	Sed		↓	↓	↓	↓	↓	↓	↓				2	
3		Long - 02	23/10/24	1145	Sed		↓	↓	↓	↓	↓	↓	↓				4	
4		Long - 03	23/10/24	1430	Sed		↓	↓	↓	↓	↓	↓	↓				4	
5					~~Sed~~													
6					~~Sed~~													
7																		
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9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
M. Hildebrandt	23/10/26	1345	See Page 1				Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
									Intact		

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APPENDIX F

Historic Results Review

F. REVIEW OF HISTORIC RESULTS

Water resources baseline study report (Stantec 2012) referred hereafter as the Stantec Report, in support of the previous EA process for the Kami Project, was reviewed. It presented results of water levels, flows, lake bathymetry and water and sediment quality based on the field measurement conducted from October 2011 to the end of May 2012.

The records from the Stantec Report were reviewed to further characterize baseline conditions on a local and regional scale. In the Stantec Report, field monitoring program included installation of seven (7) continuous monitoring stations around local study area to routinely monitor water levels and to estimate flow rates at selected representative stream and lake stations presented in Table F-1. These monitoring stations were also used as routine and seasonal sampling locations for water and sediment quality monitoring program. Note that during the field visit in April 2012, an additional ten (10) samples were collected at Long Lake, Waldorf River, Walsh River, Mills Lake, the Jean River crossing, Pike Lake and Molar Lake. Figure F-1 shows all surface water monitoring locations including routine monitoring station and April 2012 additional sampling locations.

Table F-1: Details of Routine Monitoring Stations (Stantec 2012)

Station ID	UTM Coordinates[(a)] Northing/Easting	Description
S1	5859719.7/632232.1	Located at the exit of the Pike Lake South watershed
S2	5856173.5/632802.9	Located at the exit of the Pike Lake South headwater watershed
S3	5851833.0/632431.0	Located at a small headwater watershed draining into Molar Lake
S4	5853070.8/634296.2	Located at the outlet of Molar Lake upstream of its discharge point into Mills Lake
S5	5856368.7/637517.1	Located in a tributary that discharges to the southeast end of Long Lake.
L1	5853238.3/634702.7	Located at Mills Lake
L2	5856469.0/637498.6	Located at Long Lake

Notes: (a) UTM coordinates based on NAD83 Zone 19.

A summary of stream and lake water levels and flows monitoring, and water and sediment quality results along with comparison to 2023-2024 results is presented in the following sections.

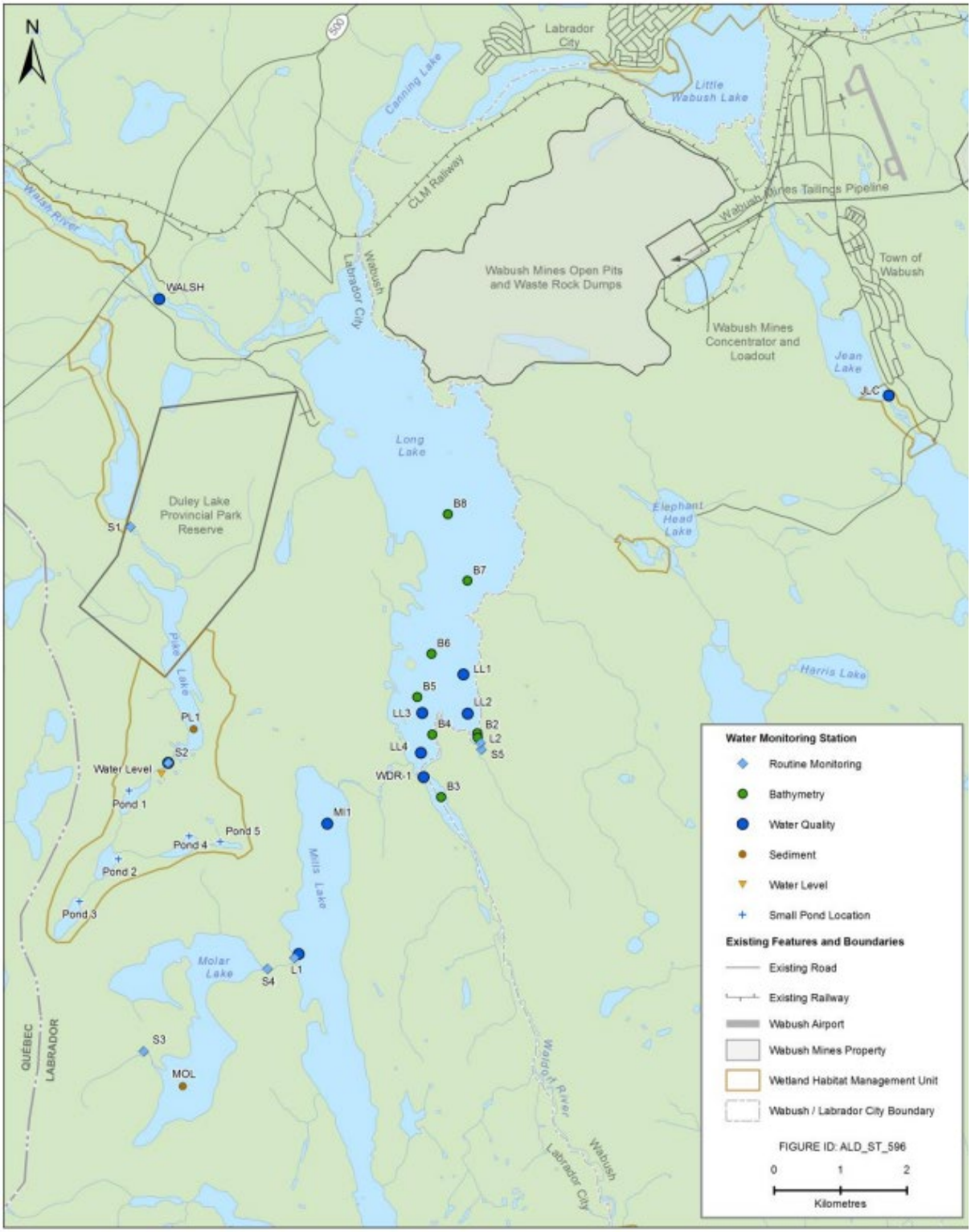

Figure F-1: Surface Water Monitoring Stations (source: Stantec 2012)

F-1 Water Levels and Flows

F-1.1 Manual flows

Manual flow were measured in October 2011 at five (5) monitoring locations (S1 to S5). A summary of flow measurements at monitoring stations is provided in the Table F-2. Manual flows ranged from 0.0047 m^3/s to 0.282 m^3/s, with the maximum flow occurring at S1 and the minimum flow occurring at S5. Table F-2 also provides flows measured during 2023-2024 field visits at stations located close to historic stations, where possible.

Comparison of historic flow measurements with the 2023-2024 flow measurements, at stations located in proximity of historic stations, showed that the historic flows were generally close to and / or within that range observed in 2023-2024, noting that some deviation due to meteorological factors are generally expected in such comparisons.

Table F-2: Summary of Historic Flow Measurements and 2023-2024 Flow Measurements

Station ID	Description	Historic Flow Rate (m^3/s)	2023-2024 Flow Rate
S1	Located at the exit of the Pike Lake South watershed	0.282	Manual flows at WC-02 (located close to S1) ranged from 0.040m^3/s to 0.532m^3/s, noting that in October 2023, measured flow was 0.237m^3/s.
S2	Located at the exit of the Pike Lake South headwater watershed	0.0874	Manual flows at WC-01 (located close to S2) ranged from 0.044 m^3/s to 0.150 m^3/s, noting that in October 2023, measured flow was 0.110 m^3/s.
S3	Located at a small headwater watershed draining into Molar Lake	0.0223	-[1]
S4	Located at the outlet of Molar Lake upstream of its discharge point into Mills Lake	0.103	Manual flows at WC-03 (located close to S4) ranged from 0.110 m^3/s to 0.391 m^3/s, noting that in October 2023, measured flow was 0.164 m^3/s.
S5	Located in a tributary that discharges to the southeast end of Long Lake.	0.0047	Manual flows at WC-06 (located close to S5) ranged from 0.014 m^3/s to 0.299 m^3/s, noting that in October 2023, measured flow was 0.071 m^3/s.

Note:

1. Flow monitoring was not completed on this watercourse in 2023-2024.

F-1.2 Rating Curves

Rating curves were developed for all five (5) stream gauging stations (S1 to S5) using Manning's equation. Parameters in Manning's equation was determined using the hydrological monitoring results and the channel cross section profiles. Stream flows at different stages was then calculated using Manning's equation to develop the discharge and stage relationship in the rating curve. Levelogger water level data was applied to the rating curves to generate continuous streamflow estimates. The rating curves were expected to remain valid for as long as the properties of the channel at the measurement point remain the same.

Contrary to Stantec Report's approach of using Manning's equation for stage-discharge rating curves, manual flows (measured during 2023-2024 field campaigns) were used to develop 2023-2024 stage-discharge rating curves using power-law rating curve equation - an approach that is commonly used for the development of stage-discharge rating curves. In addition, a 2nd stage-discharge rating curve, for stations where the flows were effected by spring freshet and / or beaver activity, was also developed.

F-1.3 Continuous Water Levels and Flows

In October 2011, leveloggers were installed at seven (7) stations (S1 to S5, L1 and L2). Continuous water level and flow data were recorded from October 2011 to May 2012 and presented as hydrographs in Stantec Report.

Historic water levels at stream stations were found to range from about 0.15 m to 1.4 m, with S4 and S2 having lower water levels and S1, S3, and S5 having higher water levels. Flows at stream stations were found to range between 0.01 m^3/s to 2.1 m^3/s. The lowest flows were found to occur at S3 while the highest flows were found to occur at S1. Historic water levels at lake stations (L1 and L2) were found to range from 0.6 m to 1.8 m, with higher water levels occurring at L2 and lower water levels occurring at L1. A large increase in water levels and flows were observed at S1, S3, and S5 in mid-March 2012. A gradual increase in water level was observed at S4 and L1 from April 2012 to the end of May 2012. Large fluctuations in water levels and flows were observed between the period of mid-April 2012 to end-May 2012, at stations S1, S2, S3, S5, and L2.

Generally, stream and lake water levels from the October 2011 – May 2012 monitored period declined from approximately November to mid-April, and from about mid-April, water levels began to increase and peaked toward the end of May.

Key findings from the historic water levels and hydrographs and 2023-2024 water levels and hydrographs are summarized in Table F-3. Comparison of historic water levels and flows with the 2023-2024 water levels and flows, at stations located close to historic stations, showed similarity in range and seasonal water level trends (especially the increase in water levels from mid-April to May due to spring freshet), noting that some deviation in water levels and flows were expected due differences in meteorological factors (e.g., rainfall and temperature) and hydrologic and hydraulic characteristics of neighbouring stations used for comparison.

Table F-3: Summary of Historic Water Levels and Streamflow Hydrographs and 2023-2024 Water Levels and Streamflow Hydrographs

Station ID	Description	Historic Water Levels and Stream Flows	2023-2024 Water Levels and Stream Flows
		Range and Remarks[1]	Range and Remarks[2]
S1	Located at the exit of the Pike Lake South watershed	**Water Level:** Fluctuated 0.9 m (from 0.3 m to 1.2 m). **Flow:** Ranged from about 0.3 m^3/s to 2.1 m^3/s. ▪ A high peak was observed in mid-March 2012. ▪ Increasing water level trend with some fluctuations was observed in April 2012 that peaked in May 2012. ▪ A peak was observed in May 2012.	For comparison, water levels and flows at WC-02, located close to S1, are summarized below. **Water Level:** Fluctuated 0.371 m (from 567.36 m to 567.73 m). **Flow:** Ranged from about 0.0 m^3/s to 2.1 m^3/s. ▪ Increasing water level trend with some fluctuations was observed in April and May 2024. ▪ A high peak was observed in May 2024.

Table F-3: Summary of Historic Water Levels and Streamflow Hydrographs and 2023-2024 Water Levels and Streamflow Hydrographs

Station ID	Description	Historic Water Levels and Stream Flows	2023-2024 Water Levels and Stream Flows
		Range and Remarks[1]	Range and Remarks[2]
S2	Located at the exit of the Pike Lake South headwater watershed	**Water level:** Fluctuated 0.43 m (from 0.20 m to 0.63 m). **Flow:** Ranged from about 0.1 m^3/s to 0.6 m^3/s. ▪ Sudden increase in water levels was observed at end of November 2012. ▪ A sharp peak was observed in January 2012. ▪ Increasing water level trends with some fluctuations was observed in April 2012 that peaked in May 2012. ▪ A high peak was observed in May 2012.	For comparison, water levels and flows at WC-01, located close to S2, are summarized below. **Water level:** Fluctuated 0.432 m (from 569.66 m to 570.09 m). **Flow:** Ranged from about 0.02 m^3/s to 0.6 m^3/s. ▪ A high peak was observed in December 2023. ▪ Increasing water level trend with some fluctuations was observed in April 2024 that peaked in May 2024. ▪ A high peak was observed in May 2024.
S3	Located at a small headwater watershed draining into Molar Lake	**Water level:** Fluctuated 0.55 m (from 0.55 m to 1.1 m) **Flow:** ranged from about 0.017 m^3/s to 0.035 m^3/s ▪ Sudden drop in water levels was observed in March 2012, followed by sudden increase in mid-March. ▪ Increasing water level trends with some fluctuations was observed in April 2012 that peaked in May 2012. ▪ A high peak was observed in May 2012.	-[3]
S4	Located at the outlet of Molar Lake upstream of its discharge point into Mills Lake	**Water level:** Fluctuated 0.25 m (from 0.15 m to 0.40 m) **Flow:** ranged from about 0.07 m^3/s to 0.18 m^3/s ▪ A sudden increase in water level was observed in March 2012. ▪ Increasing water level trends was observed in April 2012 that peaked May 2012. ▪ A high peak was observed in May 2012.	For comparison, water levels and flows at WC-03, located close to S4, are summarized below. **Water level:** Fluctuated 0.578 m (from 578.52 m to 579.1 m) **Flow:** ranged from about 0.06 m^3/s to 2.1 m^3/s. ▪ A sudden increase in water level was observed in February 2024. ▪ Increasing water level trends was observed in April 2024 that peaked in May 2024. ▪ A high peak was observed in May 2024.

Table F-3: Summary of Historic Water Levels and Streamflow Hydrographs and 2023-2024 Water Levels and Streamflow Hydrographs

Station ID	Description	Historic Water Levels and Stream Flows	2023-2024 Water Levels and Stream Flows
		Range and Remarks[1]	Range and Remarks[2]
S5	Located in a tributary that discharges to the southeast end of Long Lake.	**Water level:** Fluctuated 1.15 m (from 0.25 m to 1.40 m) **Flow:** Ranged from about 0.01 m^3/s to 0.10 m^3/s ▪ A high peak in water level was observed in March 2012. ▪ Increasing water level trends was observed in April 2012 that peaked in May 2012.	For comparison, water levels at WC-06, located close to S5, are summarized below. **Water level:** Fluctuated 1.179 m (from 537.15 m to 538.33 m) **Flow:** Ranged from about 0.0 m^3/s to 2.3 m^3/s. ▪ High peaks in water level were observed in August 2023, December 2023, and April through June 2024. ▪ Increasing water level trend with fluctuations was observed from January through June 2024 that peaked at end-June.
L1	Located at Mills Lake	**Water level**: Fluctuated 0.26 m (from 0.48 m to 0.74 m) ▪ Increasing water level trends was observed in April 2012 that peaked in May 2012. ▪ The behaviour of L1 in April-May 2012 was generally similar to S4.	For comparison, the water levels at WC-03 (located upstream of L1), are summarized below. **Water level:** Fluctuated 0.578 m (from 578.52 m to 579.1 m) ▪ A sudden increase in water level was observed in February 2024. ▪ Increasing water level trends was observed in April 2024 that peaked in May 2024. ▪ A high peak was observed in May 2024.
L2	Located at Long Lake	**Water level**: Fluctuated 1.2 m (from 0.62 m to 1.82 m) ▪ A high peak increase in water level was observed in March 2012. ▪ Increasing water level trends was observed in April 2012 that peaked in May 2012. ▪ The behaviour of L2 was generally similar to S5.	For comparison, water levels at WC-06, located close to L2, are summarized below. **Water level:** Fluctuated 1.179 m (from 537.15 m to 538.33 m) ▪ High peaks in water level were observed in August 2023, December 2023, and April through June 2024. ▪ Increasing water level trends was with fluctuations was observed from January through June 2024 that peaked at end-June.

Notes:
1. Flow estimates are based on stage-discharge rating curve developed using Manning's equation
2. Flow estimates are based on stage-discharge rating curve developed using manual flows and power law rating curve equation
3. Flow monitoring was not completed on this watercourse in 2023-2024.

F-1.4 Lake Bathymetry

Historic lake bathymetric data was collected during March and April of 2012 by augering through ice cover and sounding with a weighted tape. Depth data points and transects locations were documented using a hand held GPS and sketched on field maps Note that bathymetry data were also collected in May 2012 by documenting water depth at regular intervals along transects across waterbodies using a sonic transducer (Stantec 2012).

Figure F-2 presents the bathymetric survey results for Long Lake as well as selected depth measurements for other local lakes in the LSA.

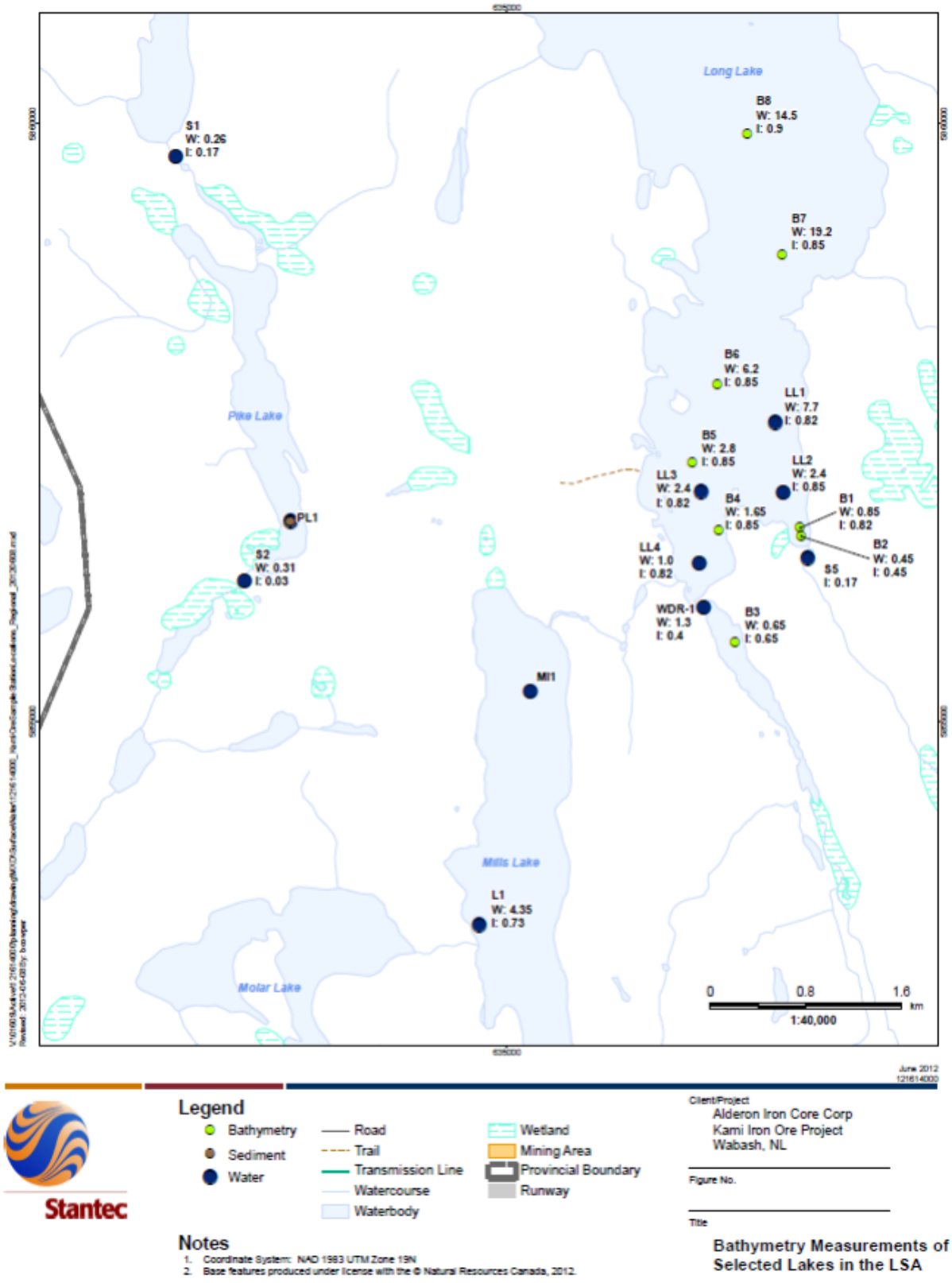

Figure F-2: Bathymetry Measurement of Selected Lakes in the LSA (source: Stantec 2012)

Compared to historic results of bathymetric data that mainly included depth measurements at selected locations in Long Lake only, 2023-2024 bathymetric data collection was extensive and detailed in nature, and included bathymetric surveys at Long Lake, Mills Lake, Pike Lake, and Riordan Lake, and lake depth surveys at Daviault Lake and Molar Lake. 2023-2024 bathymetric and lake depth survey results were used to develop bathymetry and depth maps of the lakes.

According to Stantec (2012), the southern end of Long Lake is relatively shallow ranging in depth from <1 m to about 3.5 m and the lake deepens toward the north. Similar to historic results, 2023-2024 bathymetric survey results showed shallower depth (range approximately from <1 to 5 m) at southern end of the Long Lake and deeper depth towards the north. Note that due to limited data / information about the lake bathymetry in Stantec (2012), further comparison and discussion could not be made.

F-2 Water Quality

Water quality samples were collected from seven (7) routine monitoring stations during water quality monitoring campaigns from October 2011 to the end of May 2012, noting that during the field visit in April 2012, an additional ten (10) samples were collected at Long Lake, Waldorf River, Walsh River, Mills Lake, the Jean River crossing, Pike Lake and Molar Lake.

Water quality assessment included general constituents, nutrients and metals. While the primary water quality criteria included CCME Canadian Water Quality Guidelines (CWQG) and other relevant local standards, CCME Canadian Water Quality Guidelines (CWQG) were used to assess baseline water quality.

Most general constituents, nutrients, and metals were noted to be below CCME CWQG except the following:

- pH value of 5.67 was observed in a composite sample on Molar Lake, however in-situ spot pH indicated value of 7.77.
- Total cadmium exceedances of the hardness adjusted CWQG limits were observed at the exit of Pike Lake, south watershed (S1) in October 2011. Additional exceedances were observed in the Waldorf River (WDR-1), the southeast side of Long Lake (LL2), and the southwest side of Long Lake (LL3) in April 2012.
- Total copper exceedance was observed on the eastern side of Mills Lake (L1) during the October 2011 sampling with a value of 2.4 µg/L, exceeding the minimum CWQG threshold of 2 µg/L.
- Total iron exceedance was observed at the exit of Pike Lake south headwater (S2) during the March 2012 sampling with a value of 493 µg/L, exceeding the CWQG threshold of 300 µg/L.

Table F-4 provides summary of historic water quality results and 2023-2024 water quality results in terms of ranges and averaged values. For this comparison, observed ranges and averaged values of historic data were extracted from Stantec Report and compared with ranges and averaged values of 2023-2024 water quality results.

Comparison of water quality results should be viewed carefully, noting the following differences:

- The number of 2023-2024 water quality samples and sampling stations were greater than 2011-2012 samples and sampling stations.
- Detection limits of parameters tested in 2011-2012 and 2023-2024 were not always the same; especially the 2023-2024 samples were tested with different detection limits.
- Some parameters could not be compared because those were not tested either in 2011-2012 or 2023-2024 sampling events.

Compared to historic water quality parameters, 2023-2024 water quality parameters at lake and watercourse (stream) stations were generally found to be in similar range and / or demonstrated a similar behavior, noting some minor deviations for some parameters were observed. Parameters that showed notable increase in the upper limit (i.e., 100% increase or more) than the historic observed upper limit included total suspended solids, turbidity, nitrogen (ammonia nitrogen), aluminum, iron, lead, manganese, molybdenum, and titanium.

Table F-4: Summary of Historic Water Quality and 2023-2024 Water Quality Results

Parameter	Unit	CCME Guideline	Historic Water Quality		2023-2024 Water Quality
			Range[1]	Remarks	Range[2]
General Constitutes					
Anion Sum	me/L	-	▪ Ranged from 0.55 to 2.32 with a mean of 1.09.	▪ Concentrations of major anions such as chloride, fluoride, sulphate, and nitrate were low.	▪ Ranged from 0.65 to 1.86 with a mean of 1.08.
Bicarb. Alkalinity (calc. as $CaCO_3$)	mg/L	-	▪ Ranged from 27 to 110 with a mean of 51.	-	▪ Ranged from 30 to 90 with a mean of 51.25.
Calculated TDS	mg/L	-	▪ Ranged from 34.0 to 116.0 with a mean of 58.1.	-	▪ Ranged from 35 to 95 with a mean of 56.5.
Carb. Alkalinity (calc. as $CaCO_3$)	mg/L	-	▪ Ranged from **0.5** to 1.2 with a mean of 0.5.	-	▪ Values consistent at **0.5**. ▪ Measured below the detection limit.
Cation Sum	me/L	-	▪ Ranged from 0.63 to 2.22 with a mean of 1.064.	▪ Concentrations of major cations such as calcium, sodium, potassium, magnesium, manganese, ammonium, iron and aluminum were low.	▪ Ranged from 0.64 to 1.98 with a mean of 1.13.
Hardness ($CaCO_3$)	mg/L	-	▪ Ranged from 29 to 110 with a mean of 50.	▪ The values indicated hardness ranging from soft (<60) to moderate hard (60-120). ▪ Relatively higher hardness values were found at stream discharging to the southeast end of long lake (S5), southeast end of long lake (L2), southern end of long lake (LL4) and Waldorf River (WDR-1).	▪ Ranged from 11 to 97 with a mean of 37.2.
Ion Balance (% Difference)	%	-	▪ Ranged from 0.54 to 8.33 with a mean of 3.26.	▪ Values found to be moderately positive, which was expected based upon soft to moderate water hardness observations.	-
Langelier Index (@ 20C)	-	-	▪ Ranged from -3.28 to 0.15 with a mean of -0.97.	▪ Most values were negative, indicating a pH under-saturation with calcium carbonate. ▪ One exception was a Langelier Index of +0.15 from station located in a tributary that discharges to the southeast end of Long Lake (S5) in March 2012, however October sample showed negative values of -0.08.	▪ Ranged from -1.55 to -0.08 with a mean of -0.90.
Langelier Index (@ 4C)	-	-	▪ Ranged from -3.53 to -0.10 with a mean of -1.22.	-	▪ Ranged from -1.8 to -0.33 with a mean of -1.15.

Table F-4: Summary of Historic Water Quality and 2023-2024 Water Quality Results

Parameter	Unit	CCME Guideline	Historic Water Quality		2023-2024 Water Quality
			Range[1]	Remarks	Range[2]
Saturation pH (@ 20C)	-	-	▪ Ranged from 7.91 to 9.03 with a mean of 8.61.	-	▪ Ranged from 8.05 to 8.99 with a mean of 8.60.
Saturation pH (@ 4C)	-	-	▪ Ranged from 8.16 to 9.28 with a mean of 8.61.	-	▪ Ranged from 8.3 to 9.24 with a mean of 8.93.
pH	-	6.5-9.0	▪ Ranged from 5.64 to 8.06 with a mean of 7.58. ▪ One exception of pH value of 5.67 was observed in composite sample on Molar Lake, however in-situ spot pH indicated value of 7.77.	▪ No strong difference between stream and lake values ▪ pH range observed more alkaline than the Newfoundland Water Quality Monitoring Agreement (WQMA) mapped pH range for western Labrador.	▪ Field pH ranged from 5.52 to 8.38 with a mean of 7.41. ▪ Lab pH ranged from 6.52 to 8.03 with a mean of 7.55.
Acidity	mg/L		▪ Ranged from **2.5** to 12.0 with a mean of 3.5.	-	▪ Acidity ranged from **2.5** to 12 with a mean of 2.7. ▪ Most values were below detection limit.
Total Alkalinity (Total as $CaCO_3$)	mg/L	-	▪ Ranged from 27 to 110 with a mean of 50.	▪ Overall, alkalinity values were considered low suggesting limited acid buffering potential in local lakes and streams. ▪ Relatively higher alkalinity concentrations were found at stations near the southeast and southern ends of Long Lake (S5, L2, LL4) and Waldorf River (WDR-1).	▪ Ranged from 9.9 to 99 with a mean of 37.5.
Dissolved Chloride (Cl)	mg/L	-	▪ Ranged from **0.5** to 2.2 with a mean of 0.7.	-	▪ Ranged from **0.5** to 2.7 with a mean of 0.65. ▪ Most values were below detection limit.
Color	TCU	Narrative[3]	▪ Ranged from 8 to 44 with a mean of 14 .	▪ The mean colour value is below the Canadian Drinking Water Quality Aesthetic Guideline of 15 TCU for colour.	▪ Ranged from 6 to 29 with a mean of 13.5.
Strong Acid Dissoc. Cyanide (CN)	mg/L	0.005 (as free CN)	▪ Values were found to be **0.0010**.	▪ All cyanide samples from routine monitoring stations and April monitoring locations were below the detection limit.	-

Table F-4: Summary of Historic Water Quality and 2023-2024 Water Quality Results

Parameter	Unit	CCME Guideline	Historic Water Quality		2023-2024 Water Quality
			Range[1]	Remarks	Range[2]
Total Dissolved Solids	mg/L	-	▪ Ranged from 27 to 110 with a mean of 55.	▪ Values for TDS observed to generally be low. ▪ Higher values were observed at locations at station near the southeast and southern ends of Long Lake (S5, L2 and LL4). ▪ TDS values found to be much less than TDS tolerance maxima of 1000 mg/L estimated by Boyd (1999) in mixed fish fauna aquatic ecosystems.	▪ Ranged from **5** to 115 with a mean of 54.9.
Dissolved Fluoride (F-)	mg/L	0.120 (inorganic F)	▪ Ranged from **0.05** to 0.11 with a mean of 0.05.	-	▪ Values consistent at **0.05**. ▪ Measured below detection limit.
Reactive Silica (SiO2)	mg/L	-	▪ Ranged from 3.2 to 9.4 with a mean of 5.1.	-	▪ Ranged from 2.5 to 4.3 with a mean of 3.5.
Total Suspended Solids	mg/L	Narrative[4]	▪ Ranged from **0.5** to 5.2 with a mean of 1.3.	▪ Concentrations for routine monitoring were found to be low.	▪ Ranged from **0.5** to 24 with a mean of 4.6.
Dissolved Sulphate (SO4)	mg/L	-	▪ Ranged from **1.0** to 5.8 with a mean of 3.0.	-	▪ Ranged from 1.2 to 5.0 with a mean of 3.04.
Turbidity	NTU	Narrative[5]	▪ Ranged from 0.05 to 1.30 with a mean of 0.41.	▪ Observed turbidity values were typical of very low values.	▪ Ranged from 0 to 6.56 with a mean of 0.42.
Conductivity	µS/cm	-	▪ Ranged from 56 to 210 with a mean of 101.	▪ The highest conductivity value was in a tributary that discharges to the southeast end of Long Lake (S5). ▪ No strong lake to stream concentration trend or relationship was observed.	▪ Ranged from 26 to 191 with a mean of 78.1.
Nutrients					
Nitrate + Nitrite	mg/L		▪ Ranged from 0.03 to 0.27 with a mean of 0.06.		▪ Ranged from **0.05** to 0.27 with a mean of 0.06. ▪ Most values were measured below the detection limit.
Nitrate (N)	mg/L	13	▪ Ranged from **0.025** to 0.270 with a mean of 0.062.	▪ All nitrate concentrations found to be well below the CWQG.	▪ Ranged from **0.005** to 0.27 with a mean of 0.057. ▪ Most values were measured below the detection limit.

Table F-4: Summary of Historic Water Quality and 2023-2024 Water Quality Results

Parameter	Unit	CCME Guideline	Historic Water Quality		2023-2024 Water Quality
			Range[1]	Remarks	Range[2]
Nitrite (N)	mg/L	0.1	▪ Values consistent at **0.005**.	▪ All nitrite concentrations found below detection limit and CWQG.	▪ Ranged from **0.005** to **0.05** with a mean of 0.006. ▪ Most values were measured below the detection limit, except one value of 0.015.
Nitrogen (Ammonia Nitrogen)	mg/L	See Table[6]	▪ Ranged from **0.025** to 0.160 with a mean of 0.038.	▪ Values all consistently below CWQG of 4.84 mg/L (Ammonia concentration at pH 7.5, temperature 5°C). ▪ Unionized ammonia was calculated and found to be well below the CWQG of 19 µg/L.	▪ Ranged from **0.025** to 0.43 with a mean of 0.031. ▪ Most values were measured below detection limit.
Dissolved Organic Carbon (C)	mg/L	-	▪ Ranged from 1.50 to 20.0 with a mean of 4.87.	-	▪ Ranged from 2.2 to 9.4 with a mean of 3.78.
Total Organic Carbon (C)	mg/L	-	▪ Ranged from **1** to 20 with a mean of 4.	-	▪ Ranged from 4.1 to 6.0 with a mean of 4.6.
Orthophosphate (P)	mg/L	-	▪ Values consistent at **0.01**.	▪ All values below detection limit of 10 µg/L.	▪ Values consistent at **0.005**. ▪ Measured below the detection limit.
Total Phosphorus	mg/L	See notes[7]	▪ Ranged from 0.003 to 0.018 with a mean of 0.01.	▪ CGWD indicated that total phosphorous concentrations range from ultra-oligotrophic to meso-trophic, respectively.	▪ Ranged from **0.002** to 0.033 with a mean of 0.01.
Sulphate	mg/L	-	▪ Ranged from below 2 mg/L to 5.8 mg/L during April monitoring.	▪ Values were much lower than the maximum sulphate concentration of 250 mg/L and the 65 mg/L 30-day average concentration proposed for the protection of aquatic life in the Draft BC ambient water quality guideline for sulphate (Meays and Nordin, 2011).	▪ Samples were tested for dissolved sulphate only. ▪ Dissolved sulphate ranged from 1.2 to 5.0 with a mean of 3.04.
Metals					
Dissolved Mercury (Hg)	µg/L	0.026	▪ Ranged from **0.010** to 0.070 with a mean of 0.010.	-	▪ Ranged from **0.005** to **0.05**. ▪ All measured values were below detection limits.

Table F-4: Summary of Historic Water Quality and 2023-2024 Water Quality Results

Parameter	Unit	CCME Guideline	Historic Water Quality		2023-2024 Water Quality
			Range[1]	Remarks	Range[2]
Dissolved Aluminum (Al)	µg/L	-	▪ Ranged from **3** to 80 with a mean of 13.	-	▪ Ranged from **1.5** to 170 with a mean of 12. ▪ Ranged from **1.5** to 92 with a mean of 10.9 (without considering exceedance at DL-02 NS).
Total Aluminum (Al)	µg/L	5 if pH < 6.5 100 if pH > 6.5	▪ Ranged from **2.5** to 73.6 with a mean of 22.7.	-	▪ Ranged from **1.5** to 313 with a mean of 19.5. ▪ Ranged from **1.5** to 78.9 with a mean of 16.2 without considering exceedances at WC-10 and LL-02 NB.
Total Antimony (Sb)	µg/L	-	▪ Values consistent at **0.5**.	-	▪ Ranged from **0.01** to **0.25**. ▪ Measured below detection limits, except one value of 0.021 at WC-10.
Total Arsenic (As)	µg/L	5.0	▪ Values consistent at **0.5**.	▪ Concentrations all well below CWQG and / or MMER[12] criteria.	▪ Ranged from 0.043 to **0.5** with a mean of 0.258.
Total Barium (Ba)	µg/L	-	▪ Ranged from 9 to 31 with a mean of 15	-	▪ Ranged from 6 to 44.5 with a mean of 11.63.
Total Beryllium (Be)	µg/L	-	▪ Values consistent at **0.5**.	-	▪ Ranged from **0.005** to **0.2**. ▪ Measured below detection limits except one value of 0.014 at WC-12.
Total Bismuth (Bi)	µg/L	-	▪ Values consistent at **1.0**.	-	▪ Ranged from **0.0025** to **0.5** with a mean of 0.04. ▪ Mostly observed below detection limits.

Table F-4: Summary of Historic Water Quality and 2023-2024 Water Quality Results

Parameter	Unit	CCME Guideline	Historic Water Quality		2023-2024 Water Quality
			Range[1]	Remarks	Range[2]
Total Boron (B)	µg/L	1500	▪ Values consistent at **25**.	-	▪ Ranged from **5** to **25** with a mean of 12. ▪ Measured below detection limits, except one value of 14 at WC-06 (in August 2023).
Total Cadmium (Cd)	µg/L	See Note[8]	▪ Ranged from **0.0085** to 0.056 with a mean of 0.0163.	▪ Most analytical results indicated cadmium concentrations were below CWQG. ▪ Several total cadmium exceedances of the hardness-adjusted CWQG limits were observed at stations downstream of Pike Lake South (S1), Waldorf River WDR), and Long Lake (LL2 and LL3).	▪ Ranged from **0.0025** to **0.045** with a mean of 0.023. ▪ Mostly observed below detection limits.
Total Calcium (Ca)	µg/L	-	▪ Ranged from 6,860 to 25,300 with a mean of 12,307.	-	▪ Ranged from 2,850 to 21,000 with a mean of 8,579.
Total Chromium (Cr)	µg/L	-	▪ Values consistent at **0.5.**	-	▪ Ranged from **0.05** to **2.5** with a mean of 1.357. ▪ Mostly observed below detection limits.
Total Cobalt (Co)	µg/L	-	▪ Values consistent at **0.2**.	-	▪ Ranged from 0.0058 to 0.33 with a mean of 0.15. ▪ Mostly observed below detection limits.
Total Copper (Cu)	µg/L	See Note[9]	▪ Ranged from 1.0 to 2.4 with a mean of 1.1.	▪ Copper concentrations were generally found to be below the reportable detection limit. ▪ The minimum CWQG threshold for copper is 2 µg/L, which was exceeded at Mills Lake (L1) in October sample with a value of 2.4 µg/L.	▪ Ranged from 0.13 to 1.81 with a mean of 0.4.
Total Iron (Fe)	µg/L	300	▪ Ranged from **25** to 493 with a mean of 112.	▪ One exceedance observed at a station located at the exit of the Pike Lake South (S2) in March sampling.	▪ Ranged from **5** to 1,980 with a mean of 87. ▪ Ranged from **5** to 390 with a mean of 63.8 (excluding two exceedances at WC-14(1,980) and LL02-NB (1,480))

Table F-4: Summary of Historic Water Quality and 2023-2024 Water Quality Results

Parameter	Unit	CCME Guideline	Historic Water Quality		2023-2024 Water Quality
			Range[1]	Remarks	Range[2]
Total Lead (Pb)	µg/L	See Note[10]	▪ Ranged from **0.250** to 0.840 with a mean of 0.288	▪ The minimum threshold for lead is 1 µg/L which was not exceeded.	▪ Ranged from **0.0025** to 3.9 with a mean of 0.225.
Total Magnesium (Mg)	µg/L	-	▪ Ranged from 2,580 to 13,000 with a mean of 5,621.	-	▪ Ranged from 930 to 9,900 with a mean of 3,606.
Total Manganese (Mn)	µg/L	-	▪ Ranged from **1** to 185 with a mean of 33.	-	▪ Ranged from **1** to 1,400 with a mean of 49.3. ▪ Ranged from **1** to 310 with a mean of 25.16, excluding two exceedances at PL-02 NB, and one at LL-02 NB.
Total Molybdenum (Mo)	µg/L	73	▪ Values consistent at **1.**	-	▪ Ranged 0.2 to 2 with a mean of 0.54.
Total Nickel (Ni)	µg/L	See Note[11]	▪ Values consistent at **1**.	▪ The minimum threshold for nickel is 25 µg/L which was not exceeded.	▪ Ranged 0.094 to 1.2 with a mean of 0.46.
Total Potassium (K)	µg/L	-	▪ Ranged from 849 to 1,690 with a mean of 1,302.	-	▪ Ranged from **100** to 2,100 with a mean of 955.
Total Selenium (Se)	µg/L	1	▪ Values consistent at **0.5**.	-	▪ Ranged from **0.02** to **1** with a mean of 0.473. ▪ Most values measured below detection limits, except one value of 0.042 at PL-02 NB.
Total Silicon (Si)	µg/L	-	▪ Ranged from 1,560 to 4,940 with a mean of 2,530.	-	▪ Ranged from 810 to 4,200 with a mean of 1,790.
Total Silver (Ag)	µg/L	0.1	▪ Values consistent at **0.05**.	-	▪ Ranged from **0.0025** to **0.045** with a mean of 0.024. ▪ Measure below detection limits, except one value of 0.0065 at WC-10.
Total Sodium (Na)	µg/L	-	▪ Ranged from 538 to 3,040 with a mean of 1,000.	-	▪ Ranged from 230 to 2,500 with a mean of 730.

Table F-4: Summary of Historic Water Quality and 2023-2024 Water Quality Results

Parameter	Unit	CCME Guideline	Historic Water Quality		2023-2024 Water Quality
			Range[1]	Remarks	Range[2]
Total Strontium (Sr)	µg/L	-	▪ Ranged from 12.4 to 29.9 with a mean of 17.9.	-	▪ Ranged from 8 to 28 with a mean of 13.7.
Total Sulphur (S)	µg/L	-	▪ Values consistent at **2,500**.	-	▪ Values consistent at **1,500**. ▪ Measured below the detection limit of 3,000.
Total Tellurium (Te)	µg/L	-	▪ Values consistent at 1.	-	▪ Ranged from **0.5** to **1.0.** ▪ Measured below detection limits.
Total Thallium (Tl)	µg/L	0.8	▪ Values consistent at **0.05.**	-	▪ Ranged from **0.001** to **0.025** with a mean of 0.014. ▪ Mostly measured below detection limits.
Total Tim (Sn)	µg/L	-	▪ Values consistent at **1**.	-	▪ Ranged from **0.1** to **2.5**. ▪ Measured below detection limits.
Total Titanium (Ti)	µg/L	-	▪ Ranged from **1.0** to 4.1 with a mean of 1.2.	-	▪ Ranged from **0.25** to 12.3 with a mean of 2.16.
Total Uranium (U)	µg/L	-	▪ Ranged from **0.05** to 0.96 with a mean of 0.21	▪ Concentrations of all samples were well below CWQG and / or MMER[12] criteria	▪ Ranged from **0.05** to 0.5 with a mean of 0.09.
Total Vanadium (V)	µg/L	-	▪ Values consistent at **1**.	-	▪ Ranged from **0.1** to **2.5**. ▪ Measured below detection limits, except two occurrences above detection limit at RL-02 NS (0.2) and WC-10 (1.78).
Total Zinc (Zn)	µg/L	30	▪ Ranged from **2.5** to 30.7 with a mean of 6.0	-	▪ Ranged from 0.53 to 27 with a mean of 2.5.
Radium$_{226}$	µg/L	-	▪ Ranged from **0.0025** and 0.02 with a mean of 0.0063	▪ Concentrations of all samples were well below CWQG and / or MMER12 criteria	▪ Values consistent at **0.5**. ▪ Measured below the detection limit of 1.

Notes:

1. **Bold numbers** are values under detection limit and adjusted to half values of detection limit for analytical purpose.
2. Similar to 2011-2012 historic results (Stantec, 2012), under-detection limit values were adjusted to half values of detection limit(s) for analytical purposes and were included in the calculation of mean.
3. True Color: The mean absorbance of filtered water samples at 456 nm shall not be significantly higher than the seasonally adjusted expected value for the system under consideration.
4. Total Suspended Solids for Clear Flow: Maximum increase of 25 mg/L from background levels for any short-term exposure (e.g., 24-h period). Maximum average increase of 5 mg/L from background levels for longer term exposures (e.g., inputs lasting between 24 h and 30 d).
5. Turbidity for Clear Flow: Maximum increase of 8 NTUs from background levels for a short-term exposure (e.g., 24-h period). Maximum average increase of 2 NTUs from background levels for a longer term exposure (e.g., 30-d period).
6. Ammonia concentration under different pH and temperatures, please see table at http://st-ts.ccme.ca/?lang=en&factsheet=5#aql_fresh_concentration
7. Ultra-oligotrophic <4 µg/L, oligotrophic 4-10 µg/L, mesotrophic 10-20 µg/L, meso-eutrophic 20-35 µg/L, eutrophic 35-100 µg/L, hyper-eutrophic >100 µg/L
8. http://st-ts.ccme.ca/?lang=en&factsheet=20#aql_fresh_concentration
9. Minimum 2 µg/L and see equation at http://st-ts.ccme.ca/?lang=en&factsheet=71#aql_fresh_concentration
10. Minimum 1 µg/L and see equation at http://st-ts.ccme.ca/?lang=en&factsheet=124#aql_fresh_concentration
11. Minimum 25 µg/L and see equation at http://st-ts.ccme.ca/?lang=en&factsheet=139#aql_fresh_concentration
12. MMER refers to Schedule 4 of the Metal Mining Effluent Regulations (Canada) SOR/2002-222 promulgated under the Fisheries Act

F-3 Sediment Quality

Sediment samples were collected during monitoring in November 2011, March 2012 and April 2012 at routine monitoring stations and specific sites of interest throughout the local study area. Sediment quality assessment included both sediment particle size distribution analysis and sediment chemistry analysis including general constituents, metals, and hydrocarbons. CCME Interim Sediment Quality Guidelines (ISQG) and Probable Effect Levels (PEL) were used primarily to assess baseline sediment quality.

Based on the analytical assessment, sediment quality at routine monitoring stations (including S3, S4, S5 and L2) and April 2012 sampling locations (including Long Lake, Pike Lake) were good and unimpaired. In general, most sediment quality parameters were noted to be below CCME thresholds, except the following:

- Chromium exceeded ISQG threshold of 37.3 mg/kg at a small headwater watershed draining into Molar Lake (S3) in March 2012 with a value of 48 mg/kg, and at western side of Long Lake (LL1) and in Molar Lake (MOL1) during April 2012 with values of 65 mg/kg and 71 mg/kg respectively. However, the concentrations were below PEL threshold of 90 mg/kg;
- Cadmium exceeded the ISQG threshold of 0.60 mg/kg at Molar Lake (MOL1) with a value of 0.65 mg/kg in March 2012, however the concentrations were well below the PEL threshold of 3.5 mg/kg;
- Copper exceeded the ISQG threshold of 35.7 mg/kg at Molar Lake (MOL1) with a slightly higher value of 37 mg/kg in March 2012, however the concentrations were well below the PEL threshold of 197 mg/kg; and
- Zinc exceeded ISQG threshold of 125 mg/kg at Molar Lake (MOL1) in April 2012 sample with a value of 130 mg/kg, however, the concentrations were well below the PEL threshold of 315.

All BTEX constituent concentrations were below the detection level. PHC C1-C4 were at background level and reached baseline at C50. All PAH were below the detection limit and CSQG threshold concentrations.

Table F-5 provides summary historic sediment quality results and comparison with 2023-2024 sediment quality results in terms of ranges and averaged values. For comparison, observed ranges and averaged values of historic data were extracted from Stantec Report and compared with ranges and averaged values of 2023-2024 results. Comparison of results should be viewed carefully, noting the differences outlined in Section F-2.

Compared to historic sediment quality parameters, 2023-2024 sediment quality parameters at lake and watercourse (stream) stations demonstrated similar characteristics, noting some minor deviations for some parameters were observed. Parameters that showed notable increase in the upper limit (i.e., 100% increase or more) than the historic observed range included arsenic, barium, iron, lead, manganese, molybdenum, selenium, thallium, and tin.

Table F-5: Summary of Historic Sediment Quality and 2023-2024 Sediment Quality Results

Parameter	Unit	CCME Guideline		Historic Sediment Quality		2023-2024 Sediment Quality
		ISQG	PEL	Range[1]	Remarks	Range[2]
General						
Particle Size Distribution	-	-	-	▪ Grain sizes at watershed draining into Molar Lake (S3) consisted of 5.2% gravel, 61% sand, 23% silt and 10% clay. ▪ Grain sizes at stream connecting Molar Lake and Mills Lake (S4) consisted of 33% gravel, 66% sand, 0.63% silt and 0.29% clay. ▪ Grain sizes at the small tributary to Long Lake (S5) consisted of 2.1% gravel, 72% sand, 23% silt and 2.5% clay. ▪ Grain sizes at Long Lake (L2) consisted of 27% gravel, 67% sand, 2.8% silt and 3.3% clay. ▪ Grain sizes at southern end of Long Lake (LL1-S) consisted of 51% sand, 34% silt and 15% clay. ▪ Grain sizes at Pike Lake (PL1-S) consisted of 75% sand, 14% silt and 11% clay. ▪ Grain sizes at Molar Lake (MOL-1-S) consisted of 55% sand, 29% silt and 16% clay.	▪ Sediment at small tributary upstream of Molar Like (S3) was described as silty sand. ▪ Sand dominance was also observed at the rest of the six (6) other sampling locations (southern end of Long Lake (L2), Long Lake (LL1), Molar Lake (MOL1), and Pike Lake (PL1) as well as the stream connecting Molar Lake and Mills Lake (S4) and the small tributary to Long Lake (S5). ▪ Routine monitoring station L1 at Mills Lake had a sand, gravel and cobble bed.	▪ Sediment samples at watercourse stations were sand dominated. The grain size distribution showed that clay, sand, and silt contents ranged from **1**% to 7.4%, 50% to 98%, and **1** to 42%, respectively. ▪ Sediment samples at Long Lake were sand dominated. Due to variation in sand and silt contents, the sediment texture varied from loamy sand in June 2023 having grain sizes of 2.6% clay, 74% sand, 24% silt to loam in August 2023, with average grain sizes of 11% clay, 48% sand, 40% silt. ▪ Sediment sample at Pike Lake was sand dominated and the sediment texture was described as sandy loam having grain sizes of 17% clay, 69% sand, and 15% silt. ▪ Sediment sample at Molar Lake collected was silt-dominated and the sediment texture was described as silt loam having grain sizes of 19% clay, 30% sand, 51% silt.
Metals						
Aluminum (Al)	mg/kg	-	-	▪ Ranged from 1,500 to 23,000 with a mean of 7,880	-	▪ Ranged from 400 to 30,000 with a mean of 8,150.
Antimony (Sb)	mg/kg	-	-	▪ Values consistent at **1**.	-	▪ Ranged from **0.1** to **0.5**. ▪ Measured below detection limits, except one value of 0.29 at MIL-03.
Arsenic (As)	mg/kg	5.9	17	▪ Ranged from **1** to 2.6 with a mean of 1.4.	-	▪ Ranged from **0.5** to 7.4 with a mean value of 1.52.

Table F-5: Summary of Historic Sediment Quality and 2023-2024 Sediment Quality Results

Parameter	Unit	CCME Guideline		Historic Sediment Quality		2023-2024 Sediment Quality
		ISQG	PEL	Range[1]	Remarks	Range[2]
Barium (Ba)	mg/kg	-	-	▪ Ranged from 17 to 860 with a mean of 213.	-	▪ Ranged from 25 to 7,000 with a mean of 534.2.
Beryllium (Be)	mg/kg	-	-	▪ Values consistent at **1**.	-	▪ Ranged from **0.1** to 0.59 with a mean of 0.21.
Bismuth (Bi)	mg/kg	-	-	▪ Values consistent at **1**.	-	▪ Ranged from **0.5** to **2.5**. ▪ Measured below detection limits.
Boron (B)	mg/kg	-	-	▪ Values consistent at **2.5**.	-	▪ Ranged from **2.5** to **12.5**. ▪ Measured below detection limits.
Cadmium (Cd)	mg/kg	0.6	3.5	▪ Ranged from 0.15 to 0.65 with a mean of 0.32	▪ Cadmium Concentration at Molar Lake (MOL1) exceeded ISQG in March 2012.	▪ Ranged from **0.05** to 0.99 with a mean of 0.3.
Chromium (Cr)	mg/kg	37.3	90	▪ Ranged from 9 to 71 with a mean of 31.	▪ Chromium concentrations exceeded ISQG threshold in samples from a small tributary stream draining into Molar Lake(S3) in March 2012, as well as from Long Lake and Molar Lake (LL1 and MOL1) in April 2012.	▪ Ranged from 2 to 85 with a mean of 34.5.
Cobalt (Co)	mg/kg	-	-	▪ Ranged from 1.7 to 17 with a mean of 7.0.		▪ Ranged from 2.1 to 31 with a mean of 8.1.
Copper (Cu)	mg/kg	35.7	197	▪ Ranged from **1** to 37 with mean of 11.6.	▪ Copper concentrations at Molar Lake in March 2012 was measured 37mg/kg that exceeded ISQG but was below PEL.	▪ Ranged from 1.4 to 46 with a mean of 13.1.
Iron (Fe)	mg/kg	-	-	▪ Ranged from 5,500 to 71,000 with a mean of 33,290.	-	▪ Ranged from 6,400 to 170,000 with a mean of 48,769.
Lead (Pb)	mg/kg	35	91.3	▪ Ranged from 1.1 to 16.0 with a mean of 4.1.	-	▪ Ranged from **0.5** to 58 with a mean of 10.6.
Lithium (Li)	mg/kg	-	-	▪ Ranged from **1.0** to 16.0 with a mean of 6.5.	-	-

Table F-5: Summary of Historic Sediment Quality and 2023-2024 Sediment Quality Results

Parameter	Unit	CCME Guideline		Historic Sediment Quality		2023-2024 Sediment Quality
		ISQG	PEL	Range[1]	Remarks	Range[2]
Manganese (Mn)	mg/kg	-	-	▪ Ranged from 110 to 16,000 with a mean of 5,397.	-	▪ Ranged from 100 to 66,000 with a mean of 7,591.
Mercury (Hg)	mg/kg	0.17	0.486	▪ Ranged from 0.05 to 0.17 with a mean of 0.08.	-	▪ Ranged from **0.025** to 0.23 with a mean of 0.061. ▪ Most values were below the detection limit.
Molybdenum (Mo)	mg/kg	-	-	▪ Ranged from **1** to 14 with a mean of 7.	-	▪ Ranged from **0.25** to 73 with a mean of 6.48.
Nickel (Ni)	mg/kg	-	-	▪ Ranged from 4.0 to 49.0 with a mean of 20.1.	-	▪ Ranged from 1.9 to 61 with a mean of 21.2.
Rubidium (Rb)	mg/kg	-	-	▪ Ranged from **1.0** to 19.0 with a mean of 6.0.	-	-
Selenium (Se)	mg/kg	-	-	▪ Values consistent at **1**.	-	▪ Ranged from **0.25** to 2.4 with a mean of 0.7.
Silver (Ag)	mg/kg	-	-	▪ Values consistent at **0.25**.	-	▪ Ranged from **0.1** to 0.49 with a mean of 0.17. ▪ Most values were below the detection limit.
Strontium (Sr)	mg/kg	-	-	▪ Ranged from 5.0 to 39.0 with a mean of 15.8.	-	▪ Ranged from 2.7 to 37 with a mean of 15.7.
Thallium (Tl)	mg/kg	-	-	▪ Ranged from **0.05** to 0.81 with a mean of 0.33.	-	▪ Ranged from **0.025** to 2.1 with a mean of 0.27.
Tin (Sn)	mg/kg	-	-	▪ Values consistent at **1**.	-	▪ Ranged from **0.5** to 9.6 with a mean of 0.8. ▪ Most values were below detection limit.
Uranium (U)	mg/kg	-	-	▪ Ranged between 0.23 to 28.0 with a mean of 7.46.	-	▪ Ranged from 0.095 to 17 with a mean of 4.48.
Vanadium (V)	mg/kg	-	-	▪ Ranged from 7 to 42 with a mean of 20.	-	▪ Ranged from **2.5** to 49 with a mean of 22.3.

Table F-5: Summary of Historic Sediment Quality and 2023-2024 Sediment Quality Results

Parameter	Unit	CCME Guideline		Historic Sediment Quality		2023-2024 Sediment Quality
		ISQG	PEL	Range[1]	Remarks	Range[2]
Zinc (Zn)	mg/kg	123	315	▪ Ranged from 8.0 to 130 with a mean of 54.	▪ Zinc exceeded ISQG threshold of 125 mg/kg at Molar Lake (MOL1) in April 2012.	▪ Ranged from 7.4 to 220 with a mean of 64.9.
Polyaromatic Hydrocarbons						
1-Methylnaphthalene	mg/kg	-	-	▪ Values consistent at **0.0025**.	-	-
2-Methylnaphthalene	mg/kg	0.0202	0.2010	▪ Values consistent at **0.0025**.	-	-
Acenaphthene	mg/kg	0.0067	0.0889	▪ Values consistent at **0.0025**.	-	-
Acenaphthylene	mg/kg	0.0059	0.1280	▪ Values consistent at **0.0025**.	-	-
Anthracene	mg/kg	0.0469	0.2450	▪ Values consistent at **0.0025**.	-	-
Benzo(a)anthracene	mg/kg	0.0317	0.3850	▪ Values consistent at **0.0025**.	-	-
Benzo(a)pyrene	mg/kg	0.0319	0.7820	▪ Values consistent at **0.0025**.	-	-
Benzo(b)fluoranthene	mg/kg	-	-	▪ Values consistent at **0.0025**.	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	▪ Values consistent at **0.0025**.	-	-
Benzo(j)fluoranthene	mg/kg	-	-	▪ Values consistent at **0.0025**.	-	-
Benzo(k)fluoranthene	mg/kg	-	-	▪ Values consistent at **0.0025**.	-	-
Chrysene	mg/kg	0.0571	0.8620	▪ Values consistent at **0.0025**.	-	-
Dibenz(a,h)anthracene	mg/kg	0.0062	0.1350	▪ Values consistent at **0.0025**.	-	-
Fluoranthene	mg/kg	0.1110	2.3550	▪ Values consistent at **0.0025**.	-	-
Fluorene	mg/kg	0.0212	0.1440	▪ Values consistent at **0.0025**.	-	-
Indeno(1,2,3-cd) pyrene	mg/kg	-	-	▪ Values consistent at **0.0025**.	-	-
Naphthalene	mg/kg	0.0346	0.3910	▪ Values consistent at **0.0025**.	-	-
Perylene	mg/kg	-	-	▪ Ranged from **0.0025** to 2.3000 with a mean of 0.7691.	-	-

Table F-5: Summary of Historic Sediment Quality and 2023-2024 Sediment Quality Results

Parameter	Unit	CCME Guideline		Historic Sediment Quality		2023-2024 Sediment Quality
		ISQG	PEL	Range[1]	Remarks	Range[2]
Phenanthrene	mg/kg	0.0419	0.5150	▪ Values consistent at **0.0025**.	-	-
Pyrene	mg/kg	0.0530	0.8750	▪ Ranged from **0.0025** to 0.020 with a mean of 0.0052.	-	-
Surrogate Recovery (%)						
D10-Anthracene	%	-	-	▪ Ranged from 79 to 92 with a mean of 84.	-	-
D14-Terphenyl	%	-	-	▪ Ranged from 91 to 130 with a mean of 102.	-	-
D8-Acenaphthylene	%	-	-	▪ Ranged from 76 to 82 with a mean of 79.	-	-
BTEX & F1 Hydrocarbons						
Benzene	µg/g	-	-	▪ Ranged from **0.010** to **0.100** with a mean of 0.049.	-	-
Toluene	µg/g	-	-	▪ Ranged from **0.010** to **0.100** with a mean of 0.049.	-	-
Ethylbenzene	µg/g	-	-	▪ Ranged from **0.010** to **0.100** with a mean of 0.049.	-	-
o-Xylene	µg/g	-	-	▪ Ranged from **0.010** to **0.100** with a mean of 0.049.	-	-
p+m-Xylene	µg/g	-	-	▪ Ranged from **0.020** to **0.200** with a mean of 0.097.	-	-
Total Xylenes	µg/g	-	-	▪ Ranged from **0.020** to **0.200** with a mean of 0.097.	-	-
F1 (C6-C10)	µg/g	-	-	▪ Ranged from **5** to **50** with a mean of 24.	-	-
F1 (C6-C10) - BTEX	µg/g	-	-	▪ Ranged from **5** to **50** with a mean of 24.	-	-

Table F-5: Summary of Historic Sediment Quality and 2023-2024 Sediment Quality Results

Parameter	Unit	CCME Guideline		Historic Sediment Quality		2023-2024 Sediment Quality
		ISQG	PEL	Range[1]	Remarks	Range[2]
F2-F4 Hydrocarbons						
F4G-sg (Grav. Heavy Hydrocarbons)	µg/g	-	-	▪ Ranged from 440 to 1,200 with a mean of 743.	-	-
F2 (C10-C16 Hydrocarbons)	µg/g	-	-	▪ Ranged from **5** to 50 with a mean of 28.	-	-
F3 (C16-C34 Hydrocarbons)	µg/g	-	-	▪ Ranged from **5** to 720 with a mean of 143.	-	-
F4 (C34-C50 Hydrocarbons)	µg/g	-	-	▪ Ranged from **5** to 240 with a mean of 48.	-	-
1,4-Difluorobenzene	%	-	-	▪ Ranged from 97 to 103 with a mean of 100.	-	-
4-Bromofluorobenzene	%	-	-	▪ Ranged from 85 to 109 with a mean of 101.	-	-
D10-Ethylbenzene	%	-	-	▪ Ranged from 87 to 110 with a mean of 98.	-	-
D4- 1,2-Dichloroethane	%	-	-	▪ Ranged from 92 to 98 with a mean of 95.	-	-
o-Terphenyl	%	-	-	▪ Ranged from 84 to 127 with a mean of 104.	-	-

Notes:
1. **Bold numbers** are values under detection limit and adjusted to half values of detection limit for analytical purpose.
2. Similar to 2011-2012 historic results (Stantec, 2012), under-detection limit values were adjusted to half values of detection limit(s) for analytical purposes and were included in the calculation of mean.

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REPORT

Fish and Fish Habitat Baseline Report

Kami Iron Ore Mine Project

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June 2025

Distribution List

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Executive Summary

The Kamistiatusset (Kami) Iron Ore Mine Project (the Project) is a proposed iron ore mine in Newfoundland and Labrador. The Project site is located approximately seven kilometres southwest of the Town of Wabush, ten kilometres south of the Town of Labrador City, and five kilometres northeast of Ville de Fermont, Québec.

The Project was originally proposed by the Alderon Iron Ore Corporation (Alderon) and underwent a provincial and federal environmental impact assessment from 2011 to 2013, including a comprehensive baseline program that was completed in 2011 and 2012. The Project was released from the provincial and federal EA process in 2014. In 2021, Champion Iron Mines Ltd. (Champion) completed the acquisition of the Project from Alderon.

Building off the previously completed baseline field program, WSP Canada Inc. (WSP) was retained by Champion Iron Mines (Champion) to complete a fish and fish habitat baseline program to provide context from which Project environmental effects to fish and fish habitat could be evaluated.

Previous sampling programs took place in 2011 (Stantec) and 2012 (AMEC). The purpose of the 2023 sampling program was to characterize baseline conditions according to the new Project footprint before any future mine development on the property, and to validate and augment the survey results from previous years. The purpose of the 2024 sampling program was to survey the watercourses over which the potential new access roads and rail line would run.

Results of all the baseline studies will be used to support the environmental assessment of the Project and will assist in quantifying the potential harmful alteration, disruption or destruction (HADD) of fish habitat and any habitat that would require authorization under Schedule 2 of the Metal Diamond Mining Effluent Regulations (MDMER). As stated in the Project guidelines, baseline surveys should be conducted in accordance with direction provided by the Department of Fisheries, Forestry and Agriculture (FFA, Wildlife Division) and the Department of Fisheries and Oceans Canada (DFO) and shall be designed to:

- contribute to the development of mitigation measures to avoid non-compliance with the Fish and Fish Habitat Protection Provisions of the Fisheries Act;
- inform an offsetting plan to mitigate and compensate for the harmful impacts of the Project;
- contribute to the development of a conceptual reclamation and closure plan;
- provide necessary baseline data to support on-going monitoring programs that assess the effectiveness of mitigation measures and offsetting plans;
- characterize fish communities, provide quantitative biodiversity indices for fish, population levels and quantify fish habitats and their distributions (e.g., spawning, nursing, etc.) where Project activities have the potential to harm fish and/or fish habitat (i.e., Project footprint, upstream and downstream);
- classify and quantify fish habitat (including distribution), as per the Standards Methods Guide for the Classification/Quantification of Lacustrine Habitat in Newfoundland and Labrador; and Standards Methods Guide for the Classification and Quantification of Fish Habitat in Rivers of Newfoundland and Labrador for the Determination of Harmful Alteration, Disruption or Destruction of Fish Habitat (Draft). Available at https://waves-vagues.dfo-mpo.gc.ca/library-bibliotheque/242052.pdf;

- enumerate stream discharge measurements and water quality parameters upstream and downstream of affected water bodies; and
- list any rare fish species that are known to be present.

The *Fisheries Act* contains a prohibition with respect to the harmful alteration, disruption, or destruction (previously known as 'HADD') of fish habitat. Fisheries and Oceans Canada (DFO) must consider if there are alternatives that avoid adverse effects on fish and fish habitat and if the adverse effects on fish and fish habitat are unavoidable, DFO must consider if there are measures to mitigate that would reduce or minimize those adverse effects. If there are any residual effects, then the DFO must consider offsetting measures to counterbalance the death of fish and the 'HADD' of fish habitat (DFO 2019) as per subsections 34.4(2) and 35(2) of the *Fisheries Act* for the proposed work, undertaking, or activity to proceed without contravening the Act. The Act permits the Minister to issue an Authorization (under Section 35 (2) of the Fisheries Act), which will permit death of fish or a 'HADD' to occur. The available results of these surveys (2011, 2012, 2023, and 2024) and other appropriate survey results are provided within this baseline report. Note that detailed information related to stream discharge and water quality measurements are provided in the Surface Water Baseline Report.

Lacustrine/Pond Habitat

A total of 18 ponds and lakes within and near the proposed Project footprint were surveyed, characterized and/or quantified in terms of fish species presence and fish habitat using DFO guidelines. Ponds were located within proposed Project infrastructure footprints as well as nearby within the watershed. In addition to those within the proposed Project footprint, particular attention was paid to those located immediately downstream as changes in water management may indirectly affect fish habitat outside the direct Project footprint. Where Fisheries Act determinations are heavily based on habitat and their support of fish populations, existing data on habitat characterization from previous surveys is provided. Validation of the limited change in fish populations is being completed by replicate sampling in several locations, which may not be completed at the time of this baseline report submission. Supplemental data will be collected by Sikumiut Environmental Management Limited (SEM) in 2025 to verify the validity of the data collected in previous surveys. Results will be provided as an addendum to the baseline report.

Riverine/Stream Habitat

A total of five general areas were surveyed, characterized and quantified in terms of stream habitat and fish species presence using DFO guidelines: the Rose Pit watershed, the Pike Lake watershed, the Tailings Management Facility (TMF) watershed, and the Mine Rock Stockpile drainage. The location of proposed access to the site by road, rail, and possible conveyors has been ongoing; therefore, surveys of crossing locations have been modified as locations change. However, the final location of crossings is pending. When finalized, if locations vary from existing surveys, standard stream crossing surveys will be completed and habitat conditions characterized and provided. Validation of the limited change in fish populations is being completed by replicate sampling in several locations that may not be completed at the time of this baseline report submission. Any new data will be provided as soon as possible as an addendum to this baseline report.

Fish Species Presence and Abundance

Numerous waterbodies and streams have been surveyed for fish species presence and abundance throughout the study area since 2011, with effort focused on the Rose Pit, TMF, and large receiving waterbodies located downstream of the project. A total of 14 species have been confirmed, or are thought to be found, within the study area (Table ES-1).

Table ES–1-1: Species Present Within the Kami Project

Common Name	Scientific Name	Present in Riverine Habitats	Present in Lacustrine Habitats
Brook trout	*Salvelinus fontinalis*	•	•
Burbot	*Lota lota*	•	•
Lake chub	*Couesius plumbeus*	•	•
Lake trout[1]	*Salvelinus namaycush*		•
Lake whitefish	*Coregonus clupeaformis*		•
Longnose dace	*Rhinichthys cataractae*	•	•
Longnose sucker	*Catostomus catostomus*	•	•
Ouananiche[1]	*Salmo salar*		
Northern pike	*Esox lucius*	•	•
Pearl dace	*Margariscus nachtriebi*	•	•
Round whitefish	*Prosopium cylindraceum*		•
Sculpin[2]	*Cottis bairdii/C.ognatus*	•	•
White sucker	*Catostomus commersonii*	•	•

[1] Species not observed throughout field surveys but were indicated as present in the area by local anglers and are likely present based on literature review.

[2] Two species of Sculpin likely present. Field identification is difficult, therefore Mottled and Slimy Sculpin are recorded as Sculpin (*Cottis sp.*)

Throughout the lacustrine habitat surveys, relative abundance has generally been relatively low, with catch-per-unit-efforts typically being less than 10 fish/net-night, with overall CPUEs ranging from 1.0 to 326.0 fish/net-night. Overall, lake chub have been the most abundant species captured throughout the study area, primarily due to high catch rates in Rose Pond during 2011.

Brook trout were the most abundant species captured in riverine sampling locations, and they were found in all stations since 2011, with the exceptions of Stream RP01-PLS in 2011, Streams RP02, WR02 and WR04 in 2012, and stream C-10 in 2024. There were no fish captured in WR02 and WR04 at this time. The highest abundance estimates obtained in 2012 were brook trout in Streams TI01 and TI02, located within the TMF.

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1.0 INTRODUCTION

The Kamistiatusset (Kami) Iron Ore Mine Project (the Project) is a proposed iron ore mine in Newfoundland and Labrador. The Project site is located approximately seven kilometres southwest of the Town of Wabush, ten kilometres south of the Town of Labrador City, and five kilometres northeast of Ville de Fermont, Québec (Figure 1-1).

The Project was originally proposed by the Alderon Iron Ore Corporation (Alderon) and underwent a provincial and federal environmental impact assessment from 2011 to 2013, including a comprehensive baseline program that was completed in 2011 and 2012. The Project was released from the provincial and federal EA process in 2014. In 2021, Champion Iron Limited (through its subsidiary 12364042 Canada Inc, herein referred to as Champion) completed the acquisition of the Project from Alderon. The data collected during the 2011 and 2012 survey seasons is still considered relevant and acceptable by DFO.

Champion is proposing several improvements to the Project design proposed by Alderon through the previous Environmental Impact Statement (EIS). These proposed improvements include optimizations to the Project's water management strategy and modernization of the proposed ore handling, conveyance, and processing. Champion's objective for the Kami Project is to produce high purity (>67.5%) iron concentrate, which can be used as direct reduction pellet feed for electric arc furnaces in the green steel supply chain.

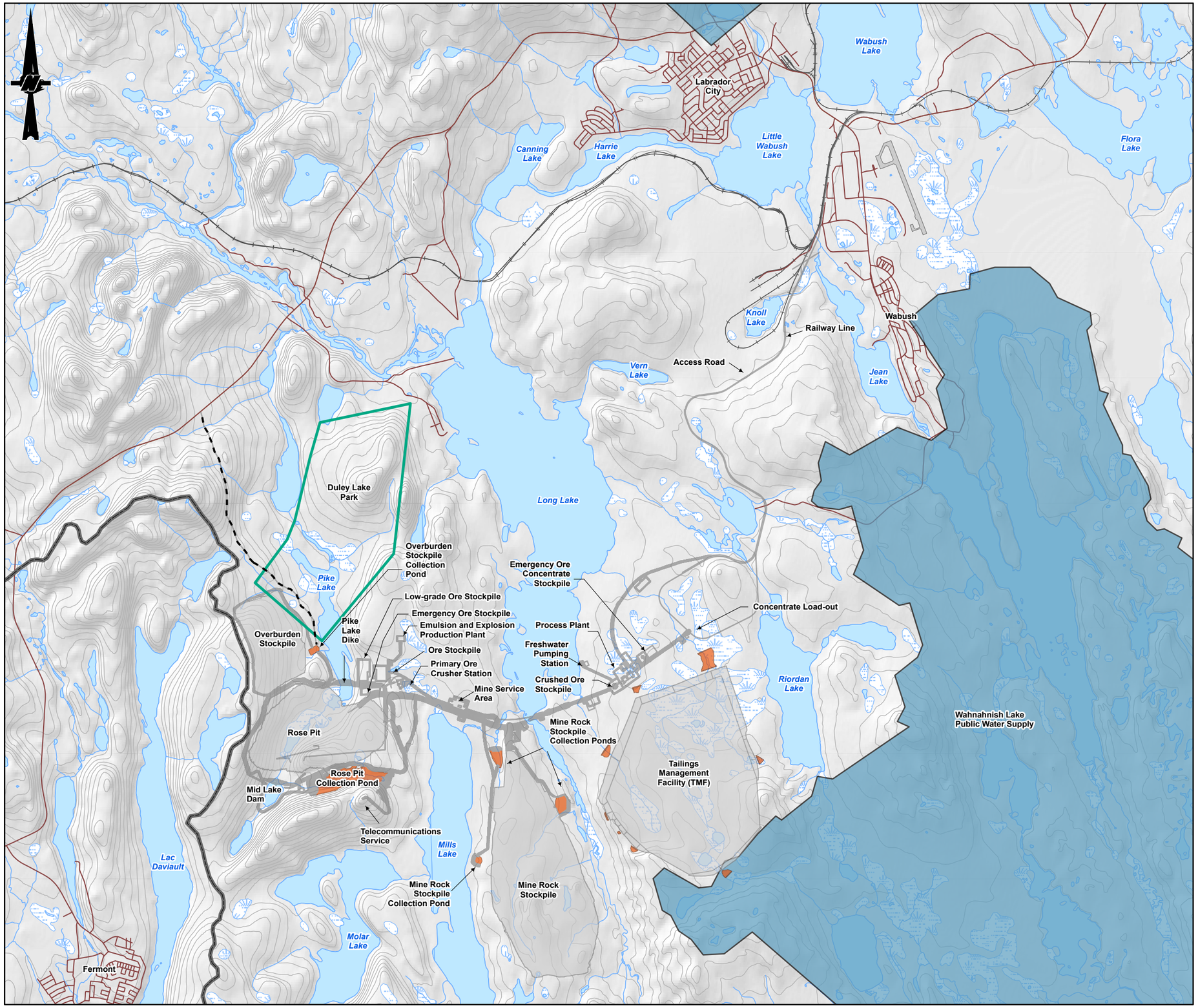
Champion submitted a Project Registration document to the NL Department of Environment and Climate Change (the Department) in April 2024 to restart the EA process for the Project. On June 13, 2024, the Minister issued a Decision Letter to Champion concluding that an EIS would be required for the Project. EIS Guidelines were issued for the Project on December 19, 2024, that includes requirements for baseline studies.

To support the EIS process, Champion has commissioned the services of WSP Canada Inc. (WSP) to complete a comprehensive baseline field program that documents the existing natural and socio-economic environments in the anticipated area of the Project, and this fish and fish habitat baseline report represents a component of the comprehensive baseline program. The fish and fish habitat baseline study was undertaken to provide context from which effects to fish and fish habitat could be evaluated and inform the development of mitigation measures and follow-up effect monitoring programs in the EIS. Champion is planning to submit the EIS to the Newfoundland and Labrador Environmental Assessment Division of the Department of Environment and Climate Change in 2025.

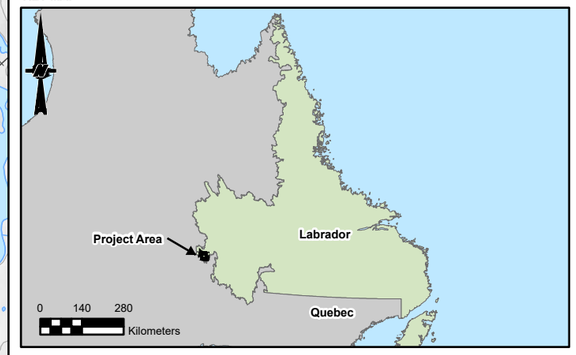
1.1 Overview of the Kami Iron Ore Mine

Figure 1-1 outlines some of the main components of the Project site, including:

- Open Pit (Rose Pit);
- Mine rock stockpile;
- Ore stockpiles (operational and reserve);
- Tailings management facility (TMF);
- Overburden stockpile;
- Processing infrastructure, including crushing and concentrating; and
- Ancillary infrastructure to support the mine and process plant.



KEY MAP



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Legend

PROJECT DATA

- Proposed Project Infrastructure
- Proposed Sediment Pond
- Potential Access Road

BASEMAP INFORMATION

- Road
- Railway
- Watercourse
- Contour
- Duley Lake Park
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

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NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE

PROJECT LOCATION AND SITE LAYOUT

CONSULTANT

wsp

YYYY-MM-DD	2025-02-27
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PREPARED	GM
REVIEWED	AF
APPROVED	--

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2.0 STUDY AREA

Baseline fish and fish habitat surveys have been completed for the Project since 2011, with sampling programs being completed by Stantec (Stantec 2012), AMEC (AMEC 2012) and WSP in 2023 and 2024. Field surveys in 2023 and 2024 were focused on locations identified as data gaps from previous baseline programs as additional project components were added by Champion following the acquisition (Stantec 2012, AMEC 2012). In 2023, the field sampling program took place between July 26 and August 5 by two field staff. Surveys in 2024 were focused on potential stream crossing locations of road and rail routes; however, these continue to be revised. While the stream crossing information will help better inform any remote sensing evaluation of crossing locations, on-site surveys may need to be completed once routes are finalized. Additional surveys in 2024 included fish sampling in Long Lake to support risk assessments and surveys of potential fishless ponds in western Labrador as possible offsets. Between 2011 and 2024, site layouts have been adjusted, and sampling areas have been identified to gain suitable coverage of aquatic habitats and target all potentially impacted fish habitat. Table 2-1 presents a list of coordinates for areas where fish and fish habitat surveys have been undertaken. These locations are also presented on Figure 2-1, in relation to the proposed Project infrastructure.

Table 2-1: Coordinates for Various Locations Sampled Between 2011 and 2024

Habitat Type and Sampling Completed	Year Sampled	Waterbody/ Watercourse Name	Coordinate (19 U)	
			Northing	Easting
Lacustrine ▪ Fish community and abundance surveys ▪ Habitat Surveys ▪ Bathymetric Surveys	2011	D01	5853236	633085
		D02	5849437	633755
		M01	5850222	634761
		M02	5849785	634651
		Pike Lake South	5857869	632888
		Rose Pond (RP01)	5855668	632273
		RP02[1]	5854767	632040
		RP03[1]	5854070	631464
		RP04[1]	5854967	633873
		RP05[1]	5854983	633635
	2012	Pike Lake South	5857869	632888
		Pike Gully	5859195	632693
		Rose Pond[1]	5855668	632273
		Tailings Pond[1]	5853410	639846
	2023	Long Lake	5860305	636605
		Mills Lake	5853747	635116
		Pike Lake North	5860355	632126
		Riordan Lake	5865554	641410
	2024	Pond 1	636085	6045361
		Pond 2	377130	5972643
		Pond 3	402930	5726635
		Pond 5	646763	5920395
		Pond 6	627959	5998687
		Pond 7	617316	5985756
		Pond 8	579784	5998997
		Pond 9	377848	5969793
		Pond 10	328949	5786206
		Pond 11	340049	5789376

Table 2-1: Coordinates for Various Locations Sampled Between 2011 and 2024

Habitat Type and Sampling Completed	Year Sampled	Waterbody/ Watercourse Name	Coordinate (19 U)	
			Northing	Easting
		Pond 12	340049	5789376
		Pond 13	339298	5791175
		Pond 14	644852	5907016
		Pond 15	657108	5875939
Riverine[2] ▪ Habitat surveys ▪ Electrofishing for species presence, relative abundance	2011[3]	M01-M02	-	-
		M02-ML	-	-
		PLN S1	5861786	631872
		PLN S2	5862884	631914
		PLN S3	5863181	632369
		PLS S1	5858891	632918
		PLS S2	5859688	632271
		RP1-PLS	5856076	632671
		RP2-RP1	5855226	632070
		RP3-RP2	5854253	631572
		RP4-RP2	5854800	632348
		RP5-RP4	5854951	633332
		RSD	5851559	631972
		TDA01	5855225	638217
		TDA02	5856735	639861
	2012	RP01	5855222	632078
		RP02	5855296	631582
		TDA01[4]	5853974	638905
		TDA02[4]	5856339	639760
		TDA03	5855365	639156
		TDA04[4]	5855897	640241
		WR01	5855862	636018
		WR02	5854129	637038
		WR03	5853001	636344
		WR04	5853236	637229
		Pike Lake South Outflow	5861799	631910
	2023	Long Lake Inflow	5856139	636355
	2024	C-1	Tacora Private Property – not surveyed	
		C-2	Tacora Private Property – not surveyed	
		C-3	5863532	644754
		C-4	5863001	644602
		C-5	5862142	644815
		C-6	5861159	644002
		C-8	5860060	643418
		C-9	5857679	643432
		C-10	5858713	640725
		C-11	Helicopter Required – not surveyed	
		C-12	Helicopter Required – not surveyed	

Table 2-1: Coordinates for Various Locations Sampled Between 2011 and 2024

Habitat Type and Sampling Completed	Year Sampled	Waterbody/ Watercourse Name	Coordinate (19 U)	
			Northing	Easting
		C-13	Inaccessible at time of survey	
		C-14	5858622	640784
		C-15	5860292	640791
		C-16	Tacora Private Property – not surveyed	
		C-17	Tacora Private Property – not surveyed	

Note Coordinates indicate a general area where surveys have been completed (i.e. a single point within a waterbody, not specific net locations).
All coordinates are presented in UTM NAD83, Zone 19U.
2011 Sampling completed by Stantec (2012).
2012 Sampling completed by Amec Foster Wheeler (2012).

1 Habitat Surveys and bathymetry not completed.

2 Coordinates indicate electrofishing stations.

3 Several electrofishing stations were completed in each stream. Coordinate is an approximate near the middle of the surveyed area.

4 Approximate location.

For an understanding of data sampling over time, the location of survey stations, along with the year that data was collected is summarized in Table 2-2.

Table 2-2. Survey station coverage through time

	Years			
Waterbody	2011	2012	2023	2024
Lacustrine				
D01	•			
D02	•			
M01	•			
M02	•			
RP02	•			
RP03	•			
RP04	•			
RP05	•			
Long Lake			•	
Mills Lake			•	
Pike Gully		•		
Pike Lake North			•	
Pike Lake South		•		
Riordan Lake			•	
Rose Pond		•		
Tailings Pond		•		
Pond1				•
Pond 2				•
Pond 3				•
Pond 5				•

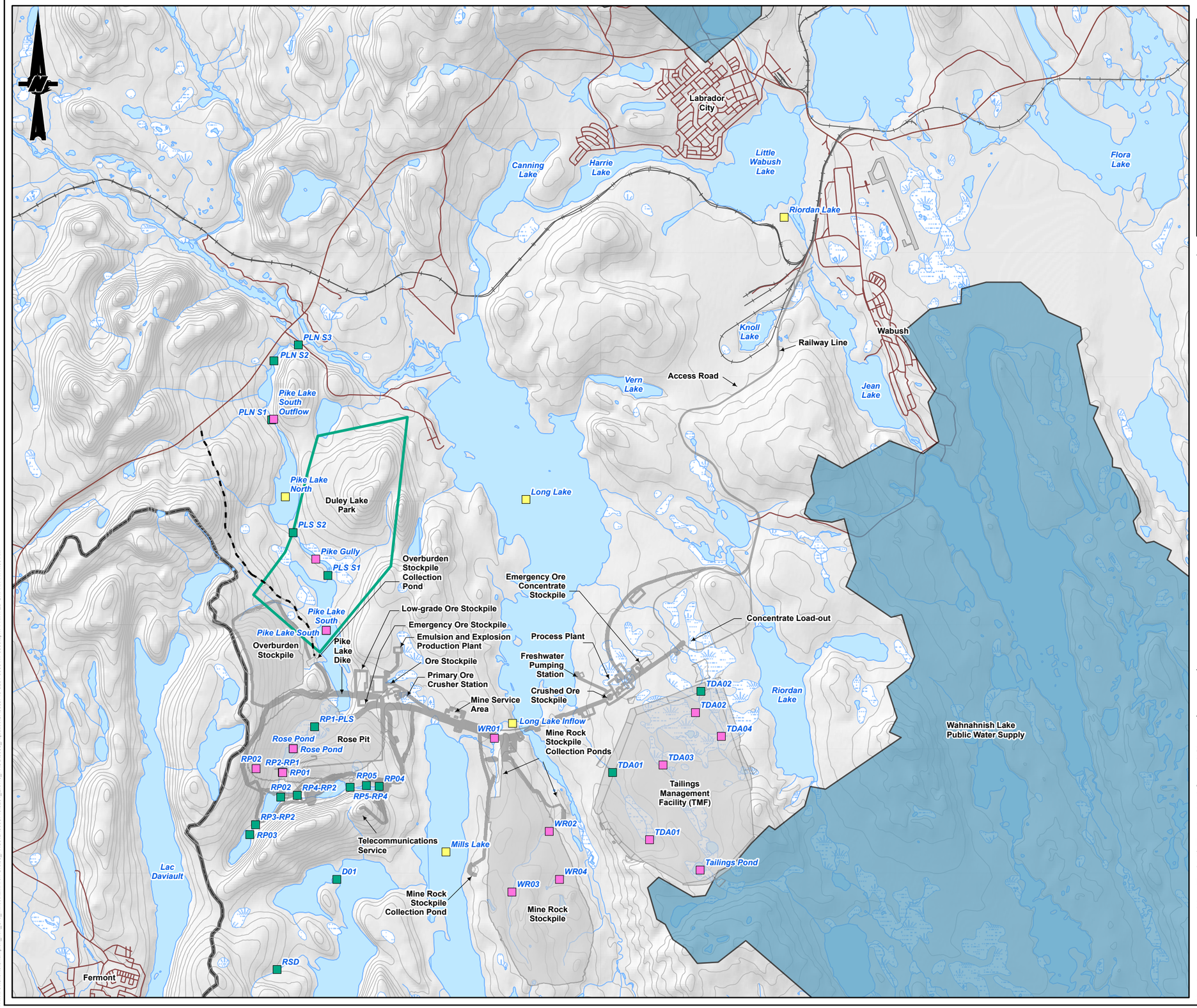
Table 2-2. Survey station coverage through time

	Years			
Waterbody	2011	2012	2023	2024
Pond 6				•
Pond 7				•
Pond 8				•
Pond 9				•
Pond 10				•
Pond 11				•
Pond 12				•
Pond 13				•
Pond 14				•
Pond 15				•
Riverine				
C-3				•
C-4				•
C-5				•
C-6				•
C-8				•
C-9				•
C-10				•
C-14				•
C-15				•
M01-M02	•			
M02-ML	•			
PLN S1	•			
PLN S2	•			
PLN S3	•			
PLS S1	•			
PLS S2	•			
RP01		•		
RP02		•		
RP1-PLS	•			
RP2-RP2	•			
RP3-RP2	•			
RP4-RP2	•			
RP5-RP4	•			
RSD	•			
TDA01	•	•		
TDA02	•	•		
TDA03		•		
TDA04		•		
WR01		•		

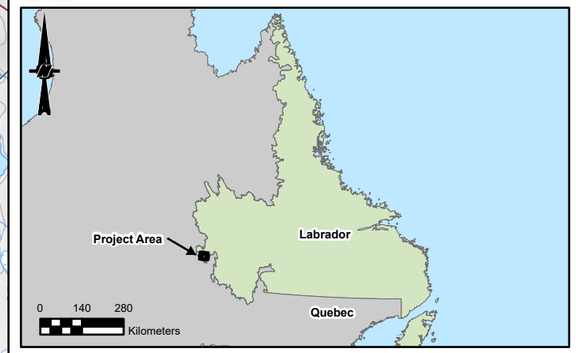
Table 2-2. Survey station coverage through time

	Years			
Waterbody	2011	2012	2023	2024
WR02		•		
WR03		•		
WR04		•		
Pine Lake South Outflow		•		
Long Lake Inflow			•	

Note 2011 Sampling completed by Stantec (2012).
2012 Sampling completed by Amec Foster Wheeler (2012).



KEY MAP



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LEGEND

PROJECT DATA

Sample Location (by year)

- 2011
- 2012
- 2023

PROJECT INFRASTRUCTURE

- Proposed Infrastructure Footprint
- Potential Access Road

BASEMAP INFORMATION

- Road
- Railway
- Watercourse
- Contour
- Duley Lake Park
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

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NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE MINE PROJECT (KAMI PROJECT)
WABUSH, NL

TITLE

SAMPLE LOCATIONS

CONSULTANT

wsp

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DESIGNED	----
PREPARED	GM
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
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3.0 RATIONALE AND OBJECTIVES

The purpose of the sampling program is to characterize baseline conditions of the site before any future mine development on the property. Results of the baseline study will be used to support the assessment of potential effects from the proposed Kami Project and will provide the necessary data to quantify the potential harmful alteration, disruption, or destruction of fish habitat. Baseline surveys were conducted following direction as provided by DFO and are designed to:

- Contribute to the development of mitigation measures and fish habitat compensation plans for the Project;
- Contribute to the development of a conceptual reclamation and closure plan;
- Provide necessary baseline data into support of on-going monitoring programs that assess the effectiveness of mitigation measures and compensation plan; and
- Provide necessary baseline data to support assessment of effects on the recreational, commercial, and Aboriginal fisheries and their habitats.

In general, baseline studies are conducted to obtain additional data for use in determining the potential for significant effects on a valued ecosystem component due to the proposed undertaking, and to provide the necessary baseline information for monitoring programs. The objectives of the 2023 and 2024 Fish and Fish Habitat Baseline Study were to:

- Determine fish presence and fish species composition in watercourse waterbodies that may be utilized in offset planning. Fishing methods included fyke net trapping and gillnetting of lacustrine (lake or pond) habitat and index (qualitative) electrofishing of stream habitat.
- Complete stream surveys in areas identified as potential crossing locations using standard DFO survey methods.
- Collect baseline data regarding fisheries (recreational, commercial, and Aboriginal) within the study area and collect additional fish samples for species presence and risk assessment from Long Lake.
- Validate the magnitude of changes between the 2011/2012 baseline surveys and assess the need to collect more baseline data.

4.0 METHODS

Below is a summary of the methodologies employed during the 2011, 2012, 2023, and 2024 field surveys. The methods used in the 2011 and 2012 surveys match those used in 2023 and 2024. Therefore, the 2011-2012 data is considered relevant and can be meaningful compared to the recently collected data. Many habitats were previously sampled in the last successful assessment (i.e. Alderon) and Fisheries Act authorization and were re-sampled in recent baseline programs. The focus of the 2023 and 2024 baseline data collection has been to supplement the existing data set by collecting additional information from waterbodies that may be affected by changes proposed from the original project design.

It is recognized that all sampling methods have limitations and restrictions (e.g., electrofishing depth limits) regarding where and when they can be used, and what species can be targeted with each. Sampling licence requirements (e.g., timing windows for spawning) must also be adhered to, which can affect the methods' duration or effectiveness. While these limitations are typical in data acquisition (e.g., some species missed during electrofishing due to river depth), they do not impact the data's validity. For example, when a population estimate is generated from the collected data, the Project and regulators can use that estimate (with confidence limits) to determine effects and establish a portion of the DFO Fisheries Act HADD determination. Greater efforts can reduce population estimate confidence limits around the mean and therefore present greater accuracy; however, the limitations put on data collection permits (e.g., seasonal and thermal restrictions, catch limits, species-specific limits, area restrictions, etc) can present challenges in obtaining tight confidence limits. The assessment and determinations consider this in the habitat types being affected or lost and the populations utilizing them. The standard methods and data collected by previous baseline programs remain valid, given the habitat-based approach DFO uses in HADD determination and input on the fish species and their possible abundance in the potentially affected habitat. These methods and data can describe and assess the habitat and fish species present, including an abundance estimate, in each waterbody affected by the proposed project. This information is necessary for DFO to determine the HADD and the required offsets to compensate for any identified negative effects.

4.1 Fisheries Literature Review and Interviews

Literature reviews of available, published information on regional limnology, regional hydrology, fish and fisheries have been completed, and relevant data consolidated. In addition, creel surveys were carried out in 2012 with Labrador City/Wabush and Fermont area residents to determine target sport fish species and the areas in which locals fished. Additional creel surveys are planned for

4.2 Riverine Habitat Surveys

Stream surveys were conducted throughout several watercourses within the project area by AMEC (2012) and WSP. The methods used to classify and quantify the aquatic habitat were based on standardized DFO methodologies such as DFO (2012), Scruton & Gibson, (1995) and Sooley et al. (1998). Survey data collection consisted of a series of measurements for each habitat reach including:

- Channel dimensions (channel width, wetted width, ice scour height);
- Substrate composition (percentage of each class of substrate found within the stream bed, e.g., cobble, gravel, aquatic vegetation);
- Instream features (discharge, water depths and velocity);
- Riparian vegetation (dominant species, percent cover, instream woody debris); and
- Upstream and downstream photos at each transect.

A general habitat description was also used to classify each section of stream with similar habitat features (e.g., pool, riffle, run) and the quantity of each in the surveyed section of the stream.

Habitat information was collected in 2024 for potential access road and rail line crossings. Field surveys followed the same procedure as previous riverine habitat surveys. Air photo analysis was also completed, which allowed for estimates of slope, wetted width, dominant substrate, flow morphology and riparian habitat, for any crossings which were inaccessible to the field crew. When assessing dominant substrate using air photos, it is classified as Fine or Coarse, as this is the resolution that is typically available.

4.3 Riverine Fish Population Surveys

Riverine fish populations were assessed with electrofishing, through a combination of quantitative and index (qualitative) stations. Numerous quantitative electrofishing stations were completed in 2012 (Section 4.3.1), while index was completed in 2011, 2023 and 2024 (Section 4.3.2). Each method collects information on species presence and biometrics (i.e., lengths and weights).

4.3.1 Quantitative Electrofishing Surveys

Fish populations in the selected watercourse were assessed with quantitative electrofishing by AMEC (2012) and WSP. Each electrofishing station was blocked off using barrier nets at the upstream and downstream boundaries. The isolated area was then electrofished with a minimum of four sweeps, or until the last sweep had a total catch of less than half of the previous sweep.

Abundance and biomass estimates were calculated using the Zippen removal method using the Fisheries Stock Assessment (FSA) package (Ogle 2016) for R (R Core Team 2020). This approach was applied to abundance and biomass of all species combined and then estimates were calculated based on the proportion of the total catch for each species. This approach helps to overcome any issues associated with low catch rates of some species.

4.3.2 Index Electrofishing Surveys

Index electrofishing stations were completed in 2012, 2023 and 2024 at selected sites. Electrofishing in 2023 and 2024 was completed using a Smith-Root LR24 backpack electrofisher. A single electrofishing site was completed in Long Lake inflow on August 5, 2023. Electrofishing in 2024 was completed between July 30 and August 5. Rather than blocking an area of habitat with barrier nets and completing multiple passes, a single pass of at least 400 seconds was completed. All fish collected were identified to species, numerated, measured, weighed, and live released downstream of further electrofishing. Abundance and biomass catch-per-unit-effort (CPUE) was then calculated and standardized to 300 seconds of electrofishing effort. This allows for comparison across years and locations, where applicable.

4.3.3 Fish Biometrics

Each fish captured during electrofishing was processed following the completion of each sweep. Processing included:

- Identification to species;
- Measuring to nearest millimeter (fork length or total length for Burbot and Sculpin); and
- Weighing to nearest 0.1 gram.

Length (L) and weight (W) data were then used to calculate Fulton's Condition Factor (K; Peterson & Harmon, 2005), which is a length-weight relationship:

$$K = \frac{(W \times 10^5)}{L^3}$$

Smaller fish often have errors associated with the calculation of condition factors. Likewise, instrument error can also affect the data. To account for this, two conditions were considered:

- Fish smaller than 80mm in length were removed from estimates of fish condition as slight errors in the weights of these individuals could skew the estimates.
- Ranges were calculated using three standard deviations of the mean for each species and values outside of the calculated range were removed from further analysis as they most likely included errors in length and/or weight measures. This was completed separately for each species to account for varying body types.

4.4 Lacustrine Habitat Surveys

Bathymetric surveys were completed in numerous waterbodies by Stantec in 2011, AMEC in 2012 and WSP in 2023. All surveys were completed in 2012 (AMEC 2012) and 2023 utilized a differential GPS sonar unit attached to a Zodiac style inflatable boat. The unit links GPS and sonar technology in a digital environment so that depths and location are digitally mapped. The Lowrance sonar/GPS unit was set up in the field to collect combined positional and depth data once every second. The boat was generally moving at a rate of less than 2 metres per second (m/s) for optimal coverage. The unit has been tested using known survey pin locations for positional accuracy and has been recorded as being less than one metre. The error associated with sonar depth detection has been given as 1 centimetre (cm); however, weather conditions such as wave height and variable water temperatures can also affect this slightly.

Shoreline surveys were also completed in select waterbodies to quantify substrate coverage within the littoral zone. This information, while summarized to present a classification of habitat, will be utilized for habitat quantifications, as part of the offsetting process.

4.5 Lacustrine Fish Community Surveys

Lacustrine fish populations were assessed in several waterbodies between 2011 and 2023, using a combination of fyke nets and gillnets (Table 4-1). For both surveys, fyke nets were installed for a minimum of 16 hours, to cover the dawn and dusk periods when fish are most active. Gillnets were primarily utilized to determine deep water species presence (i.e. lake trout or lake whitefish), with live release being desired. Therefore, gillnets were checked at regular intervals to avoid mortalities as much as possible. Regardless of capture technique, all fish were identified to species, weighed and measured, as discussed in Section 4.3.3.

Additionally, during 2012, population estimates were calculated using a mark-recapture study in Pike Lake South and Pike Gully. In each of these waterbodies, all brook trout and northern pike captured were marked with a small clip at the top of the caudal fin to identify recaptures. All fish, regardless of being marked, were then live released near the capture area, and during subsequent net checks, any recaptures were weighed, measured and noted as a recapture (Section 4.3.3). Population estimates and confidence intervals were calculated using the Schnabel multiple mark-recapture method (Ricker 1977, Ogle 2016).

In 2024, several ponds in western Labrador were identified as possibly fishless and therefore candidates for offsetting. The determination of whether a pond is fishless can be intensive; however, this option was investigated as part of the offsetting options analysis. Prior to conducting extensive surveys for a fishless pond(s), a GIS

investigation was conducted to determine whether potential fishless ponds could be identified based on existing parameters associated with known fishless ponds used for previous successful fish habitat offsetting. A total of four ponds were used to develop criteria suitable for GIS analysis; White Lake (a fishless lake used by Iron Ore Company of Canada as compensation for Hakim Lake), Pond 61 (a fishless pond used by Vale NL as compensation for Headwater Pond), and several small ponds identified by Labrador Iron Mines as being fishless in their EA documents.

Data regarding pond characteristics such as total pond elevation, location within the watershed, and pond size as well as outflow river characteristics such as slope, shape, and obstructions were input to GIS. Digital Elevation Models (DEMs) and topographic files were used to analyze the terrain and ponds within western Labrador for potential candidates.

In total, fourteen ponds were identified as waterbodies with the area of analysis that, based on previously fishless ponds identified in Labrador, have the potential to be fishless. Field surveys were completed in August of 2024 at each waterbody. Each had a series of live capture fyke nets and baited minnow traps set overnight for at least two nights or until a fish was confirmed within the waterbody. If no fish were captured, eDNA sampling was completed and full pond characterization as per above (Section 4.4) were completed. Since these surveys were related to offsetting and not effects, the effort is not included in Table 4-1.

Table 4-1: Netting Effort for all Lakes Sampled Between 2011 and 2023

Year	Waterbody	Fyke Net Effort (net-nights)	Gillnet Effort (hours tended sets)[1]
2011[1]	RP01	2	4.0
	RP02	2	4.0
	RP03	2	4.0
	RP04	2	4.0
	RP05	2	4.0
	D01	2	4.0
	D02	2	4.0
	M01	2	4.0
	M02	2	4.0
	Pike Lake South	5	4.0
2012[2]	Pike Lake South	24	0.0
	Pike Gully	6	0.0
	Rose Pond	25	0.0
	Tailings Pond	10	0.0
2023[3]	Long Lake	10	0.5
	Riordan Lake	5	0.3
	Mills Lake	10	0.3
	Pike Lake North	10	0.5

[1] Gillnets were deployed for short durations, approximately 2 hours sets in 2011, and 15-20-minute sets in 2023 as per DFO licence requirements.

[2] Source: Stantec (2012)

[3] Source: AMEC (2012)

[4] Sampling completed by WSP

5.0 STUDY RESULTS

5.1 Regional Fisheries

There are no commercial fisheries within the Project area, therefore, fisheries are focused on recreational fishing within the area. Based on interviews conducted in 2012 with residents of Labrador City, Wabush and Fermont the target fish species include lake trout, brook trout, lake whitefish, burbot, northern pike and ouananiche (AMEC 2012). Fisheries are pursued throughout the region with activity tending to be centered in accessible streams, ponds and lakes near the towns of Labrador City and Wabush, cabins in the area, and along the highway and rail lines. Specifically, the main areas that are fished include Long Lake, Shabogamo Lake, Waldorf River, Mills Lake, Ossokmanuan Reservoir, Panchia Lake, Lobstick Lake, Ashuanipi Lake, unnamed lakes, ponds and rivers south of Wabush. Fermont fishers reported use of Lac Daviault and Lac Carheil.

5.2 Fish Species Present

Various waterbodies and watercourses have been sampled throughout the study area since 2011, with several differing gear types. Table 5-1 presents a summary of the species which have been confirmed as present within the Project area, as well as those anecdotally observed, and likely present based on literature review.

Table 5-1: Summary of Species Present Throughout the 2011 to 2023 Studies

Common Name	Scientific Name	Present in Riverine Habitats	Present in Lacustrine Habitats
Brook trout	*Salvelinus fontinalis*	•	•
Burbot	*Lota lota*	•	•
Lake chub	*Couesius plumbeus*	•	•
Lake trout[1,2]	*Salvelinus namaycush*		•
Lake whitefish	*Coregonus clupeaformis*		•
Longnose dace	*Rhinichthys cataractae*	•	•
Longnose sucker	*Catostomus catostomus*	•	•
Ouananiche[1]	*Salmo salar*		
Northern pike	*Esox lucius*	•	•
Pearl dace	*Margariscus nachtriebi*	•	•
Round whitefish	*Prosopium cylindraceum*		•
Sculpin[3]	*Cottis bairdii/C.ognatus*	•	•
White sucker	*Catostomus commersonii*	•	•

[1] Species not observed throughout field surveys but were indicated as present in the area by local anglers and are likely present based on literature review.

[2] Species not observed throughout field surveys; however, remains from angling were observed.

[3] Two species of Sculpin are likely present. Field identification is difficult; therefore, Mottled and Slimy Sculpin are recorded as Sculpin (*Cottis sp.*).

Provided below is a brief description of each key fish species captured through baseline sampling surveys within the area of the Project. Much of the life history information is provided from DFO documents which summarize existing information on each species within the province (e.g., Bradbury et al. 1999 and Grant and Lee 2004). While land-locked Atlantic salmon were not captured through baseline surveys, they may be located in areas of offsetting measures and are a recreational fish species; therefore, a species description is provided at the end of this section.

5.2.1 Brook trout (*Salvelinus fontinalis*)

The brook trout is widely distributed throughout Newfoundland and Labrador, at least as far north as the Hebron Fiord, where they have been reported to make extensive use of clear, cool (less than 20 °C) lake habitats.

Within Newfoundland and Labrador, lakes and ponds are utilized for spawning, overwintering and feeding. Optimal brook trout riverine habitat has been characterized as clear, cold spring-fed streams with a silt-free rocky substrate in riffle to run areas; an approximate 1:1 pool to riffle ratio with areas of slow, deep water, well vegetated stream banks, abundant instream cover, and relatively stable water flow, temperature regimes and stream banks. Brook trout spawning has been observed in a variety of habitats and substrates including; lake shorelines, sandy and heavily silted substrates and over aggregations of waterlogged sticks, woodchips and debris. This generalist spawning behaviour appears to be less dependent on substrate and more strongly correlated to the presence of groundwater upwelling, particularly for mainland populations. Groundwater upwelling is beneficial in that it protects eggs from freezing and carries dissolved oxygen to and metabolic wastes away from, developing embryos.

Young-of-year (YOY) and small juveniles (less than 15 cm in length) are generally associated more with instream cover (mostly rubble substrate) than overhead stream bank cover, and that an area of cover at least 15 percent of the total stream width is required. Aquatic vegetation is an important form of cover for young salmonids. In two Avalon Peninsula streams, YOY and juveniles showed a strong preference for cover (where available), but that the presence of competing species and/or lack of available cover can result in shifts of habitat utilization. In Newfoundland, juvenile brook trout typically move into lakes at 1 to 3 years of age and move to deeper, cooler, waters during the warmer summer months.

In an Avalon Peninsula stream, brook trout biomass had a negative relationship to maximum flood height, indicating that habitats with more stable flows had higher production. Adults are often found in association with cover, which is sometimes considered a factor limiting to production. Cover can be provided by overhanging vegetation, submerged vegetation, undercut banks, instream objects (woody debris, roots, and large boulders), rocky substrates, depth, and water surface turbidity. In two Michigan streams, trout biomass and number of adults were significantly correlated with bank cover. In two Avalon Peninsula streams, as brook trout increase in size, they tend to move from shallow stream margins to deeper water (pools) with undercut banks and other forms of cover.

5.2.2 Burbot (*Lota lota*)

Burbot is the only member of the Gadidae family that resides in freshwater. They occur in continental Eurasia and North America, southward to about 40° N, where they frequent cool waters of large rivers, lower reaches of tributaries, and large lakes. Burbot have been reported within the Churchill River including Labrador west, and within the Atikonak Lake watershed of southern Labrador.

Burbot spawn in both lakes and rivers. Spawning usually takes place in mid-winter (January to March) under the ice in lakes or rivers. Eggs typically hatch from late February to June. Those that spawn in rivers reside in lakes but migrate into rivers to spawn. They tend to utilize areas with little accumulation of silt or detritus, usually at depths of 0.3 to 3.0 m, but have been reported at depths of 18 to 20 m. The semi-buoyant eggs are broadcast into the water column well above the substrate, then become demersal and settle into interstices in the substrate.

Typically, by early summer larval burbot attain a length of approximately 30 mm at which point they undergo a habitat shift from pelagic to a mainly benthic existence. Young-of-Year (YOY) are typically found in the littoral regions of lakes over gravel, cobble or rubble bottoms where they have been observed in shallow water (0.5 to 3.0 m) during the day, sheltering under rocks and debris and are mainly active at night. Juveniles have been shown to occupy essentially the same habitat as YOY and feed mainly on benthic invertebrates. In streams, young typically use undercut banks, submerged logs and vegetation for cover in sandy areas if rocky habitat is

limited. Throughout its geographical range in Canada, burbot generally reach sexual maturity between 2 to 8 years of age.

Adults tend to congregate over gravel, rock, or cobble substrates and often utilize undercut banks, roots of trees and dense vegetation as cover. They have been observed inhabiting deep sections of rivers and deep eddies in large northern rivers, mostly at depths greater than 1.5 m. Adult burbot tend to move offshore to deeper waters (i.e., hypolimnion zone) and return to littoral regions during the autumnal decline in water temperatures. In shallow water, especially where the bottom is brightly illuminated, burbot may seek overhead cover during the day and are sometimes found amongst aquatic plants. The loft habitat provided by the tops of boulders is also a preferred resting area for adults. Burbot feed on benthic invertebrates initially, moving to an exclusively fish diet once they reach a size greater than 500 mm (AGRA 1999).

5.2.3 Lake chub (*Couesius plumbeus*)

In north-western Canada and Alaska, the lake chub has been found in both clear and turbid waters of lakes and streams, while in Labrador they have been reported to occur mostly in streams and lake-like expansions of rivers. In central Canada, lake chub appears to be common in tributary streams only during spring spawning migrations, returning to the lake once water temperatures exceed 16°C. They have been known to tolerate a wide variety of conditions, ranging from clear to turbid waters and from cool northern lakes to the outlets of hot springs.

Lake chub usually undergo spawning migrations from lakes to tributary streams in May or June, shortly after ice-out. In rivers and small streams, spawning has been observed in shallow water over rocky or gravel bottoms as well as amongst large rocks. In lakes, spawning typically takes place along shallow rocky shores and may be observed over a variety of substrates including silt, leaves, gravel, cobble and rubble. Fry have been observed utilizing submergent vegetation for cover, while YOY and juveniles are generally found over silty, sandy or gravel/cobble substrates.

Adults are commonly found in lakes in the southern portion of their range, with more northern populations preferring large lake-like expanses of rivers. Within the Churchill River system, adults are more prevalent in the upper stretches of rivers with shallow gradients and more pools, lakes and ponds (AGRA 1999). Along shores, lake chub have been observed over a mainly sand bottom interspersed with large boulders. Although it is essentially a shallow-water species, lake chub have been reported to move into deeper and cooler regions of lakes during thermal summer stratification. In Labrador, lake chub were found to feed mainly on benthic invertebrates.

5.2.4 Lake trout (*Salvelinus namaycush*)

Lake trout, the largest of the charr, are widely distributed in northern North America. They are found throughout southern Labrador, except for the south-eastern corner, but do not occur in insular Newfoundland. In the south, lake trout prefer cool (less than 10°C), deep lakes, but in the north where temperatures are lower, they may inhabit shallow lakes and large rivers. In Labrador, lake trout occur throughout the Churchill River watershed, but are more prevalent in the upper reaches.

Lake trout usually spawn in shallow inshore areas of lakes, rarely in streams. In most areas of Canada, spawning occurs in late summer to early fall, mainly in September or October in Labrador. Lake trout have been reported to spawn over a great variety of depths, ranging from 0.1 to 5 m in shallower lakes, to 5 to 10 m in larger lakes. There are also reports of spawning occurring at depths up to 100 m as well. The spawning substrate is usually composed of large gravel (greater than 2 cm in diameter), cobble and rubble interspersed with boulders and is generally free of sand, mud, detritus and vegetation.

Newly hatched larvae typically undergo early development within the protection of rocky substrate on the spawning grounds. Within a month of emergence, fry begin moving from the spawning area towards their nursery lake. In lake spawning populations, they may remain in shallow areas for several weeks to three months before moving to deeper water when temperatures exceed 15°C. Juveniles and adults generally have similar habitat, generally preferring boulders in shallower waters until temperatures exceed 10°C when they retreat to depth. Diet consists primarily of fish, supplemented by insects and small mammals. Sexual maturity is thought to occur at a relatively old age. When Parsons (1975) sampled the Ossokmanuan Reservoir in western Labrador they found no sexually mature lake trout less than nine years of age.

5.2.5 Lake Whitefish (*Coregonus clupeaformis*)

Lake whitefish are widely distributed throughout North America from the Atlantic coast, across Canada and the northern United States, to British Columbia, the Yukon Territory, and Alaska. They are distributed throughout southern Labrador. Although they are primarily found in lakes, they are relatively abundant in the main stem of the Churchill River, as well as the adjoining lakes and ponds within its watershed.

Lake whitefish undertake migrations to spawning grounds, ascending rivers or moving into the shallows of lakes when water temperatures cool to 4.5 to 10°C. Optimal growth and development occurs at 0.6°C, with 99 percent mortality at temperatures of 10°C and greater. There is some evidence that lake whitefish return to the same spawning grounds year after year. In Labrador, spawning migrations are reported from early September to mid-October. River spawners generally utilize shallow (0.1 to 1.0 m), riffles or rapids with a gravel/cobble substrate, while lake spawners tend to utilize sandy substrates. Spawning occurs in schools, with eggs being randomly deposited and remaining in the spawning area until hatching in mid May to mid June. More northerly populations tend to produce fewer eggs. In the extreme northern limits of the range, individuals may only spawn once every two or three years. Egg counts can vary greatly depending on a fish's size, with specimens from the Ossokmanuan Reservoir in western Labrador yielding anywhere from 967 to 20,963 eggs per fish.

Upon hatching, whitefish larvae tend to aggregate along steep shorelines, although they have been observed at depths of 0.3 to 1 m near aquatic vegetation. Whitefish growth is relatively rapid, with the young feeding mainly on cladocerans and copepods. By early summer, young leave the shallow inshore waters and enter deeper lake waters. The diet of adult whitefish consists of aquatic insects and larvae, supplemented by other fish and even their own eggs. Outside of spawning, adult whitefish appear to have no preference for substrate type. In Labrador, the Churchill River watershed lake whitefish reach maturity over a range of 3 to 9 years old and, as a species, tend to be long lived, with individuals reaching ages of 28 years.

5.2.6 Longnose dace (*Rhinichthys cataractae*)

The longnose dace is widely distributed throughout north-central North America, yet in the Canadian Atlantic provinces, it has only been reported along the Churchill, Pinus and Naskaupi river systems in south-western Labrador. Although the longnose dace is typically a stream inhabitant in Labrador, it has also been reported in lakes throughout its geographical range.

Spawning normally occurs in riffles over a gravel substrate in spring but may also occur in lakes. In lakes, spawning occurs along wave-swept inshore areas over a cobble/rubble/boulder substrate. Nests are not built; however, territories are often established with one parent guarding the demersal and adhesive eggs which are deposited in groups among the substrate. Young are pelagic upon hatching and occupy still, shallow waters close to shore with overhanging vegetation for approximately their first four months of life. They feed primarily on algae, diatoms, zooplankton and fish scales. YOY move to deeper areas of rivers predominated by swift currents upon attaining a size of 30 mm (total length).

In streams, adults seem to prefer areas with aquatic vegetation and overhead cover and may exhibit similar preferences in lake habitats. However, field surveys by AGRA (1999) in the Churchill River found they generally inhabited clear, fast flowing, streams with limited cover. Adults have been found in turbulent, inshore regions of lakes over boulder or gravel bottoms throughout the summer, but generally move into deeper, cooler waters as water temperatures increase. Adult longnose dace feed primarily on terrestrial insects that are presumably washed into the surge zone of the lake by wind and turbulent wave action, as well as benthic organisms and fish eggs.

5.2.7 Longnose sucker (*Catostomus catostomus*)

The longnose sucker can be found throughout northern North America from Alaska to western Labrador, and from the northern United States to the southern portion of the Northwest Territories. Longnose suckers are primarily bottom dwellers and inhabit lakes, rivers and reservoirs. They have also been reported in brackish waters near the vicinity of river mouths. They are abundant in Labrador in the Churchill River system and can be found in the main stem and also throughout the adjoining lakes and tributaries.

Longnose suckers which inhabit lacustrine habitats migrate into rivers to spawn. Spawning generally occurs in the spring (mid April or May); however, spawning has been observed in June in the Labrador region. During spawning, the female moves into the faster riffle or midstream waters of rivers and inlet streams, but may also utilize the outlet streams of lakes, or shallow lake margins. Longnose suckers are broadcast spawners, which repeatedly broadcast their adhesive eggs over a clean substrate comprised of cobble, or rubble in riffle areas where velocities range from 0.3 to 1.0 m/s and depth are between 15 and 60 cm. The young spend 1 to 2 weeks in the spawning area and then move to lentic habitat.

YOY in Alaska were most abundant over silt and sand substrate in shallow (less than 0.2 m) backwaters having velocities less than 0.1 m/s. However, the same study found them to occur over gravel, cobble and rubble substrates at varying densities depending on depth and velocity. Juveniles (23 to 89 mm in length) live in lentic waters and are frequently found in shallow reedy areas (Edwards 1983). Juveniles have a preference for sand/gravel substrate but have also been found over silt, sand, gravel, cobble and rubble. Juveniles have been observed seeking areas with some current and may enter the lower reaches of streams. Adults were captured in tributaries of Atikonak Lake, southwestern Labrador, at temperatures ranging from 13.9 to 19.6°C and depths between 17 and 75 cm over a gravel, cobble, or boulder substrate. Adults are well adapted to high current velocities (Walton 1980) and are often found in swift rivers with stony bottoms.

The diet of the longnose sucker consists entirely of invertebrates and algae. Longnose suckers grow at a rate of approximately 15 to 20 mm per year and reach an average size of 305 to 356 mm in length, living for up to 19 years. In the Churchill River, longnose suckers exhibit linear growth at a rate near the lower limits exhibited by the species as a whole. Sexual maturity of the Churchill River system occurs at 6 to 7 years of age.

5.2.8 Northern pike (*Esox lucius*)

The northern pike has a circumpolar distribution in the northern hemisphere above 40° N latitude. Its native North American range includes Alaska, most of Canada south of the Arctic Circle, the drainages of the Missouri and Ohio Rivers, and the Great Lakes. In Labrador pike occur throughout the Churchill River watershed including western Labrador.

Northern pike are not adapted to strong currents and occur most frequently in lakes where they inhabit backwaters and pools. In Canada, pike generally inhabit clear, cool to moderately warm, slow, meandering, heavily vegetated rivers or warm, weedy bays of lakes. Pike inhabit areas containing aquatic vegetation throughout all stages of their life cycle and have been found within a wide range of turbid waters, although they are much more common in clear and only slightly turbid water.

Northern pike are early spring spawners, with males and females moving into flooded vegetated areas immediately after spring thawing. They generally spawn during daylight hours in shallow, heavily vegetated floodplains of rivers, marshes, and lakes. Spawning occurs over a variety of substrates, but rubble beds covered with a layer of silt and decaying vegetation are commonly utilized. The preferred spawning substrates are well oxygenated detritus and elaborate root systems of emergent vegetation, but spawning has also been reported to occur over sand and mud substrates. Adhesive eggs are attached to vegetation where they incubate for only twelve to fourteen days. The newly hatched young (6 to 8 mm in length) remain attached to the vegetation and feed on the yolk sac. After 6 to 10 days, the yolk is absorbed and the free-swimming young feed heavily on zooplankton and immature aquatic insects.

Within 7 to 10 days the juveniles begin to feed on small fish and by the time pike reach 50 mm in length, fish have become the primary diet. Juveniles are typically found over a mud or silt bottom at depths less than 2.0 m with abundant submerged vegetation. Adult pike require cover to enable their ‘ambush’ style of foraging, usually in the form of aquatic vegetation, tree stumps or fallen logs. However, complete vegetative cover is considered to be sub-optimal for adult pike foraging efficiency, with most adults preferring areas containing open water interspersed with moderately abundant vegetation. Typically, large pike inhabit deeper unvegetated waters more often than smaller ones. Outside of vegetation, the preferred habitat of large pike is a ‘broken bottom’. Both juvenile and adult pike have been shown to avoid habitat predominated by sand.

5.2.9 Pearl Dace (*Margariscus margarita*)

In northern Canada, the pearl dace can be found inhabiting cool, clear headwater streams as well as ponds, small lakes, bog drainage streams and low-visibility, acid waters of beaver ponds. Despite their abundance in most streams and lakes in northwestern Ontario, they have been rarely found in lakes containing northern pike which suggests that they are an important forage species in lakes.

In many northern lakes, pearl dace spawn in tributary streams or in vegetation on the periphery of lakes in early spring, about the time spring melt and ice-off occurs. Spawning in beaver ponds and small lakes is typically over soft organic substrates, while stream spawning occurs at depth of about 60 cm over a sand or gravel bottom in wide ranging currents. Males do not build nests but appear to defend territories. Investigations on diet composition suggest that pearl dace are omnivorous, consuming invertebrates, plant material and detritus.

5.2.10 Round Whitefish (*Prosopium cylindraceum*)

Round whitefish are widely distributed in lakes and ponds throughout their southern range, rivers in their northern range as well as brackish waters, from northern North America to eastern Asia. Its range encompasses northern New Brunswick, Labrador, and Ungava west through Quebec, Ontario, and north westward from northern Manitoba through the Northwest Territories and northern British Columbia. Round whitefish have been reported in Labrador in the Churchill River system residing in cool ponds, streams and rivers. However, they are considered rare in the Churchill River system.

Round whitefish are fall spawners (October to December). Spawning can take place in the inshore areas of lakes, at river mouths, or occasionally in rivers. In a Yukon Territory stream, spawning occurred over a variety of substrates ranging from mud to gravel and boulders, with a preference for gravel substrates. In contrast to the lake whitefish, spawning is conducted in pairs, not in schools. Normandeau (1969) indicated that females of the species can produce up to 20,000 eggs. The eggs remain in the spawning substrate until hatching occurs the following April.

Upon hatching the young remain on the bottom and disperse from the spawning area within 2 to 3 weeks. In Alaska, young seek cobble or boulders, debris and overhanging vegetation at water depths ranging from 5 to 30 cm (optimal 5 to 15 cm) in relatively calm areas. Gillnet catches of mature specimens in the Churchill River system in Labrador were higher in fast-flowing sections than in steadies or backwaters. These distributions possibly indicate that juveniles prefer slow steadies and backwater habitat until they reach maturity, after which they prefer faster flowing sections of the main channel. Round whitefish tend to move into deeper and faster water as they grow. Optimal water velocity for adults was 0.6 to 0.9 m/s, with them utilizing the following cover types in order of most to least preferred: cobble and boulder, undercut banks, overhanging vegetation, debris/deadfall, submergent and emergent vegetation, rubble and large boulders.

Round whitefish are benthic, and their diet consists mainly of benthic invertebrate larvae, insects and molluscs. The species has been noted to live up to 14 years. The growth rates for round whitefish in the Churchill River are at an intermediate level when compared to results from other regions of North America.

5.2.11 Mottled Sculpin (*Cottus bairdi*)

In eastern Canada, the mottled sculpin is confined to northern areas, occurring throughout the Churchill and Atikonak river systems of Labrador, north through Ungava Bay, Quebec. DFO surveys have identified sculpin from stomach contents of several species of fish (burbot, brook trout, lake whitefish, northern pike, lake trout) taken in the Churchill River main stem.

Mottled sculpin occur in cool, headwaters and, although typically a stream-dwelling species, they also inhabit large lakes. Mottled sculpin are intolerant of high water temperatures and tend to occur in the coldest streams during the summer, usually with water temperatures between 11 and 16°C. Spawning typically takes place in the spring, around April or mid-May, in the littoral zone (less than 1 m) of lakes under rocks and logs. Nesting is peculiar, with females depositing adhesive eggs on the ceilings of rocks, ledges or burrowed nesting sites (usually consists of small gravel) while in an inverted position, with the male subsequently guarding and aerating the eggs.

Substrate preference tends to vary from study to study, possibly illustrating a generalist or place-dependent, habitat utilization strategy. A study in the Mad River, Ontario, documents the occurrence of YOY on a mud bottom at depths of 5 to 25 cm. Studies in eastern Ontario and Wisconsin suggest that mottled sculpin prefer sandy substrates in both lakes and streams. Mottled sculpin have also been observed foraging at night in open, sandy areas. They may also utilize substrates comprised of a mixture of cobble, rubble and sand. Additional studies found that small sculpin were largely associated with cover, being located under rocks and logs.

5.2.12 Slimy sculpin (*Cottus cognatus*)

In eastern Canada, the slimy sculpin occurs in the Churchill and Fraser River systems of Labrador through most of Quebec and Ungava Bay. The species typically inhabits deep oligotrophic lakes, swift rocky-bottomed streams, areas of groundwater upwelling and headwater pools and riffles. In eastern Canada, the slimy sculpin frequents rocky or gravel streams and lake bottoms, and have been captured at depths ranging from 0.5 to 150 m. However, the habitat utilized varies greatly depending upon on substrate and temperature. The slimy sculpin has been shown to have a very small home range, and they do not migrate great distances.

Spawning occurs in May, shortly after ice-out over sand and gravel substrate in shallow sections of streams and lakes. The male selects the spawning site, which can be found under rocks, submerged logs, tree roots, or amongst large gravel or other foreign debris and is most common at depths less than 30 cm. In rivers, juveniles and adults are generally found in areas with cobble/rubble bottoms at velocities of less than 0.3 m/s. In shallow lakes (0.5 to 1.5 m) they have been found over gravel and sand bottoms interspersed with rocks and boulders. Generally, as young slimy sculpin grow and mature, they shift from a shallow water habitat and nocturnal feeding to continuous activity in deeper water. Diet mainly consists of benthic organisms.

5.2.13 White sucker (*Catostomus commersoni*)

White suckers are restricted to North America, occurring from central Ungava, Labrador, south-western Georgia in the United States and west to Alberta, British Columbia and the Mackenzie River delta. They can be found in Nova Scotia and New Brunswick in the south, through to northern Labrador and northern Quebec, but are not found on the Island of Newfoundland. White suckers occur throughout the Churchill River system, including western Labrador.

Spawning, similar to the longnose sucker, takes place in the spring as stream temperatures rise, with females moving from the lakes into streams. Spawning generally takes place in pond/lake inlets and outlets, small creeks, and rivers with relatively swift, shallow waters running over gravel or coarse sand bottoms, but has been reported over boulder substrates as well. Demersal, adhesive eggs are scattered over a period of 10 to 14 days and adhere to the immediate, or downstream, substrate. Adults that move into tributary streams to spawn, generally return to the lake after spawning is complete. The incubation period required is variable and has been linked with temperature and geographical location.

YOY have been found over a range of substrates, including sand/gravel substrate in areas with moderate currents, shallow-pool areas having velocities less than 0.3 m/s, depths less than 0.6 m, and along channel margins where boulders, vegetation, woody debris, undercut banks were the primary cover types. YOY school during the first year; either remaining in their natal streams or migrating from them approximately one month after spawning. Juveniles (less than 150 mm in length) were reported in shallow backwaters and riffles with moderate water velocities (approximately 0.50 m/s) and a predominantly sand/rubble substrate. Adults occur mainly over gravel, sand, silt and rubble substrates and tend to be closely associated with riparian (overhanging trees, grass, shrubs, etc.) and instream cover such as submerged logs, roots, macrophytes, undercut banks and large boulders. Adults are known to increasingly seek cover as water velocities increase.

The diet of the white sucker consists mainly of aquatic insect larvae. While growth rates can vary widely, the growth rate for the Churchill River lies near the middle of the range described for the species as a whole. Growth may cease when sexual maturity is reached, which requires five to six years in the Churchill River system, with white suckers able to live up to 17 years.

5.2.14 Threespine stickleback (*Gasterosteus aculeatus*)

Threespine Stickleback are almost circumpolar in distribution (it is absent from the cold Arctic but have been observed in northern seas of Siberia and North America) and are widely distributed in the northern hemisphere. It is an euryhaline species and exists as both freshwater resident and anadromous marine-dwelling form in Newfoundland and Labrador. Its presence has been noted in Labrador in the Churchill River system.

Spawning generally occurs in the summer months, but timing can vary from April to September depending on local conditions. Freshwater resident populations spawn in both lakes and rivers, with anadromous populations spawning in brackish or fresh waters. River spawning populations undergo a spring migration from lakes or larger rivers into smaller, slower tributaries and backwaters. The males build nests over sandy/muddy substrates in areas of low flow and are usually found in the vicinity of submergent vegetation. Lake spawning populations utilize two distinct habitat types, either open-water or in association with aquatic vegetation. Anadromous populations spawning in marine or brackish water build nests in rock crevices, eelgrass beds, algal mats and sometimes over sand near vegetative cover. Nesting in the vicinity of aquatic vegetation or rock/boulder cover, whether in rivers, lakes or brackish water, is thought to increase the structural complexity of the habitat and reduce the risk of predation.

Males construct the nest from small twigs, algae or plant debris typically over a sandy or mud bottom. However, nests have been found on a wide variety of substrates including silt, algal tufts and rock. Females deposit adhesive eggs in clusters in the nest. The males subsequently guard and fan the nests, protecting the young for up to 2 weeks after hatching or until they are able to fend for themselves.

Outside the breeding season Threespine Stickleback return to the sea (anadromous) or into deeper waters or large rivers (freshwater resident) in the fall. Threespine Stickleback typically inhabit vegetated areas, usually over mud or sand. Threespine Sticklebacks have been observed at a variety of depths (less than 1 m up to 17 m) in lakes along the Avalon Peninsula, Newfoundland and have been shown to feed mainly on pelagic zooplankton and benthic organisms. Newfoundland populations normally mature in their second or third year and generally have a life expectancy of 2.5 years or less.

5.2.15 Ouananiche/Atlantic salmon (*Salmo salar*)

Throughout Newfoundland and Labrador, Atlantic salmon occur in both anadromous and landlocked populations. Anadromous salmon have been captured at sea up to the northern tip of Labrador. Landlocked salmon, commonly called ouananiche, are the dominant species in some provincial lakes where they may exist as either normal or dwarf forms. Ouananiche are the predominant form of the species which occupies the Churchill River watershed including those waterbodies in the Labrador West area.

Ouananiche spawning typically occurs between late September and early November, depending on water temperature, with females ascending tributaries to prepare redds (nests). In Newfoundland, lake spawning has been reported to occur over a gravel substrate at water depths of 0.5 to 1.3 m. Lake spawning has also been observed along shorelines as well as near areas of moving water, usually above outlet streams and near the mouths of inlet streams. Milt and eggs (1,500 eggs per kg of female) are deposited in the redd and the female then covers the eggs, which range in size from 5 to 7 mm, with a layer of gravel. When spawning is complete, the adults return to the lake. Incubation lasts for about 110 days (depending on temperature), with hatching generally occurring in April. The larvae, or sac fry, remain in the redds until the yolk sac is absorbed, after which they emerge in May or June.

For the next 2 or 3 years, the parr remain in stream habitat, preferring rapid water. They then move to a lacustrine habitat and continue to grow rapidly. Researchers have found that juveniles utilized the littoral zone throughout the entire ice-free season with smaller individuals occupying areas closer to the bottom than larger ones. Ouananiche mature at 2 to 3 years of age and may live for up to 10 years in Newfoundland. Adults are generally pelagic and feed heavily on pelagic and surface organisms during June and July, but as water temperatures increase during the summer, they move to deeper, cooler water and appear to feed more on benthic organisms. It has been shown that ouananiche will overwinter in deep warmer waters of reservoir systems as well as fast to flowing ice free waters of inlets, outlets and canals.

5.3 Riverine Habitat Surveys

Numerous watercourses were surveyed during 2011, with additional sites selected for survey in 2012 and 2024. No stream habitat surveys were completed in 2023. Provided below is a summary of the habitat classifications in each watercourse surveyed. Detailed riverine habitat survey data is presented in Appendix A.

5.3.1 2011 Riverine Habitat Surveys

Numerous watercourses were surveyed in 2011, including several in the Rose Pit Area, downstream of Rose Pit and within the Tailings Disposal Area. Throughout all the watercourses, pools were the most dominant habitat type observed, followed by runs, riffles and steady. Rapids were the least dominant habitat type observed, accounting for only 10 reaches.

5.3.1.1 Rose Pit Streams

Stream RP01-PLS is the lower portion of the Rose Pit drainage and consists of stream habitat between Pond RP01 and Pike Lake South (PLS). It is approximately 450 m long and contains 53.65 units of riverine fish habitat. Channel widths range from 2 m to 35 m and water depths between 0.18 m to 0.95 m. Water velocities during surveys ranged between 0 m/s to 0.29 m/s. Table 5-2 presents a summary of habitat characteristics present within Steam RP01-PLS.

Table 5-2: Summary of 2011 Habitat Surveys Completed in Stream RP01-PLS

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	-	-	-	-	0	30	15	10	0	0	45	0	Pool
2	25	-	-	-	-	0	30	15	10	0	0	45	0	Pool
3	25	2.4	0.34	0.29	-	0	30	15	10	0	0	45	0	Pool
4	25	4.1	0.18	0.26	-	0	30	50	20	0	0	0	0	Rapids
5	25	2.5	0.25	0.28	-	0	30	50	20	0	0	0	0	Rapids
6	25	-	-	-	-	0	0	15	15	10	0	60	0	Pool
7	25	-	0.80	0.00	-	0	0	15	15	10	0	60	0	Pool
8	25	-	-	-	-	0	0	0	0	0	0	100	0	Pool
9	25	-	0.90	0.01	-	0	0	0	0	0	0	100	0	Pool
10	25	-	-	-	-	0	0	0	0	0	0	100	0	Pool
11	25	-	0.95	0.00	-	0	0	0	0	0	0	100	0	Pool
12	25	-	-	-	-	0	0	0	0	0	0	100	0	Pool
13	25	-	0.85	0.09	-	0	0	0	0	0	0	100	0	Pool
14	25	-	-	-	-	0	30	10	0	0	0	60	0	Pool
15	25	-	0.80	0.03	-	0	30	10	0	0	0	60	0	Pool
16	25	-	-	-	-	0	30	10	0	0	0	60	0	Pool
17	25	-	0.65	0.03	-	0	30	10	0	0	0	60	0	Pool
18	25	-	-	-	-	0	30	10	0	0	0	60	0	Pool
19	25	4.2	0.77	0.05	-	0	30	10	0	0	0	60	0	Pool

Source: Stantec (2012)

- Indicates no data was available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream RP02-RP01 is located between Pond RP02 and RP01 and is approximately 300 m in length and contains 7.33 units of fish habitat. Stream section RP02-RP01 drains from Pond RP02 in a general northeast direction into Pond RP01. There are four ponds located upstream of this section of stream (RP02, RP03, RP04 and RP05) and their associated interconnecting stream sections. Channel widths ranged from 0.8m to 4.9 m and depths ranged from 0.02m to 0.74 m. Mean water velocities were low and ranged from 0.00 m/s to 0.14 m/s. Table 5-3 presents a summary of habitat characteristics as well as the habitat classification present within Stream RP02-RP01.

Table 5-3: Summary of 2011 Habitat Surveys Completed in Stream RP02-RP01

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	4.9	-	0.44	-	0	0	0	0	0	0	100	0	Pool
2	25	3.2	0.80	0.67	-	0	0	0	0	0	0	100	0	Pool
3	25	3.6	0.90	0.74	-	0	0	0	0	0	0	100	0	Pool
4	25	2.7	0.68	0.49	-	0	0	15	15	0	0	70	0	Pool
5	25	2.0	0.50	0.19	-	0	0	15	15	0	0	70	0	Steady
6	25	1.4	0.35	0.25	-	0	15	15	0	0	0	70	0	Pool
7	25	1.9	0.48	0.53	-	0	15	15	0	0	0	70	0	Pool
8	25	3.7	0.93	0.27	-	0	0	5	20	0	0	75	0	Pool
9	25	2.1	0.53	0.27	-	0	0	5	20	0	0	75	0	Pool
10	25	2.0	0.50	0.27	-	0	0	30	20	0	0	50	0	Pool
11	25	1.0	0.25	0.02	-	0	0	30	20	0	0	50	0	Steady
12	25	0.8	0.20	0.02	-	0	5	5	0	0	0	90	0	Steady
13	25	1.5	0.38	0.02	-	0	5	5	0	0	0	90	0	Steady

Source: Stantec (2012)

- Indicates no data was available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream section RP03-RP02 is located between Pond RP03 and RP02 and is approximately 300 m in length and contains 5.60 units of fish habitat. Stream RP03-RP02 drains from Pond RP03 in a general northeast direction into Pond RP02. Pond RP03 is a headwater pond for the southern portion of the watershed and contains no inflow. Channel widths ranged from 0.8 m to 3.9 m and depths ranged from 0.04 m to 0.58 m. Mean water velocities were low and ranged from 0.00 m/s to 0.24 m/s. Table 5-4 presents a summary of habitat characteristics present within Stream RP03-RP02.

Table 5-4: Summary of 2011 Habitat Surveys Completed in Stream RP03-RP02

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	-	-	-	-	0	0	0	0	0	0	100	0	Steady
2	25	3.9	0.98	0.46	-	0	0	0	0	0	0	100	0	Pool
3	25	1.1	0.28	0.23	-	0	0	0	0	0	0	100	0	Pool
4	25	0.9	0.23	0.10	-	0	0	20	30	40	0	10	0	Riffle
5	25	2.6	0.65	0.18	-	0	0	20	30	40	0	10	0	Riffle
6	25	1.1	0.28	0.07	-	0	0	10	50	20	0	20	0	Riffle
7	25	1.8	0.45	0.10	-	0	0	10	50	20	0	20	0	Riffle
8	25	0.9	0.23	0.17	-	0	40	30	0	10	20	0	0	Run
9	25	0.8	0.20	0.07	-	0	40	30	0	10	20	0	0	Run
10	25	1.9	0.48	0.19	-	0	10	10	0	0	0	80	0	Steady
11	25	2.0	0.50	0.13	-	0	10	10	0	0	0	80	0	Steady
12	25	-	-	-	-	0	10	10	0	0	0	80	0	Steady
13	25	3.4	0.85	0.44	-	0	10	10	0	0	0	80	0	Pool

Source: Stantec (2012)

- Indicates no data was available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream section RP05-RP04 is located between Pond RP05 and RP04 and is approximately 100 m in length and contains 1.83 units of fish habitat. Stream RP05-RP04 drains from Pond RP05 in a westerly direction into Pond RP04. Pond RP05 is a headwater pond for the eastern portion of the watershed and based upon mapping contains a small inflow from the north (TRIB1). Field surveys indicated that TRIB 1 is only comprised pockets of standing water with no interconnecting flow. Channel widths in stream RP05-RP04 ranged from 1.4 m to 2.6 m and mean depths ranged from 0.09 m to 0.52 m. Mean water velocities were low and ranged from 0.01 m/s to 0.08 m/s. Table 5-5 presents a summary of habitat characteristics for each reach surveyed.

Table 5-5: Summary of 2011 Habitat Surveys Completed in Stream RP05-RP04

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	2.6	-	0.52	-	0	0	0	0	0	0	100	0	Pool
2	25	1.4	0.35	0.25	-	0	0	0	0	0	0	100	0	Steady
3	25	2.1	0.53	0.09	-	0	0	0	0	0	0	100	0	Pool
4	25	1.9	0.48	0.11	-	0	20	25	50	0	0	5	0	Run
5	25	1.9	0.48	0.13	-	0	20	25	50	0	0	5	0	Run

Source: Stantec (2012)

- Indicates no data was available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream section RP04-RP02 is located between Pond RP04 and RP02 and is approximately 550 m in length and contains 8.44 units of fish habitat. Stream RP04-RP02 drains from Pond RP04 in a westerly direction into Pond RP02. There is a single stream section (RP05-RP04) and a single pond (RP05) located upstream of RP04. Channel widths ranged from 0.4 m to 4.9 m and depths ranged from 0.09m to 0.42 m. Mean water velocities were low and ranged from 0.00 m/s to 0.35 m/s. Table 5-6 presents a summary of the habitat surveyed within Stream RP04-RP02.

Table 5-6: Summary of 2011 Habitat Surveys Completed in Stream RP04-RP02

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	1.1	-	0.13	-	0	0	0	0	15	50	35	0	Pool
2	25	0.9	0.23	0.20	-	0	0	0	0	15	50	35	0	Steady
3	25	0.7	0.18	0.28	-	0	0	0	0	15	50	35	0	Steady
4	25	1.1	0.28	0.13	-	0	0	10	10	0	80	0	0	Pool
5	25	0.5	0.13	0.09	-	0	0	10	10	0	80	0	0	Steady
6	25	1.4	0.35	0.19	-	0	0	40	45	15	0	0	0	Run
7	25	0.8	0.20	0.08	-	0	0	40	45	15	0	0	0	Run
8	25	0.9	0.23	0.31	-	0	0	20	40	20	20	0	0	Riffle
9	25	0.5	0.13	0.17	-	0	0	20	40	20	20	0	0	Riffle
10	25	1.4	0.35	0.21	-	0	0	40	30	20	0	10	0	Riffle
11	25	0.8	0.20	0.25	-	0	0	40	30	20	0	10	0	Riffle
12	25	1.1	0.28	0.23	-	0	0	30	35	20	15	0	0	Riffle
13	25	2.0	0.50	0.22	-	0	0	30	35	20	15	0	0	Riffle
14	25	1.1	0.28	0.15	-	0	0	25	55	10	10	0	0	Riffle
15	25	1.3	0.33	0.09	-	0	0	25	55	10	10	0	0	Riffle
16	25	0.4	0.10	0.14	-	0	0	40	60	0	0	0	0	Riffle

Table 5-6: Summary of 2011 Habitat Surveys Completed in Stream RP04-RP02

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
17	25	1.4	0.35	0.20	-	0	0	40	60	0	0	0	0	Steady
18	25	0.9	0.23	0.19	-	-	-	-	-	-	-	-	0	Steady
19	25	-	-	-	-	-	-	-	-	-	-	-	0	-
20	25	4.9	1.23	0.42	-	0	0	0	0	0	0	100	0	Pool
21	25	2.0	0.49	0.12	-	0	0	0	0	0	0	100	0	Steady
22	25	4.2	1.05	0.39	-	0	0	0	0	0	0	100	0	Pool
23	25	2.5	0.63	0.42	-	0	0	0	0	0	0	100	0	Pool

Source: Stantec (2012)

- Indicates no data available

1 Slope was not measured in the field in 2011

2 Habitat type determined in the field

Stream RSD is located upstream of the proposed Kami Project (Pit and Mine Rock Stockpile). It is approximately 1,000 m in length and contains 9.6 habitat units. Wetted widths ranged from 0.3 m to 2.1 m (Table 5-7). Means depths within each reach ranged from 0.06 to 0.81 m, with velocities ranging from 0.00 to 0.56 m/s. Table 5-7 presents a summary of the habitat surveys in Stream RSD.

Table 5-7: Summary of 2011 Habitat Surveys Completed in Stream RSD

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	1.8	-	0.81	-	0	0	0	0	0	10	90	0	Pool
2	25	1.5	0.38	0.38	-	0	0	0	0	0	10	90	0	Pool
3	25	1.0	0.25	0.36	-	0	0	0	0	0	10	90	0	Pool
4	25	1.4	0.35	0.24	-	0	0	0	0	0	0	100	0	Pool
5	25	1.2	0.30	0.23	-	0	0	0	0	0	0	100	0	Pool
6	25	1.1	0.28	0.20	-	0	0	0	0	0	0	100	0	Pool
7	25	1.3	0.33	0.16	-	0	0	0	0	0	0	100	0	Steady
8	25	1.4	0.35	0.32	-	0	20	20	0	30	30	0	0	Riffle
9	25	1.2	0.30	0.16	-	0	20	20	0	30	30	0	0	Riffle
10	25	1.0	0.25	0.31	-	0	30	0	0	0	40	30	0	Pool
11	25	0.7	0.18	0.23	-	0	30	0	0	0	40	30	0	Pool
12	25	1.0	0.25	0.24	-	0	30	0	0	0	50	20	0	Pool
13	25	0.3	0.08	0.26	-	0	30	0	0	0	50	20	0	Pool
14	25	1.1	0.28	0.27	-	0	40	30	0	0	30	0	0	Run
15	25	0.8	0.20	0.06	-	0	40	30	0	0	30	0	0	Rapids
16	25	0.9	0.23	0.35	-	0	30	40	10	0	20	0	0	Run

Table 5-7: Summary of 2011 Habitat Surveys Completed in Stream RSD

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
17	25	1.1	0.28	0.09	-	0	30	40	10	0	20	0	0	Riffle
18	25	1.0	0.25	0.25	-	0	0	40	30	0	30	0	0	Pool
19	25	-	-	-	-	0	0	40	30	0	30	0	0	Riffle
20	25	-	-	-	-	0	0	30	0	0	30	40	0	Steady
21	25	0.8	0.20	0.18	-	0	0	30	0	0	30	40	0	Steady
22	25	0.6	0.15	0.43	-	0	0	20	20	0	60	0	0	Pool
23	25	1.2	0.30	0.31	-	0	0	20	20	0	60	0	0	Pool
24	25	1.3	0.33	0.17	-	0	20	30	30	0	20	0	0	Run
25	25	1.5	0.38	0.23	-	0	20	30	30	0	20	0	0	Run
26	25	2.1	0.53	0.13	-	0	0	10	30	0	60	0	0	Steady
27	25	0.6	0.15	0.67	-	0	0	10	30	0	60	0	0	Pool
28	25	1.5	0.38	0.13	-	0	0	20	20	20	40	0	0	Pool
29	25	1.9	0.48	0.11	-	0	0	20	20	20	40	0	0	Pool
30	25	0.8	0.20	0.13	-	0	0	15	40	30	15	0	0	Riffle
31	25	1.7	0.43	0.20	-	0	0	15	40	30	15	0	0	Riffle
32	25	0.7	0.18	0.12	-	0	5	15	30	30	20	0	0	Riffle
33	25	0.7	0.18	0.27	-	0	5	15	30	30	20	0	0	Riffle
34	25	0.6	0.15	0.09	-	0	0	20	40	40	0	0	0	Riffle
35	25	1.2	0.30	0.16	-	0	0	20	40	40	0	0	0	Riffle
36	25	1.5	0.38	0.15	-	0	0	60	20	0	10	10	0	Run
37	25	-	-	-	-	0	0	60	20	0	10	10	0	Run
38	25	-	-	-	-	0	0	20	30	0	20	30	0	Steady
39	25	1.0	0.25	0.09	-	0	0	20	30	0	20	30	0	Steady
40	25	0.5	0.13	0.11	-	0	0	40	50	0	10	0	0	Run
41	25	-	-	-	-	0	0	40	50	0	10	0	0	Run
42	-	1.8	-	0.81	-	0	0	0	0	0	10	90	0	Pool
43	25	1.5	0.38	0.38	-	0	0	0	0	0	10	90	0	Pool
44	25	1.0	0.25	0.36	-	0	0	0	0	0	10	90	0	Pool
45	25	1.4	0.35	0.24	-	0	0	0	0	0	0	100	0	Pool
46	25	1.2	0.30	0.23	-	0	0	0	0	0	0	100	0	Pool
47	25	1.1	0.28	0.20	-	0	0	0	0	0	0	100	0	Pool
48	25	1.3	0.33	0.16	-	0	0	0	0	0	0	100	0	Steady
49	25	1.4	0.35	0.32	-	0	20	20	0	30	30	0	0	Riffle
50	25	1.2	0.30	0.16	-	0	20	20	0	30	30	0	0	Riffle
51	25	1.0	0.25	0.31	-	0	30	0	0	0	40	30	0	Pool
52	25	0.7	0.18	0.23	-	0	30	0	0	0	40	30	0	Pool
53	25	1.0	0.25	0.24	-	0	30	0	0	0	50	20	0	Pool
54	25	0.3	0.08	0.26	-	0	30	0	0	0	50	20	0	Pool
55	25	1.1	0.28	0.27	-	0	40	30	0	0	30	0	0	Run

Table 5-7: Summary of 2011 Habitat Surveys Completed in Stream RSD

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
56	25	0.8	0.20	0.06	-	0	40	30	0	0	30	0	0	Rapids
57	25	0.9	0.23	0.35	-	0	30	40	10	0	20	0	0	Run
58	25	1.1	0.28	0.09	-	0	30	40	10	0	20	0	0	Riffle
59	25	1.0	0.25	0.25	-	0	0	40	30	0	30	0	0	Pool
60	25	-	-	-	-	0	0	40	30	0	30	0	0	Riffle

Source: Stantec (2012)

- Indicates data is unavailable

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

5.3.1.2 Stream Downstream of the Rose Pit

Stream section PLS-S1 runs northerly between Pike Lake North and Pike Lake South. It is approximately 100 m in length and has 7.45 units of riverine habitat. Channel widths ranged from 3.1 m to 11.8 m and mean depths at measured transects ranged from 0.13 m to 0.63 m. Mean water velocities ranged from 0.12 m/s to 0.32 m/s. Table 5-8 presents a summary of the habitat surveys in Stream PLS-S1.

Table 5-8: Summary of 2011 Habitat Surveys Completed in Stream PLS-S1

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	7.4	0.13	0.12	-	0	10	40	40	0	10	0	0	Run
2	50	3.1	0.19	0.32	-	0	10	40	40	0	10	0	0	Run
3	50	11.8	0.63	0.03	-	0	20	30	0	0	0	50	0	Pool

Source: Stantec (2012)

- Indicates data is not available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream section PLS-S2 runs northerly between Pike Lake North and Pike Lake South. It is approximately 420 m in length and has 17.57 units of riverine habitat. Channel widths ranged from 2.7 m to 6.7 m and mean depths measured at transects ranged from 0.18 m to 0.45 m. Mean water velocities ranged from 0.0 m/s to 0.32 m/s. Table 5-9 presents a summary of the habitat within Stream PLS-S2.

Table 5-9: Summary of 2011 Habitat Surveys Completed in Stream PLS-S2

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	4.1	0.20	0.19	-	0	40	30	30	0	0	0	0	Run
2	50	3.5	0.31	0.26	-	0	40	30	30	0	0	0	0	Run
3	50	4.6	0.23	0.32	-	0	60	40	0	0	0	0	0	Rapids
4	50	5.0	0.28	0.17	-	0	45	45	0	5	5	0	0	Rapids
5	50	6.7	0.33	0.13	-	0	50	25	25	0	0	0	0	Run
6	90	3.2	0.27	0.00	-	-	-	-	-	-	-	-	0	Pool
7	50	4.0	0.51	0.03	-	0	80	20	0	0	0	0	0	Run
8	50	2.7	0.18	0.05	-	0	80	20	0	0	0	0	0	Run
9	30	4.8	0.45	0.00	-	0	50	20	0	0	0	30	0	Run

Source: Stantec (2012)

- Indicates data is not available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream PLN-S1 is the main outflow of Pike Lake North. It flows north and empties into the Walsh River. It is approximately 425 m in length and has 22.68 units of riverine habitat. Channel widths ranged from 3.1 m to 11.8 m and mean depths ranged from 0.18 m to 0.47 m. Mean water velocities ranged from 0.07 m/s to 0.68 m/s. Table 5-10 presents a summary of the habitat present in Stream PLN-S1.

Table 5-10: Summary of 2011 Habitat Surveys Completed in Stream PLN-S1

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	4.9	0.25	0.49	-	0	60	30	0	5	5	0	0	Run
2	50	3.1	0.18	0.68	-	0	40	30	0	20	10	0	0	Run
3	50	0.4	0.47	0.31	-	0	40	30	10	10	10	0	0	Run
4	50	11.8	0.23	0.07	-	0	30	20	0	10	15	25	0	Riffle
5	50	7.0	0.25	0.40	-	0	50	30	15	5	0	0	0	Run
6	50	6.1	0.27	0.40	-	0	70	30	0	0	0	0	0	Run
7	50	3.5	0.23	0.36	-	0	65	20	0	10	5	0	0	Run
8	50	6.9	0.19	0.31	-	0	60	30	0	5	5	0	0	Run
9	50	4.1	0.27	0.18		0	60	25	0	5	10	0	0	Run
10	25	4.5	0.23	0.25	-	0	60	25	0	5	10	0	0	Run

Source: Stantec (2012)

Indicates data is not available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream PLN-S2 runs in a northerly direction between two small waterbodies north of Pike Lake North. It is approximately 50 m in length and has 5.10 units of riverine habitat. Channel widths ranged from 6.4 m to 14 m and mean depths ranged from 0.15 m to 0.24 m. Mean water velocities ranged from 0.08 m/s to 0.27 m/s. Table 5-11 presents a summary of the habitat present in Stream PLN-S2.

Table 5-11: Summary of 2011 Habitat Surveys Completed in Stream PLN-S2

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	6.4	0.24	0.27	-	0	50	40	0	5	5	0	0	Run
2	50	14.0	0.15	0.08	-	0	50	40	0	5	5	0	0	Run

Source: Stantec (2012)

- Indicates data is not available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream PLN-S3 runs in a northerly direction and into Walsh River. It is approximately 385 m in length and has 24.65 units of riverine habitat. Channel widths ranged from 4.1 m to 14.2 m and mean depths along transects ranged from 0.21 to 0.35 m. Mean water velocities ranged from 0.02 m/s to 0.64 m/s. Table 5-12 presents a summary of the habitat in Stream PLN-S3.

Table 5-12: Summary of 2011 Habitat Surveys Completed in Stream PLN-S3

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	4.1	0.32	0.64	-	0	10	5	40	30	15	0	0	Run
2	50	5.4	0.31	0.53	-	0	10	5	40	30	15	0	0	Run
3	50	5.5	0.21	0.49	-	0	20	25	30	20	5	0	0	Riffle
4	25	6.9	0.23	0.49	-	0	15	25	25	25	10	0	0	Riffle
5	100	4.3	0.35	0.55	-	-	-	-	-	-	-	-	0	Run
6	50	7.1	0.25	0.16	-	0	60	20	0	15	5	0	0	Rapids
7	75	6.2	0.35	0.15	-	-	-	-	-	-	-	-	0	Steady
8	15	14.2	0.34	0.02	-	0	25	30	20	15	10	0	0	Pool

Source: Stantec (2012)

- Indicates data is not available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

5.3.1.3 Tailings Management Facility

Stream TDA01 is the most westerly of the stream sections within the TMF. It flows in a north-northwest direction into Long Lake. Stream TDA01 does not have a headwater pond, nor are there any ponds located along its length. It is approximately 2,800 m in length and contains 28.25 units of riverine fish habitat. Channel widths ranged from 0.5 m to 2.2 m and depths ranged from 0.10m to 0.96 m. Water velocities ranged from 0.0 m/s to 0.78 m/s. Table 5-13 presents a summary of the habitat present in Stream TDA01.

Table 5-13: Summary of 2011 Habitat Surveys Completed in Stream TDA01

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	-	0.00	0.00	-	0	20	30	0	10	10	30	0	Steady
2	150	0.6	0.66	0.47	-	0	20	30	0	10	10	30	0	Riffle
3	50	1.8	0.23	0.07	-	10	30	30	0	5	10	15	0	Rapids
4	100	1.4	0.17	0.06	-	10	35	10	0	20	25	0	0	Riffle
5	100	0.9	0.18	0.18	-	0	25	30	0	30	15	0	0	Rapids
6	150	0.5	-	-	-	0	0	0	0	0	0	100	-	Steady
7	150	0.8	0.16	0.17	-	0	0	10	15	40	30	5	0	Riffle
8	150	0.6	0.43	0.06	-	0	15	15	0	30	30	10	0	Pool
9	150	1.4	0.47	0.07	-	0	10	0	0	40	30	20	0	Pool
10	150	0.5	0.51	0.04	-	0	15	0	0	20	20	45	0	Pool
11	150	1.2	0.40	0.06	-	0	10	0	0	20	20	50	0	Pool
12	150	0.7	0.95	0.05	-	0	5	0	0	15	15	65	0	Pool
13	150	0.7	0.28	0.07	-	0	10	0	0	10	10	70	0	Pool
14	150	1.3	0.61	0.03	-	0	0	0	0	10	10	80	0	Pool
15	150	1.0	0.17	0.10	-	0	5	0	0	10	10	75	0	Steady
16	150	2.2	0.75	0.01	-	0	5	0	0	5	5	85	0	Pool
17	150	1.5	0.34	0.06	-	0	0	0	0	10	10	80	0	Pool
18	150	1.3	0.22	0.05	-	0	0	10	0	20	20	50	0	Pool
19	150	0.6	0.32	0.06	-	0	20	0	0	20	15	45	0	Pool
20	150	0.7	0.16	0.06	-	0	10	0	0	10	20	60	0	Steady
21	150	1.1	0.11	0.09	-	10	10	0	0	30	10	40	0	Steady

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

Stream TDA02 is located to the east of TDA02 and is the longest stream section within the TMF which flows in a general northwest direction into Long Lake. Stream TDA02 has a headwater pond (SW1) and has an additional pond (SW2) located a short distance downstream of SW1. It is approximately 6,800 m in length and contains 172.15 units of riverine fish habitat. Channel widths ranged from 0.7-5.5 m and mean depths measured at transects ranged from 0.01 m to 0.67 m. Mean water velocities ranged from 0.0 m/s to 0.51 m/s. Table 5-14 presents a summary of the habitat present in Stream TDA02.

Table 5-14: Summary of 2011 Habitat Surveys Completed in Stream TDA02

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	-	3.4	0.41	0.12	-	0	50	30	20	0	0	0	0	Run
2	150	3.5	0.23	0.41	-	0	60	35	5	0	0	0	0	Run
3	100	4.7	0.32	0.29	-	0	30	20	20	10	20	0	0	Riffle
4	100	3.1	0.38	0.33	-	0	25	25	20	12	18	0	0	Riffle
5	100	3.3	0.33	0.33	-	0	18	25	22	15	20	0	0	Riffle
6	100	4.1	0.45	0.24	-	0	10	30	20	20	20	0	0	Riffle
7	100	3.1	0.48	0.26	-	5	15	25	25	15	15	0	0	Riffle
8	150	3.7	0.24	0.51	-	0	25	25	20	20	10	0	0	Run
9	150	3.9	0.40	0.29	-	10	50	35	0	0	5	0	0	Run
10	150	4.7	0.17	0.38	-	0	30	30	20	10	10	0	0	Riffle
11	150	3.2	0.27	0.37	-	0	40	30	0	15	15	0	0	Riffle
12	150	4.2	0.67	0.15	-	0	30	30	20	15	5	0	0	Run
13	150	1.6	0.65	0.26	-	0	60	20	0	0	15	5	0	Run
14	150	3.5	0.36	0.18	-	0	60	20	0	10	10	0	0	Run
15	150	3.2	0.24	0.35	-	0	30	20	25	20	5	0	0	Rapids
16	150	5.5	0.14	0.49	-	0	40	30	10	20	0	0	0	Rapids
17	150	3.8	0.38	0.12	-	0	20	20	35	15	10	0	0	Riffle
18	150	4.7	0.46	0.09	-	0	0	0	5	60	35	0	0	Riffle
19	150	3.4	0.43	0.09	-	0	10	0	0	50	40	0	0	Riffle
20	150	3.2	0.44	0.09	-	0	20	30	0	10	10	30	0	Riffle
21	150	3.4	0.41	0.12	-	0	0	0	0	50	50	0	0	Pool
22	100	2.9	0.25	0.04	-	0	30	23	22	25	0	0	0	Run
23	100	2.7	0.16	0.08	-	0	30	30	22	18	0	0	0	Run
24	100	-	-	-	-	0	15	15	25	40	5	0	0	Run
25	150	2.0	0.07	0.12	-	0	0	0	30	60	10	0	0	Riffle
26	150	2.1	0.29	0.02	-	0	20	20	20	20	20	0	0	Riffle
27	150	1.5	0.09	0.06	-	0	10	30	20	20	20	0	0	Riffle
28	150	1.7	0.21	0.03	-	0	0	0	20	30	40	10	0	Steady
29	150	1.4	0.28	0.05	-	0	0	0	0	0	40	60	0	Steady
30	150	1.2	0.19	0.04	-	0	5	0	0	0	50	45	0	Pool
31	150	0.7	0.42	0.03	-	0	0	20	20	20	30	10	0	Steady
32	150	1.6	0.19	0.03	-	0	20	15	15	20	30	0	0	Riffle
33	150	2.4	0.01	0.00	-	0	5	0	0	15	40	40	0	Steady
34	150	0.9	0.20	0.07	-	0	0	0	0	30	40	30	0	Steady
35	150	2.2	0.55	0.01	-	0	0	0	0	30	40	30	0	Pool
36	150	1.9	0.15	0.06	-	0	0	0	0	30	40	30	0	Steady
37	150	1.2	0.07	0.12	-	0	30	0	0	30	40	0	0	Riffle
38	150	1.6	0.17	0.01	-	0	30	20	30	20	0	0	0	Run
39	150	2.1	0.16	0.03	-	0	30	30	30	10	0	0	0	Run

Table 5-14: Summary of 2011 Habitat Surveys Completed in Stream TDA02

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[1]	Substrate (%Coverage)								Habitat Type[2]
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
40	150	1.5	0.09	0.05	-	0	20	20	10	10	20	20	0	Riffle
41	150	1.7	0.17	0.02	-	0	20	30	30	20	0	0	0	Steady
42	150	1.5	0.15	0.05	-	0	5	30	0	15	50	0	0	Steady
43	150	1.1	0.16	0.05	-	0	20	20	0	40	0	20	0	Steady
44	150	1.8	0.08	0.05	-	0	0	20	20	40	20	0	0	Riffle
45	150	1.7	0.17	0.05	-	0	0	50	30	20	0	0	0	Run
46	150	1.5	0.18	0.07	-	0	0	30	30	40	0	0	0	Run
47	150	1.3	0.20	0.05	-	0	50	30	10	5	5	0	0	Run
48	150	1.5	0.18	0.08	-	0	0	0	0	0	0	100	0	Pool

Source: Stantec (2012)

- Indicates data is not available

[1] Slope was not measured in the field in 2011

[2] Habitat type determined in the field

5.3.2 2012 Riverine Habitat Surveys

Additional riverine habitat surveys were completed in 2012, focused primarily on four small streams, AD01 through AD04, located within the Mine Rock Stockpile (AMEC 2012). Stream AD01 drains from the northernmost portion of the Mine Rock Stockpile and empties into the outflow of Mills Lake. Streams AD02, AD03 and AD04 drain the remainder of the Mine Rock Stockpile to the east, into the Waldorf River. The majority of the habitat surveyed were pools (13 reaches), dominated by sand, fine material and aquatic vegetation (Table 5-15 through Table 5-18). Steady (six reaches) and run (five reaches) habitat were the only other habitat types surveyed, and were only found in AD02 and AD04. Detailed descriptions of each stream surveyed are presented in AMEC's baseline report (AMEC 2012).

Table 5-15: Summary of habitat surveys completed in stream AD01, 2012.

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)	Substrate (%Coverage)								Habitat Type
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	100	0.8	0.21	0.33	0.08	0	0	0	0	0	0	20	80	Pool
2	100	0.7	0.38	0.11	0.80	0	0	0	0	0	0	20	80	Pool
3	100	1.2	0.25	0.09	0.55	0	0	0	0	0	0	20	80	Pool
4	100	0.3	0.33	0.00	1.60	0	0	0	0	0	0	20	80	Pool
5	100	0.5	0.21	0.00	0.85	0	0	0	0	0	0	5	95	Pool

Source: AMEC (2012)

Table 5-16: Summary of habitat surveys completed in stream AD02, 2012

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)	Substrate (%Coverage)								Habitat Type
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	100	0.3	0.04	0.27	0.00	0	0	0	10	40	30	20	0	Pool
2	100	0.4	0.04	0.03	1.21	0	0	0	10	30	50	10	0	Steady
3	100	0.4	0.04	0.00	6.34	0	0	0	5	20	35	40	0	Run
4	100	0.2	0.06	0.00	4.79	0	0	0	0	0	60	40	0	Run
5	100	0.4	0.03	-	7.66	0	0	0	5	10	60	25	0	Run
6	100	0.6	0.08	0.00	1.17	0	0	0	0	5	25	70	0	Steady
7	100	0.8	0.03	0.04	2.22	0	0	0	10	10	40	40	0	Steady
8	100	0.9	0.04	0.00	1.33	0	0	0	10	25	30	35	0	Steady
9	44	0.4	0.10	0.00	3.17	0	0	0	0	5	30	65	0	Steady

Source: AMEC (2012)

Table 5-17: Summary of habitat surveys completed in stream AD03, 2012

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)	Substrate (%Coverage)								Habitat Type
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	100	0.5	0.11	0.19	0.0	0	0	0	0	2	20	75	0	Pool
2	100	0.4	0.14	0.04	0.0	0	0	0	0	0	40	60	0	Pool
3	120	0.7	0.09	0.05	0.0	0	0	0	0	0	50	50	0	Pool

Source: AMEC (2012)

Table 5-18: Summary of habitat surveys completed in stream AD04, 2012

Reach	Length (m)	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)	Substrate (%Coverage)								Habitat Type
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
1	100	0.2	0.10	0.01	0.30	0	0	0	0	0	30	70	0	Pool
2	100	0.9	0.02	0.15	2.42	0	0	2	8	30	60	0	0	Steady
3	43	0.9	0.09	0.08	16.76	0	0	2	8	30	60	0	0	Run
4	100	0.7	0.05	0.08	0.00	0	0	0	0	0	60	40	0	Pool
5	100	0.7	0.05	0.00	0.26	0	0	10	0	0	60	30	0	Pool
6	100	0.6	0.03	0.43	1.38	0	0	0	25	10	40	25	0	Pool
7	100	0.4	0.05	0.00	6.13	0	0	15	20	10	40	15	0	Run
8	120	0.2	0.04	0.00	1.40	0	0	0	0	0	40	60	0	Pool

Source: AMEC (2012)

5.3.3 2024 Riverine Habitat Surveys – Stream Crossings

A series of potential access road and rail line crossings were identified based on engineering design, provided to WSP in 2024. In total, 17 potential crossings were identified using air photos before field deployment, 10 of which were visited during the field program for ground truthing. Five of the identified crossings were determined to be ATV trails in the field, while five were identified as watercourses (Table 5-19). In general, crossings surveyed were shallow, and relatively slow moving. All but two of the crossings were riffles, with one pool and one steady.

Table 5-19: Summary of habitats present in surveyed potential stream crossings

Crossing	Distance from Crossing (m)[1]	Wetted Width (m)	Mean Depth (m)	Mean Velocity (m/s)	Slope (%)[2]	Substrate (%Coverage)								Habitat Type
						Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Fines	Aq. Vegetation	
C-6	-28	15.8	0.42	0.10	3.3	-	-	30	-	40	30	-	-	Steady
C-6	0	16.2	0.26	0.24		-	80	20	-	-	-	-	-	Riffle
C-6	20	16.6	0.20	0.40		-	65	25	-	10	-	-	-	Riffle
C-8	0	1.6	0.05	0.02	<1.0	-	-	-	25	-	75	-	-	Pool
C-9	-30	0.5	0.06	<0.01	2.7	-	-	-	-	-	-	100	-	Riffle
C-9	0	0.4	0.06	<0.01		-	-	-	-	-	-	100	-	Riffle
C-9	30	0.4	0.07	<0.01		-	-	-	-	-	-	100	-	Riffle
C-10	-20	4.0	0.22	0.31	3.6	-	100	-	-	-	-	-	-	Riffle
C-10	0	4.0	0.13	0.26		-	100	-	-	-	-	-	-	Riffle
C-10	20	7.0	0.10	0.24		-	60	40	-	-	-	-	-	Riffle
C-14	-20	5.5	0.18	0.11	3.6	-	95	-	-	-	5	-	-	Riffle
C-14	0	6.5	0.09	0.11		-	95	-	-	-	5	-	-	Riffle
C-14	20	2.4	0.11	0.33		-	95	-	-	-	5	-	-	Riffle

[1] Distance relative to identified crossing. Negative values indicated downstream, positive indicate upstream.

[2] Slope estimated from Google Earth over the entire reach.

A total of seven crossings were identified before field deployments, which were not accessible to the field crew at the time of surveys. Crossings C-11 through C-13 required helicopter access, while crossings C-1, C-2, C-16 and C-17 were all located on private property, owned by Tacora Minerals (Table 5-20). Pool was the dominant habitat characterized with air photos, with steady and rapids being less common. All but two crossings were estimated to be dominated by fine substrate.

Table 5-20: Summary of habitat characterization completed for inaccessible crossing locations

Crossing	Wetted Width (m)	Slope (%)	Dominant Substrate	Habitat Type	Dominant Riparian Habitat
C-1	1.0	<1.0	Fine	Pool	Wetland
C-2	0.9	<1.0	Fine	Pool	Wetland
C-11	2.2	<1.0	Fine	Pool	Conifer Tree
C-12	4.6	<1.0	Coarse	Pool	Conifer Tree
C-13	1.0	6.9	Coarse	Rapids	Conifer Tree
C-16	5.0	2.8	Fine	Steady	Shrub
C-17	21.0	1.5	Fine	Steady	Shrub

5.4 Riverine Fish Surveys

Electrofishing surveys were completed in several watercourses throughout the Project Area during 2011, 2012 and 2023. Throughout the course of the baseline studies, the intended outcomes of electrofishing surveys varied, based on requirements of the *Fisheries Act*. Species presence (i.e., index surveys) was the focus of surveys in 2011, 2023, and 2024, with population estimates (i.e., quantitative surveys) being the focus of the 2012 surveys for select areas. As a result, the electrofishing method, and data collection has varied between sampling years. Riverine fish capture data is presented in Appendix B.

5.4.1 2011 Riverine Fish Surveys

Several electrofishing stations were completed in 2011 (Stantec 2012). Brook trout were the most abundant species observed and were caught at every sampling location, except for RP1-PLS. Longnose and white suckers were much less abundant in the tributaries (Table 5-21).

The information on effort (time) or sweep-catch patterns was not made available to WSP, therefore standardization for comparison across years, or calculations of population estimates are not possible. However, these surveys still offer information on species presence in the study area.

Table 5-21: Summary of Total Catches for Each Species in 2011 Electrofishing Stations

Sample Location	Brook trout	Burbot	Lake chub	Longnose dace	Longnose sucker	Pearl dace	Sculpin	White sucker
M01-M02	2	-	-	-	-	-	-	-
M02-ML	22	-	-	4	-	-	-	-
PLN S1	1	4	36	4	-	-	3	4
PLN S2	3	1	1	3	-	-	-	-
PLN S3	13	-	-	22	-	-	3	-
PLS S1	5	6	7	7	-	1	-	1
PLS S2	9	2	1	18	-	26	14	5
RP1-PLS	-	1	12	-	-	-	1	2
RP2-RP1	3	-	7	-	-	-	4	-
RP3-RP2	7	2	5	-	-	1	1	-
RP4-RP2	10	-	-	-	-	-	-	1
RP5-RP4	2		1		-	1	-	-
RSD	16	-	-	-	-	-	-	-
SC01	2		1	2	-	-	1	-
SC03	23	1	-	-	-	-	-	-
SC04	7	-	-	-	-	-	1	-
SC05	24	-	-	-	-	-	2	-
SC06	9		1	4	-	4	1	-
SC07	36	-	-	-	-	-	-	-
SC09	3	7	25	4	2	1	5	1
SC10	1	-	-	-	-	1	-	-
TDA01	23	-	-	-	-	-	-	-
TDA02	127	-	-	-	-	2	12	-
Total	**348**	**24**	**97**	**68**	**2**	**37**	**48**	**14**

Source: Stantec (2012)

5.4.2 2012 Riverine Fish Surveys

Several quantitative electrofishing stations were completed throughout the study area in 2012, which included smaller streams in the Rose Pit, the TMF and the Mine Rock Stockpile. Throughout all the stations, brook trout were the most abundant species and were found in all areas except for RP02, WR02 and WR04 (Table 5-22). There were no fish observed in WR02 and WR04.

Table 5-22: Population and biomass estimates for quantitative electrofishing stations completed in 2012

Site	Species	Abundance			Biomass (g)		
		Total Catch	Estimate[1]	Confidence Interval [2]	Total Biomass	Estimate[3]	Confidence Interval [2]
RP01	Brook trout	3	2.5	0.8-4.2	126.2	126.2	84.3-105.2
	Lake chub	7	5.8	1.9-9.7	15.2	15.2	10.1-12.7
	Northern pike	2	0.8	0.3-1.4	169.1	169.1	112.9-140.9
RP02	Lake chub	1	1.3	0.7-1.9	9.4	12.1	12.0-12.1
	White sucker	2	2.6	1.4-3.7	65.7	84.2	83.8-84.7
TI01	Brook trout	17	9.4	8.9-10.0	371	206.6	205.7-207.5
	Sculpin	7	3.9	3.7-4.1	19	10.6	10.5-10.6
TI02	Brook trout	14	10.0	9.6-10.4	300.8	214.9	214.2-215.6
TI03	Brook trout	10	7.3	4.6-9.9	370.6	279.1	261.3-296.9
TI04	Brook trout	7	4.7	3.9-5.5	45.6	30.8	30.7-30.9
WR01	Brook trout	4	3.2	1.7-4.7	13.9	11.1	11.0-11.3
WR02	No fish were captured.						
WR03	Brook trout	35	23.6	19.7-27.5	195.3	125.0	121.0-129.0
WR04	No fish were captured.						

Source: AMEC (2012)

[1] Fish/habitat unit (100 m^2)

[2] 95% Confidence Interval

[3] Grams/habitat unit (100 m^2)

5.4.3 2023 Riverine Fish Surveys

Two index electrofishing stations were completed in Long Lake Outflow on August 4, 2023. White sucker and sculpin were the most abundant species observed within Long Lake Inflow, while brook trout and white sucker yielded the most biomass (Table 5-23).

Table 5-23: 2023 Electrofishing Catch-Per-Unit-Effort in Long Lake Inflow (Mills Lake Outflow)

Station Number	Species	Abundance		Biomass (g)	
		Total Catch	CPUE (fish/300 seconds)	Total Catch	CPUE (grams/300 seconds)
LL-01	Brook trout	3	2.24	136.1	101.57
	Lake chub	4	2.99	30.5	22.76
	Longnose dace	2	1.49	8.7	6.49
	Sculpin	10	7.46	25.6	19.10
	White sucker	4	2.99	80.9	60.37

Table 5-23: 2023 Electrofishing Catch-Per-Unit-Effort in Long Lake Inflow (Mills Lake Outflow)

Station Number	Species	Abundance		Biomass (g)	
		Total Catch	CPUE (fish/300 seconds)	Total Catch	CPUE (grams/300 seconds)
LL-02	Brook trout	3	2.12	111.1	78.61
	Burbot	3	2.12	70.8	50.09
	Lake chub	6	4.25	32.5	23.00
	Longnose dace	10	7.08	36	25.47
	Longnose sucker	7	4.95	40.4	28.58
	Sculpin	10	7.08	26.3	18.61
	White sucker	19	13.44	89.4	63.25

CPUE = catch per unit effort

5.4.4 2024 Stream Crossing Fish Surveys

Index electrofishing was completed at three crossings (C6, C10 and C14), during 2024. Crossings were selected for electrofishing based on habitat present and accessibility. A total of six species were identified at the various crossings: brook trout, burbot, lake chub, longnose sucker, pearl dace and sculpin (Table 5-24).

Table 5-24: Electrofishing Catch-Per-Unit-Effort for select crossings surveyed in 2024

Station Number	Species	Abundance		Biomass (g)	
		Total Catch	CPUE (fish/300 seconds)	Total Catch	CPUE (grams/300 seconds)
C-6	Brook trout	1	0.75	3.3	2.48
	Lake chub	1	0.75	6.1	4.76
	Longnose sucker	1	0.75	5.8	4.35
	Sculpin	6	4.50	13.1	9.83
C-10	Longnose sucker	1	0.75	2.4	1.80
	Pearl dace	1	0.75	1.9	1.43
C-14	Brook trout	3	1.94	25.4	16.42
	Burbot	1	0.65	17.1	11.06
	Lake chub	1	0.65	2.0	1.29

5.5 Lacustrine Habitat Surveys

Lacustrine habitat surveys were conducted in numerous waterbodies throughout the study area since 2011, including several small ponds in the Rose Pit, the TMF and numerous larger lakes located downstream of the proposed Kami Project. Below is a summary of the lake habitat surveys completed to date.

5.5.1 2011 Lacustrine Habitat Surveys

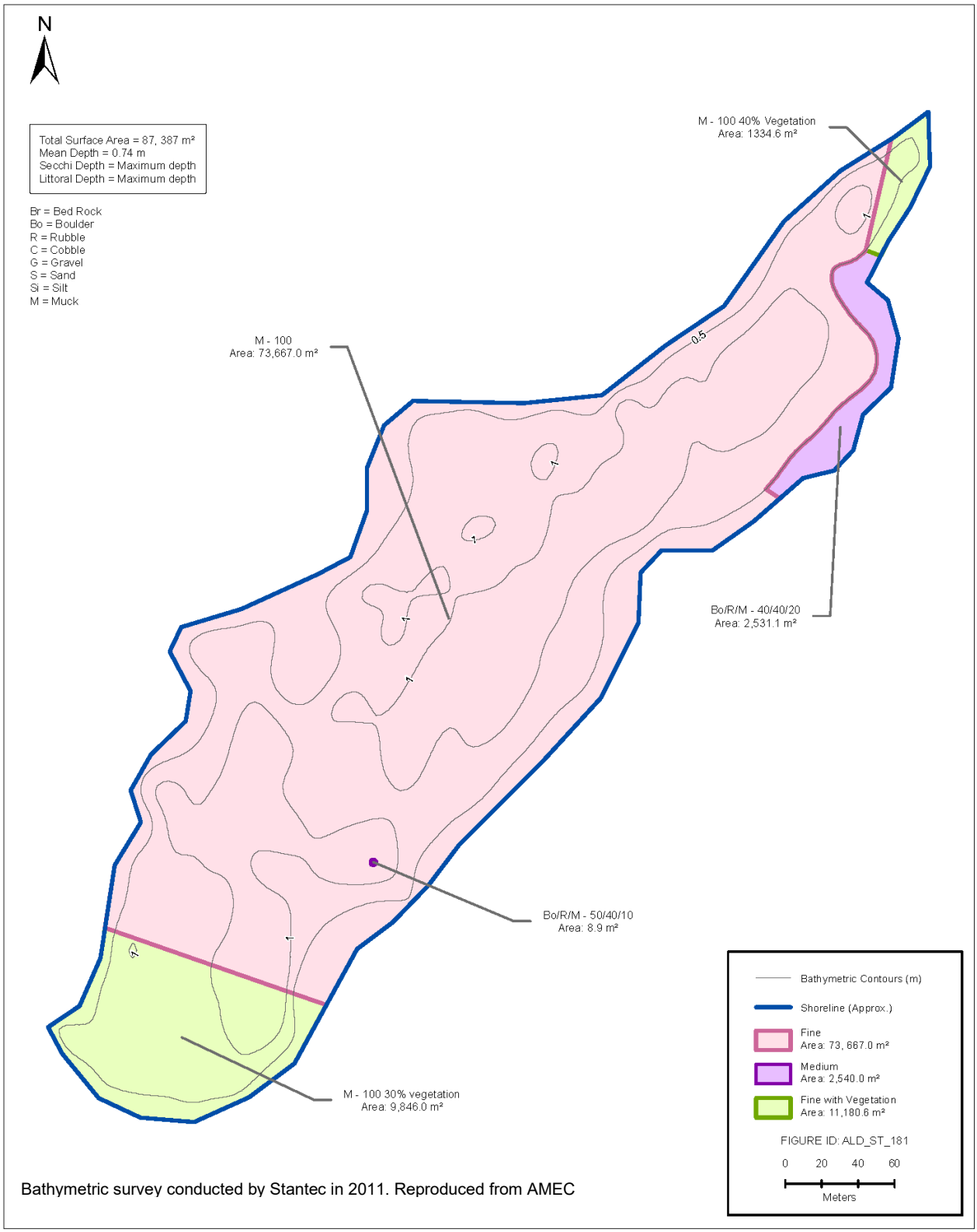
Five small waterbodies (<12ha in total surface area per waterbody) within the Rose Pit were surveyed for fish habitat in 2011 (Stantec 2012). Muck made up the majority of the substrate coverage in all of the waterbodies, with the expectation of RP04, where sand was the most dominant (Table 5-25). Mean depths within the ponds ranged from 0.7 m in Rose Pond to 9.0 m in RP04. Figure 5-1 through Figure 5-5 presents the bathymetric survey data for each waterbody surveyed in 2011.

Table 5-25: 2011 Habitat Survey Data from Various Waterbodies in the Proposed Rose Pit

Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Rose Pond (RP01)	87,387	1.4	-	0.7	0	1	1	0	0	0	98
RP02	106,825	2.5	-	4.3	0	9	5	4	0	14	68
RP03	117,145	2.1	-	2.2	0	10	1	0	0	1	89
RP04	92,221	4.8	-	9.0	0	13	9	0	0	56	23
RP05	25,296	2.6	-	2.4	0	3	5	6	3	34	50

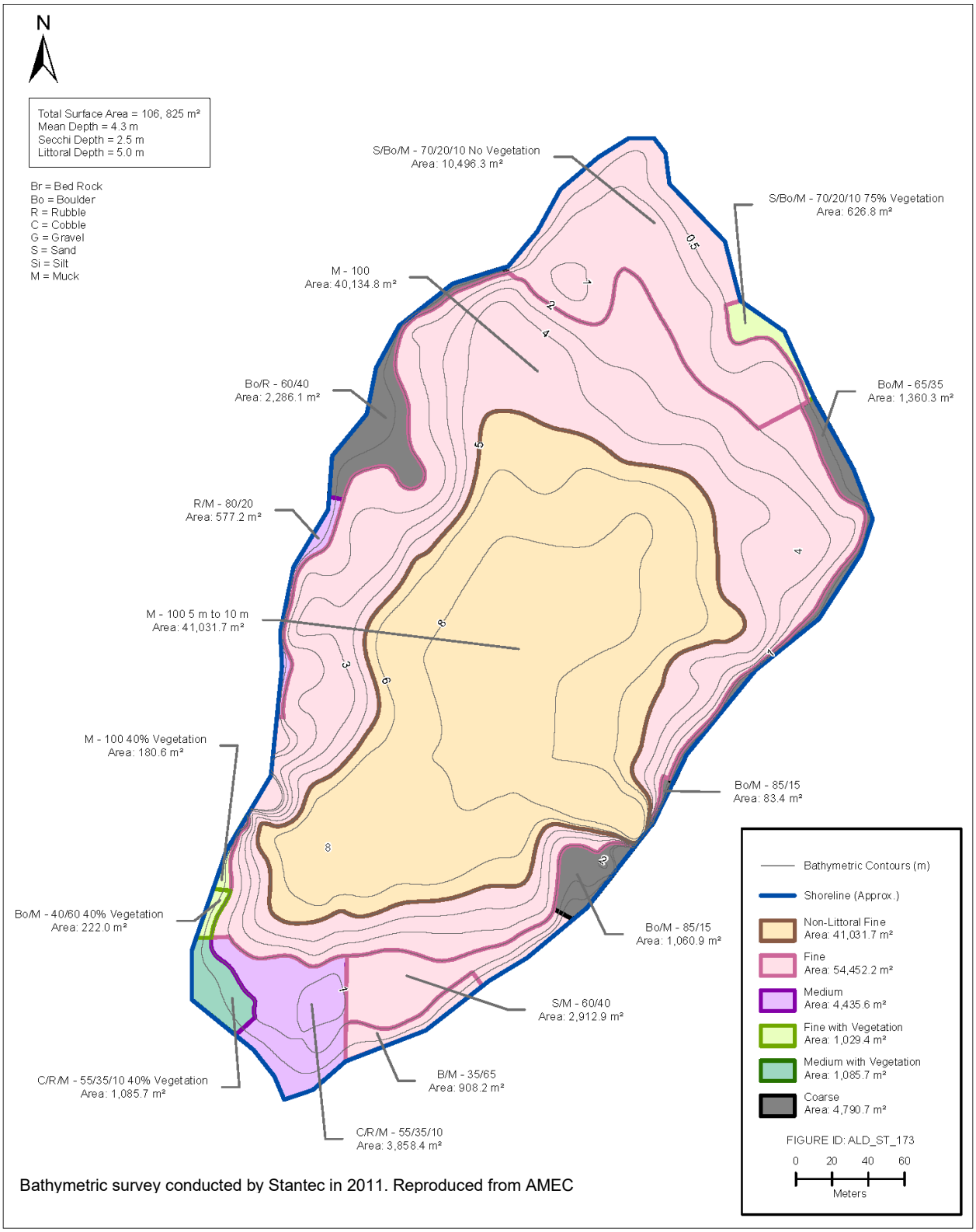
Source: Stantec (2012)

Figure 5–1: Bathymetric Map of Rose Pond (RP01)



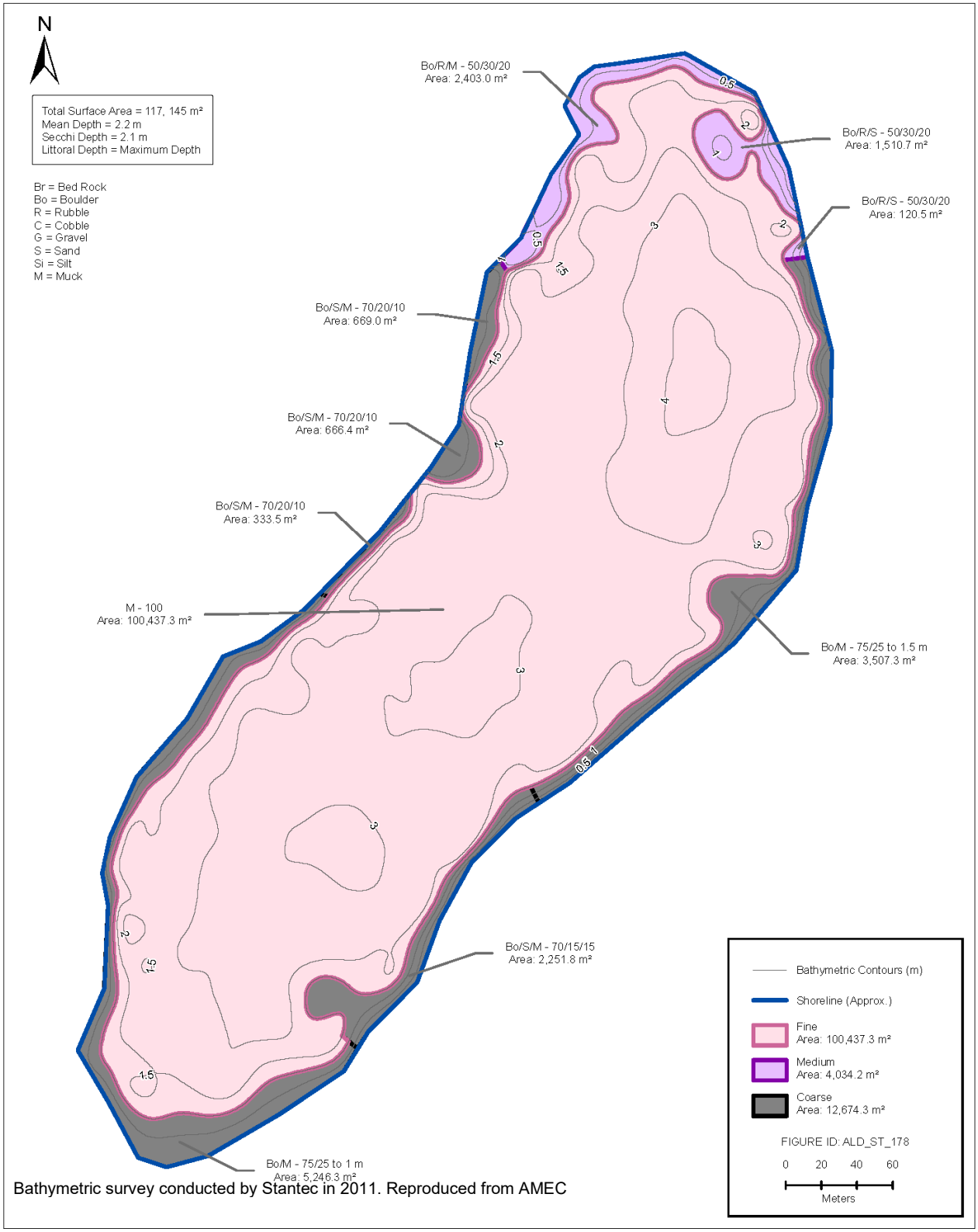
Bathymetric survey conducted by Stantec in 2011. Reproduced from AMEC

Figure 5–2: Bathymetric Map of RPP02



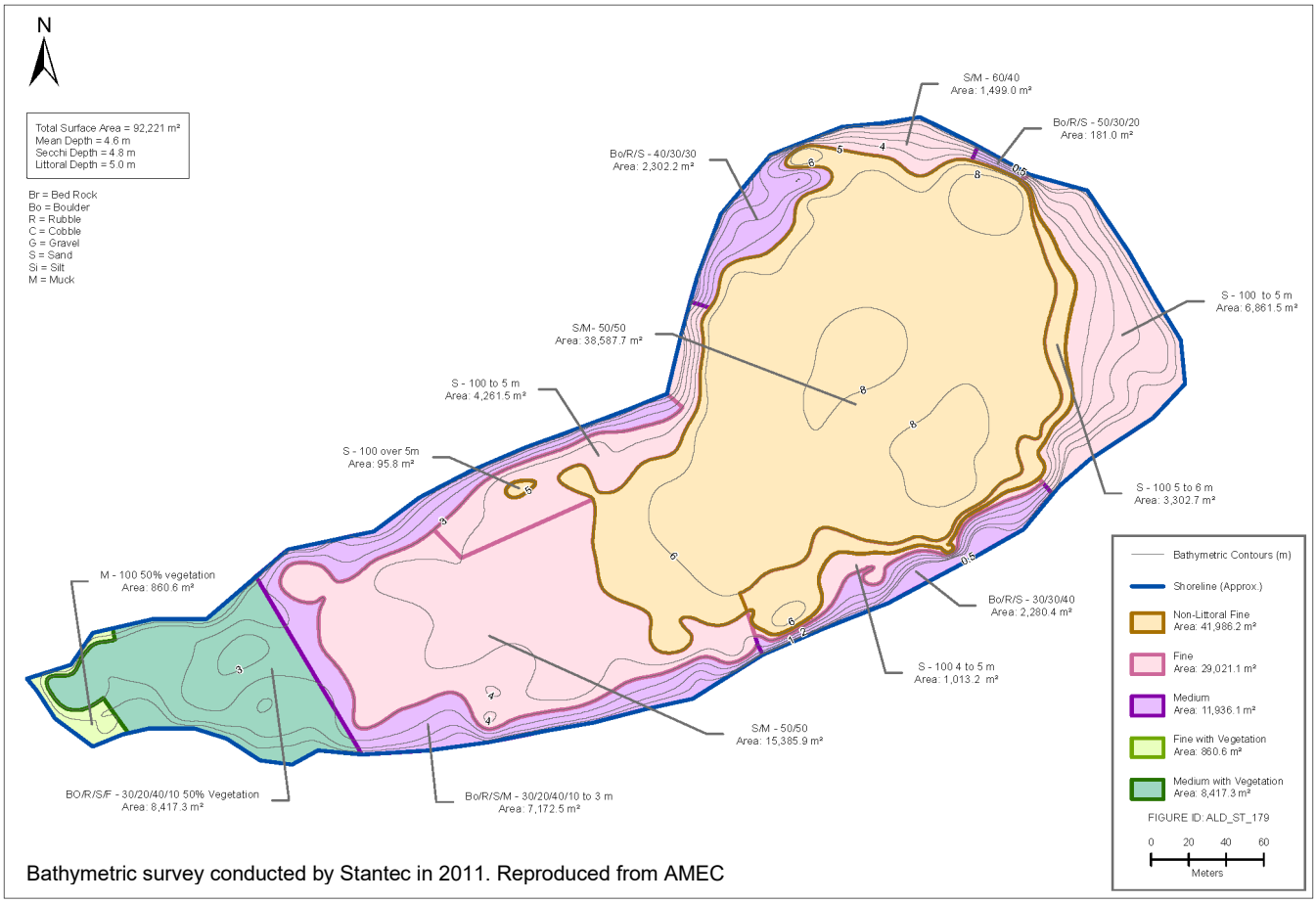
Bathymetric survey conducted by Stantec in 2011. Reproduced from AMEC

Figure 5–3: Bathymetric Map of RP03



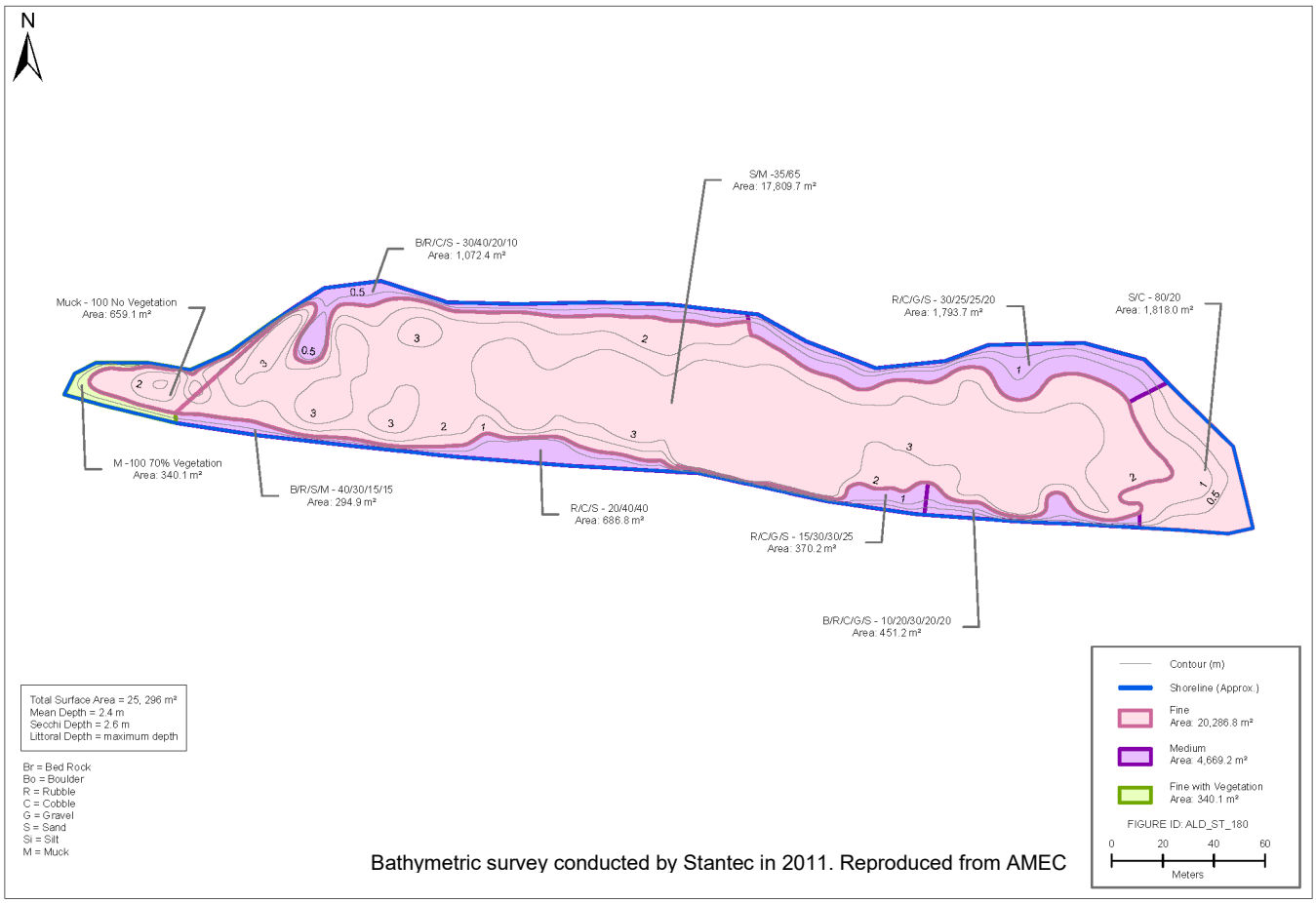
Bathymetric survey conducted by Stantec in 2011. Reproduced from AMEC

Figure 5–4: Bathymetric Map for RP04



Bathymetric survey conducted by Stantec in 2011. Reproduced from AMEC

Figure 5–5: Bathymetric Map for RP05



Bathymetric survey conducted by Stantec in 2011. Reproduced from AMEC

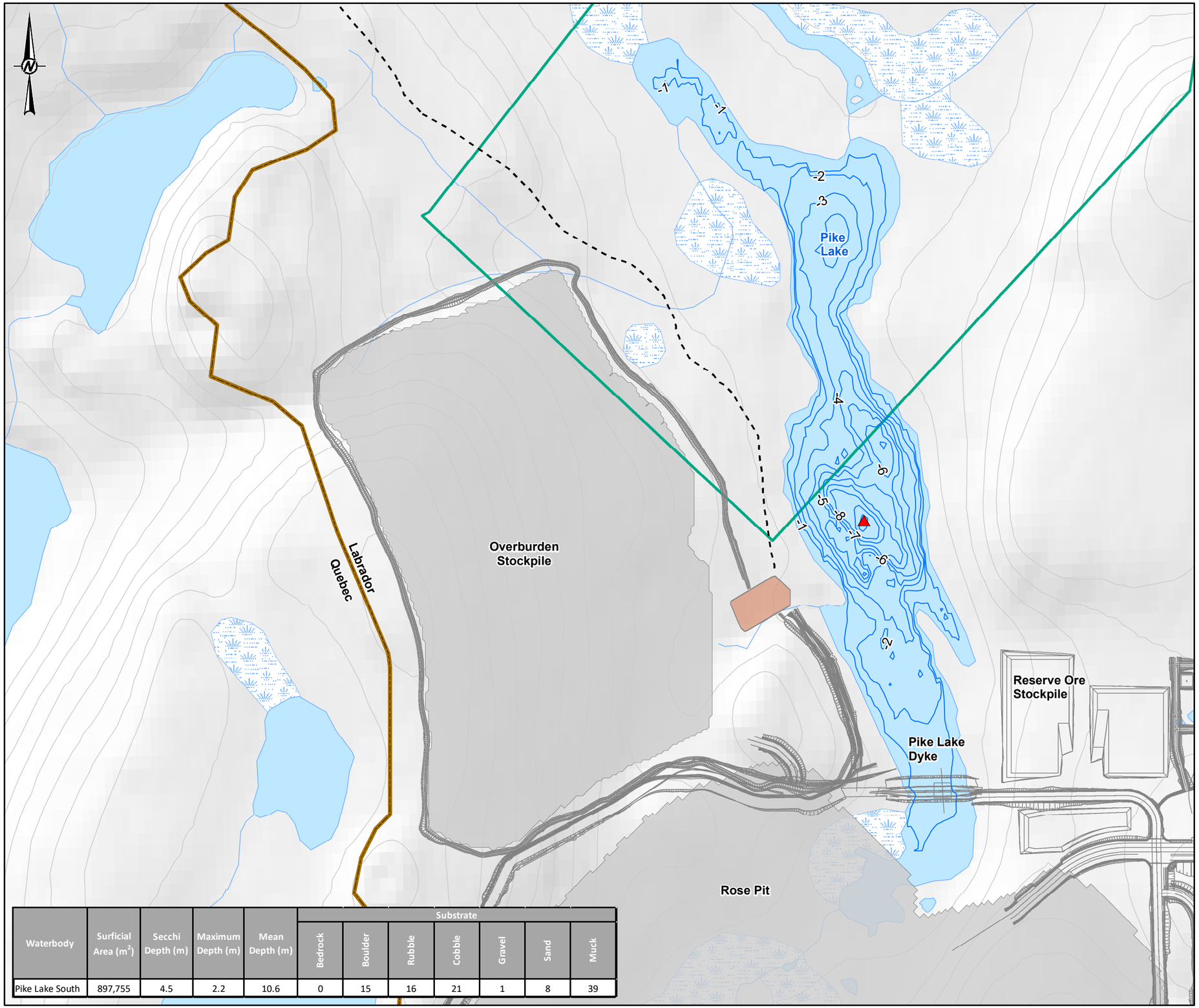
5.5.2 2012 Lacustrine Habitat Surveys

Field surveys were completed in 2012 to quantify the lacustrine habitat present in Pike Lake South and Pike Gully (Table 5-26). Muck was the most abundant substrate present in each waterbody. Bathymetric surveys were completed in Pike Lake South in 2023 (Figure 5-6 A, B), which showed a maximum depth of 10.6m with a mean depth of 2.2 m. Bathymetric surveys were not completed in Pike Gully due to shallow water depths.

Table 5-26: Habitat Survey Data from Pike Lake South and Pike Gully

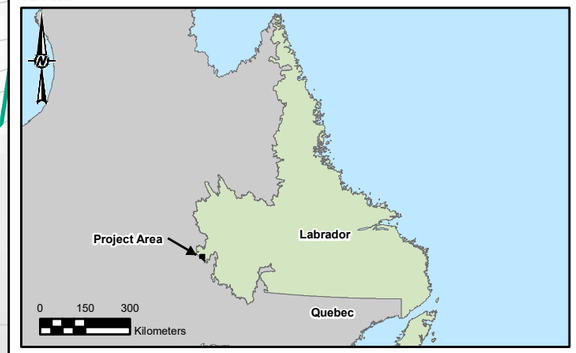
Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Pike Lake South	897,755	4.5	2.2	10.6	0	15	16	21	1	8	39
Pike Gully	40,846	-	-	-	0	30	12	0	0	5	53

Source: AMEC (2012)



Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Pike Lake South	897,755	4.5	2.2	10.6	0	15	16	21	1	8	39

KEY MAP



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LEGEND

PROJECT DATA

- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE

- Proposed Infrastructure
- Proposed Infrastructure
- Proposed Sedimentation Pond
- Potential Access Road

BASEMAP INFORMATION

- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

0 137.5 275 550

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NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 PIKE LAKE SOUTH BATHYMETRY

CONSULTANT

wsp

YYYY-MM-DD	2024-11-04
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	A	Figure 5-6B

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25mm

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5.5.3 2023 Lacustrine Habitat Surveys

Habitat surveys and bathymetric surveys were completed in Long Lake, Mills Lake, Pike Lake North and Riordan Lake in July and August 2023. Table 5-27 presents a summary of the habitat present in each lake surveyed.

Long Lake is a large lake, with a surface area just over 11 km², which is heavily used by residents for boating and recreational fishing and has several cabins along the shoreline, a public boat launch, a cordoned off swimming area. The shoreline was noted as having predominantly coarse material, boulder and rubble, with an area of bedrock outcrops. There were also areas of primarily sandy beaches, mostly around built-up areas and the boat launch. There was aquatic vegetation noted near the inflow and outflow. Long Lake had a maximum measured depth of 55 m, and a mean depth of 17.6 m (Figure 5-7).

Mills Lake has a surface area of 4.9 km² and drains into Long Lake from the southwest. Shoreline substrate composition was predominantly boulder and rubble with isolated bedrock outcrops. There were no significant areas of aquatic vegetation noted during the survey. Mills Lake had a maximum measured depth of 26 m, with a mean depth of 13.5 m (Figure 5-8).

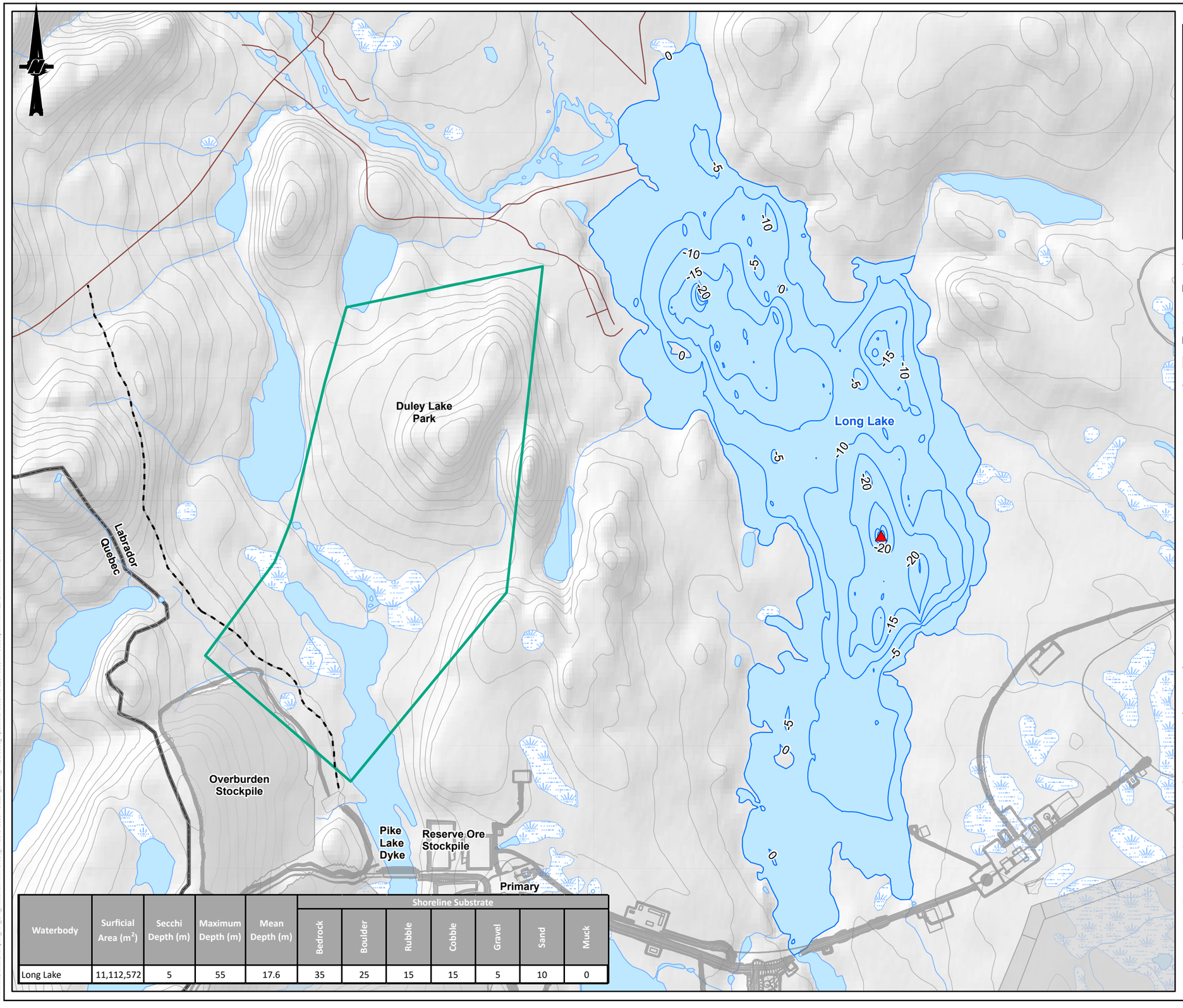
Pike Lake North has a surface area of just over 0.5 km², is located downstream of the Project, with water flowing from Pike Lake South and Rose Pond. Shoreline substrate was predominantly rubble and boulder. There was aquatic vegetation near the inflow and outflow. Pike Lake North had a maximum measure depth of 10 m, with a mean of 8.2 m (Figure 5-9).

Riordan Lake has a surface area of 1.1 km² and is located to the east of the TMF. Shoreline substrate was primarily boulders. Riordan Lake had a maximum measured depth of 15 m, with a mean depth of 4.0 m (Figure 5-10). At the time of survey, there was an apparent algal bloom in Riordan Lake, creating low visibility within the water column.

Table 5-27: 2023 Habitat Survey Data from Long Lake, Mills Lake, Pike Lake North and Riordan Lake

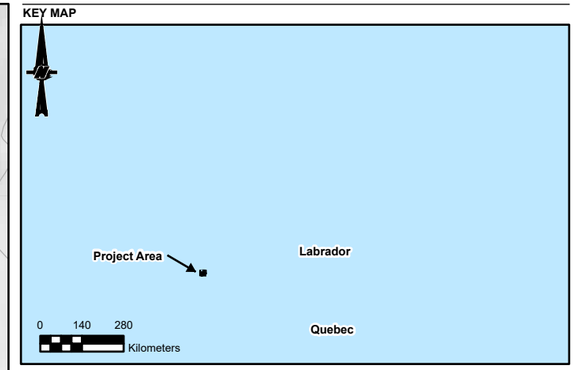
Waterbody	Surficial Area (m²)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Shoreline Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Long Lake	11,112,572	5.0	55	17.6	35	25	15	15	5	10	0
Mills Lake	4,907,772	7.2	26	13.5	10	30	20	10	10	5	15
Pike Lake North	530,102	6.6	10	8.2	5	25	35	15	10	5	5
Riordan Lake	1,197,480	4.1	15	4.0	5	30	15	15	5	15	15

Additionally, depth surveys were completed in Molar Lake (Figure 5-11) and Daviault Lake (Figure 5-12). Surveys were completed in these areas to aid in planning water sampling programs within the area. Habitat surveys were not completed in these lakes.



Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Shoreline Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Long Lake	11,112,572	5	55	17.6	35	25	15	15	5	10	0

KEY MAP



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LEGEND

PROJECT DATA
- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE
- Proposed Project Infrastructure
- Potential Access Road

BASEMAP INFORMATION
- Road
- Railway
- Watercourse
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Duley Lake Park

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NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
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PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 LONG LAKE BATHYMETRY

CONSULTANT

YYYY-MM-DD	2025-02-26
DESIGNED	----
PREPARED	GM
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
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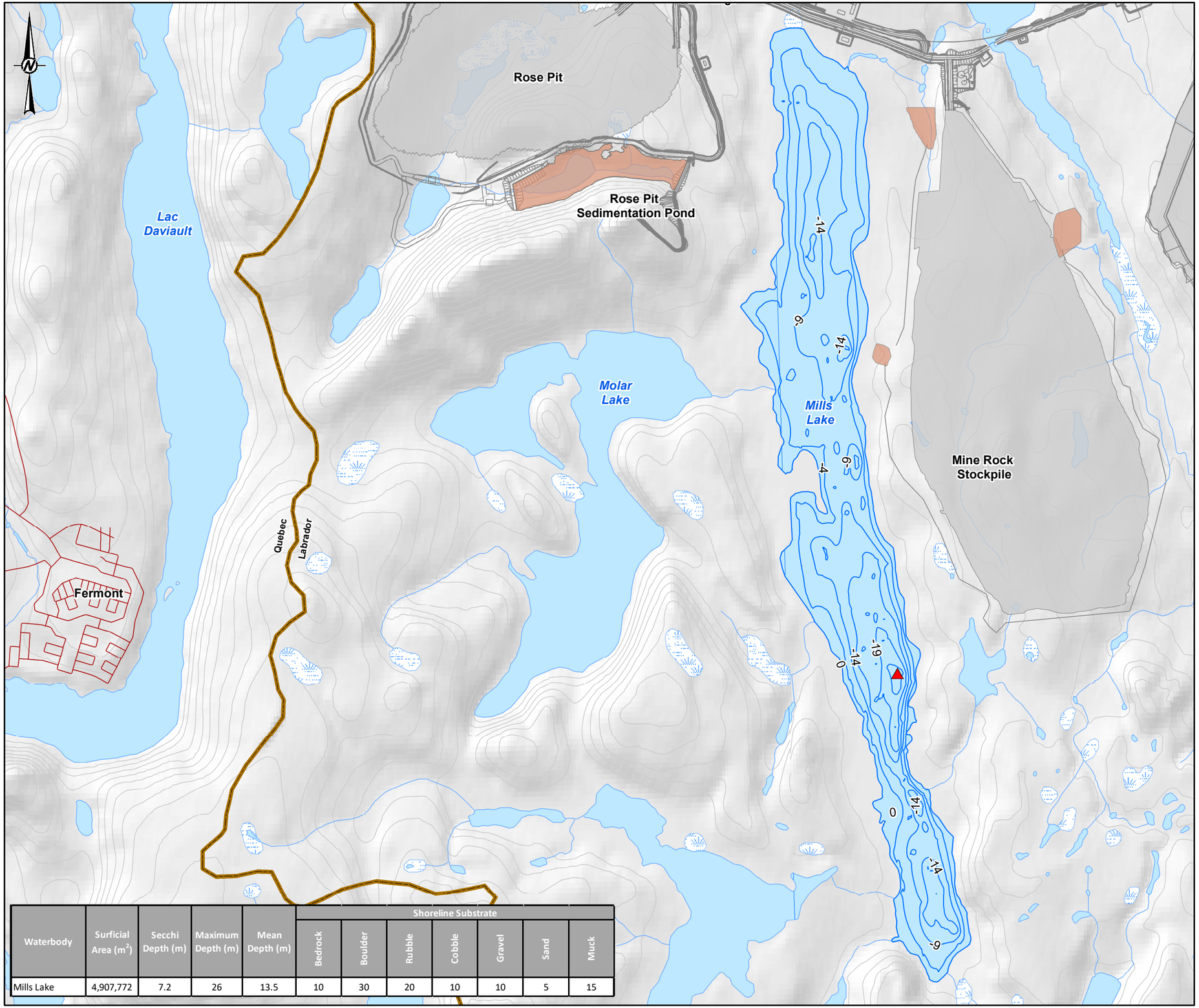
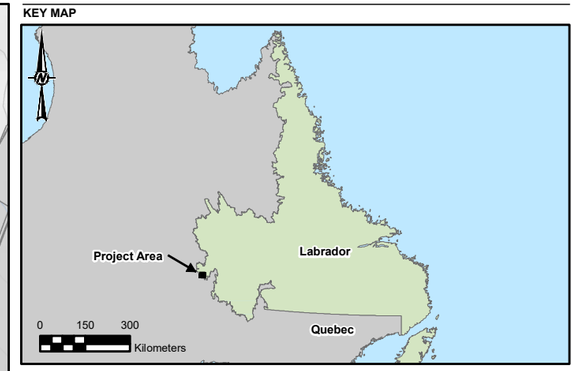


Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Shoreline Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Mills Lake	4,907,772	7.2	26	13.5	10	30	20	10	10	5	15

KEY MAP



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LEGEND

PROJECT DATA
- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE
- Proposed Infrastructure
- Project Infrastructure
- Proposed Sedimentation Pond

BASEMAP INFORMATION
- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

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NOTE(S)
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PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 MILLS LAKE BATHYMETRY

CONSULTANT

YYYY-MM-DD	2024-11-04
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	A	Figure 5-8

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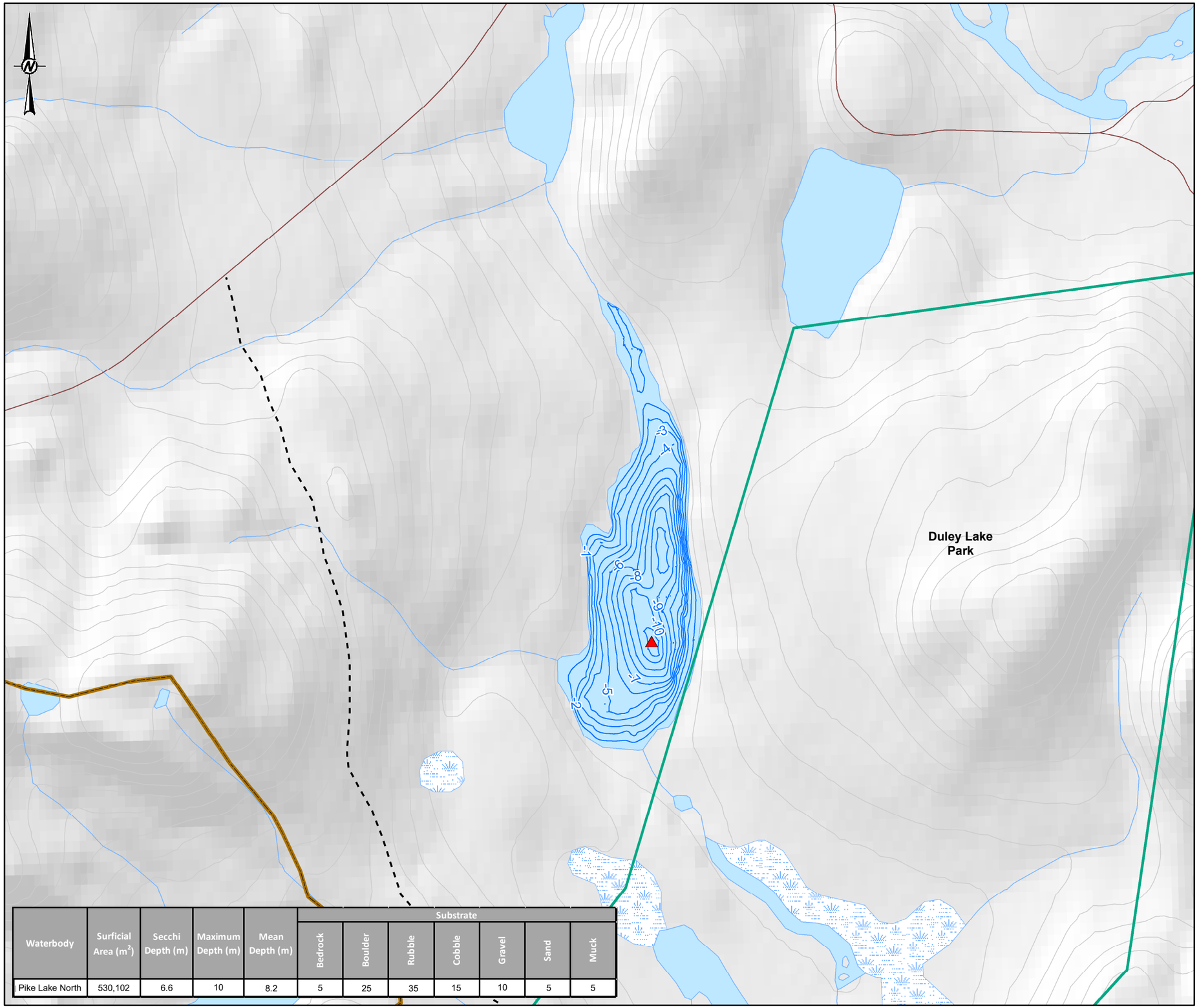
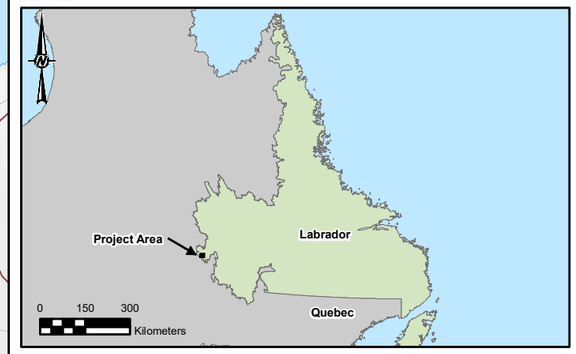


Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Pike Lake North	530,102	6.6	10	8.2	5	25	35	15	10	5	5

KEY MAP



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LEGEND

PROJECT DATA
- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE
- Proposed Infrastructure
- Proposed Infrastructure
- Proposed Sedimentation Pond
- Potential Access Road

BASEMAP INFORMATION
- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

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NOTE(S)
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REFERENCE(S)
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PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 PIKE LAKE NORTH BATHYMETRY

CONSULTANT

YYYY-MM-DD	2024-11-04
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
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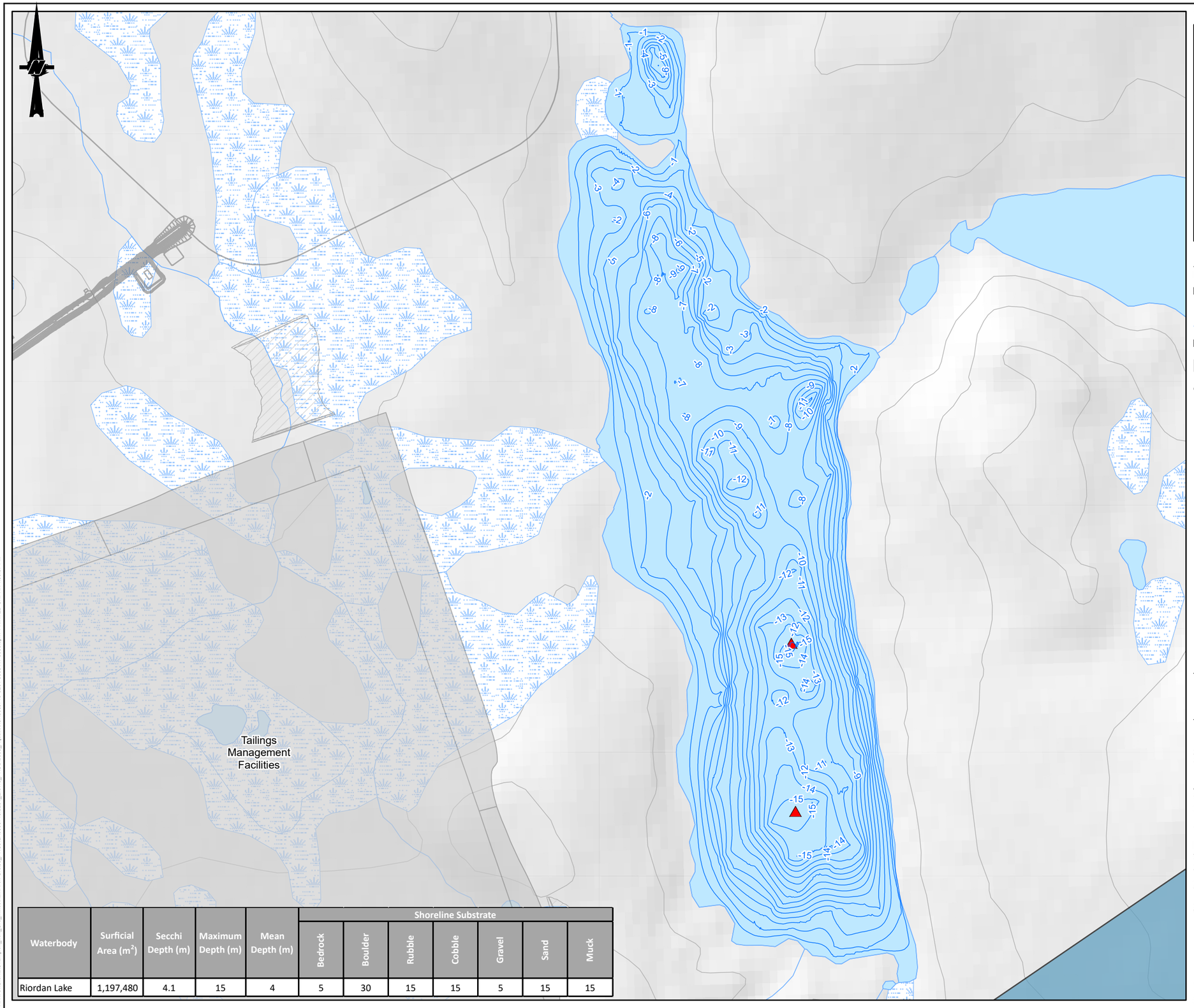
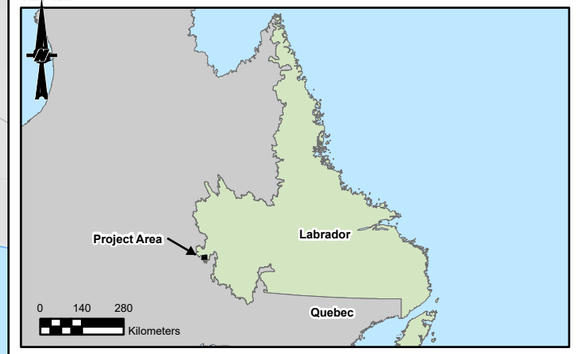


Waterbody	Surficial Area (m^2)	Secchi Depth (m)	Maximum Depth (m)	Mean Depth (m)	Shoreline Substrate						
					Bedrock	Boulder	Rubble	Cobble	Gravel	Sand	Muck
Riordan Lake	1,197,480	4.1	15	4	5	30	15	15	5	15	15

KEY MAP



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LEGEND

PROJECT DATA
- Deepest Point in Lake
- Bathymetry (m)

PROJECT INFRASTRUCTURE
- Proposed Project Infrastructure
- Potential Access Road

BASEMAP INFORMATION
- Road
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- Contour
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- Waterbody
- Labrador/Quebec Boundary
- Duley Lake Park
- Public Water Supply

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NOTE(S)
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REFERENCE(S)
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3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT
CHAMPION IRON MINES LTD.

PROJECT
KAMI IRON ORE PROJECT
WABUSH, NL

TITLE
2023 RIORDAN LAKE BATHYMETRY

CONSULTANT

YYYY-MM-DD	2025-02-27
DESIGNED	----
PREPARED	GM
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	B	5-10

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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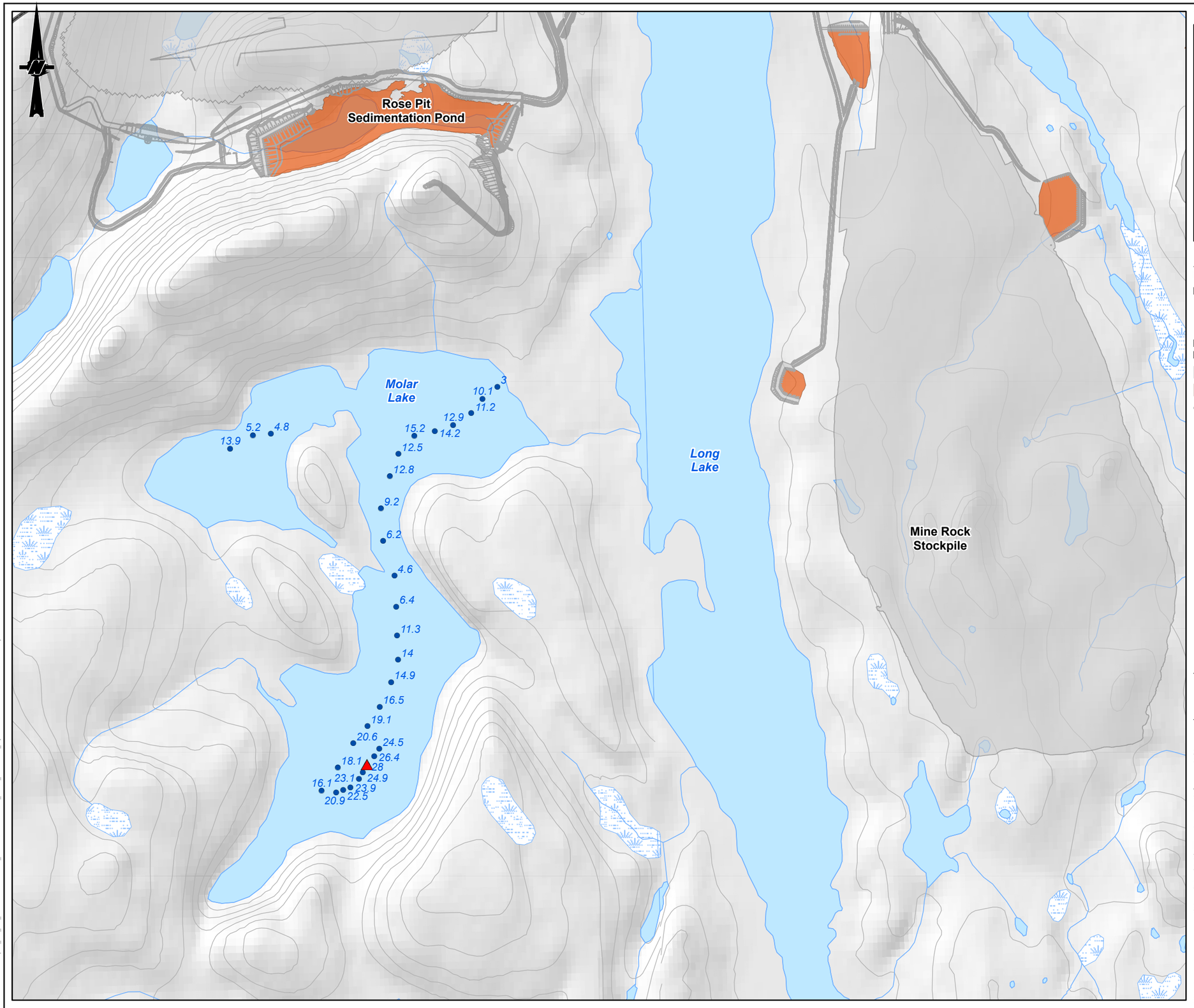
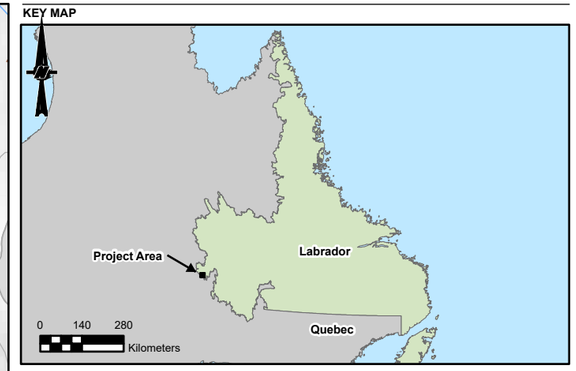


KEY MAP



SCALE 1:20,000,000

LEGEND

PROJECT DATA

- Deepest Point in Lake
- Depth Location

PROPOSED PROJECT INFRASTRUCTURE

- Proposed Infrastructure
- Proposed Sediment Pond
- Potential Access Road

BASEMAP INFORMATION

- Road
- Contour
- Waterbody
- Bog/Wetland
- Watercourse
- Railway

0 235 470 940

1:22,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - NEWFOUNDLAND AND LABRADOR
2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE PROJECT
WABUSH, NL

TITLE

2023 MOLAR LAKE DEPTH SURVEY

CONSULTANT

YYYY-MM-DD	2025-03-10
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	A	Figure 5-11

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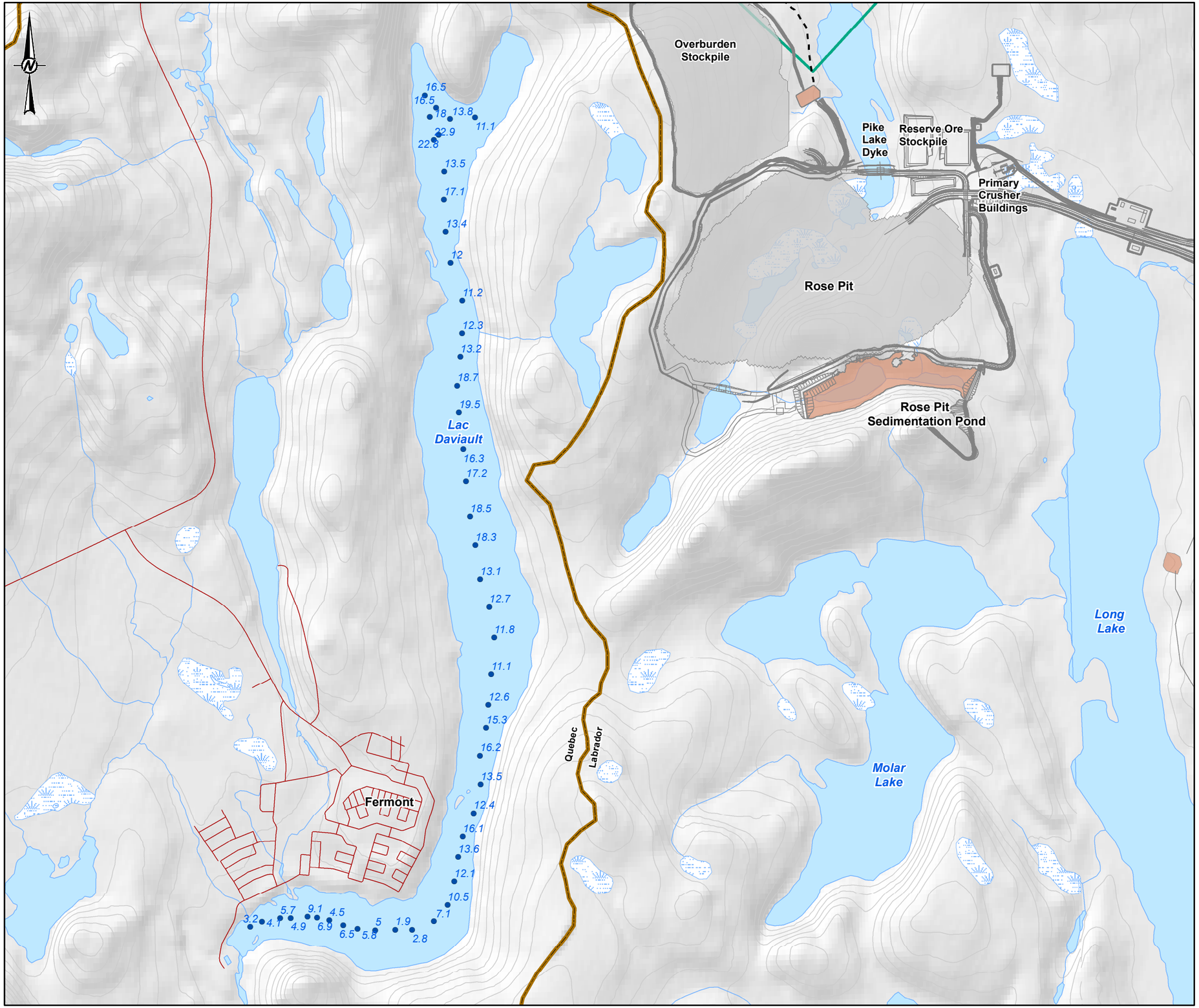

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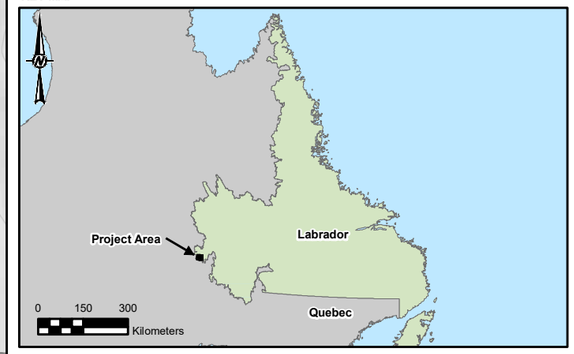

SCALE 1:20,000,000

LEGEND

PROJECT DATA

- Deepest Point in Lake
- Depth Location

PROJECT INFRASTRUCTURE

- Proposed Infrastructure
- Proposed Infrastructure
- Proposed Sedimentation Pond
- Potential Access Road
- Proposed Access Road and Railway Corridor

BASEMAP INFORMATION

- Duley Lake Park
- Existing Railway
- Existing Road
- River/Stream
- Contour
- Bog/Wetland
- Waterbody
- Labrador/Quebec Boundary
- Public Water Supply

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NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

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2. IMAGERY CREDITS:
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 19N

CLIENT

CHAMPION IRON MINES LTD.

PROJECT

KAMI IRON ORE PROJECT
WABUSH, NL

TITLE

2023 LAKE DAVIAULT DEPTH SURVEY

CONSULTANT

wsp

YYYY-MM-DD	2024-11-04
DESIGNED	----
PREPARED	JMA
REVIEWED	MG
APPROVED	JMC

PROJECT NO.	CONTROL	REV.	FIGURE
CA0038713.5261	0001	A	Figure 5-12

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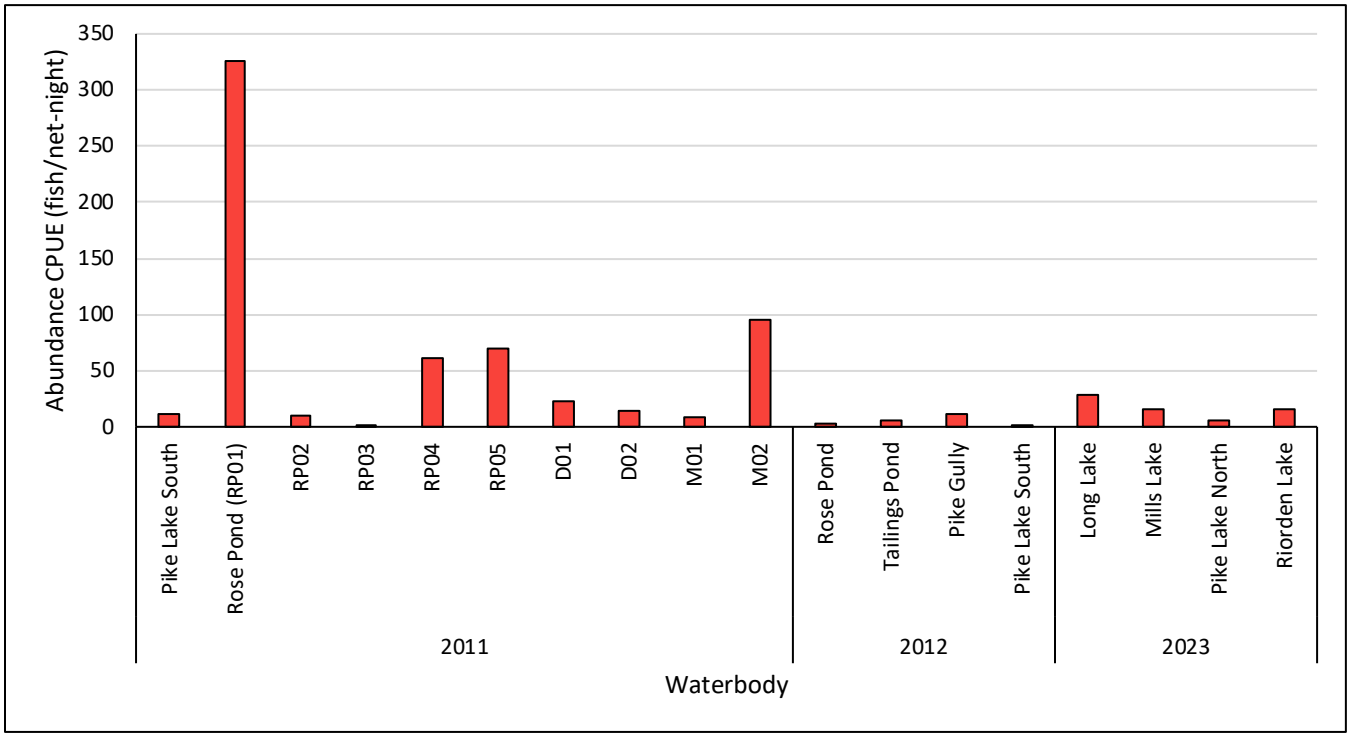
5.6 Lacustrine Fish Surveys

Fish communities have been sampled in several waterbodies since 2011, utilizing a combination of fyke nets, gillnets and minnow traps. Similar to electrofishing surveys discussed in Section 5.4, the intended outcome of lacustrine fish surveys has varied throughout the years of baseline assessment, with species presence and relative abundance being the focus in 2011 and 2023, and select population estimates being undertaken during 2012. In 2024, all fish surveys in lacustrine habitat were conducted on potential fishless ponds identified throughout western Labrador. In all ponds sampled, fish were recorded and therefore no further surveys were completed.

Rose Pond (RP01) sampled in 2011 had the highest total abundance throughout the baseline sampling program, with 326 fish/net-night. This pond was sampled again in 2012, however, catches at this time were significantly lower, with 2.50 fish/net-night (Figure 5-13). In general, most waterbodies sampled had relatively low CPUEs, typically less than 10 fish/net-night.

Below is a summary of the species presence and catch-per-unit-effort during each sampling year since 2011. Individual catch data since 2011 is presented in Appendix C, while high level biometric summaries, including length-weight relationships and length distributions are presented in Appendix D.

Figure 5–13: Overall Fyke Net Abundance Catch-Per-Unit-Effort in all Waterbodies Sampled Since 2011



5.6.1 2011 Lacustrine Fish Surveys

Baseline fish and fish habitat surveys were completed in 2011 (Stantec 2012), in various areas throughout the Project Area, with effort concentrated around the Rose Pit, and the Rose Pit Sedimentation Pond (Figure 1-1). Fish species presence and relative abundance were assessed using a combination of fyke nets and tended gillnets. Lake chub were the most abundant species observed in 2011 (878 total captures; Table 5-25), while northern pike yielded the most biomass (5,126.1 total grams; Figure 5-14 through Figure 5-17). For fyke net, Rose Pond (RP01) had the highest abundance CPUE, with 326 fish/net-night, while Pond M02 had the highest biomass CPUE, with 2,312 g/net-night.

Table 5-28: Summary of 2011 Fyke Net Abundance Catch-Per-Unit-Effort and Biomass from Various Locations Throughout the Project Area

Waterbody	Species	Abundance		Biomass	
		Total Catch	CPUE (fish/net-night)	Total Catch (g)	CPUE (grams/net-night)
Pike Lake South	Burbot	2	1.00	1.2	0.60
	Lake chub	7	3.50	18.6	9.30
	Northern pike	3	1.50	2,405.5	1,202.75
	Sculpin	10	5.00	11.6	5.80
	Total	22	11.00	2,436.9	1,218.45
Rose Pond (RP01)	Burbot	1	0.50	38.0	19.00
	Lake chub	639	319.50	1,919.7	959.85
	Northern pike	1	0.50	126.5	63.25
	White sucker	11	5.50	808.1	404.05
	Total	652	326.00	2,892.3	1,446.15
RP02	Lake chub	6	3.00	24.4	12.20
	Northern pike	2	1.00	1,195.0	597.50
	Sculpin	13	6.50	23.0	11.50
	Total	21	10.50	1,242.4	621.20
RP03	Northern pike	2	1.00	2,594.1	1,297.07
	Total	2	1.00	2,594.1	1,297.07
RP04	Brook trout	2	1.00	198.7	99.35
	Burbot	9	4.50	606.0	303.00
	Lake chub	40	20.00	386.8	193.38
	Pearl dace	29	14.50	198.3	99.15
	Sculpin	1	0.50	0.5	0.25
	White sucker	41	20.50	1,089.0	544.49
	Total	122	61.00	2,479.2	1,239.62
RP05	Burbot	2	1.00	50.3	25.15
	Lake chub	95	47.50	856.7	428.35
	Pearl dace	33	16.50	168.6	84.30
	Sculpin	1	0.50	1.5	0.75
	White sucker	9	4.50	110.4	55.20
	Total	140	70.00	1,187.5	593.75
D01	Brook trout	2	1.00	46.7	23.35
	Burbot	13	6.50	198.1	99.05
	Lake chub	12	6.00	27.4	13.70
	Longnose sucker	10	5.00	504.2	252.10
	Pearl dace	2	1.00	4.7	2.35
	Round whitefish	2	1.00	59.3	29.65
	Sculpin	3	1.50	2.0	1.00
	White sucker	2	1.00	58.2	29.10
	Total	46	23.00	900.6	450.30

Table 5-28: Summary of 2011 Fyke Net Abundance Catch-Per-Unit-Effort and Biomass from Various Locations Throughout the Project Area

Waterbody	Species	Abundance		Biomass	
		Total Catch	CPUE (fish/net-night)	Total Catch (g)	CPUE (grams/net-night)
D02	Brook trout	1	88.10	46.7	23.35
	Burbot	2	150.80	198.1	99.05
	Lake chub	2	11.00	27.4	13.70
	Longnose dace	1	0.60	504.2	252.10
	Longnose sucker	12	622.70	4.7	2.35
	Pearl dace	9	11.10	59.3	29.65
	Sculpin	1	30.00	2.0	1.00
	Total	28	914.30	842.4	421.20
M01	Brook trout	19	9.50	1,271.0	635.50
	Total	19	9.50	1,271.0	635.50
M02	Brook trout	20	10.00	755.2	377.59
	Burbot	10	5.00	256.8	128.40
	Lake chub	83	41.50	433.7	216.85
	Lake trout	1	0.50	2,801.5	1,400.77
	Pearl dace	77	38.50	377.6	188.79
	Total	191	95.50	4,624.8	2,312.39

Source: Stantec (2012)

Figure 5–14: 2011 Fyke Net Abundance Catch-Per-Unit-Effort (Fish/Net-Night) for Waterbodies Sampled in the Rose Pit

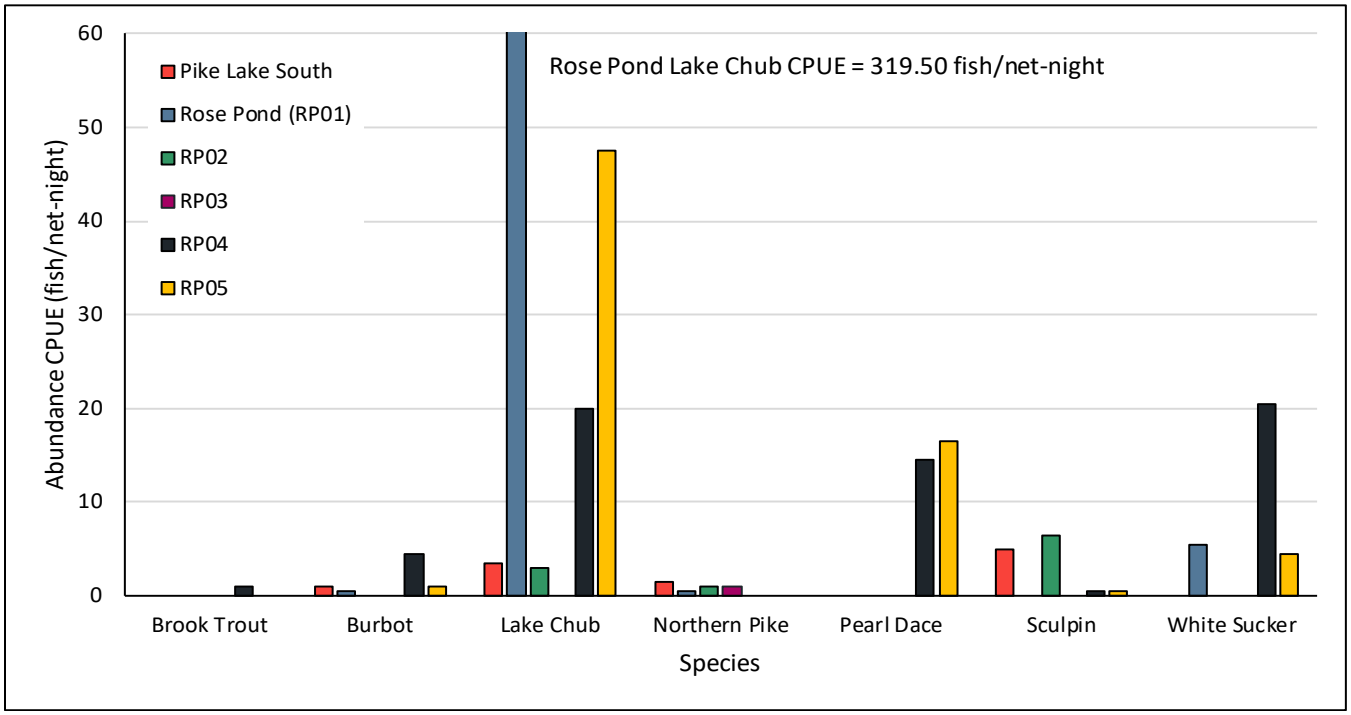


Figure 5–15: 2011 Fyke Net Abundance Catch-Per-Unit-Effort (Fish/Net-Night) in Ponds D01, D02, M01 and M02

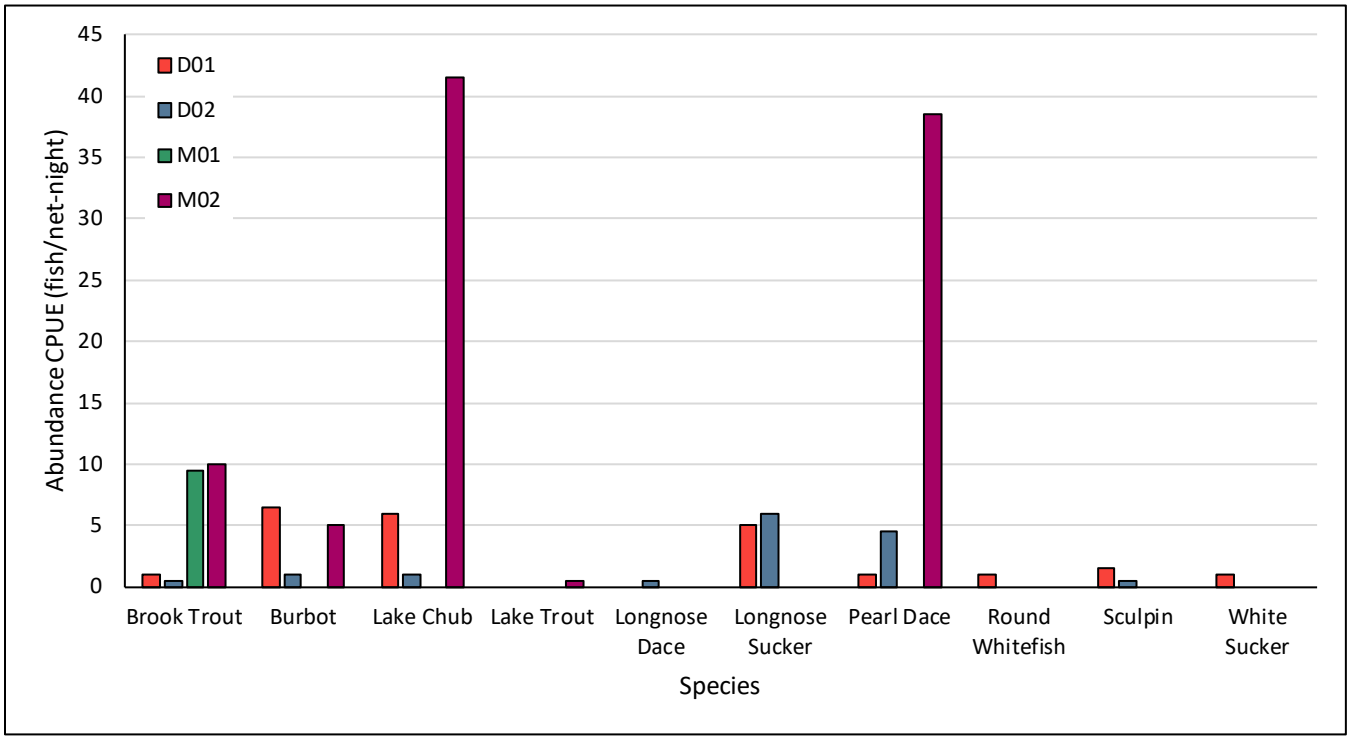


Figure 5–16: 2011 Fyke Net Biomass Catch-Per-Unit-Effort (Grams/Net-Night) for Waterbodies Sampled in the Rose Pit

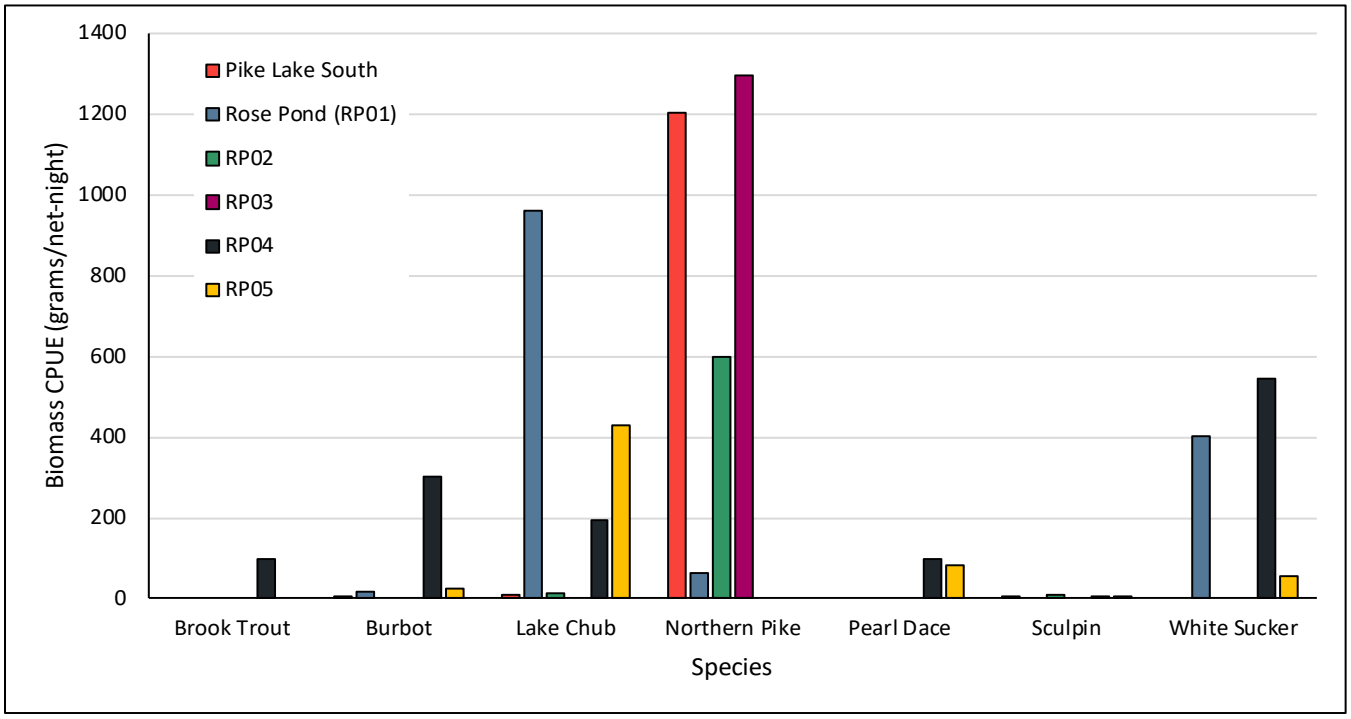
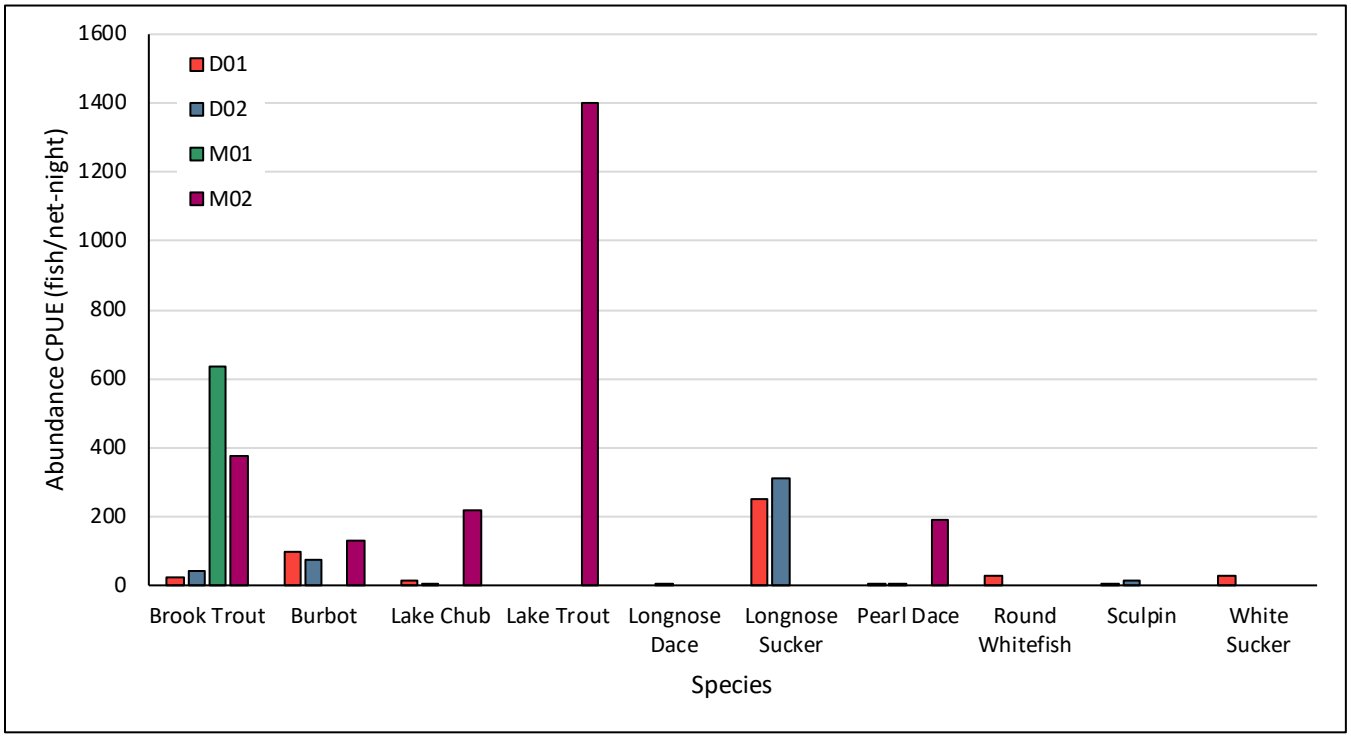


Figure 5–17: 2011 Fyke Net Biomass Catch-Per-Unit-Effort (Grams/Net-Night) in Ponds D01, D02, M01 and M02



Tended gill nets were deployed in each pond sampled during 2011. Brook trout, lake trout, northern pike, round whitefish and white sucker were the only species captured with gillnets (Table 5-26). Overall, Pond RP05 had the highest abundance CPUE (4.5 fish/net-hour) and the highest biomass CPUE (1,444.75 gram/net-night).

Table 5-29: Summary of 2011 Gill Net Abundance Catch-Per-Unit-Effort and Biomass from Various Locations Throughout the Project Area

Waterbody	Species	Abundance		Biomass	
		Total Catch	CPUE (fish/hour)	Total Catch (g)	CPUE (grams/hour)
Pike Lake South	Northern pike	1	0.25	2,980.7	745.18
	White sucker	1	0.25	17.6	4.40
	Total	2	0.50	2,998.3	749.58
Rose Pond (RP01)	Total	0	0.00	0.0	0.00
RP02	Northern pike	1	0.25	1,338.4	334.6
	Total	1	0.25	1,338.4	334.6
RP03	Northern pike	2	0.50	3,123.0	780.75
	Total	2	0.50	3,123.0	780.75
RP04	White sucker	3	0.75	2,394.7	598.68
	Total	3	0.75	2,394.7	598.68
RP05	Brook trout	7	1.75	1,790.2	447.55
	White sucker	11	2.75	3,988.8	997.20
	Total	18	4.50	5,779.0	1,444.75
D01	Lake trout	2	0.50	1,463.8	365.95
	Round whitefish	5	1.25	1,259.0	314.75
	Total	7	1.75	2,722.8	680.70

Table 5-29: Summary of 2011 Gill Net Abundance Catch-Per-Unit-Effort and Biomass from Various Locations Throughout the Project Area

Waterbody	Species	Abundance		Biomass	
		Total Catch	CPUE (fish/hour)	Total Catch (g)	CPUE (grams/hour)
D02	Brook trout	1	0.25	703.1	175.78
	Total	1	0.25	703.1	175.78
M01	Brook trout	2	0.50	104.1	26.03
	Total	2	0.50	104.1	26.03
M02	Brook trout	5	1.25	340.4	85.1
	Total	5	1.25	340.4	85.1

Source: Stantec (2012)

5.6.2 2012 Lacustrine Fish Surveys

Fish populations were assessed in 2012 (AMEC 2012), with efforts again focused on the proposed Rose Pit. Sampling was completed in Rose Pond, Pike Gully and Pike Lake South. Additional effort was completed within the Tailings Pond. Throughout 2012, white sucker and northern pike were the most abundant species observed (Table 5-27 and Figure 5-18), and they yielded the highest biomass Table 5-28 and Figure 5-19). Pike Gully had the highest abundance CPUE (11.33 fish/net-night) and biomass CPUE (2,291.34 gram/net-night) of any of the waterbodies sampled in 2012, primarily due to high catch rates of White Sucker.

Table 5-30: Summary of 2012 Fyke Net Abundance and Biomass Catch-Per-Unit-Effort from Pike Lake South, Pike Gully, Rose Pond and Tailings Management Facility

Waterbody	Species	Abundance		Biomass	
		Total Catch[1]	CPUE (fish/net-night)	Total Catch (g)[2]	CPUE (grams/net-night)
Pike Lake South	Burbot	31	1.29	68.3	2.85
	Lake chub	1	0.04	4.6	0.19
	Northern pike	14	0.58	7,090.4	295.43
	Sculpin	3	0.13	12.5	0.52
	Total	49	2.04	7,175.8	298.99
Pike Gully	Burbot	2	0.33	16.5	2.75
	Northern pike	3	0.50	202.0	33.67
	White sucker	63	10.50	13,529.5	2,254.92
	Total	68	11.33	13,748.0	2,291.34
Rose Pond	Brook trout	6	0.24	1794.4	71.78
	Burbot	3	0.12	32.9	1.32
	Lake chub	2	0.08	11.2	0.45
	Northern pike	42	1.68	7677.6	307.11
	Sculpin	3	0.12	8.0	0.32
	White sucker	7	0.28	1509.1	60.36
	Total	63	2.52	11,033.2	441.34
Tailings Pond	Brook trout	7	1.40	253.2	50.64
	Lake chub	49	9.80	314.5	62.89
	Total	56	11.20	567.7	113.53

Source: AMEC (2012)

[1] Total catch and CPUEs include all fish captured, including recaptures.

Figure 5–18: 2012 Fyke Net Abundance Catch-Per-Unit-Effort (Fish/Net-Night) Pike Lake South, Pike Gully, Rose Pond and Tailings Pond

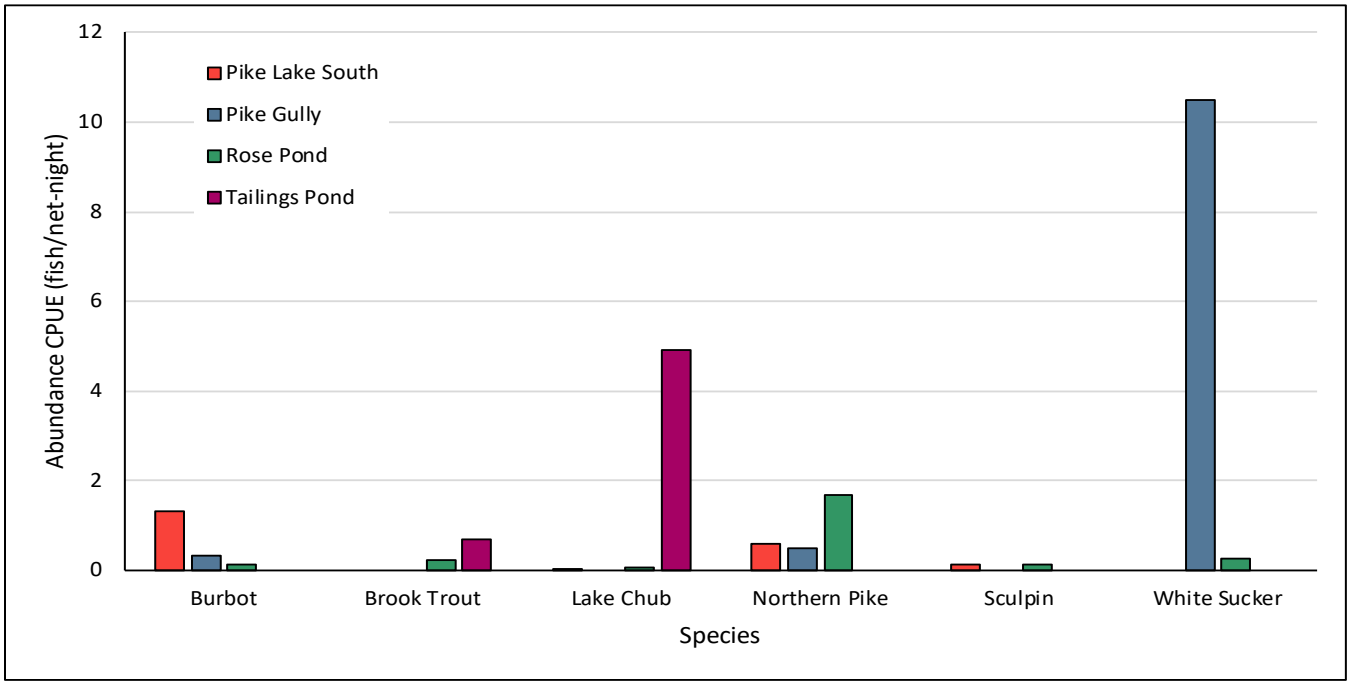
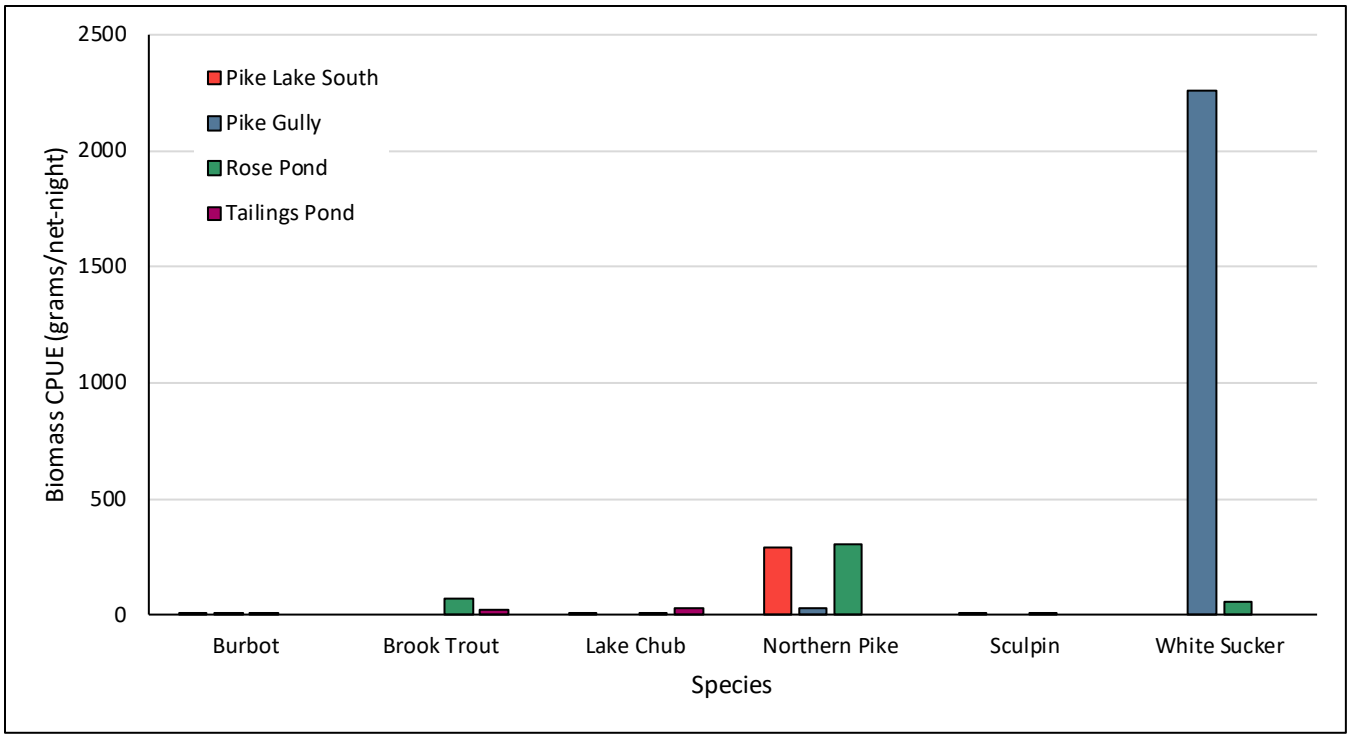


Figure 5–19: 2012 Fyke Net Biomass Catch-Per-Unit-Effort (Grams/Net-Night) Pike Lake South, Pike Gully, Rose Pond and Tailings Pond



Population estimates were also completed for brook trout and northern pike in each of the waterbodies sampled in 2012. Northern pike were more abundant with a total of 59 caught than brook trout in each waterbody, except Tailings Pond (Table 5-28). Rose Pond had the highest northern pike abundance estimate with 128 northern pike.

Table 5-31: Summary of Number of Fish Caught and Population Estimates from 2012 in Pike Lake South, Pike Gully, Rose Pond and Tailings Pond

Waterbody	Species	Total Catch	Total Recaptures	Population Estimate[1]	95% Confidence Interval
Pike Lake South	Brook trout	0	0	-	-
	Northern pike	14	1	38	11-73
Pike Gully	Brook trout	0	0	-	-
	Northern pike	3	3[2]	3[3]	-[3]
Rose Pond	Brook trout	6	0[2]	6	2-12
	Northern pike	42	4	128	57-306
Tailings Pond	Brook trout	7	0[2]	8	2-16
	Northern pike	0	0	-	-

Source: AMEC (2012)

1 Estimates based on Schnabel method in FSA Package (Ogle 2016) for R (R Core Team 2020)

2 No recaptures observed. One recaptured assumed on the last day to complete calculations.

3 Low catch rates resulted in poor estimates. Total catch is presented as an estimate and confidence intervals are not presented.

5.6.3 2023 Lacustrine Fish Surveys

Fish survey effort in 2023 was focused on Long Lake, Mills Lake, Pike Lake North and Riordan Lake, larger waterbodies downstream of the project footprint, which are of interest to the general public. Long Lake and Mills Lake were identified during the 2012 Regional Fisheries Surveys as waterbodies frequented by local recreational fishers (Section 5.1).

Overall, abundance CPUE was highest in Long Lake, with 28.50 fish/net-night, while biomass CPUE was highest in Pike Lake North, with 1,035.85 grams/net-night (Table 5-29). Lake chub were the most abundant species observed during 2023 with 203 observed (Figure 5-20), while white sucker yielded the most biomass with 12,408.4g caught (Figure 5-21). Long Lake had the highest abundance CPUE (28.5 fish/net-night) of the waterbodies sampled in 2023, while Pike Lake North had the highest biomass CPUE (1,035.85 g/net-night).

Tended gillnets were deployed in each waterbody sampled in 2023 for 15 to 20-minute sets. There were no fish captured in Long Lake or Riordan Lake with tended gillnets. A total of two round whitefish were captured in Mills Lake. Seven lake whitefish and four white suckers were captured in Pike Lake North.

Table 5-32: Summary of 2023 Fyke Net Catch-Per-Unit-Effort in Long Lake, Mills Lake, Pike Lake North and Riordan Lake

Waterbody	Species	Abundance		Biomass	
		Total Catch	CPUE (fish/net-night)	Total Catch (g)	CPUE (grams/net-night)
Long Lake	Burbot	4	0.40	41.0	4.10
	Lake chub	36	3.60	246.2	24.62
	Longnose sucker	111	11.10	1,520.6	152.06
	Round whitefish	1	0.10	2.5	0.25
	Sculpin	9	0.90	14.6	1.46
	White sucker	124	12.40	1,688.7	169.87
	Total	285	28.50	3,513.6	351.36
Mills Lake	Brook trout	3	0.3	715.7	71.57
	Burbot	12	1.2	1,095.60	109.56
	Lake chub	35	3.50	155.7	15.57
	Longnose dace	3	0.30	11.3	1.13
	Longnose sucker	81	8.10	1,911.8	191.18
	Sculpin	30	3.00	69.0	6.90
	Total	164	16.4	3,959.1	395.91
Pike Lake North	Burbot	3	0.30	30.8	3.08
	Lake chub	1	0.10	8.3	0.83
	Northern pike	11	1.10	67.9	6.79
	Sculpin	8	0.80	10.8	1.08
	White sucker	31	3.10	10,240.7	1,024.07
	Total	54	5.40	10,358.5	1,035.85
Riordan Lake	Brook trout	1	0.20	2.6	0.52
	Burbot	11	2.20	644.7	128.94
	Lake chub	56	11.20	485.2	97.05
	Longnose dace	6	1.20	34.7	6.94
	Longnose sucker	2	0.40	285.5	57.10
	Sculpin	1	0.20	4.4	0.88
	White sucker	4	0.80	479.0	95.80
	Total	81	16.20	1,936.1	387.23

Figure 5–20: 2023 Fyke Net Abundance Catch-Per-Unit-Effort (Fish/Net-Night) in Long Lake, Mills Lake, Pike Lake North and Riordan Lake

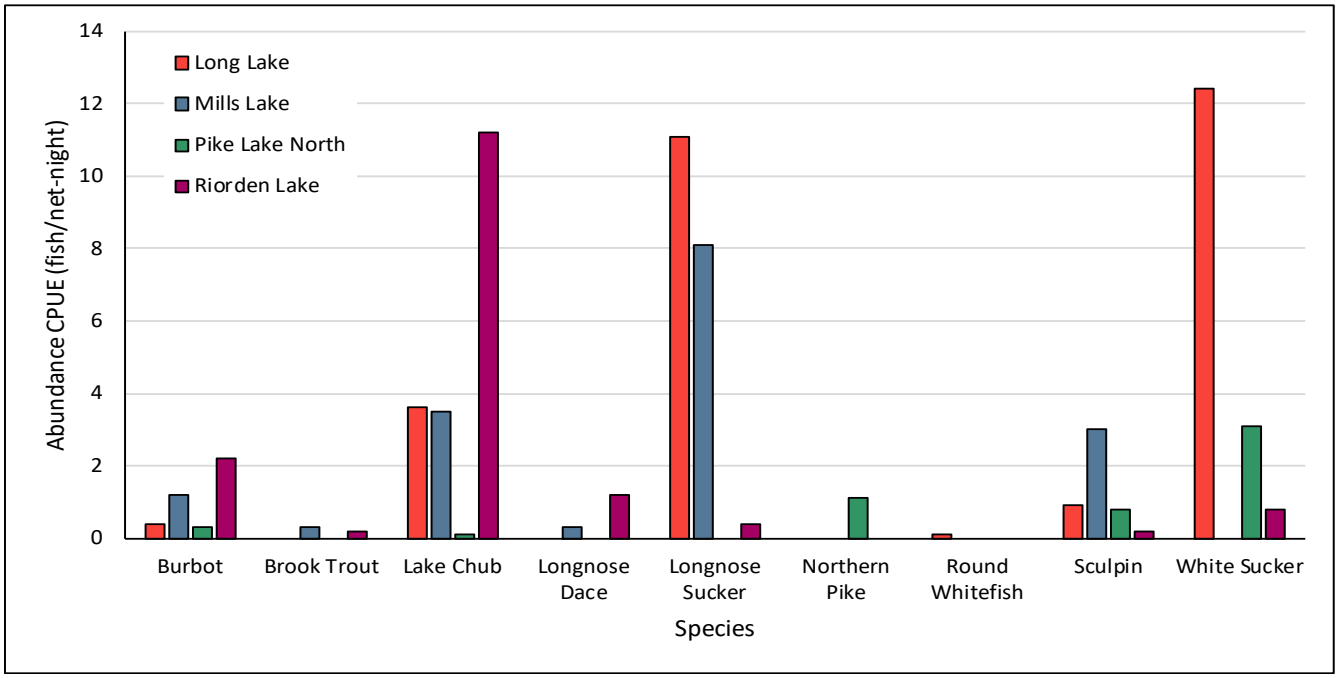
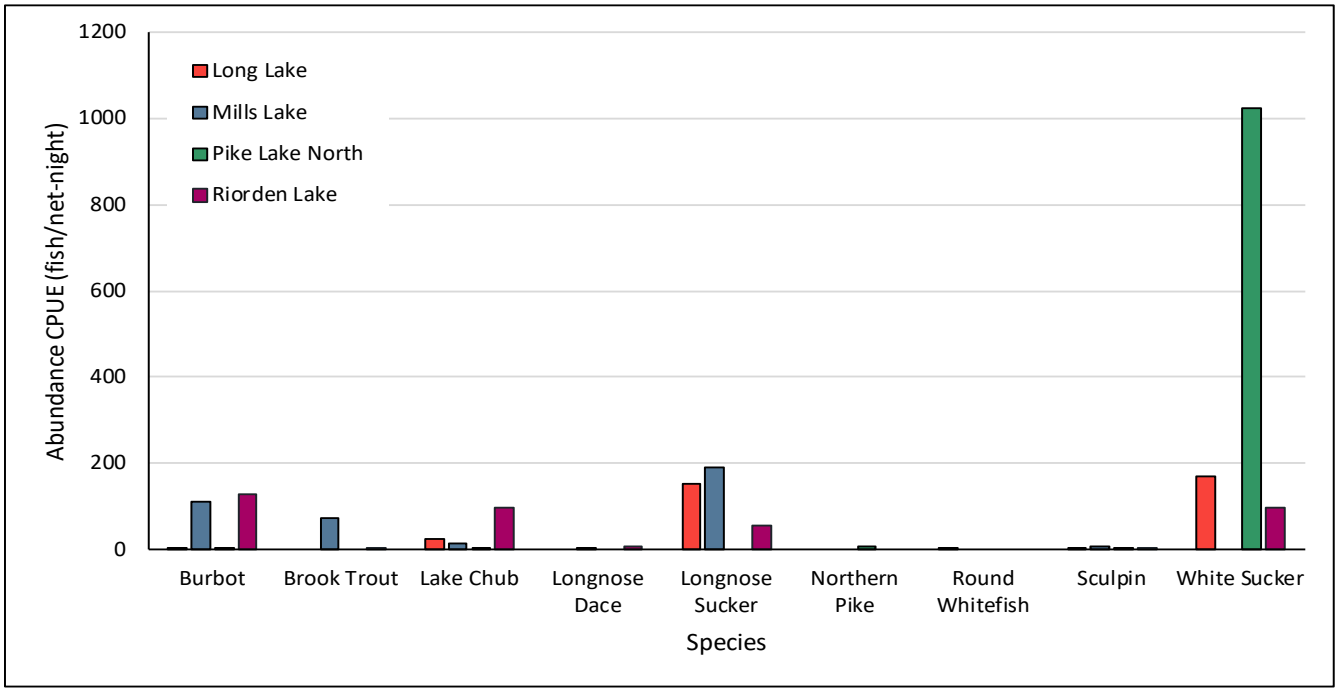


Figure 5–21: Fyke net biomass CPUE (grams/net-night) in Long Lake, Mills Lake, Pike Lake North and Riordan Lake, 2023



5.6.4 2024 Lacustrine Fish Surveys

While formal lacustrine fish surveys were not included in the 2024 sampling program, the collection of fish samples from Long Lake was included as part of the Country Foods assessment. Sample collection was completed using fyke nets and angling. A total of four net-nights were completed along the western portion of Long Lake, which resulted in no fish being captured. Angling was completed along the eastern side of Long Lake, based on recommendations of local recreational fishers, which resulted in the collection of lake trout and northern pike. Neither species had been captured in Long Lake during previous baseline sampling programs for the Kami Mine.

6.0 KEY FINDINGS AND RECOMMENDATIONS

In 2023 and 2024, field surveys were conducted to collect fish and fish habitat data about the newest proposed infrastructure for the Kami Project and potential offset locations. Between these two years, 18 lakes and 6 streams were visited for fish habitat assessment and fish surveys (fish community surveys and abundance). Brook trout, burbot, lake chub, longnose dace, longnose sucker, northern pike, round whitefish, sculpin sp. and white sucker were caught in lakes in 2023. Brook trout, burbot, lake chub, longnose dace, longnose sucker, sculpin sp. and white sucker were caught in Long Lake Outflow, the only stream surveyed for fish community in 2023. The species observed during the 2024 surveys included brook trout, lake chub, longnose sucker, sculpin, pearl dace, and burbot.

The 2023 and 2024 data were combined with the data collected in 2011 by Stantec and 2012 by AMEC and presented in previous sections. Overall, 18 ponds/lakes and 23 streams were surveyed for fish habitat assessment within the study area, and 37 streams were surveyed for fish community and abundance between 2011 and 2024.

Data collection during 2024 was focused on fish and fish habitat surveys for stream crossings associated with the proposed access road and rail line. It is recognized that additional information related to habitat quality is being collected by other programs and includes:

- Sampling of tissue body burden for any heavy metal from areas downstream or adjacent to the Project.
- Additional water quality sampling, including chlorophyll analysis.
- Benthic macroinvertebrate sampling in riverine stations throughout the Project Area.

It is recommended that a select number of sites from the 2011 and 2012 surveys be revisited in 2025 to validate and supplement a subsection of the previous fish presence and population data to quantify any changes that may have occurred. It is recommended that Rose Pit Pond and several reaches of the Pike Lake system be resurveyed for fish and fish habitat.

Potential effects to fish and fish habitat from the proposed Project will be further examined in the EIS, following the requirements of the Environmental Impact Statement Guidelines (Newfoundland and Labrador Department of Environment and Climate Change, December 2024). The Guidelines outline the relevant EIS requirements for the assessment of effects to fish and fish habitat, including but not limited to requirements for the baseline study, effects assessment, and environmental protection mitigation and plans. This baseline report addresses Section 4.3.2 (c) of the EIS Guidelines to document baseline conditions for fish and fish habitat in the Project study area. The baseline data will be used to assess effects from the Project and to prepare an offsetting plan to compensate for the potential impacts of the Project by maintaining or improving the productivity in the proposed offsetting area. As noted above, follow up surveys are recommended in 2025 to validate and update previous fish

presence and population data. Champion is committed to completing the follow up surveys in 2025; however, results from these surveys will not be available at the time of submission of the EIS. Results from these surveys will be shared with the Newfoundland and Labrador Department of Environment and Climate Change once complete.

The EIS will also include an Erosion and Sediment Control Plan (ESCP) to describe the methods and devices implemented to minimize erosion and sediment loss from the site as a result of clearing and soil disturbing activities throughout all phases of construction, operation and maintenance, decommissioning and rehabilitation. The ESCP will be prepared following the erosion and sedimentation control techniques described in Section 3.1 of the Best Management Practices for the Protection of Freshwater Fish Habitat in Newfoundland and Labrador (DFO 2022).

Signature Page

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https://wsponlinecan.sharepoint.com/sites/ca-kamieaca00030925894/technical disciplines/04_fish and fish habitat/01_baseline/2024_updated baseline/rev 2/ca00030925894-r-rev2-draft_fish_fish_habitat_baseline_2024_clean_dfo_comments.docx

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APPENDIX A

Riverine Habitat Survey Data

Site	Sampling Sub-section	Distance (m)	Stream Width	Velocity (m/s)			Depth (cm)			Substrate Composition (%)							Aquatic Vegetation (%)	Riparian			Comment
				25%	50%	75%	25%	50%	75%	BR	B	R	C	G	S	F		S	G	T	
		0	15.4	1.46	0.569	0.048	18	21	10												
		25	6	0.86	1.203	0.259	46	24	28												
SC01	0 to 50	50	6.6	0.156	1.656	0.287	14	46	14	0	10	50	30	10	0	0	0	5	35	60	Survey area begins under pond habitat and transitions into a rapid/riffle area.
		50	6.6	0.156	1.656	0.287	14	46	14												
		75	6.7	0.16	1.017	0.458	46	58	28												
SC01	50 to 100	100	17	0.084	0.214	0.136	26	48	69	0	20	35	15	5	25	0	0	15	15	70	Flow type is rapids that transitions into wide run.
		100	17	0.084	0.214	0.136	26	48	69												
		125	18.5	0.127	0.136	0.129	86	68	38												
SC01	100 to 150	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	15	5	5	5	70	0	0	20	20	60	Habitat is wide run to steady transitioning into pond habitat.
		0	33	0.064	0.094	0	48	90	82												
		25	33	0.108	0.131	0.099	45	72	88												
SC02	0 to 50	50	23	0	0.023	0.018	24	58	118	0	5	0	10	10	70	5	5	15	60	25	Habitat transitions from lake habitat to stream like at constriction point and peninsula area.
		50	23	0	0.023	0.018	24	58	118												
		75	21	0.109	0.1	0.065	66	162	105												
SC02	50 to 100	100	23	0.062	0.113	0.3	48	85	127	0	5	0	5	15	70	5	5	30	55	15	Stream like habitat continues on the eastern shoreline and transitions into lake habitat on western portion influenced by peninsula and delta area.
		0	1.8	0.077	0.121	0	24	24	22												
		25	0.8	0.042	0.025	0.119	28	20	10												
SC03	0 to 50	50	1.2	0	0.135	0.066	12	6	16	20	30	20	0	10	20	0	5	30	65	5	Flow type is narrow steady transitioning into mostly riffle with a few runs and small chutes. Steep banks with some undercuts.
		50	1.2	0	0.135	0.066	12	6	16												
		75	2.1	0.026	0.104	0.054	16	16	12												
SC03	50 to 100	100	1.5	0	0.064	0	17	31	28	0	40	0	0	30	30	0	0	30	45	20	Flow type is slow runs divided by riffles.
		100	1.5	0	0.064	0	17	31	28												
		125	0.4	0.987	0	0	15	14	8												
SC03	100 to 150	150	0.7	0.491	0.466	0	6	18	13	0	30	20	0	30	20	0	5	50	45	5	Flow type is riffle / run with a few small pools. Steep, mossy banks with a lot of overhanging vegetation.
		150	0.7	0.491	0.466	0	6	18	13												
		175	0.8	0.061	0.131	0.301	20	16	18												
SC03	150 to 200	200	1	0	0.029	0	26	26	31	0	20	40	0	30	10	0	0	45	45	10	Channel narrow and heavily meandering with steep banks.
		0	3.1	0.075	0.142	0.318	60	65	62												
		25	3.3	0.541	0.297	0.194	34	38	29												
SC04	0 to 50	50	3.2	0.425	0.107	0.654	20	44	34	0	30	20	20	10	20	0	0	60	0	40	Flow type is slow deep runs separated by riffles.
		50	3.2	0.425	0.107	0.654	20	44	34												
		75	3.4	0.247	0.168	0.435	38	45	18												
SC04	50 to 100	100	2.7	0.203	0.099	0.839	25	35	40	0	20	30	20	15	15	0	0	40	0	60	Flow type is runs separated by short riffles.
		100	2.7	0.203	0.099	0.839	25	35	40												
		125	3.9	0.486	0.235	0.373	22	25	22												
SC04	100 to 150	150	3.4	0.449	0.333	0.306	32	44	23	0	25	30	15	10	20	0	0	45	10	45	Flow type is riffle / run.
		150	3.4	0.449	0.333	0.306	32	44	23												
		175	2.9	0.138	0.297	0.387	46	37	32												
SC04	150 to 200	200	3.6	0.379	0.209	0.206	39	38	34	0	10	20	30	20	20	0	0	40	20	40	Deep slow flat with intermittent riffles. Stream enters a wide open recent burn area.
		200	3.6	0.379	0.209	0.206	39	38	34												
		225	5.2	0.134	0.164	0.297	46	54	34												
SC04	200 to 250	250	2.5	0.19	0.345	0.283	40	62	72	0	10	25	25	20	20	0	0	40	40	20	Deep slow flat with intermittent riffles.
		250	2.5	0.19	0.345	0.283	40	62	72												
		275	3.4	0.162	0.317	0.394	35	20	39												
SC04	250 to 300	300	3.1	0.131	0.18	0.11	80	88	95	0	10	30	20	20	20	0	0	40	60	0	Runs with intermittent riffles.
		300	3.1	0.131	0.18	0.11	80	88	95												
		325	2.4	0.263	0.266	0.385	52	45	30												
SC04	300 to 350	350	2.4	0.268	0.414	0.164	26	44	48	10	10	30	30	10	10	0	0	40	60	0	Deep slow flat with intermittent riffles.
		350	2.4	0.263	0.266	0.385	52	45	30												
		375	4.9	0.24	0.23	0.18	42	50	45												
SC04	350 to 400	400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	20	20	20	20	20	0	0	30	55	15	Deep slow flat with intermittent riffles.
		0	2.9	0.029	0.047	0.021	24	26	26												
		25	2.7	0.028	0.035	0.055	28	14	12												
SC05	0 to 50	50	3.6	0	0.014	0.019	40	36	32	0	35	20	20	25	0	0	0	80	15	5	Flow type flats /pools separated by short riffles.
		50	3.6	0	0.014	0.019	40	36	32												
		75	2.2	0.077	0.102	0.131	14	12	12												
SC05	50 to 100	100	2.4	0.02	0	0	20	20	20	0	25	25	25	25	0	0	0	75	15	10	Flow type is long flat separated by short boulder /rubble riffles.
		100	2.4	0.02	0	0	20	20	20												
		125	3.5	0.03	0.04	0	26	32	20												
SC05	100 to 150	150	2.1	0.038	0.015	0.007	26	16	11	0	30	30	25	15	0	0	10	70	15	15	Flow type is flat /riffle. Some emergent vegetation along bank margins.
		150	2.1	0.038	0.015	0	26	16	11												
		175	2.7	0.461	0.216	0.122	6	4	6												
SC05	150 to 200	200	3.6	0	0.455	0	10	12	10	0	30	30	20	20	0	0	0	65	25	10	Flow type is riffle or riffle /run. Steep banks with some deep undercuts.
		0	3	0.065	0.13	0.186	54	56	60												
		25	3.2	0.322	0.84	0.352	14	30	22												
SC06	0 to 50	50	3	0.576	0.738	0.086	20	31	8	0	5	15	50	20	10	0	0	40	15	45	Flow type is steep riffle becoming moderately fast run.
		50	3	0.576	0.738	0.086	20	31	8												
		75	3.1	0.188	1.044	0	8	28	16												
SC06	50 to 100	100	3.8	0.663	0.91	0.37	14	16	10	0	5	15	40	35	5	0	0	40	10	50	Flow type is mostly riffle with some drops over fallen woody debris.
		100	4	0.175	1.101	0.061	20	14	16												
		125	2.8	0.156	0.342	0.09	26	24	14												
SC06	100 to 150	150	3	0.498	0.779	0.27	10	10	14	0	90	0	5	5	0	0	0	0	60	40	Rapidly varied-non uniform flow along the channel with steep sections.
		150	3	0.498	0.779	0.27	10	10	14												
		175	2.2	0.83	0.215	0.03	36	38	26												
SC06	150 to 200	200	1	0.748	0.673	0.528	34	34	36	0	50	0	25	15	10	0	0	0	90	10	Rapidly varied-non uniform flow along the channel, large boulders and debris present.
		200	1	0.748	0.673	0.528	34	34	36												
		225	3.4	0.708	0.06	0.06	25	25	18												
SC06	200 to 250	250	1.5	0.458	1.113	1.07	25	32	32	0	60	0	30	10	0	0	0	70	20	10	Predominant flow regime comprised of pools and riffles.
		250	1.5	0.458	1.113	1.07	25	32	32												
		275	4	0.134	0.165	0.01	62	48	37												
SC06	250 to 300	300	3	0.227	0.455	0.377	16	20	20	0	100	0	0	0	0	0	0	75	20	5	Predominant flow regime comprised of pools and riffles.
		300	3	0.227	0.455	0.377	16	20	20												
		325	3.8	0.706	0.298	0.162	16	18	14												
SC06	300 to 350	350	3.5	0.106	0.348	0.177	14	28	20	0	100	0	0	0	0	0	0	80	10	10	Predominant flow regime comprised of pools and riffles with wider channel sections.
		350	3.5	0.106	0.348	0.177	14	28	20												
		375	5	0.222	0.157	0.129	30	22	16												
SC06	350 to 400	400	5	0.257	0.278	0.499	16	14	10	0	95	0	0	5	0	0	0	70	20	10	Predominant flow regime comprised of pools and riffles with wider channel sections.
		0	2.1	0.05	0.04	0.012	27	24	16												
		25	2	0.115	0.03	0.028	8	10	12												
SC07	0 to 50	50	0.8	0.161	0.089	0.069	10	12	14	0	10	30	20	20	20	0	5	35	55	10	Flow type is slow run / flat with some riffles. Deep undercut banks. Flows through black spruce moss forest.
		50	0.8	0.161	0.089	0.069	10	12	14												
		75	2.3	0.088	0.044	0.155	20	20	10												
SC07	50 to 100	100	1.1	0.155	0.125	0.187	8	10	9	0	30	20	30	15	5	0	0	15	70	15	Flow type is slow run / flat with some riffles. Deep undercut banks. Flows through black spruce moss forest.
		100	1.1	0.155	0.125	0.187	8	10	9												
		125	2.5	0.074	0	0.2	14	6	6												
SC07	100 to 150	150	1.3	0.347	0.038	0.001	18	14	8	0	20	30	20	10	20	0	0	45	45	10	Flow type is slow run / flat with some riffles. Deep undercut banks. Flows through black spruce moss forest.
		150	1.3	0.347	0.038	0	18	14	8												
		175	1.7	0.013	0.104	0.275	20	24	22												
SC07	150 to 200	200	2	0.14	0.105	0.103	10	12	15	0	15	30	20	10	25	0	5	40	40	20	Flow type is slow run / flat with some riffles. Deep undercut banks. Stream narrows in places with undercut banks and some underground flow.
		200	2	0.14	0.105	0.103	10	12	15												
		225	1.3	0.065	0.031	0.044	28	33	20												
SC07	200 to 250	250	1.9	0.067	0	0	25	29	24	0	30	10	0	0	60	0	0	20	75	5	Flow type is slow run / flat with some riffles. Deep undercut banks. Flows through black spruce moss forest.
		250	1.9	0.067	0	0	25	29	24												
		275	1.6	0.042	0.035	0.023	31	44	42												
SC07	250 to 300	300	1.5	0.047	0.136	0.051	27	44	30	0	10	20	20	0	0	50	15	45	45	10	Flow type is slow run / flat with some riffles. Deep undercut banks. Flows through black spruce moss forest.
		300	1.5	0.047	0.136	0.051	27	44	30												
		325	2.2	0.064	0	0.061	27	31	24												
SC07	300 to 350	350	1.4	0.126	0	0.062	21	9	14	0	20	10	0	0	0	70	20	60	15	25	Flow type is slow run / flat with some riffles. Deep undercut banks. Flows through black spruce moss forest.

Site	Sampling Sub-section	Distance (m)	Stream Width	Velocity (m/s)			Depth (cm)			Substrate Composition (%)							Aquatic Vegetation (%)	Riparian			Comment
				25%	50%	75%	25%	50%	75%	BR	B	R	C	G	S	F		S	G	T	
		0	0.5	0.323	0.187	0.021	12	10	10												
		25	0.6	0.097	0.146	0.034	32	28	22												
SC08	0 to 50	50	0.7	0.117	0.065	0.175	20	20	20	0	0	0	60	10	30	0	0	0	0	100	Flow is steady running on dense vegetation\alders.
		50	0.7	0.117	0.065	0.175	20	20	20												
		75	0.9	0.037	0.193	0.085	14	12	12												
SC08	50 to 100	100	1.2	0.073	0.03	0.089	20	18	18	0	10	0	0	0	70	20	0	0	0	100	Flow is steady running on dense vegetation\alders.
		100	1.2	0.073	0.03	0.089	20	18	18												
		125	0.8	0.133	0.295	0.048	16	18	11												
SC08	100 to 150	150	0.6	0.091	0.141	0	22	25	25	0	0	0	0	0	90	10	0	30	45	25	Flow is steady running on dense vegetation\alders.
		150	0.6	0.091	0.141	0	22	25	25												
		175	0.6	0.183	0.121	0.01	13	14	12												
SC08	150 to 200	200	0.7	0.098	0.207	0.146	5	4	4	0	60	0	0	0	40	0	0	50	45	5	Flow is steady with dense vegetation\grass on banks.
		200	0.7	0.098	0.207	0.146	5	4	4												
		225	0.5	0.106	0.078	0.208	14	8	10												
SC08	200 to 250	250	0.6	0.058	0.058	0	10	10	12	0	60	0	0	0	40	0	0	50	45	5	Flow is steady with dense vegetation\grass on banks.
		250	0.6	0.058	0.058	0	10	10	12												
		275	0.2	0.163	0.147	0	14	14	12												
SC08	250 to 300	300	0.7	0.233	0.244	0.093	15	14	12	0	0	0	0	0	50	50	0	50	45	5	Flow is steady with dense vegetation\grass on banks.
		300	0.7	0.233	0.244	0.093	15	14	12												
		325	1	0.11	0.331	0.074	8	12	16												
SC08	300 to 350	350	0.6	0.125	0.116	0	12	14	8	0	0	0	0	0	80	20	0	35	40	25	Flow is steady with dense vegetation\grass on banks.
		350	0.6	0.125	0.116	0	12	14	8												
		375	0.5	0.126	0.131	0.131	20	18	14												
SC08	350 to 400	400	0.4	0.229	0.288	0.156	8	9	9	0	0	0	0	0	60	40	0	20	40	40	Flow is steady with dense vegetation\grass on banks.
		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
		25	23	0.586	0.014	0.32	32	20	40												
SC09	0 to 50	50	11.9	0	0.819	0.492	46	46	50	0	30	30	25	15	0	0	0	80	5	15	Bottom 25m too deep to wade. Flow type is rapids (fast and wide river).
		50	11.9	0	0.819	0.492	46	46	50												
		75	10	1.311	0.109	0.48	40	34	N/A												Flow type is fast wide rapids. Far side of river (last 3m left downstream
SC09	50 to 100	100	10.8	1.021	1.012	1.031	44	58	34	0	35	25	25	15	0	0	0	90	0	10	bank) across too fast to safely wade.
		100	10.8	1.021	1.012	1.031	44	58	34												
		125	15.1	1.45	0.984	0	40	22	12												
SC09	100 to 150	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	40	30	30	0	0	0	0	90	5	5	Flow type is fast, wide rapids. 50 m upstream falls on existing roadway.
		150	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
		175	22.5	0	0.521	0.38	30	80	70												
SC09	150 to 200	200	15.1	0.852	0.604	0.753	50	50	52	0	15	20	20	15	30	0	0	95	0	5	Flow type is run with riffle / rapids at top end.
		0	1.8	0.051	0.039	0	94	90	80												
		25	2.1	0.055	0.03/0.01	0	97	1	1												
SC10	0 to 50	50	2.3	0.053	0.037	0.024	78	92	98	0	0	0	0	0	0	100	15	10	85	5	Flow type is slow moving flat / steady through wide bog area.
		50	2.3	0.053	0.037	0.024	78	92	98												
		75	2.6	0	0.00/0.06	0	98	1	92												
SC10	50 to 100	100	2.3	0.046	0.036	0.025	96	86	85	0	0	0	0	0	0	100	20	5	95	0	Flow type is slow moving flat / steady through wide bog area.
		100	2.3	0.046	0.036	0.025	96	86	85												
		125	1.7	0.093	0.085	0.019	81	70	69												
SC10	100 to 150	150	2.5	0.043	0.038	0.033	78	80	80	0	0	0	0	0	0	100	20	5	90	5	Flow type is slow moving flat / steady through wide bog area.
		150	2.5	0.043	0.038	0.033	78	80	80												
		175	1.8	0.075	0.075	0.059	90	90	86												
SC10	150 to 200	200	2.8	0.049	0.049	0.053	67	63	61	0	0	0	0	0	0	100	15	5	95	0	Flow type is slow moving flat / steady through wide bog area.
		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
		25	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RP1-PLS	0 to 50	50	2.4	0.264	0.411	0.199	27	40	36	0	30	15	10	0	0	45	15	50	50	0	Flow type is riffle becoming deep run / steady.
		50	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
		75	4.1	0.131	0.449	0.2	20	16	18												
RP1-PLS	50 to 100	100	2.5	0.159	0.089	0.58	20	30	26	0	30	50	20	0	0	0	5	70	30	0	Flow type is fast moving riffle.
		100	2.5	0.159	0.089	0.58	20	30	26												
		125	N/A	N/A	N/A	N/A	N/A	N/A	N/A												Log jam at 320 m downstream. Flow type changes from marsh / pool to
RP1-PLS	100 to 150	150	N/A	0	N/A	N/A	80	N/A	N/A	0	0	15	15	10	0	60	40	20	80	0	riffle / run below log jam.
		150	N/A	0	N/A	N/A	80	N/A	N/A												
		175	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RP1-PLS	150 to 200	200	N/A	0.005	N/A	N/A	90	N/A	N/A	0	0	0	0	0	0	100	20	10	90	0	Flow type is pond / marsh area. Beaver dam at bottom end.
		200	N/A	0.005	N/A	N/A	90	N/A	N/A												
		225	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RP1-PLS	200 to 250	250	N/A	0	N/A	N/A	95	N/A	N/A	0	0	0	0	0	0	100	10	10	90	0	Flow type is pond / marsh area.
		250	N/A	0	N/A	N/A	95	N/A	N/A												
		275	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RP1-PLS	250 to 300	300	N/A	0.085	N/A	N/A	85	N/A	N/A	0	0	0	0	0	0	100	10	10	90	0	Flow type is steady through marsh area.
		300	N/A	0.085	N/A	N/A	85	N/A	N/A												
		325	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RP1-PLS	300 to 350	350	N/A	0.03	N/A	N/A	80	N/A	N/A	0	30	10	0	0	0	60	10	10	90	0	Flow type is steady through marsh area.
		350	N/A	0.03	N/A	N/A	80	N/A	N/A												
		375	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RP1-PLS	350 to 400	400	N/A	0	0.054	N/A	70	60	N/A	0	30	10	0	0	0	60	20	10	90	0	Flow type is steady through marsh area.
		400	N/A	0	0.054	N/A	70	60	N/A												
		425	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RP1-PLS	400 to 450	450	4.2	0.038	0.052	0.053	81	82	68	0	30	10	0	0	0	60	10	10	90	0	Flow type is steady through marsh area.
		0	4.9	0.033	0.046	0.041	44	44	44												
		25	3.2	0.072	0.062	0.026	80	70	52												
RP2-RP1	0 to 50	50	3.6	0.053	0	0.012	74	80	68	0	0	0	0	0	0	100	0	50	50	0	Flow type is flat. Lake effect at bottom end of site.
		50	3.6	0.053	0	0.012	74	80	68												
		75	2.7	0.025	0.043	0.029	54	50	44												
RP2-RP1	50 to 100	100	2	0.185	0.059	0.164	18	20	18	0	0	15	15	0	0	70	0	35	60	5	Flow type is slow run.
		100	2	0.185	0.059	0.164	18	20	18												
		125	1.4	0	0.199	0.142	26	24	26												
RP2-RP1	100 to 150	150	1.9	0.029	0.078	0.128	60	64	36	0	15	15		0	0	70	0	40	55	5	Flow type is run and pool with some riffle.
		150	1.9	0.029	0.078	0.128	60	64	36												
		175	3.7	0.047	0.056	0.188	18	38	24												
RP2-RP1	150 to 200	200	2.1	0.087	0.056	0.019	34	28	18	0	0	5	20	0	0	75	0	40	50	10	Undercut banks, deeper pools and runs with steep banks. Some riffle.
		200	2.1	0.087	0.056	0.019	34	28	18												
		225	2	0.127	0.034	0.05	28	34	18												Flow predominantly underground and braided. Flow type is riffle, run
RP2-RP1	200 to 250	250	1	NA	NA	NA	2	2	2	0	0	30	20	0	0	50	0	55	40	5	and pool when above ground.
		250	1	NA	NA	NA	2	2	2												
		275	0.8	NA	NA	NA	2	2	2												
RP2-RP1	250 to 300	300	1.5	NA	NA	NA	2	2	2	0	5	5	0	0	0	90	0	60	35	5	Most of stream section is underground. Above ground sections are too shallow for stream flows.
		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
		25	3.9	0.03	0.019	0	58	50	30												
RP3-RP2	0 to 50	50	1.1	0.038	0.047	0.021	16	22	32	0	0	0	0	0	0	100	0	25	65	10	Becomes marsh-like. Downstream of 275 m is under lake effect.
		50	1.1	0.038	0.047	0.021	16	22	32												
		75	0.9	0.154	0.32	N/A	10	10	N/A												
RP3-RP2	50 to 100	100	2.6	0.078	0.052	0.018	20	20	14	0	0	20	30	40	0	10	0	50	40	10	Flow type is run / chute with three small pools.
		100	2.6	0.078	0.052	0.018	20	20	14												
		125	1.1	0.095	0	0.37	6	6	10												
RP3-RP2	100 to 150	150	1.8	0.01	0.153	0.059	10	10	10	0	0	10	50	20	0	20	0	50	45	5	Flow type is riffle / run or cascade / run with a few small pools.
		150	1.8	0.01	0.153	0.059	10	10	10												
		175	0.9	0.046	0.038	0.033	16	16	18												
RP3-RP2	150 to 200	200	0.8	0.218	0	0.089	8	9	4	0	40	30	0	10	20	0	0	45	45	10	Flow type is riffle / run with a few small pools.
		200	0.8	0.218	0	0.089	8	9	4												
		225	1.9	0.03	0	0.35	22	22	14												Flow type is slow run, with a few riffle/cascades and small pools.
RP3-RP2	200 to 250	250	2	0	0.015	0.032	10	20	10	0	10	10	0	0	0	80	0	65	30	5	Channel goes underground at end of section at times.

Site	Sampling Sub-section	Distance (m)	Stream Width	Velocity (m/s)			Depth (cm)			Substrate Composition (%)							Aquatic Vegetation (%)	Riparian			Comment
				25%	50%	75%	25%	50%	75%	BR	B	R	C	G	S	F		S	G	T	
		250	2	0	0.015	0.032	10	20	10												
		275	NA	N/A	N/A	N/A	N/A	N/A	N/A												
RP3-RP2	250 to 300	300	3.4	0	0.586	0	46	44	42	0	10	10	0	0	0	80	0	55	5	40	Old beaver dam at outflow of RP03. Stream divided into series of small, slow channels.
		0	2.6	0.03	0.013	0.022	58	58	40												
		25	1.4	0.179	0.074	0	22	28	24												
RP5-RP4	0 to 50	50	2.1	0.251	0	0	8	10	9	0	0	0	0	0	0	100	30	45	50	5	Flow type is run / flat. Below 75 m becomes wide, slow, marsh area with extensive emergent aquatic vegetation.
		50	2.1	0.251	0	0	8	10	9												
		75	1.9	0.035	0.065	0	14	6	12												
RP5-RP4	50 to 100	100	1.9	0.021	0.018	0	18	10	12	0	20	25	50	0	0	5	0	55	25	20	Flow type is riffle / run with a few pools. Channel heavily overgrown with shrubs and goes underground at times.
		0	1.1	0.072	0.061	0.059	10	14	16												
		25	0.9	0.246	0.111	0.145	20	20	20												
RP4-RP2	0 to 50	50	0.7	0.302	0.049	0.086	28	26	30	0	0	0	0	15	50	35	0	70	20	10	Stream slows and widens at inflow to RP03.
		50	0.7	0.302	0.049	0.086	28	26	30												
		75	1.1	0.347	0.275	0	12	14	12												
RP4-RP2	50 to 100	100	0.5	0.331	0.13	0.073	6	10	10	0	0	10	10	0	80	0	0	60	5	35	Flow type is run with the occasional small drop. Channel is narrow with steep undercut banks. Channel goes underground at times.
		100	0.5	0.331	0.13	0.073	6	10	10												
		125	1.4	0	0	0	24	12	20												
RP4-RP2	100 to 150	150	0.8	0.419	0.34	0	10	10	3	0	0	40	45	15	0	0	0	60	25	15	Flow type is run or chute / run. Stream underground for ~30m of section.
		150	0.8	0.419	0.34	0	10	10	3												
		175	0.9	0	0.086	0.334	32	34	28												
RP4-RP2	150 to 200	200	0.5	0.45	0.046	0	20	16	14	0	0	20	40	20	20	0	0	80	15	5	Flow type is drop / run or run, with a small (~15m) underground section.
		200	0.5	0.45	0.046	0.001	20	16	14												
		225	1.4	0	0.184	0.124	18	24	20												
RP4-RP2	200 to 250	250	0.8	0.113	0.24	0.252	26	34	16	0	0	40	30	20	0	10	0	95	5	0	Flow type is Cascade or drop / run. Channel overgrown with shrubs.
		250	0.8	0.113	0.24	0.252	26	34	16												
		275	1.1	0.049	0.019	0.057	24	24	20												
RP4-RP2	250 to 300	300	2	0.036	0.092	0.016	20	24	22	0	0	30	35	20	15	0	0	80	15	5	Flow type is Cascade or drop / run. Channel overgrown with shrubs.
		300	2	0.036	0.092	0.016	20	24	22												
		325	1.1	0.054	0	0	12	18	14												
RP4-RP2	300 to 350	350	1.3	0.532	0.464	0.042	10	10	8	0	0	25	55	10	10	0	0	85	15	0	Flow type is riffle / run or cascade / run. Channel overgrown with shrubs.
		350	1.3	0.532	0.464	0.042	10	10	8												
		375	0.4	0.077	0.15	0.407	12	15	14												
RP4-RP2	350 to 400	400	1.4	0.094	0.04	0.046	14	22	24	0	0	40	60	0	0	0	0	85	15	0	Stream resurfaces and comes together at ~150 m. Series of run / drop habitat overgrown with shrubs.
		400	1.4	0.094	0.04	0.046	14	22	24												
		425	0.9	0.01	0.09	0.014	20	18	20												
RP4-RP2	400 to 450	450	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	95	5	0	Channel underground for majority of section.
		450	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
		475	4.9	0	0	0	38	48	40												
RP4-RP2	450 to 500	500	1.95	0	0.149	N/A	20	4	N/A	0	0	0	0	0	0	100	0	90	10	0	Pond / marsh habitat. Beaver dam near bottom end of section, channel braided through shrubs below dam.
		500	1.95	0	0.149	N/A	20	4	N/A												
		525	4.2	0.013	0	0	40	40	36												
RP4-RP2	500 to 550	550	2.5	0	0.021	0	38	46	42	0	0	0	0	0	0	100	0	65	35	0	A series of marsh / pond habitats separated by old, small beaver dams.
		0	1.8	0	0	0	80	82	82												
		25	1.5	0.036	0.095	0.069	28	44	42												
RSD	0 to 50	50	1	0.096	0.119	0.077	35	37	37	0	0	0	0	0	10	90	0	55	40	5	Flow type is steady under lake effect.
		50	1	0.096	0.119	0.077	35	37	37												
		75	1.4	0.108	0.066	0	21	27	24												
RSD	50 to 100	100	1.2	0.012	0.208	0	20	25	24	0	0	0	0	0	0	100	0	85	5	10	Flow type is slow deep runs with pools.
		100	1.2	0.012	0.208	0	20	25	24												
		125	1.1	0.023	0.21	0	10	20	30												
RSD	100 to 150	150	1.3	0.068	0.174	0	24	15	10	0	0	0	0	0	0	100	0	75	25	0	Flow type is narrow slow run with some pools, flowing through burn area, with some underground flow.
		150	1.3	0.068	0.174	0	24	15	10												
		175	1.4	0.039	0.108	0.015	40	36	20												
RSD	150 to 200	200	1.2	0.193	0.134	0.105	14	16	18	0	20	20	0	30	30	0	0	85	0	15	Flow type is narrow slow run with some pools, flowing through burn area, with some underground flow.
		200	1.2	0.193	0.134	0.105	14	16	18												
		225	1	0.106	0.053	0	34	32	27												
RSD	200 to 250	250	0.7	0.132	0.135	0.127	20	24	24	0	30	0	0	0	40	30	0	75	15	10	Flow type is narrow slow run with some pools, flowing through burn area, with some underground flow.
		250	0.7	0.132	0.135	0.127	20	24	24												
		275	1	0.215	0.126	0	28	24	20												
RSD	250 to 300	300	0.3	0	0.084	0.097	30	26	22	0	30	0	0	0	50	20	0	90	10	0	Flow type is narrow slow run with some pools, flowing through burn area, with more underground flow.
		300	0.3	0	0.084	0.097	30	26	22												
		325	1.1	0.013	0.037	0.041	20	30	30												
RSD	300 to 350	350	0.8	0.322	0.685	0.673	10	4	5	0	40	30	0	0	30	0	0	90	10	0	Flow type is narrow slow run with some pools, flowing through burn area.
		350	0.8	0.322	0.685	0.673	10	4	5												
		375	0.9	0.022	0.151	0.132	30	28	46												
RSD	350 to 400	400	1.1	0	0.162	0.042	10	8	10	0	30	40	10	0	20	0	0	85	10	5	Flow type is runs and riffles separated by cascades and chutes. Channel narrowing in places.
		400	1.1	0	0.162	0.042	10	8	10												
		425	1	0.035	0.163	0.056	24	20	30												
RSD	400 to 450	450	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	40	30	0	30	0	0	75	10	15	Flow type is runs and riffles separated by cascades and chutes.
		450	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
		475	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RSD	450 to 500	500	0.8	0.266	0.128	0.178	12	20	22	0	0	30	0	0	30	40	0	80	15	5	Flow type is slow, shallow runs flowing underground in most places.
		500	0.8	0.266	0.128	0.178	12	20	22												
		525	0.6	0.084	0.054	0.011	45	44	39												
RSD	500 to 550	550	1.2	0.03	0.045	0.012	22	34	36	0	0	20	20	0	60	0	0	90	10	0	Flow type is slow moving runs and riffles.
		550	1.2	0.03	0.045	0.012	22	34	36												
		575	1.3	0.142	0.059	0.069	24	16	12												
RSD	550 to 600	600	1.5	0.047	0.053	0.161	26	22	20	0	20	30	30	0	20	0	0	85	5	10	Flow type is slow moving run with cascade / riffle or chute / run.
		600	1.5	0.047	0.053	0.161	26	22	20												
		625	2.1	0	0.309	0.239	16	10	12												
RSD	600 to 650	650	0.6	0.036	0.02	0	66	72	64	0	0	10	30	0	60	0	0	85	10	5	Flow type is slow runs and pools with intermittent riffles with some chute / runs.
		650	0.6	0.036	0.02	0	66	72	64												
		675	1.5	0.108	0.134	0	15	14	10												
RSD	650 to 700	700	1.9	0.163	0	0.078	10	10	12	0	0	20	20	20	40	0	0	85	10	5	Flow type is slow runs and pools with intermittent riffles.
		700	1.9	0.163	0	0.078	10	10	12												
		725	0.8	0.192	0.165	0.061	8	20	12												
RSD	700 to 750	750	1.7	0.153	0	0.051	20	18	22	0	0	15	40	30	15	0	0	85	10	5	Flow type is shallow riffle flowing through recent burned area with some underground flow.
		750	1.7	0.153	0	0.051	20	18	22												
		775	0.7	0.208	0.01	0	12	14	10												
RSD	750 to 800	800	0.7	0.097	0.045	0.01	24	28	28	0	5	15	30	30	20	0	0	85	10	5	Flow type is shallow riffle flowing through recent burned area with some underground flow.
		800	0.7	0.097	0.045	0.01	24	28	28												
		825	0.6	0.223	0.174	0.212	8	10	8												
RSD	800 to 850	850	1.2	0	0	0	14	16	18	0	0	20	40	40	0	0	0	95	0	5	Flow type is shallow riffle flowing through recent burned area with some underground flow.
		850	1.2	0	0	0	14	16	18												
		875	1.5	0.044	0.038	0.007	13	17	16												
RSD	850 to 900	900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	60	20	0	10	10	0	100	0	0	Flow type is shallow riffles with some underground flow. Stream flows through dense alders, and sometimes flowing underground.
		900	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
		925	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
RSD	900 to 950	950	1	0.178	0.019	0.019	8	10	10	0	0	20	30	0	20	30	0	80	10	10	Flow type is shallow riffles with some underground flow. Stream flows through dense alders, and sometimes flowing underground.
		950	1	0.178	0.019	0.019	8	10	10												
		975	0.5	0	0.136	0	10	12	10												
RSD	950 to 1000	1000	NA	NA	NA	NA	NA	NA	NA	0	0	40	50	0	10	0	0	40	15	45	Flow type is shallow riffles with some underground flow. Stream flows through dense alders, and sometimes flowing underground.
PLS-S1	0	0	7.4	0	0.012	0.337	20	12	8												Flow type is riffle. Channel becomes pond with boulder field below section.
PLS-S1	0 to 50	50	3.1	0.39	0.186	0.391	20	20	18	0	10	40	40	0	10	0	15	55	10	35	
PLS-S1	50 to 100	100	11.8	0.025	0.025	0.025	58	65	67	0	20	30	0	0	0	50	5	50	35	15	habitat along borders of channel.
PLS-S2	0 m	0 m	4.1	0.086	0.428	0.054	20	22	19	0	40	30	30	0	0	0	0				Downstream end of section 2 is 1.27km DS of PLS outflow. Flow type is rapids. High number of Lake Chub in stream section.
PLS-S2	0 to 50 m	50 m	3.5	0.517	0.26	0	26	40	26	0	40	30	30	0	0	0	0	50	30	20	
PLS-S2	50 to 100 m	100 m	4.6	0.605	0.355	0	22	20	26	0	60	40	0	0	0	0	0	40	40	20	Flow type is rapids. Fewer Lake Chub in this section.
PLS-S2	100 to 150 m	150 m	5	0.22	0.223	0.08	22	36	26	0	45	45	0	5	5	0	0	60	35	5	Flow type is run at top of section and riffle / rapids at bottom.

Site	Sampling Sub-section	Distance (m)	Stream Width	Velocity (m/s)			Depth (cm)			Substrate Composition (%)							Aquatic Vegetation (%)	Riparian			Comment
				25%	50%	75%	25%	50%	75%	BR	B	R	C	G	S	F		S	G	T	
PLS-S2	150 to 200 m	200 m	6.7	0.033	0.219	0.137	36	32	30	0	50	25	25	0	0	0	0	60	35	5	Flow type is flat / riffle.
PLS-S2	200 to 290 m	290 m	3.2	0	0	0	24	20	38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	NA	NA	NA	Pond habitat from 200 to 290 m upstream. Un-wadeable. Substrate Boulder / fines.
PLS-S2	290 to 340 m	340 m	4	0.041	0.015	0.023	68	60	26	0	80	20	0	0	0	0	15	60	35	5	Flow type is mostly flats with some short rapids between.
PLS-S2	340 to 390 m	390 m	2.7	0.092	0	0.05	18	26	10	0	80	20	0	0	0	0	20	60	35	5	Flow type is flat / run. Some water flowing through marsh-like borders of channel.
PLS-S2	390 to 420 m	420 m	4.8	0.004	0	0	52	48	36	0	50	20	0	0	0	30	20	45	45	10	Flow type is predominantly flats with a few short runs. Some flow through marsh-like borders of channel. High amount of aquatic vegetation in channel.
RND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No discernable channel. Drains wet area and flows underground majority of time.
TRIB1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No stream evident
PLN-S1	0	0	4.9	0.169	0.529	0.757	24	28	22	0	60	30	0	5	5	0	0	60	40	0	Section 1 begins at outflow of Pike Lake North. Flow type is riffle / run
PLN-S1	0 to 50	50	3.1	1.15	0.887	0	14	22	18	0	40	30	0	20	10	0	0	60	40	0	with a few log jams.
PLN-S1	50 to 100	100	0.4	0.116	0.422	0.396	48	64	28	0	40	30	10	10	10	0	0	60	40	0	Flow type is shallow runs with riffles between. Extensive blue-green algae on rocks.
PLN-S1	100 to 150	150	11.8	0.144	0.025	0.03	20	20	30	0	30	20	0	10	15	25	0	60	40	0	Flow type is shallow runs with riffles between. Extensive blue-green algae on rocks. A few log jams in section.
PLN-S1	150 to 200	200	7	0	0.987	0.226	26	30	20	0	50	30	15	5	0	0	0	55	35	10	Flow type is rapids with one large pool (10m by10m) in middle of section.
PLN-S1	200 to 250	250	6.1	0	0.851	0.342	30	20	32	0	70	30	0	0	0	0	0	60	40	0	Flow type is rapids or cascade / rapids. Blue-green algae and moss on rocks.
PLN-S1	250 to 300	300	3.5	0	0.163	0.904	18	32	18	0	65	20	0	10	5	0	0	60	35	5	Flow type is rapids / riffle with one large (25m by 20m) pool in middle with aquatic vegetation.
PLN-S1	300 to 350	350	6.9	0.226	0.539	0.152	18	22	16	0	60	30	0	5	5	0	0	60	35	5	Flow type is deep run with a few riffle sections. Fallen logs in channel.
PLN-S1	350 to 400	400	4.1	0.107	0.105	0.33	26	26	30	0	60	25	0	5	10	0	0	80	10	10	Flow type is shallow runs with riffles between. Extensive blue-green algae on rocks. A few log jams in section.
PLN-S1	400 to 425	425	4.5	0.315	0.426	0	12	26	30	0	60	25	0	5	10	0	0	80	10	10	Flow type is rapids with small pools.
PLN-S2	0	0	6.4	0.01	0.095	0.701	12	24	36	0	50	40	0	5	5	0	0				
PLN-S2	0 to 50	50	14	0	0.048	0.203	20	12	12	0	50	40	0	5	5	0	0	45	30	25	Small section of stream (Section 2) between two small ponds downstream of Pike Lake North. Flow type is rapids.
PLN-S3	0	0	4.1	0.44	0.895	0.59	26	26	44	0	10	5	40	30	15	0	0				type is predominately run with some riffles and a short rapid at inflow to
PLN-S3	0 to 50	50	5.4	0	0.805	0.792	24	34	34	0	10	5	40	30	15	0	0	80	5	15	Walsh R. Some fallen logs in channel and one log jam.
PLN-S3	50 to 100	100	5.5	0	0.826	0.634	10	30	22	0	20	25	30	20	5	0	0	90	0	10	Flow type is mostly rapids with a short run at bottom of section.
PLN-S3	100 to 125	125	6.9	0.365	0.518	0.582	26	24	20	0	15	25	25	25	10	0	0	90	0	10	Several culverts at top of section. Flow type is mostly riffle with a small pool below culvert.
PLN-S3	125 to 225	225	4.3	0.56	0.362	0.718	44	46	16	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	Un-wadeable pool from 125 to 225m upstream of culverts.
PLN-S3	225 to 275	275	7.1	0.095	0.37	0	20	24	30	0	60	20	0	15	5	0	0	80	0	20	Flow type is predominately rapids with a small riffle at top of section at outflow of small pond.
PLN-S3	275 to 350	350	6.2	0.451	0	0	44	40	20	NA	NA	NA	NA	NA	NA	NA	NA	40	40	20	Un-wadeable pool.
PLN-S3	350 to 385	385	14.2	0.061	0	0	28	34	40	0	25	30	20	15	10	0	0	40	40	20	Small section between two ponds. Flow type is rapid in bottom half and flat in top half of section.
TDA01	0	0	3.4	0.34	0	0.029	40	44	40	0	50	30	20	0	0	0	0	75	0	25	Flow type is rapids / fast riffle with some small chutes.
TDA02	0 to 150	150	3.5	0.275	0.333	0.619	19	19	30	0	60	35	5	0	0	0	0	70	15	15	Flow type is rapid / run.
TDA02	150 to 250	250	4.7	0.255	0.238	0.387	22	44	30	0	30	20	20	10	20	0	0	60	0	40	Flow type is flats with some short riffles.
TDA02	250 to 350	350	3.1	0.32	0.15	0.52	33	45	36	0	25	25	20	12	18	0	0	50	0	50	Deep slow flat with intermittent riffles
TDA02	350 to 450	450	3.3	0.35	0.25	0.4	33	37	29	0	18	25	22	15	20	0	0	43	15	42	Flow type is run and riffles.
TDA02	450 to 550	550	4.1	0.16	0.25	0.32	42	48	45	0	10	30	20	20	20	0	0	40	60	0	Flow type is run and riffles.
TDA02	550 to 650	650	3.1	0.22	0.28	0.27	48	49	48	5	15	25	25	15	15	0	0	35	58	7	Flow type is rapids.
TDA02	650 to 800	800	3.7	0.437	0.823	0.267	32	18	22	0	25	25	20	20	10	0	0	60	35	5	Flow type is predominately run with a short rapid section at bottom.
TDA02	800 to 950	950	3.9	0.222	0.165	0.491	44	48	28	10	50	35	0	0	5	0	0	50	30	20	Flow type is mostly wide deep run with some short rapid / riffle sections.
TDA02	950 to 1100	1100	4.7	0.281	0.492	0.373	22	16	14	0	30	30	20	10	10	0	0	35	35	30	Flow type is riffle/run.
TDA02	1100 to 1250	1250	3.2	0.517	0.5	0.095	22	40	18	0	40	30	0	15	15	0	5	35	35	30	Beaver dam in middle of section. Flow type above dam is pond / slow run with flooded banks and inundated vegetation and riffle / run marshy area below.
TDA02	1250 to 1400	1400	4.2	0.164	0.17	0.126	64	66	72	0	30	30	20	15	5	0	10	40	45	15	Flow type is steady
TDA02	1400 to 1550	1550	1.6	0.272	0.238	0.26	58	61	76	0	60	20	0	0	15	5	0	35	35	30	Flow type is mostly flat with a 50 m section of run at top.
TDA02	1550 to 1700	1700	3.5	0.203	0.19	0.132	35	38	36	0	60	20	0	10	10	0	0	20	25	55	Flow type is mostly run with a small riffle at top of section.
TDA02	1700 to 1850	1850	3.2	0.4	0.412	0.231	18	20	33	0	30	20	25	20	5	0	0	35	35	25	Flow type is riffle / run becoming run / flat at bottom end.
TDA02	1850 to 2000	2000	5.5	0.42	0.561	0.484	16	10	15	0	40	30	10	20	0	0	0	50	40	10	Flow type is stepwise riffle / run or rapid / run.
TDA02	2000 to 2150	2150	3.8	0.046	0.155	0.161	40	39	34	0	20	20	35	15	10	0	0	50	40	10	Flow type is riffle / run or rapid / run. Two small islands in middle of section.
TDA02	2150 to 2300	2300	4.7	0.127	0.11	0.037	37	44	58	0	0	0	5	60	35	0	0	45	50	5	Flow type is deep flat becoming riffle / run.
TDA02	2300 to 2450	2450	3.4	0.06	0.112	0.11	42	44	42	0	10	0	0	50	40	0	5	55	40	5	Flow type is run or riffle / run.
TDA02	2450 to 2600	2600	3.2	0.097	0.068	0.112	44	47	42	0	20	30	0	10	10	30	0	45	50	5	Flow type is flat, becoming run or riffle / run. Flows through marsh area.
TDA02	2600 to 2750	2750	3.4	0.34	0	0.029	40	44	40	0	0	0	0	50	50	0	5	50	45	5	Flow type is slow flat / deep pool.
TDA02	2750 to2850	2850	2.9	0.03	0.04	0.04	28	24	22	0	30	23	22	25	0	0	0	77	15	13	Flow type is run with small pools and riffles.
TDA02	2850 to 2950	2950	2.7	0.1	0.12	0.01	19	17	13	0	30	30	22	18	0	0	5	67	20	13	Flow type is riffle/run
TDA02	2950 to 3050	3050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	15	15	25	40	5	0	0	60	25	15	Flow type is riffle / run or riffle / flat.
TDA02	3050 to 3200	3200	2	0.015	0.039	0.316	6	6	8	0	0	0	30	60	10	0	0	60	25	15	Flow type is riffle / run.
TDA02	3200 to 3350	3350	2.1	0.061	0	0	30	30	26	0	20	20	20	20	20	0	10	60	20	20	Flow type is riffle / run with a few slower flats.
TDA02	3350 to 3500	3500	1.5	0.038	0	0.137	10	6	12	0	10	30	20	20	20	0	0	40	55	5	Flow type is flat becoming run, then riffle.
TDA02	3500 to 3650	3650	1.7	0.024	0.035	0.042	18	21	23	0	0	0	20	30	40	10	0	45	50	5	Flow type is slow flat with a few riffle sections.
TDA02	3650 to 3800	3800	1.4	0.022	0.055	0.062	30	30	24	0	0	0	0	0	40	60	20	35	60	5	Flow type is slow flat with a few riffle sections.
TDA02	3800 to 3950	3950	1.2	0.11	0	0	22	20	16	0	5	0	0	0	50	45	0	25	70	5	Flow type is deep, slow flat with some riffle habitat at bottom of section.
TDA02	3950 to 4100	4100	0.7	0.045	0.042	0.01	44	43	38	0	0	20	20	20	30	10	0	25	70	5	Flow type is riffle / run with a small pool at beginning of section.
TDA02	4100 to 4250	4250	1.6	0	0.09	0	16	20	20	0	20	15	15	20	30	0	0	25	70	5	Flow type is predominately flat becoming riffle / run at lower end.
TDA02	4250 to 4400	4400	2.4	0	0	0	1	1	1	0	5	0	0	15	40	40	0	75	20	5	Flow type is deep steady with a few riffle sections, and 2 moderate sized pools. Some undercut banks.
TDA02	4400 to 4550	4550	0.9	0.077	0.051	0.083	22	20	18	0	0	0	0	30	40	30	0	70	20	10	Flow type is slow flat / pool.
TDA02	4550 to 4700	4700	2.2	0.003	0.019	0.019	46	56	63	0	0	0	0	30	40	30	15	75	20	5	Flow type is slow flat / pool.
TDA02	4700 to 4850	4850	1.9	0	0.04	0.13	16	12	16	0	0	0	0	30	40	30	5	75	20	5	Flow type is slow flat / pool.
TDA02	4850 to 5000	5000	1.2	0.145	0.108	0.115	4	6	10	0	30	0	0	30	40	0	0	75	20	5	Flow type is predominantly slow run / flat with a few riffle sections. Channel flows back into marshy area.
TDA02	5000 to 5150	5150	1.6	0.021	0.015	0	18	10	22	0	30	20	30	20	0	0	0	75	15	10	Flow type is predominantly slow run / flat with a few riffle sections.
TDA02	5150 to 5300	5300	2.1	0.019	0.042	0.021	16	15	18	0	30	30	30	10	0	0	5	60	25	15	Flow type is flat with a few short riffle sections.
TDA02	5300 to 5450	5450	1.5	0.023	0	0.121	8	10	10	0	20	20	10	10	20	20	10	55	35	10	Flow type is flat with a few short riffle sections.
TDA02	5450 to 5600	5600	1.7	0.029	0.022	0	20	18	14	0	20	30	30	20	0	0	5	55	35	10	Flow type is riffle / run or riffle / flat.
TDA02	5600 to 5750	5750	1.5	0.021	0.033	0.099	14	16	14	0	5	30	0	15	50	0	5	50	40	10	Flow type is flat with a couple pools.
TDA02	5750 to 5900	5900	1.1	0.032	0.061	0.054	12	16	19	0	20	20	0	40	0	20	15	55	40	5	Flow type is riffle / run. Channel meanders heavily.
TDA02	5900 to 6050	6050	1.8	0.127	0	0.013	8	8	8	0	0	20	20	40	20	0	5	60	40	0	Upper part of section is flat becoming riffle / flat at downstream end.
TDA02	6050 to 6200	6200	1.7	0.099	0.053	0	18	15	18	0	0	50	30	20	0	0	5	65	30	5	Flow type is riffle / drop / run.
TDA02	6200 to 6350	6350	1.5	0.089	0.112	0	20	14	20	0	0	30	30	40	0	0	5	55	40	5	Flow type is riffle / drop / run.
TDA02	6350 to 6500	6500	1.3	0.066	0.096	0	18	22	20	0	50	30	10	5	5	0	10	55	40	5	Flow type is flat / run.
TDA02	6500 to 6650	6650	1.5	0.115	0.093	0.036	18	16	20	0	0	0	0	0	0	100	10	50	50	0	Flow type is slow flat. Channel meanders.
TDA02	6650 to 6800	6800	1.5	0.048	0.043	0.052	16	16	17	0	0	0	0	0	0	100	10	50	50	0	Flow type is slow flat. Channel meanders.
TDA01	0	0	0	0	0	0	0	0	0	0	20	30	0	10	10	30	0				Flow type is mostly riffle with a few small shallow runs. Steep banks
TDA01	0 to 150	150	0.6	0.782	0.532	0.093	66	66	66	0	20	30	0	10	10	30	0	50	45	5	with some undercuts.
TDA01	150 to 200	200	1.8	0.077	0.121	0	24	24	22	10	30	30	0	5	10	15	0	40	60	0	Flow type is mostly riffle with a few small shallow runs. Steep banks with some undercuts.
TDA01	200 to 300	300	1.4	0.02	0.1	0.05	18	17	17	10	35	10	0	20	25	0	0	30	55	15	Flow type is riffle with small runs and pools.
TDA01	300 to 400	400	0.9	0.33	0.19	0.02	15	21	19	0	25	30	0	30	15	0	0	48	45	7	Flow type is riffle with heavy overhanging veg.
TDA01	400 to 550	550	0.5	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	100	0	70	20	10	Too overgrown for wading rod. Flow type is steady flowing through bog habitat.
TDA01	550 to 700	700	0.8	0.105	0.33	0.073	8	4	36	0	0	10	15	40	30	5	0	70	10	20	Flow type predominately riffle through heavy vegetation with a short flat halfway through section.
TDA01	700 to 850	850	0.6	0.075	0.079	0.024	40	44	44	0	15	15	0	30	30	10	0	70	5	25	Too overgrown for wading rod.
TDA01	850 to 1000	1000	1.4	0.079	0.073	0.052	46	46	50	0	10	0	0	40	30	20	0	65	20	15	Flow type is mostly a deep flat with one short riffle section in middle.
TDA01	1000 to 1150	1150	0.5	0.046	0.046	0.023	50	54	50	0	15	0	0	20	20	45	0	75	10	15	Flow type is predominately flat with some short riffles.

Appendix A
Riverine Habitat Survey Data - 2011

Site	Sampling Sub-section	Distance (m)	Stream Width	Velocity (m/s)			Depth (cm)			Substrate Composition (%)						Aquatic Vegetation (%)	Riparian			Comment
				25%	50%	75%	25%	50%	75%	BR	B	R	C	G	S	F	S	G	T	
TDA01	1150 to 1300	1300	1.2	0.096	0.071	0.026	38	41	40	0	10	0	0	20	20	50	0	75	15	10	Flow type is predominately flat with some short riffles. A few log jams in section.
TDA01	1300 to 1450	1450	0.7	0.054	0.053	0.051	94	96	94	0	5	0	0	15	15	65	0	70	15	15	Flow type is predominately flat with some short riffles. Channel goes underground at times.
TDA01	1450 to 1600	1600	0.7	0.109	0.115	0	38	28	18	0	10	0	0	10	10	70	0	60	0	40	Flow type is flat with some riffle sections. Channel underground ~ 10%.
TDA01	1600 to 1750	1750	1.3	0.051	0.021	0.019	60	64	60	0	0	0	0	10	10	80	0	60	5	35	Flow type is flat with some riffle sections. Some woody debris on bottom.
TDA01	1750 to 1900	1900	1	0.201	0.106	0	18	18	16	0	5	0	0	10	10	75	0	65	5	30	Flow type is flat with some riffle sections. Channel underground ~ 20%.
TDA01	1900 to 2050	2050	2.2	0	0.021	0.019	76	76	74	0	5	0	0	5	5	85	20	75	10	15	Flow type is a series of pools separated by underground flows or narrow channels.
TDA01	2050 to 2200	2200	1.5	0.062	0.067	0.04	38	30	34	0	0	0	0	10	10	80	5	80	15	5	Flow type is pools with a few short riffles.
TDA01	2200 to 2350	2350	1.3	0.056	0.091	0	20	22	24	0	0	10	0	20	20	50	0	70	30	0	Flow type is slow flat. Appears to have groundwater seeps (lighter gravel areas devoid of silt / biofilm).
TDA01	2350 to 2500	2500	0.6	0.067	0.057	0.064	32	32	32	0	20	0	0	20	15	45	0	60	35	5	Flow type is slow flat. Channel narrows in top 100 m.
TDA01	2500 to 2650	2650	0.7	0.047	0.068	0.061	18	16	14	0	10	0	0	10	20	60	0	75	20	5	Flow type is slow flat. Channel flows underground ~ 5%.
TDA01	2650 to 2800	2800	1.1	0.168	0.103	0	14	10	10	10	10	0	0	30	10	40	0	65	30	5	Flow type is slow flat. Channel braided and undefined above this section.
TDA02E	0 to 150	150	0.6	0	0.043	0	16	20	28	0	0	0	0	0	0	100	0	50	45	5	Flow type is steady flowing through bog habitat exiting small lake at headwaters of sub-catchment
TDA02E	150 to 300	300	0.8	0.011	0.022	0	20	20	11	0	0	0	0	0	0	100	0	60	35	5	Flow type is steady flowing through bog habitat.
TDA02E	300 to 450	450	0.4	0.058	0	0.293	8	10	10	0	20	0	0	0	0	80	0	25	50	25	Flow type is steady flowing through bog habitat and dense vegetation along banks.
TDA02E	450 to 600	600	NA	NA	NA	NA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	0	50	50	No defined channel - Stream flows under forest floor
TDA02E	600 to 750	750	0.5	0.032	0.126	0.042	11	10	10	0	0	0	0	0	100	0	0	30	50	20	Flow type is steady flowing through bog habitat and dense vegetation along banks.
TDA02E	750 to 900	900	0.7	0.082	0.194	0.174	23	26	28	0	0	0	0	0	90	10	0	30	60	10	Flow type is steady with grass vegetation on banks.
TDA02E	900 to 1050	1050	0.7	0.185	0.233	0.176	28	28	28	0	0	0	0	50	50	0	0	40	55	5	Flow type is steady with grass vegetation on banks.
TDA02E	1050 to 1200	1200	1.3	0.503	0.153	0	22	20	8	0	0	0	0	50	50	0	0	35	65	0	Flow type is steady with grass vegetation on banks.
TDA02E	1200 to 1350	1350	1	0.074	0.089	0.185	41	48	55	0	0	0	0	50	50	0	0	35	60	5	Flow type is steady with grass vegetation on banks.
TDA02E	1350 to 1500	1500	1	0.217	0.308	0.255	19	22	22	0	0	0	0	30	70	0	0	35	60	5	Flow type is steady with grass vegetation on banks.
TDA02E	1500 to 1650	1650	1.3	0.251	0.242	0.07	20	21	20	0	30	0	20	0	50	0	0	35	55	10	Flow type is steady with a developing riffle/pool regime.

Reach #	Transect #	Section	GPS Coordinates			Weather				Reach Length	Wetted Width	Channel Width	Water Temp
			Northing	Easting	Zone	Air Temp	Cloud (˚C	Wind (Dir	Precipitat				
1	1	Mainstem	5856155	636430	19	12	70	W, 10	Y	38	13	13.09	15
2	1	Mainstem	5856164	636416	19	12	75	W, 10	N	28	15	16.17	15
3	1	Mainstem	5856126	636334	19	13	90	Calm	N	65	6.1	10.5	14
4	1	Mainstem	5856163	636253	19	14	70	Calm	N	60	8.8	9.78	14
5	1	Mainstem	5856160	636196	19	14	65	Calm	N	70	13	13.6	14
6	1	Mainstem	5855929	636080	19	14	80	W, 5	N	30	12.5	12.5	12
7	1	Mainstem	5855869	636055	19	14	50	Calm	N	68	7.4	13.04	14
8	1	Mainstem	5855721	636002	19	14	45	W, 5	N	57	10.1	10.54	16
9	1	Tributary	5855557	636015	19	15	50	Calm	N	100	0.8	0.8	7
10	1	Tributary	5855475	635991	19	15	15	W, 15	N	100	0.65	0.65	7
11	1	Tributary	5855379	636011	19	16	10	Calm	N	100	1.2	1.2	7
12	1	Tributary	5855285	636043	19	16	5	W, 10	N	100	0.27	0.27	7
13	1	Tributary	5855166	636041	19	16	5	W, 10	N	100	0.54	0.54	7

Reach #	Transect #	Discharge Distance (m)											
		1	2	3	4	5	6	7	8	9	10	1	2
1	1	0	2	4	6	8	10	12	13			0.16	0.15
2	1	0	2	4	6	8	10	12	14	15		0.08	0.09
3	1	0	1	2	3	4	5	6.1				0.01	0
4	1	0	1	2	3	4	5	6	7	8	8.8	0.06	0.28
5	1	0	2	4	6	8	10	12	13			0.02	0.15
6	1	0	2	4	6	8	10	12	12.5			0.05	0.12
7	1	0	1	2	3	4	5	6	7	7.4		0.12	0.17
8	1	0	1.5	3	4.5	6	7.5	9	10.1			0.05	0.14
9	1	0	0.2	0.4	0.6	0.8						0.02	0.18
10	1	0	0.15	0.3	0.45	0.6	0.65					0.34	0.4
11	1	0	0.25	0.5	0.75	1	1.2					0.41	0.22
12	1	0	0.13	0.27								0.33	0.35
13	1	0	0.26	0.54								0.17	0.27

Reach #	Transect #	Discharge Depth (m)								Disc			
		3	4	5	6	7	8	9	10	1	2	3	4
1	1	0.16	0.1	0.09	0.09	0.12	0.02			0.09	0.74	0.35	0
2	1	0.04	0.05	0.22	0.21	0.24	0.18	0.22		0	0.78	-	0.9
3	1	0.23	0.33	0.39	0.23	?				-	-	0.91	0.95
4	1	0.12	0.39	0.47	0.43	0	0.01	0.08	0.03	0.21	0.89	0.84	-
5	1	0	0	0.28	0.62	0.57	0			-	0.9	-	-
6	1	0.46	0.36	0.13	0.18	0.03	0.05			-	0.45	0.77	0.99
7	1	0	0.31	0.51	0.62	0	0	0.02		0	0.71	-	0.92
8	1	0.33	0.28	0.29	0.3	0.2	0.15			-	1.08	0.91	0.88
9	1	0.23	0.23	0.37						-	0.26	0.39	0.39
10	1	0.4	0.36	0.39	0.41					0	0.16	0.29	0.16
11	1	0.17	0.26	0.26	0.19					0.35	0	0	0.19
12	1	0.32								0	0	0	
13	1	0.19								0	0	0	

Reach #	Transect #	harge Velocity					Substrate Type						
		5	6	7	8	9	Be	Bo	R	C	G	S	Fines
1	1	0.33	0.88	0.56	-			65	20	10	5		
2	1	0.29	1.21	0.96	1.32	0.92		65	20	10	5		
3	1	2.06	1.52	?				70	20	10			
4	1	0	-					80	10	5	5		
5	1	1.01	0.36	1.5	-			55	30	15			
6	1	0.57	0.35	-	-			20	40	35	5		
7	1	0.83	1.03	-	-	-		20	40	35	5		
8	1	0.82	0.8	0.36	0.06			15	40	30	10	5	
9	1	0.27										10	90
10	1	0.04	0								5	15	80
11	1	0	0									5	95
12	1											20	80
13	1								60	30	10		

Reach #	Transect #	ut Bank (% of reach		Bank	Slope		Bank Composition						
		L	R	Stability	Rise (m)	Run (m)	Be	Bo	R	C	G	S	Fines
1	1	30	5	Fair	0.71	15		35	30				20
2	1	0	65	Fair	0.97	12		35	30				20
3	1	0	10	Fair	0.39	8.3		60	10				15
4	1	5	10	Good	0.38	10		60	20				10
5	1	25	30	Good	0.56	14		65	10				10
6	1	60	60	Good	0.15	14			20				20
7	1	30	30	Good	0.15	20.8		40	5				5
8	1	40	40	Good	0.03	13			5				5
9	1	90	90	Good	0.01	13							20
10	1	90	90	Good	0.08	10							20
11	1	75	75	Good	0.06	11							20
12	1	90	90	Good	0.12	7.5							20
13	1	100	100	Good	0.04	4.7							5

Reach #	Transect #		Cover			Vegetation 5m Riparian Left Side (%)						Vegetatio	
		Veg	Instream	Overhang	Canopy	Deciduou	Coniferou	Shrubs	Grasses	Bog	No Veg	Deciduou	Coniferou
1	1	15	5	5	5		5	60	40				5
2	1	15	5	5	5		5	35	65				45
3	1	15	25	5	2		15	70	50			5	45
4	1	15	20	5	5	5	60	40	25			15	50
5	1	20	15	5	5	5	50	50	20			5	50
6	1	60	5	5	2		80	30	20				80
7	1	50	5	2	5		90	30	20				90
8	1	90	5	2	2		30	20	70				30
9	1	80	60	70	5		20	10	90	80			20
10	1	80	20	60	30		40	10	70	70			40
11	1	80	15	35	30		40	5	70	60			40
12	1	80	20	70	45		40	10	60	70			40
13	1	95	90	90	30		50	5	70				50

Reach #	Transect #	GPS Coordina	GPS Coordinates		Reach Length	Wetted Width (m)	Habitat Units	Channel Width (m)	Water Temp (˚C)	Discharge Distance (m)						Discharge Depth (m)			
			Northing	Easting						1	2	3	4	5	6	1	2	3	4
1	1	WGS 84	5854276	637338	100	0.31	0.31	0.31	8	0	0.15	0.31				0	0.05	0.06	
2	1	WGS 84	5854285	637250	100	0.4	0.40	0.4	8	0	0.2	0.4				0.01	0.06	0.04	
3	1	WGS 84	5854243	637166	100	0.44	0.44	0.44	8	0	0.22	0.44				0	0.06	0.05	
4	1	WGS 84	5854194	637107	100	0.18	0.18	0.18	7	0	0.09	0.18				0	0.06	0.11	
5	1	WGS 84	5854131	637041	100	0.36	0.36	0.36	7	0	0.18	0.36				0.04	0.04	0.02	
6	1	WGS 84	5854067	636960	100	0.64	0.64	0.64	7	0	0.2	0.2	0.64			0.12	0.07	0.05	0.07
7	1	WGS 84	5853990	636912	100	0.82	0.82	0.82	7	0	0.2	0.4	0.6	0.82		0	0.08	0.06	0.02
8	1	WGS 84	5853925	636848	100	0.87	0.87	0.87	7	0	0.2	0.4	0.6	0.8	0.87	0.03	0.06	0.07	0.04
9	1	WGS 84	5853862	636798	44	0.43	0.19	0.43	6	0	0.2	0.43				0.08	0.12	0.11	

Reach #	Transect #			Average Depth	Discharge Velocity						Average Velocity	Substrate Type								cut Bank (% of reach		Bank Stability	Slo Rise (m)
		5	6		1	2	3	4	5	6		Be	Bo	R	C	G	S	Fines	AqV	L	R		
1	1			0.04	NA	0.05	0.48				0.27				10	40	30	20		95	95	Good	0
2	1			0.04	NA	0.03	NA				0.03				10	30	50	10		95	95	Good	0.07
3	1			0.04	NA	0	0				0.00				5	20	35	40		95	95	Good	0.26
4	1			0.06	NA	0	0				0.00						60	40		100	100	Good	0.23
5	1			0.03	NA	NA	NA				-				5	10	60	25		100	100	Good	0.36
6	1			0.08	0	0	0	0			0.00					5	25	70		80	80	Good	0.07
7	1	0.01		0.03	NA	0	0.08	NA	NA		0.04				10	10	40	40		85	85	Good	0.14
8	1	0.04	0	0.04	NA	0	0	NA	NA	NA	0.00				10	25	30	35		75	75	Good	0.04
9	1			0.10	0	0	0				0.00					5	30	65		85	85	Good	0.19

Reach #	Transect #	ope		Bank Composition								Cover			Vegetation 5m Riparian Left Side (%)						Vegetation 5	
		Run (m)	Slope	Be	Bo	R	C	G	S	Fines	Veg	Instream	Overhang	Canopy	Deciduous	Coniferou	Shrubs	Grasses	Bog	No Veg	Deciduous	Coniferou
1	1	11	0.00								90	2	98	5		5	80	50	10			5
2	1	5.8	0.01								80	10	90	20		20	80	50				20
3	1	4.1	0.06								80	40	95	5		5	80	50	20			5
4	1	4.8	0.05								95	25	95	0		10	60	80	10			10
5	1	4.7	0.08								90	40	95	5		20	50	70				20
6	1	6	0.01								85	20	80	50		45	20	60	15			45
7	1	6.3	0.02						20		60	40	90	20		40	60	70				40
8	1	3	0.01								75	20	85	2		5	80	70				5
9	1	6	0.03								80	30	90	0		2	65	70	20			2

Reach #	Transect #	m Riparian Right Side (%)			
		Shrubs	Grasses	Bog	No Veg
1	1	80	50	10	
2	1	80	50		
3	1	80	50	20	
4	1	60	80	10	
5	1	50	70		
6	1	20	60	15	
7	1	60	70		
8	1	80	70		
9	1	65	70	20	

Reach #	Transect #	GPS Coordinates			Weather				Reach Length	Wetted Width (m)	Channel Width (m)
		Northing	Easting	Zone	Air Temp	Cloud (˚C)	Wind (Dire	Precipitati			
1	1	5853651	637689	19	16	99	NW 5km/h	N	100	0.52	0.52
2	1	5853558	637716	19	16	95	Calm	N	100	0.41	0.63
3	1	5853469	637741	19	16	95	Calm	N	120	0.58	0.58

Reach #	Transect #	Water Temp	Discharge Distance (m)				Discharge Depth (m)				Discharg	
			1	2	3	Average	1	2	3	Average	1	2
1	1	5	0.00	0.25	0.52	0.26	0.02	0.14	0.17	0.11	NA	0.24
2	1	5	0.00	0.22	0.41	0.21	0.17	0.14	0.12	0.14	0.09	0.03
3	1	5	0.00	0.25	0.58	0.28	0.12	0.08	0.06	0.09	0.08	0.08

Reach #	Transect #	ge Velocity		Substrate Type							
		3	Average	Be	Bo	R	C	G	S	Fines	AqV
1	1	0.13	0.19					5	20	75	
2	1	0.00	0.04						40	60	
3	1	0.00	0.05						50	50	

Reach #	Transect #	Undercut Bank (% of reach length)		Bank Stability	Slope		Bank Composition				
		L	R		Rise (m)	Run (m)	Be	Bo	R	C	G
1	1	95	95	Good	0	6					
2	1	90	90	Good	0	9.2					
3	1	90	90	Good	0	5.8					

Reach #	Transect #				Cover			Vegetation 5m Riparian Left Side (%)				
		S	Fines	Veg	Instream	Overhang	Canopy	Deciduous	Coniferou	Shrubs	Grasses	Bog
1	1		10	90	2	95	0			5	95	
2	1		5	95	5	85				5	95	
3	1		5	95	5	95				5	90	40

Reach #	Transect #	Vegetation 5m Riparian Right Side (%)						
		No Veg	Deciduous	Coniferou	Shrubs	Grasses	Bog	No Veg
1	1				5	95		
2	1				5	95		
3	1				5	90	40	

Reach #	Transect #	GPS Coordinates			Weather				Distance to	Reach Length	Wetted Width (m)
		Northing	Easting	Zone	Air Temp (	Cloud (˚C)	Wind (Dire	Precipitati			
1	1	5853386	637714	19	17	90	Calm	N	60	100	0.18
2	1	5853344	637635	19	18	90	Calm	Y	60	100	0.88
3	1	5853335	637564	19	20	60	Calm	N	40	43	0.88
4	1	5853319	637511	19	20	60	Calm	N	60	100	0.65
5	1	5853310	637415	19	20	50	Calm	N	60	100	0.7
6	1	5853281	637332	19	20	45	Calm	N	60	100	0.56
7	1	5853235	637223	19	20	75	Calm	N	93	100	0.39
8	1	5853235	637158	19	20	65	Calm	N	60	120	0.22

Reach #	Transect #	Channel Width (m)	Water Temp (˚C)	Discharge Distance (m)								
				1	2	3	4	5	6	7	Average	1
1	1	0.18	8	0	0.09	0.18					0.09	0.10
2	1	0.88	8	0	0.2	0.4	0.6	0.8	0.88		0.48	0.02
3	1	0.88	8	0	0.2	0.4	0.6	0.8	0.88		0.48	0.11
4	1	1.43	9	0	0.15	0.3	0.45	0.6	0.65		0.36	0.01
5	1	0.7	9	0	0.15	0.3	0.45	0.6	0.7		0.37	0.02
6	1	0.56	9	0	0.1	0.2	0.3	0.4	0.5	0.56	0.29	0.04
7	1	0.39	10	0	0.1	0.2	0.3	0.39			0.20	0.04
8	1	0.22	10	0	0.11	0.22					0.11	0.06

Reach #	Transect #	Discharge Depth (m)							Discharg			
		2	3	4	5	6	7	Average	1	2	3	4
1	1	0.08	0.11					0.10	NA	0.01	NA	
2	1	0.02	0.01	0.00	0.05	0.04		0.02	NA	NA	NA	NA
3	1	0.13	0.08	0.07	0.09	0.06		0.09	0	0	0	0
4	1	0.05	0.04	0.06	0.06	0.06		0.05	NA	0.3	NA	0
5	1	0.05	0.06	0.04	0.04	0.06		0.05	NA	NA	0	NA
6	1	0.04	0.03	0.05	0.03	0.03	0.00	0.03	NA	NA	NA	0.43
7	1	0.05	0.06	0.03	0.05			0.05	NA	0	NA	NA
8	1	0.03	0.03					0.04	0	NA	NA	

Reach #	Transect #	e Velocity 5	6	7	Average	Substrate Type Be	Bo	R	C	G	S	
1	1				0.01							30
2	1	0.15	NA		0.15				2	8	30	60
3	1	0.18	0.32		0.08				2	8	30	60
4	1	0	0		0.08							60
5	1	NA	0		0.00				10			60
6	1	NA	NA	NA	0.43					25	10	40
7	1	0			0.00				15	20	10	40
8	1				0.00							40

Reach #	Transect #	Fines	AqV	cut Bank (% of reach l		Bank Stability	Slope		Be	Bo	R	C	Bank Cor
				L	R		Rise (m)	Run (m)					
1	1	70			95	95 Good	0.02	6.7					
2	1	0			90	90 Good	0.08	3.3					
3	1	0			60	60 Good	0.57	3.4			25	70	5
4	1	40			65	75 Good	0	4.5					
5	1	30			50	50 Good	0.02	7.6					
6	1	25			60	60 Good	0.08	5.8					5
7	1	15			80	80 Good	0.38	6.2				20	
8	1	60			90	90 Good	0.07	5					

Reach #	Transect #	nposition		Cover					Vegetation 5m Riparian Left		
		G	S	Fines	Veg	Instream	Overhang	Canopy	Deciduous	Coniferou	Shrubs	Grasses
1	1			5	95	10	95				80	80
2	1			20	80	10	85				50	80
3	1				20	20	75				75	65
4	1			20	80	10	70	20	20		40	80
5	1			20	80	25	75	35	35		60	70
6	1			20	75	15	65	5	5		70	75
7	1			20	60	25	90	15	20		60	80
8	1			10	90	20	80		40		90	30

Reach #	Transect #	Side (%)		Vegetation 5m Riparian Right Side (%)					
		Bog	No Veg	Deciduous	Coniferou	Shrubs	Grasses	Bog	No Veg
1	1					80	80		
2	1					50	80		
3	1					75	65		
4	1				20	40	80		
5	1				35	60	70		
6	1				5	70	75		
7	1				20	60	80		
8	1				40	90	30		

Reach #	Transect #	on 5m Riparian Right Side (%)			
		Shrubs	Grasses	Bog	No Veg
1	1	60	50		
2	1	60	5		
3	1	40	25		
4	1	40	25		
5	1	50	20		
6	1	30	20		
7	1	30	25		
8	1	20	70		
9	1	10	90	80	
10	1	10	70	70	
11	1	5	70	60	
12	1	10	60	70	
13	1	5	70		

APPENDIX B

Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	RP2-RP1	19-Jul-11	Index	Sculpin		1	62	
Stantec	RP2-RP1	19-Jul-11	Index	Sculpin		1	66	
Stantec	RP2-RP1	19-Jul-11	Index	Sculpin		1	54	
Stantec	RP2-RP1	19-Jul-11	Index	Lake Chub		1	70	
Stantec	RP2-RP1	19-Jul-11	Index	Lake Chub		1	65	
Stantec	RP2-RP1	19-Jul-11	Index	Lake Chub		1	70	
Stantec	RP2-RP1	19-Jul-11	Index	Lake Chub		1	63	
Stantec	RP2-RP1	19-Jul-11	Index	Lake Chub		1	63	
Stantec	RP2-RP1	19-Jul-11	Index	Lake Chub		1	72	
Stantec	RP2-RP1	19-Jul-11	Index	Lake Chub		1	62	
Stantec	RP2-RP1	19-Jul-11	Index	No Fish		0		0.0
Stantec	RP2-RP1	19-Jul-11	Index	Brook Trout		1	218	
Stantec	RP2-RP1	19-Jul-11	Index	Sculpin		1	110	
Stantec	RP2-RP1	19-Jul-11	Index	Brook Trout		1	55	
Stantec	RP2-RP1	19-Jul-11	Index	Brook Trout		1	52	
Stantec	RP3-RP2	20-Jul-11	Index	Brook Trout		1	145	46.0
Stantec	RP3-RP2	20-Jul-11	Index	Brook Trout		1	100	
Stantec	RP3-RP2	20-Jul-11	Index	Brook Trout		1	156	47.6
Stantec	RP3-RP2	20-Jul-11	Index	Brook Trout		1	105	13.9
Stantec	RP3-RP2	20-Jul-11	Index	Burbot		1	109	13.3
Stantec	RP3-RP2	20-Jul-11	Index	Lake Chub		1	81	6.0
Stantec	RP3-RP2	20-Jul-11	Index	Lake Chub		1	80	5.9
Stantec	RP3-RP2	20-Jul-11	Index	Lake Chub		1	85	5.9
Stantec	RP3-RP2	20-Jul-11	Index	Pearl Dace		1	98	8.8
Stantec	RP3-RP2	20-Jul-11	Index	Lake Chub		1	81	5.2
Stantec	RP3-RP2	20-Jul-11	Index	Brook Trout		1	118	18.6
Stantec	RP3-RP2	20-Jul-11	Index	Lake Chub		1	77	5.3
Stantec	RP3-RP2	20-Jul-11	Index	Brook Trout		1	98	12.4
Stantec	RP3-RP2	20-Jul-11	Index	Brook Trout		1	162	50.2
Stantec	RP3-RP2	20-Jul-11	Index	Sculpin		1	52	1.5
Stantec	RP3-RP2	20-Jul-11	Index	Burbot		1	125	10.1
Stantec	RP5-RP4	21-Jul-11	Index	Brook Trout		1	90	9.1
Stantec	RP5-RP4	21-Jul-11	Index	Lake Chub		1	108	14.3
Stantec	RP5-RP4	21-Jul-11	Index	Brook Trout		1	48	1.6
Stantec	RP5-RP4	21-Jul-11	Index	Pearl Dace		1	88	8.0
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	125	
Stantec	RP4-RP2	22-Jul-11	Index	White Sucker		1	56	
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	172	
Stantec	RP4-RP2	22-Jul-11	Index	No Fish		0		0.0
Stantec	RP4-RP2	22-Jul-11	Index	No Fish		0		0.0
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	44	
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	40	
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	78	
Stantec	RP4-RP2	22-Jul-11	Index	No Fish		0		0.0
Stantec	RP4-RP2	22-Jul-11	Index	No Fish		0		0.0
Stantec	RP4-RP2	22-Jul-11	Index	No Fish		0		0.0
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	79	
Stantec	RP4-RP2	22-Jul-11	Index	No Fish		0		0.0
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	39	
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	42	
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	43	
Stantec	RP4-RP2	22-Jul-11	Index	Brook Trout		1	47	
Stantec	M01-M02	23-Jul-11	Index	No Fish		0		0.0
Stantec	M01-M02	23-Jul-11	Index	Brook Trout		1	94	8.6
Stantec	M01-M02	23-Jul-11	Index	No Fish		0		0.0
Stantec	M01-M02	23-Jul-11	Index	Brook Trout		1	125	24.8
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	45	1.3
Stantec	M02-ML	23-Jul-11	Index	No Fish		0		0.0
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	86	8.6
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	114	8.2
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	65	3.0
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	104	6.6
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	58	1.7
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	87	8.2
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	89	6.9
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	106	12.1
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	260	216.1
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	76	6.5
Stantec	M02-ML	23-Jul-11	Index	No Fish		0		0.0
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	165	65.7
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	49	2.3
Stantec	M02-ML	23-Jul-11	Index	Longnose Dace		1	95	9.6
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	89	9.0
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	90	9.2
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1		
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	170	55.5
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	192	89.7
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	82	7.3
Stantec	M02-ML	23-Jul-11	Index	Longnose Dace		1	95	9.0
Stantec	M02-ML	23-Jul-11	Index	Longnose Dace		1	83	7.8
Stantec	M02-ML	23-Jul-11	Index	Longnose Dace		1	83	6.8
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	115	22.1

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	71	15.1
Stantec	M02-ML	23-Jul-11	Index	Brook Trout		1	150	36.5
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	76	4.9
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	72	4.3
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	85	8.3
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	82	6.7
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	54	1.7
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	74	4.6
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	74	5.4
Stantec	RSD	25-Jul-11	Index	Brook Trout		1		
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	69	5.0
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	73	4.3
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	72	4.3
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	Brook Trout		1		
Stantec	RSD	25-Jul-11	Index	Brook Trout		1		
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	63	2.6
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	56	1.9
Stantec	RSD	25-Jul-11	Index	Brook Trout		1	42	1.0
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RSD	25-Jul-11	Index	No Fish		0		0.0
Stantec	RP1-PLS	26-Jul-11	Index	White Sucker		1	119	
Stantec	RP1-PLS	26-Jul-11	Index	White Sucker		1	107	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	67	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	89	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	65	
Stantec	RP1-PLS	26-Jul-11	Index	Sculpin		1	75	
Stantec	RP1-PLS	26-Jul-11	Index	No Fish		0		0.0
Stantec	RP1-PLS	26-Jul-11	Index	No Fish		0		0.0
Stantec	RP1-PLS	26-Jul-11	Index	No Fish		0		0.0
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	59	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	71	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	63	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	63	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	72	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	65	
Stantec	RP1-PLS	26-Jul-11	Index	Burbot		1	190	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	68	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	74	
Stantec	RP1-PLS	26-Jul-11	Index	Lake Chub		1	66	
Stantec	RP1-PLS	26-Jul-11	Index	No Fish		0		0.0
Stantec	SC01	27-Jul-11	Index	Longnose Dace		1	85	
Stantec	SC01	27-Jul-11	Index	Brook Trout		1	50	
Stantec	SC01	27-Jul-11	Index	Brook Trout		1	54	
Stantec	SC01	27-Jul-11	Index	Sculpin		1	50	
Stantec	SC01	27-Jul-11	Index	Longnose Dace		1	110	
Stantec	SC01	27-Jul-11	Index	Lake Chub		1	57	
Stantec	SC01	27-Jul-11	Index	No Fish		0		0.0
Stantec	SC03	27-Jul-11	Index	Burbot		1	133	14.2
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	127	23.7
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	93	8.9
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	78	5.4
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	61	1.8
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	58	1.6
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	58	1.7
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	56	1.5
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	59	1.9
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	172	49.3
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	104	14.3
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	83	6.4
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	94	9.9
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	87	8.4
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	85	5.9
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	77	5.0
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	77	5.8
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	69	4.1
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	58	2.2
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	63	2.9
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	138	28.5
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	90	8.6
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	110	15.0
Stantec	SC03	27-Jul-11	Index	Brook Trout		1	113	16.0
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	290	311.4
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	212	129.7
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	254	208.7

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	89	9.3
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	107	13.9
Stantec	SC06	28-Jul-11	Index	Longnose Dace		1	61	2.5
Stantec	SC06	28-Jul-11	Index	Pearl Dace		1	67	3.9
Stantec	SC06	28-Jul-11	Index	Pearl Dace		1	82	6.5
Stantec	SC06	28-Jul-11	Index	Pearl Dace		1	83	5.9
Stantec	SC06	28-Jul-11	Index	Longnose Dace		1	71	3.9
Stantec	SC06	28-Jul-11	Index	Pearl Dace		1	78	4.9
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	131	26.1
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	163	47.3
Stantec	SC06	28-Jul-11	Index	Longnose Dace		1	78	6.2
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	112	18.9
Stantec	SC06	28-Jul-11	Index	Lake Chub		1	77	5.1
Stantec	SC06	28-Jul-11	Index	Longnose Dace		1	56	2.0
Stantec	SC06	28-Jul-11	Index	Sculpin		1	49	2.2
Stantec	SC06	28-Jul-11	Index	Brook Trout		1	47	1.7
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	81	7.3
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	64	2.4
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	88	8.4
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	74	5.5
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	62	2.8
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	123	22.6
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	72	4.5
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	57	2.5
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	111	16.8
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	96	8.2
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	65	3.6
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	66	3.5
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	67	3.8
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	78	5.0
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	113	17.6
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	82	9.2
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	73	4.6
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	54	1.6
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	67	3.4
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	31	0.4
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	210	103.7
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	178	69.4
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	174	66.4
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	73	3.8
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	92	9.2
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	85	7.5
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	83	6.5
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	107	12.8
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	230	130.4
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	64	2.5
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	110	15.7
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	150	39.9
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	61	2.5
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	109	13.1
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	122	22.7
Stantec	SC07	28-Jul-11	Index	Brook Trout		1	112	17.8
Stantec	SC09	28-Jul-11	Index	Brook Trout		1	127	25.3
Stantec	SC09	28-Jul-11	Index	White Sucker		1	152	34.0
Stantec	SC09	28-Jul-11	Index	Burbot		1	113	9.8
Stantec	SC09	28-Jul-11	Index	Burbot		1	109	9.3
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	64	2.7
Stantec	SC09	28-Jul-11	Index	Longnose Dace		1	73	5.1
Stantec	SC09	28-Jul-11	Index	Longnose Dace		1	75	4.4
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	77	4.1
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	63	2.9
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	68	3.6
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	64	3.0
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	62	2.5
Stantec	SC09	28-Jul-11	Index	Burbot		1	185	34.5
Stantec	SC09	28-Jul-11	Index	Burbot		1	115	17.4
Stantec	SC09	28-Jul-11	Index	Burbot		1	160	60.1
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	64	3.2
Stantec	SC09	28-Jul-11	Index	Sculpin		1	45	1.1
Stantec	SC09	28-Jul-11	Index	Longnose Dace		1	59	2.2
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	70	3.6
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	69	3.4
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	64	3.0
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	62	2.6
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	72	3.6
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	66	2.6
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	65	2.7
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	66	3.0
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	69	3.9
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	67	3.2
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	58	2.2
Stantec	SC09	28-Jul-11	Index	Brook Trout		1	193	111.8

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	SC09	28-Jul-11	Index	Brook Trout		1	187	101.0
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	65	2.5
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	68	3.6
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	70	3.6
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	63	3.1
Stantec	SC09	28-Jul-11	Index	Longnose Dace		1	100	12.1
Stantec	SC09	28-Jul-11	Index	Sculpin		1	46	1.2
Stantec	SC09	28-Jul-11	Index	Burbot		1	150	24.5
Stantec	SC09	28-Jul-11	Index	Burbot		1	120	9.1
Stantec	SC09	28-Jul-11	Index	Sculpin		1	62	2.7
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	62	2.9
Stantec	SC09	28-Jul-11	Index	Longnose Sucker		1	185	62.7
Stantec	SC09	28-Jul-11	Index	Longnose Sucker		1	165	51.4
Stantec	SC09	28-Jul-11	Index	Sculpin		1	63	
Stantec	SC09	28-Jul-11	Index	Pearl Dace		1	63	2.9
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	83	6.6
Stantec	SC09	28-Jul-11	Index	Lake Chub		1	61	2.4
Stantec	SC09	28-Jul-11	Index	Sculpin		1	42	0.9
Stantec	SC10	28-Jul-11	Index	No Fish		0		0.0
Stantec	SC10	28-Jul-11	Index	Brook Trout		1	220	118.5
Stantec	SC10	28-Jul-11	Index	No Fish		0		0.0
Stantec	SC10	28-Jul-11	Index	Pearl Dace		1	66	3.3
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	165	39.7
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	104	13.6
Stantec	SC05	29-Jul-11	Index	Brook Trout		1		31.3
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	96	10.3
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	48	1.1
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	232	132.4
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	157	43.2
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	116	18.0
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	144	35.8
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	137	29.0
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	142	34.4
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	103	10.5
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	72	5.8
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	162	50.4
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	74	5.2
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	118	20.0
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	71	4.5
Stantec	SC05	29-Jul-11	Index	Sculpin		1	74	4.8
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	144	32.1
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	90	8.6
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	88	8.6
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	82	6.1
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	138	32.4
Stantec	SC05	29-Jul-11	Index	Sculpin		1	58	2.5
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	69	4.6
Stantec	SC05	29-Jul-11	Index	Brook Trout		1	85	8.9
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	54	1.7
Stantec	TDA02	29-Jul-11	Index	Pearl Dace		1	88	7.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	93	8.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	43	0.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	48	1.0
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	48	1.2
Stantec	TDA02	29-Jul-11	Index	Pearl Dace		1	98	10.6
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	89	9.3
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	72	6.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	88	8.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	110	14.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	88	7.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	64	3.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	44	1.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	51	1.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	40	0.9
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	75	4.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	67	3.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	75	5.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	126	25.4
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	140	22.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	81	6.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	39	0.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	42	0.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	98	11.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	78	5.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	45	1.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	43	0.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	46	1.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	41	0.9
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	60	2.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	142	31.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	77	5.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	140	30.9

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	47	1.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	96	12.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	46	1.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	44	1.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	45	1.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	42	0.9
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	50	
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	44	0.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	155	42.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	76	5.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	68	3.3
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	38	0.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	43	0.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	43	0.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	49	1.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	100	10.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	44	0.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	44	1.0
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	49	1.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	135	26.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	107	12.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	64	2.3
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	45	1.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	38	0.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	42	0.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	112	12.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	105	14.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	94	8.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	104	9.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	100	9.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	40	0.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	67	3.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	70	3.9
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	48	1.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	105	14.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	94	8.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	104	9.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	100	9.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	40	0.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	67	3.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	70	3.9
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	48	1.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	72	4.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	58	1.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	102	9.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	71	3.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	63	2.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	180	68.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	150	33.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	133	25.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	89	7.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	86	7.3
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	165	35.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	67	3.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	73	4.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	71	3.4
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	67	3.3
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	80	5.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	38	0.9
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	42	0.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	68	3.3
Stantec	TDA02	29-Jul-11	Index	No Fish		0		0.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	170	58.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	105	15.3
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	134	27.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	129	22.1
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	102	10.6
Stantec	TDA02	29-Jul-11	Index	Sculpin		1	72	4.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	155	36.3
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	160	39.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	102	10.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	105	15.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	124	19.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	82	6.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	254	190.4
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	185	68.9
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	164	49.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	145	36.4
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	168	66.2
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	102	10.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	140	29.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	133	23.9

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	112	15.8
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	143	35.6
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	94	9.7
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	64	2.5
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	117	17.0
Stantec	TDA02	29-Jul-11	Index	No Fish		0		0.0
Stantec	TDA02	29-Jul-11	Index	Brook Trout		1	168	57.9
Stantec	SC04	30-Jul-11	Index	Brook Trout		1	169	53.0
Stantec	SC04	30-Jul-11	Index	Sculpin		1	66	4.2
Stantec	SC04	30-Jul-11	Index	Brook Trout		1	125	22.4
Stantec	SC04	30-Jul-11	Index	Brook Trout		1	65	3.8
Stantec	SC04	30-Jul-11	Index	No Fish		0		0.0
Stantec	SC04	30-Jul-11	Index	Brook Trout		1	149	45.3
Stantec	SC04	30-Jul-11	Index	Brook Trout		1	240	164.1
Stantec	SC04	30-Jul-11	Index	Brook Trout		1	160	43.9
Stantec	SC04	30-Jul-11	Index	Brook Trout		1	220	88.6
Stantec	SC04	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	48	1.1
Stantec	TDA01	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	123	19.9
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	57	2.9
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	105	11.8
Stantec	TDA01	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA01	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	103	12.7
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	163	42.7
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	104	13.5
Stantec	TDA01	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA01	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	115	17.1
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	84	7.0
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	124	21.4
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	67	4.0
Stantec	TDA01	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	108	14.6
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	131	21.8
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	119	16.3
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	126	20.3
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	103	13.1
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	98	8.7
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	50	1.8
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	86	8.0
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	125	17.9
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	114	15.1
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	127	21.9
Stantec	TDA01	30-Jul-11	Index	Brook Trout		1	118	16.4
Stantec	TDA01	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA02	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	145	30.1
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	181	70.0
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	188	86.7
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	182	68.1
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	195	82.6
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	152	29.4
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	140	28.4
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	130	22.7
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	42	1.3
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	145	29.6
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	115	20.1
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	103	12.3
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	180	65.4
Stantec	TDA02	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	45	0.7
Stantec	TDA02	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA02	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	111	16.2
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	73	5.2
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	68	3.2
Stantec	TDA02	30-Jul-11	Index	No Fish		0		0.0
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	172	50.5
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	162	52.9
Stantec	TDA02	30-Jul-11	Index	Brook Trout		1	129	22.9
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	65	2.8
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	68	4.9
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	61	2.8
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	80	6.3
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	90	8.1
Stantec	PLN S1	1-Aug-11	Index	Longnose Dace		1	98	11.5
Stantec	PLN S1	1-Aug-11	Index	Longnose Dace		1	108	15.5
Stantec	PLN S1	1-Aug-11	Index	Sculpin		1	51	3.7
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	103	11.1
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	80	6.3

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	85	7.2
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	86	7.8
Stantec	PLN S1	1-Aug-11	Index	Longnose Dace		1	98	11.1
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	89	8.6
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	79	6.1
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	92	8.0
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	86	7.3
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	106	14.0
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	67	3.6
Stantec	PLN S1	1-Aug-11	Index	Brook Trout		1	56	2.5
Stantec	PLN S1	1-Aug-11	Index	White Sucker		1	108	15.7
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	100	11.8
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	84	9.5
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	83	6.4
Stantec	PLN S1	1-Aug-11	Index	Burbot		1	52	1.1
Stantec	PLN S1	1-Aug-11	Index	No Fish		0		0.0
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	71	4.3
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	69	3.2
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	65	3.1
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	101	13.4
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	87	7.0
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	65	3.7
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	66	2.8
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	81	5.4
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	66	2.7
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	65	2.6
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	66	2.6
Stantec	PLN S1	1-Aug-11	Index	Sculpin		1	56	2.1
Stantec	PLN S1	1-Aug-11	Index	White Sucker		1	145	34.4
Stantec	PLN S1	1-Aug-11	Index	Longnose Dace		1	131	13.9
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	85	7.8
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	95	9.6
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	71	4.6
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	69	3.9
Stantec	PLN S1	1-Aug-11	Index	Sculpin		1	54	1.7
Stantec	PLN S1	1-Aug-11	Index	White Sucker		1	210	101.8
Stantec	PLN S1	1-Aug-11	Index	Burbot		1	163	24.3
Stantec	PLN S1	1-Aug-11	Index	Burbot		1	125	10.2
Stantec	PLN S1	1-Aug-11	Index	White Sucker		1	89	9.6
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	83	6.6
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	69	2.7
Stantec	PLN S1	1-Aug-11	Index	Lake Chub		1	64	2.8
Stantec	PLN S1	1-Aug-11	Index	Burbot		1	45	0.6
Stantec	PLS S1	1-Aug-11	Index	Burbot		1		
Stantec	PLS S1	1-Aug-11	Index	Longnose Dace		1	113	17.4
Stantec	PLS S1	1-Aug-11	Index	Burbot		1	138	14.4
Stantec	PLS S1	1-Aug-11	Index	Longnose Dace		1	103	12.2
Stantec	PLS S1	1-Aug-11	Index	Burbot		1	136	14.7
Stantec	PLS S1	1-Aug-11	Index	Lake Chub		1	86	6.2
Stantec	PLS S1	1-Aug-11	Index	Lake Chub		1	86	7.1
Stantec	PLS S1	1-Aug-11	Index	Lake Chub		1	57	2.1
Stantec	PLS S1	1-Aug-11	Index	Lake Chub		1	66	3.6
Stantec	PLS S1	1-Aug-11	Index	Lake Chub		1	84	5.8
Stantec	PLS S1	1-Aug-11	Index	Brook Trout		1	270	217.9
Stantec	PLS S1	1-Aug-11	Index	Brook Trout		1	228	111.1
Stantec	PLS S1	1-Aug-11	Index	Longnose Dace		1	82	8.2
Stantec	PLS S1	1-Aug-11	Index	Lake Chub		1	88	7.6
Stantec	PLS S1	1-Aug-11	Index	Lake Chub		1	52	1.6
Stantec	PLS S1	1-Aug-11	Index	Burbot		1	51	1.0
Stantec	PLS S1	1-Aug-11	Index	Brook Trout		1	225	148.7
Stantec	PLS S1	1-Aug-11	Index	Burbot		1	178	38.9
Stantec	PLS S1	1-Aug-11	Index	Brook Trout		1	155	22.7
Stantec	PLS S1	1-Aug-11	Index	White Sucker		1	128	33.1
Stantec	PLS S1	1-Aug-11	Index	Burbot		1	170	39.9
Stantec	PLS S1	1-Aug-11	Index	Brook Trout		1	176	51.7
Stantec	PLS S1	1-Aug-11	Index	Longnose Dace		1		
Stantec	PLS S1	1-Aug-11	Index	Longnose Dace		1	96	5.5
Stantec	PLS S1	1-Aug-11	Index	Longnose Dace		1	84	5.8
Stantec	PLS S1	1-Aug-11	Index	Longnose Dace		1	72	5.0
Stantec	PLS S1	1-Aug-11	Index	Pearl Dace		1	85	7.1
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	54	2.3
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	57	2.6
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	63	3.7
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	59	
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	62	
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	54	
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	67	
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	57	
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	59	
Stantec	PLS S2	1-Aug-11	Index	Burbot		1	155	
Stantec	PLS S2	1-Aug-11	Index	Burbot		1	109	
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	93	

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	59	
Stantec	PLS S2	1-Aug-11	Index	White Sucker		1	133	29.7
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	127	28.9
Stantec	PLS S2	1-Aug-11	Index	White Sucker		1	112	17.7
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	133	26.0
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	98	11.5
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	94	8.9
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	89	9.3
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	56	2.3
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	96	10.7
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	63	3.0
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	183	78.8
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	69	3.9
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	86	8.0
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	91	8.8
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	84	8.3
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	82	9.2
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	89	8.9
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	91	11.4
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	59	2.1
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	69	4.5
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	76	5.5
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	83	7.0
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	80	5.0
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	57	2.0
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	84	6.4
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	98	11.2
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	81	5.1
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	73	4.4
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	56	1.9
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	72	4.4
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	90	7.6
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	78	4.9
Stantec	PLS S2	1-Aug-11	Index	White Sucker		1	73	4.2
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	56	1.9
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	56	2.0
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	63	2.5
Stantec	PLS S2	1-Aug-11	Index	White Sucker		1	118	20.2
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	92	9.6
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	94	9.6
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	71	5.1
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	66	3.9
Stantec	PLS S2	1-Aug-11	Index	White Sucker		1	76	5.7
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	82	6.1
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	83	6.4
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	55	1.9
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	72	4.1
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	76	4.2
Stantec	PLS S2	1-Aug-11	Index	Pearl Dace		1	75	4.9
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	80	7.4
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	65	2.9
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	101	12.3
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	190	
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	182	
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	126	26.4
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	62	2.3
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	91	10.5
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	72	6.0
Stantec	PLS S2	1-Aug-11	Index	Brook Trout		1	109	12.3
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	50	1.8
Stantec	PLS S2	1-Aug-11	Index	Lake Chub		1	75	2.8
Stantec	PLS S2	1-Aug-11	Index	Longnose Dace		1	80	5.8
Stantec	PLS S2	1-Aug-11	Index	Sculpin		1	55	2.7
Stantec	PLN S2	2-Aug-11	Index	Brook Trout		1	218	126.0
Stantec	PLN S2	2-Aug-11	Index	Brook Trout		1	162	39.0
Stantec	PLN S2	2-Aug-11	Index	Brook Trout		1	100	10.7
Stantec	PLN S2	2-Aug-11	Index	Burbot		1	177	34.4
Stantec	PLN S2	2-Aug-11	Index	Longnose Dace		1	106	14.8
Stantec	PLN S2	2-Aug-11	Index	Longnose Dace		1	77	5.5
Stantec	PLN S2	2-Aug-11	Index	Longnose Dace		1	83	6.6
Stantec	PLN S2	2-Aug-11	Index	Lake Chub		1	78	5.7
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	213	112.3
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	216	120.6
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	85	7.3
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	41	0.7
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	48	1.1
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	59	2.0
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1		
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1		
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	111	16.8
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	105	12.2
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	58	2.2

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
Stantec	PLN S3	2-Aug-11	Index	Sculpin		1	59	3.0
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	55	1.5
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	73	5.0
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	65	3.9
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	52	1.6
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	42	0.9
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	101	11.7
Stantec	PLN S3	2-Aug-11	Index	Sculpin		1	84	6.4
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	88	8.9
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	61	2.4
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	99	12.7
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	62	2.7
Stantec	PLN S3	2-Aug-11	Index	No Fish		0		0.0
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	122	24.9
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	94	12.5
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	101	10.7
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	65	2.8
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	95	10.9
Stantec	PLN S3	2-Aug-11	Index	Sculpin		1	54	1.8
Stantec	PLN S3	2-Aug-11	Index	No Fish		0		0.0
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	79	6.7
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	84	6.8
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	101	14.4
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	85	6.6
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	94	8.7
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	100	11.5
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	93	9.9
Stantec	PLN S3	2-Aug-11	Index	Longnose Dace		1	74	4.5
Stantec	PLN S3	2-Aug-11	Index	Brook Trout		1	98	12.8
AMEC	Pike Lake North	11-Aug-12	Index	Burbot		1	81	3.7
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	105	11.6
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	86	6.1
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	60	2.2
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	76	4.9
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	36	0.6
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	77	5.0
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	93	9.5
AMEC	Pike Lake North	11-Aug-12	Index	Brook Trout		1	114	16.0
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	82	5.0
AMEC	Pike Lake North	11-Aug-12	Index	White Sucker		1	171	60.5
AMEC	Pike Lake North	11-Aug-12	Index	White Sucker		1	120	20.7
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	90	7.5
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	66	2.2
AMEC	Pike Lake North	11-Aug-12	Index	Burbot		1	72	2.7
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	87	6.8
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	88	6.6
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	87	5.5
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	75	4.1
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	180	65.1
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	95	9.6
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	106	13.1
AMEC	Pike Lake North	11-Aug-12	Index	Burbot		1	62	2.1
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	98	10.9
AMEC	Pike Lake North	11-Aug-12	Index	White Sucker		1	190	21.1
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	77	5.0
AMEC	Pike Lake North	11-Aug-12	Index	Burbot		1	62	1.2
AMEC	Pike Lake North	11-Aug-12	Index	White Sucker		1	112	1.7
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	97	7.3
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	86	6.0
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	93	6.3
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	82	5.8
AMEC	Pike Lake North	11-Aug-12	Index	Burbot		1	52	1.1
AMEC	Pike Lake North	11-Aug-12	Index	Burbot		1	136	14.9
AMEC	Pike Lake North	11-Aug-12	Index	White Sucker		1	119	17.3
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	69	2.3
AMEC	Pike Lake North	11-Aug-12	Index	Lake Chub		1	87	6.0
AMEC	Pike Lake North	12-Aug-12	Index	Longnose Sucker		1	79	7.2
AMEC	Pike Lake North	13-Aug-12	Index	Lake Chub		1	80	5.1
AMEC	Pike Lake North	14-Aug-12	Index	Longnose Sucker		1	105	12.7
AMEC	Pike Lake North	15-Aug-12	Index	Longnose Sucker		1	76	5.3
AMEC	RP01	17-Aug-12	Quantatitive	Brook Trout	1	1	188	70.8
AMEC	RP01	17-Aug-12	Quantatitive	Brook Trout	1	1	150	38.0
AMEC	RP01	17-Aug-12	Quantatitive	Lake Chub	1	1	53	2.3
AMEC	RP01	17-Aug-12	Quantatitive	Northern Pike	1	1	282	169.1
AMEC	RP01	17-Aug-12	Quantatitive	Brook Trout	2	1	121	17.4
AMEC	RP01	17-Aug-12	Quantatitive	Lake Chub	2	1	51	0.9
AMEC	RP01	17-Aug-12	Quantatitive	Lake Chub	2	1	56	1.7
AMEC	RP01	17-Aug-12	Quantatitive	Lake Chub	3	1	56	1.8
AMEC	RP01	17-Aug-12	Quantatitive	Lake Chub	3	1	57	2.1
AMEC	RP01	17-Aug-12	Quantatitive	Lake Chub	3	1	60	2.2
AMEC	RP01	17-Aug-12	Quantatitive	Lake Chub	3	1	74	4.2
AMEC	RP01	17-Aug-12	Quantatitive	No Fish	4	0		0.0

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
AMEC	RP02	17-Aug-12	Quantatitive	White Sucker	1	1	171	52.7
AMEC	RP02	17-Aug-12	Quantatitive	Lake Chub	1	1	97	9.4
AMEC	RP02	17-Aug-12	Quantatitive	White Sucker	2	1	107	13.0
AMEC	RP02	17-Aug-12	Quantatitive	No Fish	3	0		0.0
AMEC	RP02	17-Aug-12	Quantatitive	No Fish	4	0		0.0
AMEC	WR01	18-Aug-12	Quantatitive	Brook Trout	1	1	51	1.1
AMEC	WR01	18-Aug-12	Quantatitive	Brook Trout	1	1	100	10.9
AMEC	WR01	18-Aug-12	Quantatitive	Brook Trout	2	1	47	1.1
AMEC	WR01	18-Aug-12	Quantatitive	Brook Trout	3	1	47	0.8
AMEC	WR01	18-Aug-12	Quantatitive	No Fish	4	0		0.0
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	58	1.8
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	67	3.1
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	77	4.9
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	68	2.8
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	59	2.2
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	65	3.0
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	61	2.2
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	60	2.3
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	71	3.8
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	85	6.6
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	60	2.2
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	84	7.2
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	47	1.2
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	55	2.0
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	57	2.1
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	162	42.6
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	1	1	161	43.7
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	2	1	75	3.9
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	2	1	72	3.3
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	2	1	69	2.4
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	2	1	74	3.4
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	2	1	54	1.3
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	2	1	64	2.9
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	2	1	56	2.0
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	2	1	41	0.9
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	3	1	72	3.9
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	3	1	71	3.7
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	3	1	76	4.1
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	3	1	46	1.1
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	3	1	58	2.6
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	3	1	53	2.4
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	3	1	62	2.4
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	3	1	101	9.0
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	4	1	39	0.5
AMEC	WR03	19-Aug-12	Quantatitive	Brook Trout	4	1	112	11.8
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	204	89.1
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	190	67.2
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	154	35.9
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	123	18.9
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	130	20.2
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	133	22.6
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	121	18.2
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	80	5.2
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	44	0.8
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	1	1	50	1.3
AMEC	TI01	20-Aug-12	Quantatitive	Sculpin	1	1	88	8.4
AMEC	TI01	20-Aug-12	Quantatitive	Sculpin	1	1	70	4.2
AMEC	TI01	20-Aug-12	Quantatitive	Sculpin	1	1	60	2.3
AMEC	TI01	20-Aug-12	Quantatitive	Sculpin	1	1	22	0.1
AMEC	TI01	20-Aug-12	Quantatitive	Sculpin	1	1	20	0.1
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	2	1	135	24.1
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	2	1	141	28.6
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	2	1	94	7.8
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	2	1	94	7.9
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	2	1	99	9.3
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	2	1	85	6.5
AMEC	TI01	20-Aug-12	Quantatitive	Brook Trout	2	1	91	7.4
AMEC	TI01	20-Aug-12	Quantatitive	Sculpin	2	1	64	3.1
AMEC	TI01	20-Aug-12	Quantatitive	Sculpin	3	1	41	0.8
AMEC	TI01	20-Aug-12	Quantatitive	No Fish	4	0		0.0
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	122	20.1
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	144	28.1
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	154	35.1
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	228	112.6
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	104	10.5
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	70	3.6
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	101	10.0
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	80	5.1
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	82	5.6
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	75	3.7
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	70	3.5
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	58	1.8

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	1	1	45	0.9
AMEC	TI02	20-Aug-12	Quantatitive	Brook Trout	2	1	179	60.2
AMEC	TI02	20-Aug-12	Quantatitive	No Fish	3	0		0.0
AMEC	TI02	20-Aug-12	Quantatitive	No Fish	4	0		0.0
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	1	1	102	9.5
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	1	1	156	45.8
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	1	1	178	52.4
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	2	1	129	22.0
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	2	1	87	7.3
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	2	1	149	35.5
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	2	1	166	53.7
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	2	1	164	46.2
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	2	1	152	34.8
AMEC	TI03	21-Aug-12	Quantatitive	Brook Trout	3	1	185	63.4
AMEC	TI03	21-Aug-12	Quantatitive	No Fish	4	0		0.0
AMEC	TI04	21-Aug-12	Quantatitive	Brook Trout	1	1	43	1.2
AMEC	TI04	21-Aug-12	Quantatitive	Brook Trout	1	1	72	3.9
AMEC	TI04	21-Aug-12	Quantatitive	Brook Trout	1	1	75	3.1
AMEC	TI04	21-Aug-12	Quantatitive	Brook Trout	1	1	75	7.2
AMEC	TI04	21-Aug-12	Quantatitive	Brook Trout	1	1	136	27.1
AMEC	TI04	21-Aug-12	Quantatitive	Brook Trout	2	1	40	0.7
AMEC	TI04	21-Aug-12	Quantatitive	Brook Trout	3	1	65	2.4
AMEC	TI04	21-Aug-12	Quantatitive	No Fish	4	0		0.0
WSP	Mills Lake Outflow	4-Aug-23	Index	Brook Trout	1	1	183	69.7
WSP	Mills Lake Outflow	4-Aug-23	Index	Brook Trout	1	1	146	36.0
WSP	Mills Lake Outflow	4-Aug-23	Index	Brook Trout	1	1	147	30.4
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	129	24.3
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	126	28.1
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	101	13.3
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	110	15.2
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	93	8.2
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	96	10.5
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	87	7.9
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	71	3.9
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	81	6.4
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	68	2.3
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	82	6.4
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	63	2.8
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	58	1.4
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	45	2.2
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	54	2.5
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	56	1.9
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	50	1.8
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	53	2.7
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	68	1.5
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	54	2.4
WSP	Mills Lake Outflow	4-Aug-23	Index	Brook Trout	1	1	154	37.4
WSP	Mills Lake Outflow	4-Aug-23	Index	Brook Trout	1	1	156	55.8
WSP	Mills Lake Outflow	4-Aug-23	Index	Brook Trout	1	1	123	17.9
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	77	4.1
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	104	11.0
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Sucker	1	1	106	12.0
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	55	1.8
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	76	4.1
WSP	Mills Lake Outflow	4-Aug-23	Index	Burbot	1	1	222	59.6
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Sucker	1	1	97	8.5
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	98	9.6
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Sucker	1	1	89	6.2
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Sucker	1	1	87	6.5
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	52	2.5
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	58	1.8
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	69	4.0
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	90	8.4
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	117	14.1
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	56	2.1
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	83	6.8
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	72	4.0
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	73	3.6
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	84	5.3
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	83	4.9
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	92	7.6
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	106	4.6
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Sucker	1	1	55	1.2
WSP	Mills Lake Outflow	4-Aug-23	Index	Lake Chub	1	1	50	1.6
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	54	1.4
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	53	1.4
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	70	3.2
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	72	4.2
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	91	8.3
WSP	Mills Lake Outflow	4-Aug-23	Index	Burbot	1	1	117	10.3
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	48	0.8
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	106	11.5

Appendix B
Riverine Fish Capture Data

Consultant	Location	Date	Station Type	Species	Sweep Number	Total Catch	Length (mm)	Weight (g)
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	84	5.8
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	74	4.4
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	50	1.0
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Dace	1	1	55	2.4
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	59	1.9
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	70	3.9
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Sucker	1	1	80	4.9
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	85	5.9
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	74	4.8
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	63	2.9
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	60	2.1
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	52	2.3
WSP	Mills Lake Outflow	4-Aug-23	Index	Longnose Sucker	1	1	54	1.1
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	62	2.1
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	81	5.3
WSP	Mills Lake Outflow	4-Aug-23	Index	Burbot	1	1	59	0.9
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	52	1.1
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	53	1.1
WSP	Mills Lake Outflow	4-Aug-23	Index	Sculpin	1	1	61	2.2
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	55	1.0
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	61	0.7
WSP	Mills Lake Outflow	4-Aug-23	Index	White Sucker	1	1	43	0.6

APPENDIX C

Lacustrine Fish Capture Data

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	17-Jul-11	RP01	Gillnet	GN01				No Fish	0		0.0		
Stantec	2011	17-Jul-11	RP01	Gillnet	GN02				No Fish	0		0.0		
Stantec	2011	17-Jul-11	RP01	Gillnet	GN03				No Fish	0		0.0		
Stantec	2011	17-Jul-11	RP01	Gillnet	GN04				No Fish	0		0.0		
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Northern Pike	1	680		2402.3	
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Sculpin	1	46	0.6		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Sculpin	1	51	0.9		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Sculpin	1	53	1.7		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Sculpin	1	56	1.6		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Lake Chub	1	65	2.8		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Lake Chub	1	60	2.1		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Lake Chub	1	69	3.2		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Lake Chub	1	68	2.1		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Lake Chub	1	73	3.7		0.95
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Lake Chub	1	65	2.2		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Lake Chub	1	66	2.5		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Sculpin	1	53	1.3		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN01				Sculpin	1	46	0.9		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN02				Burbot	1	37	0.6		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN02				Sculpin	1	55	0.9		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN02				Burbot	1	37	0.6		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN02				Sculpin	1	46	0.7		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN02				Northern Pike	1	46	0.6		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN02				Northern Pike	1	71	2.6		0.73
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN02				Sculpin	1	43	0.7		-
Stantec	2011	17-Jul-11	PLS	Fyke Net	FN02				Sculpin	1	59	2.3		-
Stantec	2011	17-Jul-11	PLS	Gillnet	GN01				No Fish	0		0.0		
Stantec	2011	17-Jul-11	PLS	Gillnet	GN02				Northern Pike	1	730		2980.7	
Stantec	2011	17-Jul-11	PLS	Gillnet	GN02				White Sucker	1	117	17.6		1.10
Stantec	2011	17-Jul-11	PLS	Gillnet	GN03				No Fish	0		0.0		
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN01				Northern Pike	1	248	126.5		0.83
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN01				Lake Chub	125			375.0	
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	3.9		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	65	2.2		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	3.3		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	64	2.9		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	66	2.9		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	67	2.9		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	68	3.2		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	67	2.8		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	62	1.2		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	75	3.9		0.92
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	67	3.1		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	60	2.5		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	60	2.4		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	69	3.5		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	66	3.1		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	65	2.4		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	61	2.1		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	65	2.0		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	64	2.5		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	3.7		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	2.7		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	75	4.5		1.07
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	67	2.2		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	3.9		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	3.5		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	63	3.2		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	69	3.0		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	62	2.5		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	4.2		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	63	2.4		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	88	8.5		1.25
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	3.1		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	58	1.9		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	68	2.5		-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	67	2.7		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	64	3.4		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	62	2.9		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	62	3.4		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	68	3.4		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	59	2.1		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	66	2.4		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	64	2.8		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	2.5		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	78	4.3		0.91
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	70	3.1		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	59	2.8		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	74	4.6		1.14
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	65	2.6		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	57	2.4		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	1	65	2.7		-
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Lake Chub	464			1392.0	
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	262	230.5		1.28
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	245	167.8		1.14
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	188	85.2		1.28
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	182	81.2		1.35
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	165	55.0		1.22
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	137	29.8		1.16
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				Burbot	1	188	38.0		0.57
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	188	83.1		1.25
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	128	23.8		1.13
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	119	18.4		1.09
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	112	16.7		1.19
Stantec	2011	17-Jul-11	RP01	Fyke Net	FN02				White Sucker	1	112	16.6		1.18
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Northern Pike	1	534		1152.0	
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Sculpin	1	50		1.5	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Sculpin	1	51		1.6	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Sculpin	1	55		2.0	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Sculpin	1	47		1.3	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Sculpin	1	46		1.2	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Sculpin	1	55		2.0	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Sculpin	1	49		1.5	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Sculpin	1	53		1.8	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Lake Chub	1	63		2.7	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Lake Chub	1	75		4.5	
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Lake Chub	1	67		3.2	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Lake Chub	1	64		2.8	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN01				Lake Chub	1	69		3.5	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN02				Northern Pike	1	181		42.9	
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN02				Sculpin	1	57		2.2	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN02				Sculpin	1	55		2.0	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN02				Sculpin	1	58		2.2	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN02				Sculpin	1	52		1.7	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN02				Sculpin	1	56		2.1	-
Stantec	2011	19-Jul-11	RP02	Fyke Net	FN02				Lake Chub	1	90		7.8	
Stantec	2011	19-Jul-11	RP02	Gillnet	GN01				Northern Pike	1	561		1338.4	
Stantec	2011	19-Jul-11	RP02	Gillnet	GN02				No Fish	0		0.0		
Stantec	2011	19-Jul-11	RP02	Gillnet	GN03				No Fish	0		0.0		
Stantec	2011	19-Jul-11	RP02	Gillnet	GN04				No Fish	0		0.0		
Stantec	2011	19-Jul-11	RP03	Fyke Net	FN01				Northern Pike	1	430		596.2	
Stantec	2011	19-Jul-11	RP03	Fyke Net	FN02				Northern Pike	1	640		1997.9	
Stantec	2011	19-Jul-11	RP03	Gillnet	GN01				No Fish	0		0.0		
Stantec	2011	19-Jul-11	RP03	Gillnet	GN02				No Fish	0		0.0		
Stantec	2011	19-Jul-11	RP03	Gillnet	GN03				Northern Pike	1	580		1481.1	
Stantec	2011	19-Jul-11	RP03	Gillnet	GN03				Northern Pike	1	600		1641.9	
Stantec	2011	19-Jul-11	RP03	Gillnet	GN04				No Fish	0		0.0		
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				White Sucker	1	55	1.9		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				Lake Chub	1	62	2.7		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				White Sucker	1	50	1.4		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				Lake Chub	1	35	0.9		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				Lake Chub	1	92	9.1		1.17

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				Lake Chub	1	59	2.0		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				White Sucker	1	53	1.8		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				White Sucker	1	44	0.8		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				Lake Chub	1	39	0.5		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				White Sucker	1	49	1.1		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN01				Sculpin	1	36	0.5		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	240	80.7		0.58
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	176	56.5		1.04
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Brook Trout	1	182	64.0		1.06
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	245	81.1		0.55
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	183	60.5		0.99
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	249	87.0		0.56
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	220	55.9		0.52
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	220	111.7		1.05
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	192	73.4		1.04
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Brook Trout	1	220	134.7		1.27
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	164	45.1		1.02
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	199	40.3		0.51
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	252	159.7		1.00
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	182	64.9		1.08
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	182	52.4		0.87
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	180	55.6		0.95
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	199	45.7		0.58
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	186	64.4		1.00
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	195	73.8		1.00
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	158	40.4		1.02
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	175	50.4		0.94
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	154	18.6		0.51
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	162	49.9		1.17
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Burbot	1	191	37.0		0.53
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	81	4.3		0.81
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	82	5.3		0.96
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	43	1.0		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	114	13.0		0.88
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1		11.8		
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	115	14.2		0.93
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	108	12.5		0.99
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	117	14.8		0.92
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	115	17.7		1.16
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	97	11.6		1.27
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	115	21.4		1.41
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	105	13.0		1.12
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	104	14.3		1.27
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	100	11.7		1.17
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	45	0.8		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	105	12.4		1.07
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	111	14.5		1.06
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	82	5.7		1.03
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	106	12.5		1.05
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	107	13.5		1.10
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	102	11.8		1.11
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	105	12.7		1.10
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	49	1.8		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	113	15.7		1.09
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	106	13.5		1.13
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	104	12.8		1.14
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	66	3.1		-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	88	9.3		1.36
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	109	13.3		1.03
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	77	7.2		1.58
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	117	13.8		0.86
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	100	10.2		1.02
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	97	9.1		1.00
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	108	11.8		0.94
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	102	10.4		0.98
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	94	8.8		1.06

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Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	127	20.9		1.02
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	110	13.7		1.03
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	108	10.3		0.82
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	120	17.8		1.03
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	98	9.5		1.01
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	110	13.2		0.99
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	114	13.7		0.92
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	81	5.9		1.11
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	111		16.3	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	96		9.4	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	116		16.7	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	112		16.7	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	106		14.2	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	103		11.7	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	109		13.8	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	120		18.5	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	70		3.5	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	97		9.7	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	101		12.2	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	70		3.5	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	110		14.2	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	100		11.9	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	87		7.8	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	107		13.1	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	92		8.3	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	100		10.7	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	92		8.3	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	98		10.0	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	105		13.8	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	106		14.2	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	102		11.3	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	104		12.0	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	66		2.9	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	69		3.4	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	69		3.4	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	62		2.8	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	48		1.1	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	45		0.9	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	73		4.0	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	99		10.4	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	99		10.4	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	82		5.6	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	96		9.0	
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				White Sucker	1	61		2.7	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	66		2.9	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Lake Chub	1	65		2.9	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	68		3.2	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	68		3.2	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	66		2.9	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	54		1.6	-
Stantec	2011	20-Jul-11	RP04	Fyke Net	FN02				Pearl Dace	1	49		1.2	-
Stantec	2011	21-Jul-11	RP04	Gillnet	GN01				White Sucker	1	382	680.2		1.22
Stantec	2011	21-Jul-11	RP04	Gillnet	GN02				No Fish	0		0.0		
Stantec	2011	21-Jul-11	RP04	Gillnet	GN03				White Sucker	1	395		762.6	
Stantec	2011	21-Jul-11	RP04	Gillnet	GN03				White Sucker	1	425		952.0	
Stantec	2011	21-Jul-11	RP04	Gillnet	GN04				No Fish	0		0.0		
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	96	8.3		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	86	6.9		1.08
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	110	12.5		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	105	11.3		0.98
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				White Sucker	1	98	9.5		1.01
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	123	16.1		0.87
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	104	11.4		1.01
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	97	9.1		1.00
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				White Sucker	1	118	17.4		1.06
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	88	6.9		1.01

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Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	87	6.1		0.93
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	105	11.2		0.97
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	84	6.4		1.08
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	109	13.3		1.03
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	132	22.7		0.99
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	94	9.7		1.17
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	98	10.5		1.12
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Sculpin	1	61	1.5		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	112	14.3		1.02
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	88	6.4		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	96	8.2		0.93
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	83	5.2		0.91
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	103	8.8		0.81
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	102	9.6		0.90
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	97	8.7		0.95
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	81	5.1		0.96
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	86	7.4		1.16
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	105	11.3		0.98
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	112	14.5		1.03
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	97	8.8		0.96
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	122	19.5		1.07
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	98	11.4		1.21
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	112	14.4		1.02
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	105	11.3		0.98
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	104	11.5		1.02
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	108	13.6		1.08
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	92	8.5		1.09
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	99	9.5		0.98
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	75	4.0		0.95
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Burbot	1	165	26.1		0.58
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	69	5.4		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	120	17.1		0.99
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	93	8.8		1.09
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	106	11.2		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	98	9.0		0.96
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	120	17.0		0.98
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	116	15.6		1.00
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				White Sucker	1	94	7.8		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	102	9.7		0.91
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	107	12.1		0.99
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	87	6.6		1.00
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	107	11.6		0.95
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	98	9.5		1.01
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Pearl Dace	1	95	8.9		1.04
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	90	6.8		0.93
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	100	9.7		0.97
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	126	18.4		0.92
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	112	14.8		1.05
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	102	9.9		0.93
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	104	10.4		0.92
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	103	10.6		0.97
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	97	9.8		1.07
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	64	2.2		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	113	14.0		0.97
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	98	10.9		1.16
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	93	8.9		1.11
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	89	8.6		1.22
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	110	14.9		1.12
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	102	11.5		1.08
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	108	12.5		0.99
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	99	8.8		0.91
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	82	6.5		1.18
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN01				Lake Chub	1	91	8.8		1.17
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	63	3.4		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	94	8.1		0.98
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	59	1.9		-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	98	10.3		1.09
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	83	6.2		1.08
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	102	10.1		0.95
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Burbot	1	156	24.2		0.64
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	120	17.1		0.99
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				White Sucker	1	113	14.4		1.00
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				White Sucker	1	94	7.6		0.92
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				White Sucker	1	126	19.5		0.97
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	100	9.1		0.91
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	107	10.6		0.87
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	93	8.7		1.08
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	71	4.3		1.20
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	102	10.2		0.96
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	83	5.0		0.87
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	60	1.5		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				White Sucker	1	120	17.7		1.02
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	67	3.2		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	60	2.0		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				White Sucker	1	94	8.7		1.05
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	102	11.2		1.06
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	85	6.3		1.03
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	83	5.7		1.00
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	103	12.1		1.11
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	79	3.9		0.79
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	95	9.5		1.11
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	82	7.1		1.29
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	60	1.7		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	125	17.8		0.91
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	63	1.7		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				White Sucker	1	90	7.8		1.07
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	93	9.2		1.14
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	87	6.2		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	65	2.5		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	64	2.1		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	78	3.6		0.76
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	69	2.4		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	84	4.9		0.83
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	74	3.8		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	71	2.8		0.78
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	58	3.2		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	61	2.4		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	87	5.7		0.87
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	88	6.4		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	72	2.6		0.70
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	83	6.5		1.14
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	60	2.4		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	92	7.5		0.96
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	77	4.7		1.03
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	87	6.5		0.99
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	67	2.8		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	60	2.2		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	79	5.3		1.07
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	68	3.6		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	72	3.5		0.94
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	54	1.5		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	54	1.3		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	68	3.1		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	63	2.5		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	63	2.8		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	63	2.5		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Lake Chub	1	44	1.0		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	64	2.2		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	50	1.1		-
Stantec	2011	21-Jul-11	RP05	Fyke Net	FN02				Pearl Dace	1	45	0.9		-
Stantec	2011	21-Jul-11	RP05	Gillnet	GN01				Brook Trout	1	120	20.5		1.19
Stantec	2011	21-Jul-11	RP05	Gillnet	GN01				Brook Trout	1	119	21.4		1.27

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				Brook Trout	1	227		119.9	
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				Brook Trout	1	260	191.8		1.09
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	207	109.8		1.24
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	189	90.2		1.34
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	119	20.0		1.19
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				Brook Trout	1	341	415.6		1.05
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				Brook Trout	1	401	648.5		1.01
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				Brook Trout	1	320	372.5		1.14
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	382	644.9		1.16
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	350	454.0		1.06
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	295	306.7		1.19
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	340	430.0		1.09
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	412	735.6		1.05
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	405	676.9		1.02
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	322	444.2		1.33
Stantec	2011	21-Jul-11	RP05	Gillnet	GN02				White Sucker	1	185	76.5		1.21
Stantec	2011	23-Jul-11	M01	Fyke Net	FN01				Brook Trout	1	185	78.7		1.24
Stantec	2011	23-Jul-11	M01	Fyke Net	FN01				Brook Trout	1	171	51.4		1.03
Stantec	2011	23-Jul-11	M01	Fyke Net	FN01				Brook Trout	1	205	103.0		1.20
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	230	126.2		1.04
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	206	95.2		1.09
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	220	115.1		1.08
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	206	87.8		1.00
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	192	77.9		1.10
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	203	85.8		1.03
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	195	83.0		1.12
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	119	21.1		1.25
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	141	30.2		1.08
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	198	81.1		1.04
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	169	50.4		1.04
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	159	41.3		1.03
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	186	73.5		1.14
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	146	37.6		1.21
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	116	15.6		1.00
Stantec	2011	23-Jul-11	M01	Fyke Net	FN02				Brook Trout	1	108	16.1		1.28
Stantec	2011	23-Jul-11	M01	Gillnet	GN01				Brook Trout	1	151	36.2		1.05
Stantec	2011	23-Jul-11	M01	Gillnet	GN01				Brook Trout	1	182	67.9		1.13
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Burbot	1	205	39.2		0.46
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Burbot	1	184	31.9		0.51
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Burbot	1	191	28.2		0.40
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Burbot	1	167	31.5		0.68
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Burbot	1	195	39.8		0.54
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Burbot	1	145	16.5		0.54
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	126	18.5		0.92
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Brook Trout	1	165	46.5		1.04
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Brook Trout	1	132	24.4		1.06
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	53	2.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Brook Trout	1	145	32.1		1.05
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Brook Trout	1	135	25.8		1.05
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Burbot	1	153	17.1		0.48
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Brook Trout	1	141	29.2		1.04
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Brook Trout	1	121	19.6		1.11
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Brook Trout	1	131	21.6		0.96
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Burbot	1	127	9.6		0.47
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	75	3.6		0.85
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	78	5.0		1.05
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	74	3.1		0.77
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	80	4.7		0.92
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	84	6.6		1.11
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	81	6.0		1.13
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	95	8.1		0.94
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	92	8.5		1.09
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Pearl Dace	1	85	5.6		0.91
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Pearl Dace	1	69	3.3		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	64	3.2		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	72	3.8		1.02

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Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	90	7.6		1.04
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	88	8.1		1.19
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	71	4.9		1.37
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	85	6.9		1.12
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	73	4.9		1.26
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	62	3.7		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	75	4.9		1.16
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	59	2.8		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	53	1.1		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	70	4.1		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	82	6.6		1.20
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	67	3.6		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	70	3.9		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	63	1.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	115	13.2		0.87
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Pearl Dace	1	81	5.2		0.98
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	66	3.2		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	60	0.9		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	73	4.3		1.11
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Pearl Dace	1	77	3.4		0.74
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	70	3.2		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	56	1.5		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	75	5.5		1.30
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	78	5.9		1.24
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	71	3.6		1.01
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	83	5.7		1.00
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	69	4.3		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	85	6.7		1.09
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	75	4.1		0.97
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	70	4.0		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	80	4.4		0.86
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	83	6.1		1.07
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	98	8.9		0.95
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Brook Trout	1	105	14.2		1.23
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	85	7.7		1.25
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	77	7.0		1.53
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	66	5.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	55	2.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	52	1.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	52	0.7		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	41	0.8		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	82	6.1		1.11
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	75	5.5		1.30
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	71	5.0		1.40
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	70	3.5		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	81	6.0		1.13
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	82	5.6		1.02
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	80	6.5		1.27
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	70	5.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	73	5.5		1.41
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	83	8.5		1.49
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	72	4.9		1.31
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	70	4.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	67	3.3		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	75	3.7		0.88
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	76	4.2		0.96
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	51	2.2		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	66	3.6		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	68	4.0		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	69	5.0		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	75	3.7		0.88
Stantec	2011	23-Jul-11	M02	Fyke Net	FN01				Lake Chub	1	65	3.0		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Trout	1	660		2801.5	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	54	1.9		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	95	7.1		0.83
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	48	1.5		-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	74	4.3		1.06
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	53	1.5		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	55	1.7		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	53	1.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	52	1.4		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	82	5.7		1.03
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	39	0.3		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	28	0.2		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	53	1.9		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	82	4.7		0.85
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	37	0.3		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	64	2.6		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	154	37.2		1.02
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	155	38.9		1.04
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	83	4.5		0.79
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	73	4.6		1.18
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	81	6.3		1.19
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	83	5.4		0.94
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	84	8.1		1.37
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	54	1.8		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	78	5.1		1.07
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	41		0.7	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	98	7.3		0.78
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	83	7.5		1.31
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	88		7.0	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	89		7.2	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	40		0.7	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	77		4.7	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	46		1.0	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	53		1.5	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	57		1.9	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	85		6.3	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	72		3.8	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	158	44.1		1.12
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	101		10.5	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	86		6.5	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	66		2.9	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	65		2.8	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	85	4.9		0.80
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	92		8.0	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	53		1.5	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	108	13.2		1.05
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	57		1.9	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	52		1.4	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	88	6.2		0.91
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	101	9.5		0.92
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	80	5.7		1.11
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	144	28.0		0.94
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Burbot	1	156	19.5		0.51
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	82	5.9		1.07
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	81		5.4	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	153		37.6	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	84	5.1		0.86
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	60		2.2	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	183	65.5		1.07
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	80		5.2	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	83		5.8	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	185	60.6		0.96
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	190	70.8		1.03
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	185	69.2		1.09
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	105		11.8	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	95		8.8	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	70		3.5	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	62		2.4	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	67		3.1	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	82		5.6	

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	76		4.5	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	84		6.1	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	68		3.2	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	79		5.0	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	80		5.2	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	90		7.4	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	87		6.7	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	171	51.9		1.04
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Brook Trout	1	155	31.8		0.85
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	106		12.1	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	83		5.8	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	74		4.1	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	57		1.9	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	92		8.0	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	104		11.5	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	55		1.7	-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Burbot	1	168	23.5		0.50
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	104	12.7		1.13
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	83		5.8	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	93		8.2	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	113		14.7	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	105		11.8	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	85		6.3	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	92		8.0	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	94		8.5	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	94		8.5	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	88		7.0	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Pearl Dace	1	87		6.7	
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	65	2.6		-
Stantec	2011	23-Jul-11	M02	Fyke Net	FN02				Lake Chub	1	86	5.4		0.85
Stantec	2011	23-Jul-11	M02	Gillnet	GN01				Brook Trout	1	110	14.6		1.10
Stantec	2011	23-Jul-11	M02	Gillnet	GN01				Brook Trout	1	246	139.5		0.94
Stantec	2011	23-Jul-11	M02	Gillnet	GN01				Brook Trout	1	195	79.2		1.07
Stantec	2011	23-Jul-11	M02	Gillnet	GN01				Brook Trout	1	198	82.7		1.07
Stantec	2011	23-Jul-11	M02	Gillnet	GN01				Brook Trout	1	135	24.4		0.99
Stantec	2011	23-Jul-11	M02	Gillnet	GN02				No Fish	0		0.0		
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Round Whitefish	1	172	47.1		0.93
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	214	120.3		1.23
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	250	92.4		0.59
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	173	63.1		1.22
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	157	45.6		1.18
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	179	70.2		1.22
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	146	41.9		1.35
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	146	21.2		0.68
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	120	13.4		0.78
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	122	13.8		0.76
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	136	32.5		1.29
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	143	33.7		1.15
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	42	1.1		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	45	0.5		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	40	0.4		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	39	0.3		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	37	0.3		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	92	6.7		0.86
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	135	17.1		0.70
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	127	16.9		0.83
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	155	43.3		1.16
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Round Whitefish	1	112	12.2		0.87
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	129	25.3		1.18
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	112	9.8		0.70
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Longnose Sucker	1	137	28.3		1.10
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	118	12.1		0.74
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Brook Trout	1	135	26.9		1.09
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Brook Trout	1	116	19.8		1.27
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	79	4.7		0.95
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	96	8.6		0.97

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Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	61	2.0		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	43	0.7		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	45	1.4		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Lake Chub	1	48	0.7		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	28	0.3		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	32	0.2		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	35	0.3		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Sculpin	1	40	0.7		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	28	0.3		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN01				Burbot	1	30	0.3		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN02				White Sucker	1	127	22.6		1.10
Stantec	2011	25-Jul-11	D01	Fyke Net	FN02				White Sucker	1	147	35.6		1.12
Stantec	2011	25-Jul-11	D01	Fyke Net	FN02				Pearl Dace	1	62	3.6		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN02				Pearl Dace	1	42	1.1		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN02				Sculpin	1	48	0.9		-
Stantec	2011	25-Jul-11	D01	Fyke Net	FN02				Sculpin	1	34	0.4		-
Stantec	2011	25-Jul-11	D01	Gillnet	GN01				Lake Trout	1	420	640.2		0.86
Stantec	2011	25-Jul-11	D01	Gillnet	GN02				Round Whitefish	1	332	343.2		0.94
Stantec	2011	25-Jul-11	D01	Gillnet	GN02				Round Whitefish	1	275	218.5		1.05
Stantec	2011	25-Jul-11	D01	Gillnet	GN02				Round Whitefish	1	325	311.5		0.91
Stantec	2011	25-Jul-11	D01	Gillnet	GN02				Round Whitefish	1	221	120.2		1.11
Stantec	2011	25-Jul-11	D01	Gillnet	GN02				Round Whitefish	1	292	265.6		1.07
Stantec	2011	25-Jul-11	D01	Gillnet	GN02				Lake Trout	1	435	823.6		1.00
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Sculpin	1	138	30.0		1.14
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Lake Chub	1	96	9.0		1.02
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Burbot	1	227	117.9		1.01
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Pearl Dace	1	49	1.0		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Lake Chub	1	62	2.0		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Pearl Dace	1	43	0.9		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Longnose Dace	1	36	0.6		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Pearl Dace	1	48	1.2		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Pearl Dace	1	47	1.1		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Pearl Dace	1	42	0.6		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN01				Pearl Dace	1	46	1.0		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	115	17.6		1.16
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	164	57.1		1.29
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	195	92.2		1.24
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Pearl Dace	1	66	3.1		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	185	76.9		1.21
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	154	44.4		1.22
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	117	20.1		1.25
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Brook Trout	1	198	88.1		1.13
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	188	87.3		1.31
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	186	83.5		1.30
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	149	40.4		1.22
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Burbot	1	172	32.9		0.65
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	139	38.1		1.42
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	169	60.3		1.25
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Longnose Sucker	1	74	4.8		1.18
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Pearl Dace	1	50	1.3		-
Stantec	2011	25-Jul-11	D02	Fyke Net	FN02				Pearl Dace	1	48	0.9		-
Stantec	2011	25-Jul-11	D02	Gillnet	GN01				Brook Trout	1	399	703.1		1.11
Stantec	2011	25-Jul-11	D02	Gillnet	GN02				No Fish	0		0.0		
AMEC	2012	4-Aug-12	Pike Lake South	Fyke Net	FN01				Burbot	1	57		2.0	
AMEC	2012	4-Aug-12	Pike Lake South	Fyke Net	FN01				Burbot	1	59		2.2	
AMEC	2012	4-Aug-12	Pike Lake South	Fyke Net	FN02				Northern Pike	1	256	119.6		
AMEC	2012	4-Aug-12	Pike Lake South	Fyke Net	FN02				Northern Pike	1	245	119.4		
AMEC	2012	4-Aug-12	Pike Lake South	Fyke Net	FN02				Northern Pike	1	234	108.6		
AMEC	2012	4-Aug-12	Pike Lake South	Fyke Net	FN02				Northern Pike	1	580	2000.0		
AMEC	2012	5-Aug-12	Pike Lake South	Fyke Net					Sculpin	1	54		1.9	
AMEC	2012	5-Aug-12	Pike Lake South	Fyke Net					Burbot	1	72	1.9		
AMEC	2012	5-Aug-12	Pike Lake South	Fyke Net					Burbot	1	65	1.8		
AMEC	2012	5-Aug-12	Pike Lake South	Fyke Net					Burbot	1	65	1.2		
AMEC	2012	5-Aug-12	Pike Lake South	Fyke Net					Burbot	1	62	1.1		
AMEC	2012	5-Aug-12	Pike Lake South	Fyke Net					Burbot	1	64	1.1		
AMEC	2012	5-Aug-12	Pike Lake South	Fyke Net					Burbot	1	63	1.7		

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
AMEC	2012	5-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	590	2400.0		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	94	5.6		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	366	259.0		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	61	2.5		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	62	2.2		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	64	1.7		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	61	1.7		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	68	2.6		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	64	3.4		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	56	1.8		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	64	1.4		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	62	1.9		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	65	2.9		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	69	1.5		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	58	2.1		
AMEC	2012	6-Aug-12	Pike Lake South	Fyke Net					Burbot	1	63	1.8		
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	127		14.6	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	128		15.0	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	115		10.8	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	119		12.0	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Burbot	1	54		1.7	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Burbot	1	61		2.4	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Burbot	1	69		3.5	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Burbot	1	61		2.4	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Burbot	1	68		3.4	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Burbot	1	68		3.4	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Burbot	1	68		3.4	
AMEC	2012	7-Aug-12	Pike Lake South	Fyke Net					Burbot	1	62		2.5	
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					Burbot	1	57	1.6		-
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					Northern Pike	1	287	136.6		0.58
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					Northern Pike	1	200	61.2		0.77
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	225	116.6		1.02
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	277	265.6		1.25
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	242	175.5		1.24
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	238	169.7		1.26
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	322	394.0		1.18
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	297	321.3		1.23
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	287	273.5		1.16
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	308	382.1		1.31
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	352	595.0		1.36
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	330	444.6		1.24
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	265	240.9		1.29
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	190	78.3		1.14
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	269	228.2		1.17
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	204	92.7		1.09
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	265	220.7		1.19
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	304	331.2		1.18
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	152	41.9		1.19
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	209	114.2		1.25
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	212	106.2		1.11
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	206	95.6		1.09
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	197	90.1		1.18
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	215	120.4		1.21
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	185	57.6		0.91
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	208	102.4		1.14
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	210	115.6		1.25
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	199	89.7		1.14
AMEC	2012	8-Aug-12	Pike Gully	Fyke Net					White Sucker	1	197	82.3		1.08
AMEC	2012	8-Aug-12	Pike Lake South	Fyke Net					Sculpin	1	68	3.3		
AMEC	2012	8-Aug-12	Pike Lake South	Fyke Net					Burbot	1	57	1.9		
AMEC	2012	8-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	136	17.2		
AMEC	2012	8-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	114	8.6		
AMEC	2012	8-Aug-12	Pike Lake South	Fyke Net					Northern Pike	1	500	2000.0		
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					Burbot	1	150	14.9		0.44
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					Northern Pike	1	89	4.2		0.60
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	290	287.2		1.18

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	405	1000.0		1.51
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	152	43.0		1.22
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	351	572.0		1.32
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	152	43.0		1.22
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	395	510.0		0.83
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	365	573.8		1.18
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	277	245.7		1.16
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	323	419.8		1.25
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	291	303.4		1.23
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	275	255.3		1.23
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	184	72.9		1.17
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	273	251.5		1.24
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	159	39.8		0.99
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	169	54.5		1.13
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	271	244.9		1.23
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	172	57.9		1.14
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	292	228.9		0.92
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	178	66.4		1.18
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	270	233.1		1.18
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	269	216.4		1.11
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	248	162.2		1.06
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	159	44.5		1.11
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	256	187.9		1.12
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	246	180.1		1.21
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	260	209.8		1.19
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	243	166.1		1.16
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	200	103.5		1.29
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	218	128.2		1.24
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	302	323.1		1.17
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	281	265.2		1.20
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	208	109.4		1.22
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	218	119.3		1.15
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	191	90.7		1.30
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	211	113.2		1.21
AMEC	2012	9-Aug-12	Pike Gully	Fyke Net					White Sucker	1	281	260.9		1.18
AMEC	2012	9-Aug-12	Pike Lake South	Fyke Net					Lake Chub	1	86	4.6		
AMEC	2012	9-Aug-12	Pike Lake South	Fyke Net					Burbot	1	40	0.6		
AMEC	2012	9-Aug-12	Pike Lake South	Fyke Net					Sculpin	1	75	7.3		
AMEC	2012	9-Aug-12	Pike Lake South	Fyke Net					Burbot	1	78	2.6		
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Brook Trout	1	273	228		1.12
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Brook Trout	1	259	222.2		1.28
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	275	152.6		0.73
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	280	173.4		0.79
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	312	201.1		0.66
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	280	157.4		0.72
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	273	169.1		0.83
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	300	198.2		0.73
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	299		197.5	
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	284		168.9	
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	307	181.7		0.63
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	273	158.4		0.78
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	257	121.3		0.71
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	319	204.1		0.63
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	184	45.1		0.72
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					Sculpin	1	75		4.3	
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					White Sucker	1	214	118.5		1.21
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					White Sucker	1	295	356.5		1.39
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					White Sucker	1	298	363.2		1.37
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					White Sucker	1	258	239		1.39
AMEC	2012	23-Aug-12	Rose Pond	Fyke Net					White Sucker	1	244	193.7		1.33
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Brook Trout	1	300	326		1.21
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Brook Trout	1	325	382.5		1.11
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	303	209.4		0.75
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	299	197.4		0.74
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	294	178.8		0.70
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	282	149		0.66

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	274	153.1		0.74
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	304	177.9		0.63
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	302	219.3		0.80
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	300	192.4		0.71
AMEC	2012	24-Aug-12	Rose Pond	Fyke Net					White Sucker	1	165	56.5		1.26
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Brook Trout	1	266	210.5		1.12
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Brook Trout	1	346	425.2		1.03
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Burbot	1	116	7.4		0.47
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Lake Chub	1	82	5.3		0.96
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Lake Chub	1	88	5.9		0.87
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	286	154.7		0.66
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	296	199.1		0.77
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	328	305.3		0.87
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	279	167.6		0.77
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	304	211.7		0.75
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	295	183.5		0.71
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	300	204.8		0.76
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	250	125		0.80
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	279	153.3		0.71
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	305	200		0.70
AMEC	2012	25-Aug-12	Rose Pond	Fyke Net					White Sucker	1	243	181.7		1.27
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Burbot	1	92	6		0.77
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	291	185.4		0.75
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Sculpin	1	27		0.3	-
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	321	258.4		0.78
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	306	217.3		0.76
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	312	209.1		0.69
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	303	214.7		0.77
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	274	156.4		0.76
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	290	175.6		0.72
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	292	187.2		0.75
AMEC	2012	26-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	301	187.6		0.69
AMEC	2012	27-Aug-12	Rose Pond	Fyke Net					Burbot	1	162	19.5		0.46
AMEC	2012	27-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	279	155.6		0.72
AMEC	2012	27-Aug-12	Rose Pond	Fyke Net					Sculpin	1	72	3.3		0.88
AMEC	2012	27-Aug-12	Rose Pond	Fyke Net					Northern Pike	1	308	219.2		0.75
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Brook Trout	1	163	36.1		0.83
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Brook Trout	1	223	116.2		1.05
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Brook Trout	1	105	10.3		0.89
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	111	14.7		1.07
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	101	11.6		1.13
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	102	12.7		1.20
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	100	13.5		1.35
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	95	11.7		1.36
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	105	14.3		1.24
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	105	12.8		1.11
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	101	12.3		1.19
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	84	5.7		0.96
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	86	5.6		0.88
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	73	4.4		1.13
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	64	3.4		-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	53	1.7		-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	73	3.3		0.85
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	95	9.8		1.14
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	93	9.7		1.21
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	90	10.6		1.45
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	89	7.6		1.08
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	94	7.7		0.93
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	103	11.4		1.04
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	54		1.7	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	51		1.4	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	51		1.4	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	50		1.3	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	50		1.3	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	52		1.5	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	51		1.4	-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	53		1.6	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	49		1.2	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	53		1.6	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	54		1.7	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	50		1.3	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	48		1.2	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	50		1.3	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	45		1.0	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	51		1.4	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	52		1.5	-
AMEC	2012	28-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	43		0.8	-
AMEC	2012	29-Aug-12	Tailings Pond	Fyke Net					Brook Trout	1	128	16.7		0.80
AMEC	2012	29-Aug-12	Tailings Pond	Fyke Net					Brook Trout	1	113	13.4		0.93
AMEC	2012	29-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	117	14.9		0.93
AMEC	2012	29-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	106	13.1		1.10
AMEC	2012	29-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	104	11.3		1.00
AMEC	2012	29-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	105	12.6		1.09
AMEC	2012	29-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	109	13.3		1.03
AMEC	2012	29-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	73	4.2		1.08
AMEC	2012	30-Aug-12	Tailings Pond	Fyke Net					Brook Trout	1	160	39.3		0.96
AMEC	2012	30-Aug-12	Tailings Pond	Fyke Net					Brook Trout	1	137	21.2		0.82
AMEC	2012	30-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	76	4.2		0.96
AMEC	2012	30-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	101	13.3		1.29
AMEC	2012	30-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	54	0.9		-
AMEC	2012	30-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	103	10.9		1.00
AMEC	2012	30-Aug-12	Tailings Pond	Fyke Net					Lake Chub	1	85	6.6		1.07
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN01	5859947	632238		White Sucker	1	406	668.3		1.00
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN01	5859947	632238		White Sucker	1	432	871.3		1.08
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN01	5859947	632238		White Sucker	1	404	790.3		1.20
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN01	5859947	632238		White Sucker	1	445	794.3		0.90
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN01	5859947	632238		Burbot	1	172	29.2		0.57
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN02	5859910	631943		White Sucker	1	454	1185.4		1.27
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN02	5859910	631943		White Sucker	1	341	599.6		1.51
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN03	5860730	632032		White Sucker	1	414	665.1		0.94
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN03	5860730	632032		White Sucker	1	352	538.6		1.23
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN03	5860730	632032		Lake Chub	1	91	8.3		1.10
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	399	667.8		1.05
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	275	214.6		1.03
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		Northern Pike	1	78	3.2		0.67
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Northern Pike	1	78	3.8		0.80
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Northern Pike	1	106	8.8		0.74
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Northern Pike	1	91	4.9		0.65
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Northern Pike	1	84	3.8		0.64
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	93	9.2		1.14
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	109	16.0		1.24
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	118	19.9		1.21
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	193	78.6		1.09
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Burbot	1	47	0.8		-
WSP	2023	27-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	403	698.8		1.07
WSP	2023	27-Jul-23	Pike Lake North	Gillnet	GN01	5860054	631492		White Sucker	1	378	703.2		1.30
WSP	2023	27-Jul-23	Pike Lake North	Gillnet	GN01	5860054	631492		Lake Whitefish	1	340		486.5	
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN01	5859947	632238		Sculpin	1	48	1.2		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN01	5859947	632238		Sculpin	1	49	1.5		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN02	5859910	631943		White Sucker	1	57	2.3		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN02	5859910	631943		Sculpin	1	47	1.4		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN02	5859910	631943		Sculpin	1	45	1.3		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN02	5859910	631943		Sculpin	1	46	1.1		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN02	5859910	631943		Burbot	1	43	0.8		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN03	5860730	632032		Northern Pike	1	84	4.7		0.79
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN03	5860730	632032		Northern Pike	1	101	7.0		0.68
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN03	5860730	632032		Sculpin	1	48	1.5		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		Northern Pike	1	86	4.7		0.74
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	240	169.2		1.22
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	414	913.2		1.29
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	325	455.6		1.33
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	95	8.8		1.03

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	101	10.6		1.03
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	89	8.9		1.26
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	88	9.0		1.32
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		White Sucker	1	98	10.5		1.12
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN04	5861098	632160		Sculpin	1	50	1.6		-
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Northern Pike	1	115	11.3		0.74
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Northern Pike	1	99	6.0		0.62
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Northern Pike	1	113	9.7		0.67
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	246	188.2		1.26
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	200	97.6		1.22
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	234	173.1		1.35
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	217	133.5		1.31
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	272	148.7		0.74
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	162	60.5		1.42
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		White Sucker	1	141	33.2		1.18
WSP	2023	28-Jul-23	Pike Lake North	Fyke Net	FN05	5860523	632040		Sculpin	1	46	1.2		-
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		Lake Whitefish	1	336		469.8	
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		Lake Whitefish	1	310	362.9		1.22
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		Lake Whitefish	1	354	556.6		1.25
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		Lake Whitefish	1	303	337.2		1.21
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		Lake Whitefish	1	335	457.3		1.22
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		Lake Whitefish	1	302	361.2		1.31
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		White Sucker	1	385	322.9		0.57
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		White Sucker	1	420	989.1		1.34
WSP	2023	28-Jul-23	Pike Lake North	Gillnet	GN02	5860136	632501		White Sucker	1	318	437.6		1.36
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	69	4.0		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	67	3.9		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Sculpin	1	60	2.2		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	71	4.3		1.20
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	69	4.0		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	79	5.6		1.14
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	150	41.4		1.23
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	138	34.4		1.31
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	69	4.0		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Sculpin	1	55	2.2		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	77	5.1		1.12
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Dace	1	47	1.6		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	67	4.1		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Sculpin	1	43	1.3		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Sculpin	1	38	0.9		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Burbot	1	143	19.4		0.66
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Burbot	1	139	17.8		0.66
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Burbot	1	437	657.9		0.79
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Brook Trout	1	211	117.4		1.25
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	76	4.8		1.09
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	68	3.8		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	86	7.1		1.12
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	55	1.5		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	87	8.3		1.26
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	58	1.9		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	86	7.6		1.19
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	53	1.7		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	67	4.0		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	70	3.9		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	232	152.6		1.22
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	70	3.9		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	71	4.0		1.12
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	70	4.6		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	75	5.2		1.23
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	66	3.3		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	60	2.7		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	69	4.1		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Sculpin	1	73	4.9		1.26
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Sculpin	1	58	2.0		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Sculpin	1	52	2.0		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Lake Chub	1	31	0.3		-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	32	0.3		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Burbot	1	147	19.7		0.62
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Burbot	1	142	17.6		0.61
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Burbot	1	124	11.2		0.59
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	72	4.7		1.26
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	70	4.4		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	115	20.7		1.36
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	47	1.4		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	65	3.2		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	64	3.4		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	176	70.1		1.29
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	52	2.1		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	51	1.9		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Burbot	1	285	148.7		0.64
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Burbot	1	132	13.6		0.59
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN10	5853142	634748		Longnose Dace	1	57	2.7		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN10	5853142	634748		Longnose Sucker	1	142	37.8		1.32
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN10	5853142	634748		Sculpin	1	52	1.8		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN10	5853142	634748		Longnose Sucker	1	63	3.7		-
WSP	2023	29-Jul-23	Mills Lake	Fyke Net	FN10	5853142	634748		Sculpin	1	47	1.7		-
WSP	2023	29-Jul-23	Mills Lake	Gillnet	GN03	5854818	635501		Round Whitefish	1	330		363.0	
WSP	2023	29-Jul-23	Mills Lake	Gillnet	GN03	5854818	635501		Round Whitefish	1	375		539.1	
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	94	6.1		0.73
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	51	1.6		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	55	1.8		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	86	7.1		1.12
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	76	4.6		1.05
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Dace	1	83	7.0		1.22
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	55	2.0		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	55	2.2		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	66	3.4		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	71	4.6		1.29
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	60	2.5		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Sculpin	1	52	1.6		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	77	5.2		1.14
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	68	3.4		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	67	3.3		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	69	2.9		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	67	3.8		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	71	4.5		1.26
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	57	2.2		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Sculpin	1	47	1.2		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Lake Chub	1	88	9.0		1.32
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	69	3.9		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	202	102.8		1.25
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	130	26.7		1.22
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	209	117.1		1.28
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	171	68.3		1.37
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	189	85.9		1.27
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	152	43.4		1.24
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Brook Trout	1	155	45.1		1.21
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	123	22.2		1.19
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	77	5.5		1.20
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	203	107.7		1.29
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	128	26.4		1.26
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	170	61.2		1.25
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	155	47.1		1.26
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	69	3.8		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Longnose Sucker	1	74	4.7		1.16
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Burbot	1	143	15.1		0.52
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN06	5855173	634826		Sculpin	1	50	1.3		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	54	1.7		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Sculpin	1	51	1.5		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Longnose Sucker	1	36	0.4		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Burbot	1	52	0.9		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Lake Chub	1	52	1.6		-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN07	5854658	634842		Sculpin	1	49	1.1		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Brook Trout	1	352	553.2		1.27
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Lake Chub	1	65	3.0		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	103	14.4		1.32
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Lake Chub	1	84	6.8		1.15
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Lake Chub	1	70	3.9		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	169	55.2		1.14
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Lake Chub	1	79	5.8		1.18
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	187	82.1		1.26
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	260	202.3		1.15
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	109	14.2		1.10
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Lake Chub	1	85	6.7		1.09
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	65	3.0		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Sculpin	1	47	1.1		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	109	14.7		1.14
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	107	14.3		1.17
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Longnose Sucker	1	74	4.6		1.14
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN08	5854281	634850		Burbot	1	139	16.5		0.61
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Lake Chub	1	98	9.7		1.03
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	69	3.3		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Lake Chub	1	71	3.8		1.06
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Lake Chub	1	72	3.6		0.96
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	119	20.0		1.19
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	60	2.5		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Lake Chub	1	73	4.4		1.13
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	70		4.4	-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	78	5.7		1.20
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	49	1.3		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	161	54.0		1.29
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Lake Chub	1	66	2.8		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	70	4.5		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	101	11.9		1.16
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	125	22.8		1.17
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	68	4.5		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	71	4.3		1.20
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	72	4.6		1.23
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	75	5.8		1.37
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	118	16.6		1.01
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	119	19.1		1.13
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	48	1.4		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	45	1.1		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	61	3.2		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Lake Chub	1	65	3.2		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	85	5.8		0.94
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	67	3.9		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	126	20.5		1.02
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	124	21.3		1.12
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Lake Chub	1	67	4.0		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Lake Chub	1	82	6.2		1.12
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Longnose Sucker	1	108	13.9		1.10
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	46	1.2		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	90	7.8		1.07
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	53	1.5		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	85	6.9		1.12
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Sculpin	1	49	1.4		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN09	5853975	634752		Burbot	1	289	157.2		0.65
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN10	5853142	634748		Longnose Sucker	1	181	70.9		1.20
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN10	5853142	634748		Sculpin	1	47	1.5		-
WSP	2023	30-Jul-23	Mills Lake	Fyke Net	FN10	5853142	634748		Sculpin	1	60	3.0		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN11	5857713	640871		Lake Chub	1	91	10.3		1.37
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN11	5857713	640871		Lake Chub	1	60	2.9		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN11	5857713	640871		Lake Chub	1	101	13.1		1.27
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN11	5857713	640871		Lake Chub	1	75	4.8		1.14
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN11	5857713	640871		Lake Chub	1	58	2.2		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN11	5857713	640871		Longnose Dace	1	60	2.5		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN11	5857713	640871		Burbot	1	133	14.3		0.61

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN11	5857713	640871		Burbot	1	124	11.2		0.59
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Brook Trout	1	241		185.0	0.00
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	77	11.7		2.56
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Longnose Dace	1	72	12.3		3.30
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	71	2.6		0.73
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	98	11.7		1.24
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	107	12.3		1.00
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	99	9.6		0.99
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	91	8.2		1.09
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	108	12.4		0.98
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	74	4.8		1.18
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	88	6.0		0.88
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	84	5.6		0.94
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	87	5.6		0.85
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	83	6.3		1.10
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	95	7.1		0.83
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	95	7.4		0.86
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	67	3.9		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	95	8.3		0.97
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Longnose Dace	1	84	7.8		1.32
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	21		176.1		
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		White Sucker	1	240	168.4		1.22
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		White Sucker	1	235	179.4		1.38
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Longnose Sucker	1	222	149.2		1.36
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		White Sucker	1	176	69.3		1.27
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Longnose Sucker	1	217	136.3		1.33
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		White Sucker	1	161	61.9		1.48
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Burbot	1	215	59.3		0.60
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Burbot	1	116	10.5		0.67
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Longnose Dace	1	72	5.4		1.45
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	95	10.1		1.18
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	109	13.1		1.01
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	62	2.1		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	75	4.3		1.02
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Lake Chub	1	56	1.2		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Burbot	1	228	71.8		0.61
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN12	5857827	641151		Burbot	1	207	57.8		0.65
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN13	5857264	641664		No Fish	0		0.0		
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Lake Chub	1	81	6.2		1.17
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Lake Chub	1	87	7.5		1.15
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Lake Chub	1	77	5.4		1.18
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Lake Chub	1	71	3.9		1.09
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Lake Chub	1	60	2.3		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Lake Chub		63	55.7		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Longnose Dace	1	50	1.4		-
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Longnose Dace	1	72	5.3		1.42
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Burbot	1	293	159.5		0.63
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Burbot	1	238	82.1		0.61
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN14	5856973	641738		Burbot	1	152	28.9		0.82
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN15	5856261	641814		Lake Chub	1	78	6.2		1.31
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN15	5856261	641814		Lake Chub	1	102	17.1		1.61
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN15	5856261	641814		Lake Chub	1	102	12.9		1.22
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN15	5856261	641814		Lake Chub	1	77	4.3		0.94
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN15	5856261	641814		Sculpin	1	71	4.4		1.23
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN15	5856261	641814		Burbot	1	246	95.3		0.64
WSP	2023	2-Aug-23	Riorden Lake	Fyke Net	FN15	5856261	641814		Burbot	1	213	54.0		0.56
WSP	2023	2-Aug-23	Riorden Lake	Gillnet	GN04	5856739	641707		No Fish	0		0.0		
WSP	2023	3-Aug-23	Riorden Lake	Gillnet	GN05	5826545	641608		No Fish	0		0.0		
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN16	5861499	637045		White Sucker	1	478	1402.6		1.28
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN16	5861499	637045		Longnose Sucker	1	128	20.8		0.99
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN16	5861499	637045		White Sucker	1	115	21.6		1.42
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	152	42.4		1.21
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	50	1.9		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	51	2.1		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	51	2.2		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	43	1.3		-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	46	1.4		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	46	1.5		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Lake Chub	1	85	7.4		1.20
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Lake Chub	1	98	10.8		1.15
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Lake Chub	1	103	7.6		0.70
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker		433		881.3	
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	47		1.2	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	40		0.7	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	38		0.6	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	46		1.1	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	44		1.0	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	44		1.0	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	43		0.9	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	42		0.9	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	38		0.6	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	45		1.1	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	40		0.7	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	47		1.2	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	49		1.4	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	42		0.9	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	42		0.9	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	40		0.7	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	44		1.0	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	43		0.9	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	46		1.1	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	47		1.2	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	43		0.9	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	41		0.8	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	78		6.0	
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	123		22.6	
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Lake Chub	1	36		0.5	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Lake Chub	1	38		0.6	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Lake Chub	1	80		5.5	
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Lake Chub	1	75		4.5	
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	66		3.7	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Lake Chub	1	68		3.3	-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	38	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	37	0.6		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	45	0.7		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	46	1.5		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	44	0.9		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	48	1.5		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	51	1.7		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Lake Chub	1	93	10.0		1.24
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	43	1.1		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Lake Chub	1	94	8.4		1.01
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Lake Chub	1	90	8.8		1.21
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	44	1.1		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	112	17.9		1.27
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	70	5.0		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		White Sucker	1	85	7.2		1.17
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	46	1.2		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN18	5860507	637897		Longnose Sucker	1	51	1.3		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		White Sucker	1	48	1.3		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	71	4.2		1.17
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	166	41.8		0.91
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	120	16.0		0.93
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	86	6.8		1.07
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	75	5.4		1.28
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	80	5.9		1.15
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		White Sucker	1	49	1.4		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		White Sucker	1	39	0.7		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		White Sucker	1	41	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	45	1.1		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	55	1.5		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	60	2.1		-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	50	1.5		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	47	1.3		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Burbot	1	52	1.2		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	46	1.0		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Lake Chub	1	56	1.6		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	40	0.7		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	43	1.1		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	44	1.0		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	42	1.0		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	45	1.2		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	43	1.1		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	40	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	83	6.6		1.15
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Lake Chub	1	102	12.8		1.21
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	44	1.1		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	47	1.6		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	81	6.3		1.19
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	119	21.0		1.25
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	75	5.8		1.37
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	45	1.9		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	82	7.2		1.31
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	85	1.3		0.21
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	82	6.2		1.12
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	59	3.9		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	74	4.4		1.09
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41	0.7		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	45	1.0		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	45	1.0		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	50	1.4		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	40	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	39	0.5		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	44	0.9		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	46	1.3		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42	0.9		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42	0.6		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42	0.6		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	44	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41	0.8		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	46	1.4		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42	0.9		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	73	4.5		1.16
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	45	1.0		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	77	5.8		1.27
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	68	4.0		-
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Lake Chub	1	80	5.0		0.98
WSP	2023	3-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Burbot	1	142	21.8		0.76
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	92		9.7	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	91		9.4	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		White Sucker	1	73		4.6	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	51		1.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Lake Chub	1	92		8.3	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		White Sucker	1	32		0.4	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		White Sucker	1	110		15.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		White Sucker	1	70		4.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	72		4.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	75		5.4	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Lake Chub	1	86		6.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	44		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	84		7.4	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Round Whitefish	1	66		2.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Lake Chub	1	84		6.3	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Lake Chub	1	99		10.4	

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	51		1.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	82		6.9	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		White Sucker	1	106		14.2	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Longnose Sucker	1	41		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN21	5859849	638001		Burbot	1	115		10.0	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	48		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	51		1.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	48		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	48		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	45		1.2	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	51		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	46		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	44		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	52		1.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	48		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	51		1.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Lake Chub	1	57		2.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	48		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	49		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	44		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	53		1.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	42		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Lake Chub	1	47		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	50		1.6	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	51		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	47		1.4	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	52		1.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	48		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Lake Chub	1	78		5.1	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	44		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	41		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	47		1.2	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	48		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	50		1.6	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	41		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	49		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	48		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	41		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Lake Chub	1	88		7.3	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	44		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Lake Chub	1	89		7.5	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		White Sucker	1	46		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	48		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN17	5860859	637030		Longnose Sucker	1	47		1.4	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN16	5861499	637045		Longnose Sucker	1	52		1.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN16	5861499	637045		Lake Chub	1	72		4.0	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	119		20.5	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	109		13.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	198		90.3	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	137		30.9	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	121		21.5	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	65		2.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	85		7.7	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	77		5.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	91		8.0	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	104		13.9	

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	106		14.7	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	44		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	111		16.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	52		1.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	62		2.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	142		34.3	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	115		18.6	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	52		1.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	86		6.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	92		8.3	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	45		1.2	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	96		11.0	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	85		7.7	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	111		16.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	53		1.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Sculpin	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Lake Chub	1	83		6.1	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Longnose Sucker	1	104		13.9	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		Burbot	1	106		7.9	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN19	5858933	637954		White Sucker	1	81		6.3	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Lake Chub	1	115		16.3	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	45		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	78		5.6	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	63		2.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	46		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	44		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	44		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	37		0.6	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	44		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Lake Chub	1	81		5.7	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	38		0.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	31		0.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	44		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	82		6.5	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	36		0.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	44		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	43		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	51		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	46		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	71		4.2	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	46		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	42		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	41		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	44		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	39		0.8	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	32		0.4	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	44		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Lake Chub	1	76		4.7	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	83		6.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	48		1.3	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	44		1.0	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	43		1.1	-

Appendix C
Lacustrine Fish Capture Data

Consultant	Sampling Year	Date	Location	Gear Type	Net ID	Northing	Easting	zone	Species	Total Catch	Length (mm)	Weight (g)	Estimated Weight	Condition Factor
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	41		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	43		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	43		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	40		0.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	87		7.8	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	43		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	82		6.5	
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	43		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	51		1.7	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	43		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	51		1.5	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		Longnose Sucker	1	43		1.1	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	42		0.9	-
WSP	2023	4-Aug-23	Long Lake	Fyke Net	FN20	5859663	636474		White Sucker	1	33		0.4	-
WSP	2023	5-Aug-23	Long Lake	Gillnet	GN06	5861176	635652		No Fish	0		0.0		
WSP	2023	5-Aug-23	Long Lake	Gillnet	GN07	5861671	636256		No Fish	0		0.0		
WSP	2023	5-Aug-23	Long Lake	Gillnet	GN06	5861176	635652		No Fish	0		0.0		
WSP	2023	5-Aug-23	Long Lake	Gillnet	GN07	5861671	636256		No Fish	0		0.0		

APPENDIX D

Fish Biometric Summaries

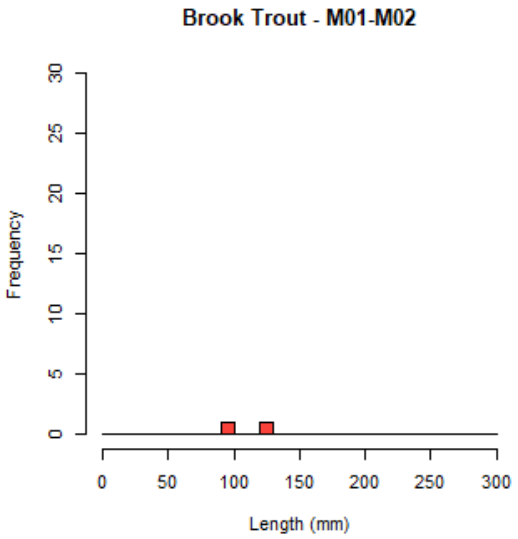
Appendix D
Fish Biometric Summaries - RIverine Summary Statistics

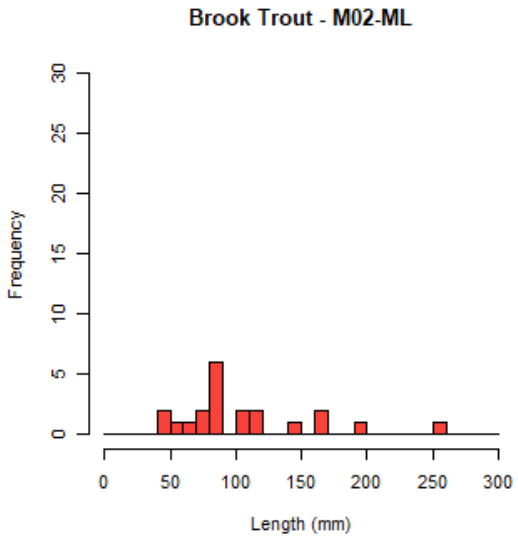
Species	Location	Total Catch	Length (mm)			Weight (g)		
			Minimum Measured	Mean Measured	Maximum Measured	Minimum Measured	Mean Measured	Maximum Measured
Brook Trout	M01-M02	2	94	109.5	125	8.6	16.7	24.8
	M02-ML	22	45	107.8	260	1.3	28.2	216.1
	Mills Lake Outflow	6	123	151.5	183	17.9	41.2	69.7
	Pike Lake North Outflow	1	114	114.0	114	16.0	16.0	16.0
	PLN S1	1	56	56.0	56	2.5	2.5	2.5
	PLN S2	3	100	160.0	218	10.7	58.6	126.0
	PLN S3	13	58	116.7	216	2.2	30.9	120.6
	PLS S1	5	155	210.8	270	22.7	110.4	217.9
	PLS S2	9	59	132.4	190	2.1	25.9	78.8
	RP01	3	121	153.0	188	17.4	42.1	70.8
	RP2-RP1	3	52	108.3	218	-	-	-
	RP3-RP2	7	98	126.3	162	12.4	31.5	50.2
	RP4-RP2	10	39	70.9	172	-	-	-
	RP5-RP4	2	48	69.0	90	1.6	5.4	9.1
	RSD	16	42	68.6	85	1.0	4.2	8.3
	SC01	2	50	52.0	54	-	-	-
	SC03	23	56	87.4	172	1.5	9.9	49.3
	SC04	7	65	161.1	240	3.8	60.2	164.1
	SC05	24	48	114.7	232	1.1	24.4	132.4
	SC06	9	47	156.1	290	1.7	85.2	311.4
	SC07	36	31	96.8	230	0.4	18.3	130.4
	SC09	3	127	169.0	193	25.3	79.4	111.8
	SC10	1	220	220.0	220	118.5	118.5	118.5
	TDA01	23	48	104.3	163	1.1	14.3	42.7
	TDA02	127	38	97.3	254	0.6	17.7	190.4
	TI01	17	44	115.8	204	0.8	21.8	89.1
	TI02	14	45	108.0	228	0.9	21.5	112.6
	TI03	10	87	146.8	185	7.3	37.1	63.4
	TI04	7	40	72.3	136	0.7	6.5	27.1
	WR01	4	47	61.3	100	0.8	3.5	10.9
	WR03	35	39	71.2	162	0.5	5.6	43.7
Burbot	Mills Lake Outflow	3	59	132.7	222	0.9	23.6	59.6
	Pike Lake North Outflow	6	52	77.5	136	1.1	4.3	14.9
	PLN S1	4	45	96.3	163	0.6	9.1	24.3
	PLN S2	1	177	177.0	177	34.4	34.4	34.4
	PLS S1	6	51	134.6	178	1.0	21.8	39.9
	PLS S2	2	109	132.0	155	-	-	-
	RP1-PLS	1	190	190.0	190	-	-	-
	RP3-RP2	2	109	117.0	125	10.1	11.7	13.3
	SC03	1	133	133.0	133	14.2	14.2	14.2
	SC09	7	109	136.0	185	9.1	23.5	60.1
Lake Chub	Mills Lake Outflow	10	50	81.0	96	1.6	6.3	10.5
	Pike Lake North Outflow	26	36	86.8	180	0.6	8.5	65.1
	PLN S1	36	61	78.9	106	2.6	6.2	14.0
	PLN S2	1	78	78.0	78	5.7	5.7	5.7
	PLS S1	7	52	74.1	88	1.6	4.9	7.6
	PLS S2	1	75	75.0	75	2.8	2.8	2.8
	RP01	7	51	58.1	74	0.9	2.2	4.2
	RP02	1	97	97.0	97	9.4	9.4	9.4
	RP1-PLS	12	59	68.5	89	-	-	-
	RP2-RP1	7	62	66.4	72	-	-	-
	RP3-RP2	5	77	80.8	85	5.2	5.7	6.0
	RP5-RP4	1	108	108.0	108	14.3	14.3	14.3
	SC01	1	57	57.0	57	-	-	-
	SC06	1	77	77.0	77	5.1	5.1	5.1
	SC09	25	58	66.5	83	2.2	3.2	6.6
Longnose Dace	M02-ML	4	83	89.0	95	6.8	8.3	9.6
	Mills Lake Outflow	12	53	68.3	98	1.4	3.7	9.6

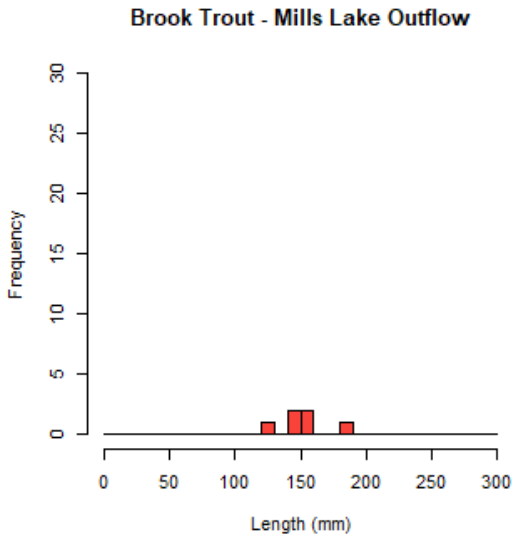
Appendix D
Fish Biometric Summaries - RIverine Summary Statistics

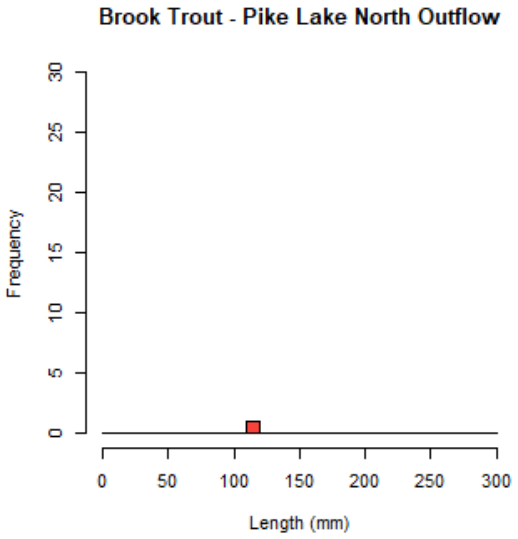
Species	Location	Total Catch	Length (mm)			Weight (g)		
			Minimum Measured	Mean Measured	Maximum Measured	Minimum Measured	Mean Measured	Maximum Measured
Longnose Dace	PLN S1	4	98	108.8	131	11.1	13.0	15.5
	PLN S2	3	77	88.7	106	5.5	9.0	14.8
	PLN S3	22	41	74.3	101	0.7	5.9	14.4
	PLS S1	7	72	91.7	113	5.0	9.0	17.4
	PLS S2	18	62	82.5	98	2.3	7.0	11.5
	SC01	2	85	97.5	110	-	-	-
	SC06	4	56	66.5	78	2.0	3.7	6.2
	SC09	4	59	76.8	100	2.2	6.0	12.1
Longnose Sucker	Mills Lake Outflow	7	54	81.1	106	1.1	5.8	12.0
	Pike Lake North Outflow	3	76	86.7	105	5.3	8.4	12.7
	SC09	2	165	175.0	185	51.4	57.1	62.7
Northern Pike	RP01	1	282	282.0	282	169.1	169.1	169.1
Pearl Dace	PLS S1	1	85	85.0	85	7.1	7.1	7.1
	PLS S2	26	55	74.6	96	1.9	5.6	11.4
	RP3-RP2	1	98	98.0	98	8.8	8.8	8.8
	RP5-RP4	1	88	88.0	88	8.0	8.0	8.0
	SC06	4	67	77.5	83	3.9	5.3	6.5
	SC09	1	63	63.0	63	2.9	2.9	2.9
	SC10	1	66	66.0	66	3.3	3.3	3.3
	TDA02	2	88	93.0	98	7.9	9.3	10.6
Sculpin	Mills Lake Outflow	20	45	60.1	82	1.4	2.6	6.4
	PLN S1	3	51	53.7	56	1.7	2.5	3.7
	PLN S3	3	54	65.7	84	1.8	3.7	6.4
	PLS S2	14	50	61.4	101	1.8	3.8	12.3
	RP1-PLS	1	75	75.0	75	-	-	-
	RP2-RP1	4	54	73.0	110	-	-	-
	RP3-RP2	1	52	52.0	52	1.5	1.5	1.5
	SC01	1	50	50.0	50	-	-	-
	SC04	1	66	66.0	66	4.2	4.2	4.2
	SC05	2	58	66.0	74	2.5	3.7	4.8
	SC06	1	49	49.0	49	2.2	2.2	2.2
	SC09	5	42	51.6	63	0.9	1.5	2.7
	TDA02	12	42	56.6	89	0.7	2.6	9.3
	TI01	7	20	52.1	88	0.1	2.7	8.4
White Sucker	Mills Lake Outflow	23	43	82.5	129	0.6	7.4	28.1
	Pike Lake North Outflow	5	112	142.4	190	1.7	24.3	60.5
	PLN S1	4	89	138.0	210	9.6	40.4	101.8
	PLS S1	1	128	128.0	128	33.1	33.1	33.1
	PLS S2	5	73	102.4	133	4.2	15.5	29.7
	RP02	2	107	139.0	171	13.0	32.9	52.7
	RP1-PLS	2	107	113.0	119	-	-	-
	RP4-RP2	1	56	56.0	56	-	-	-
	SC09	1	152	152.0	152	34.0	34.0	34.0

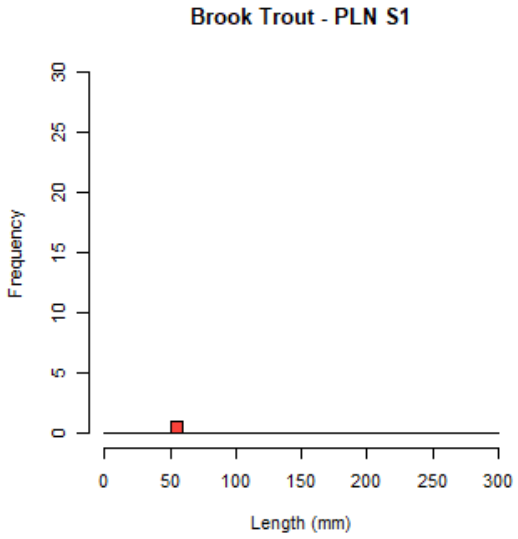
Appendix D
Fish Biometric Summaries – Riverine Fish Length Distributions

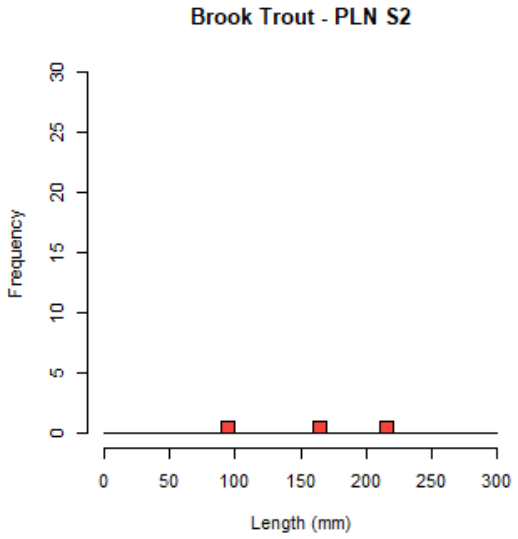












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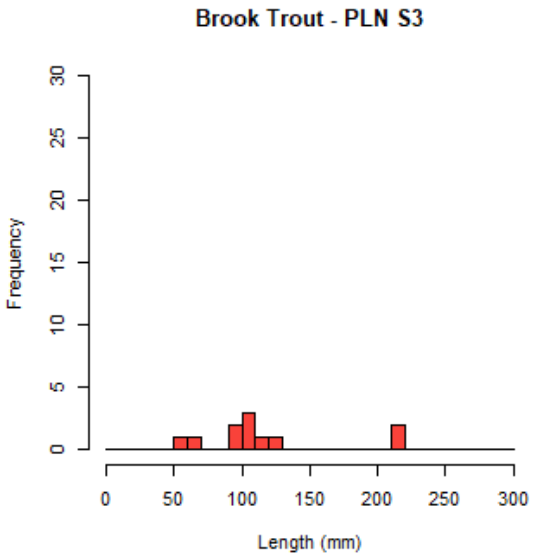

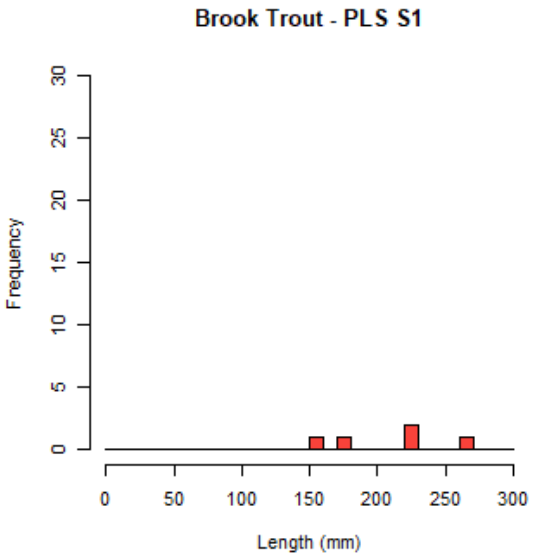

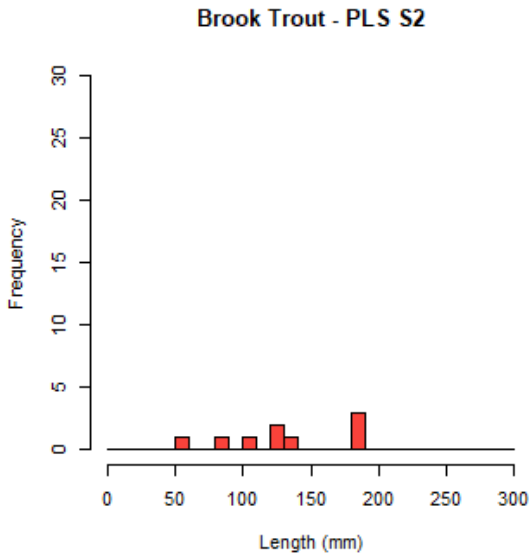

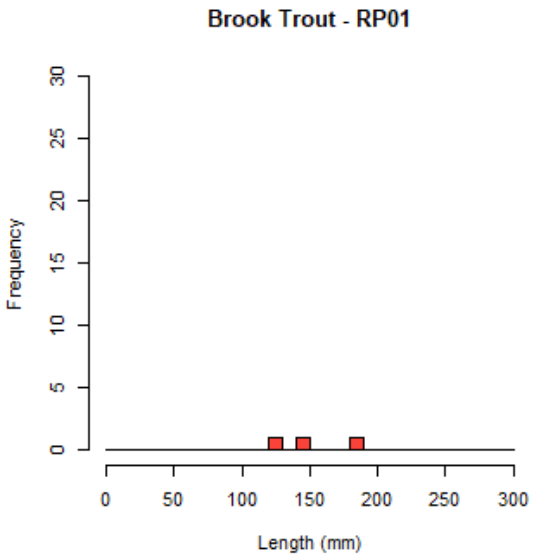

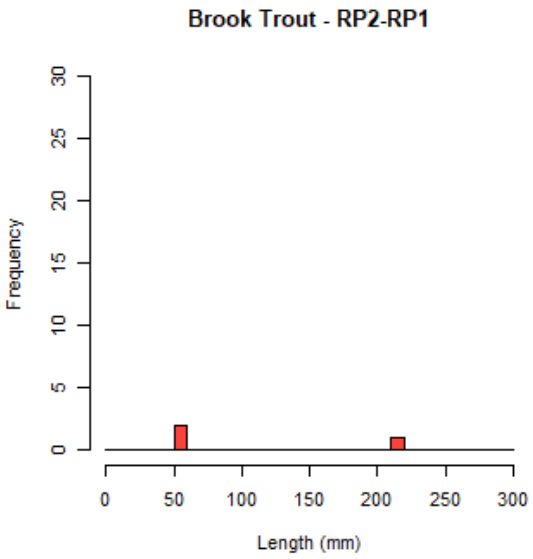

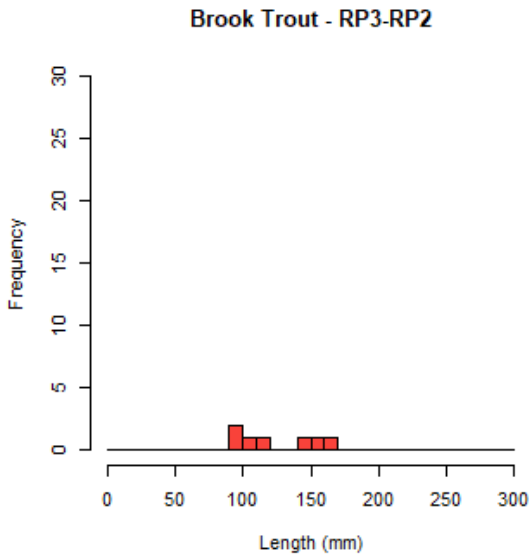

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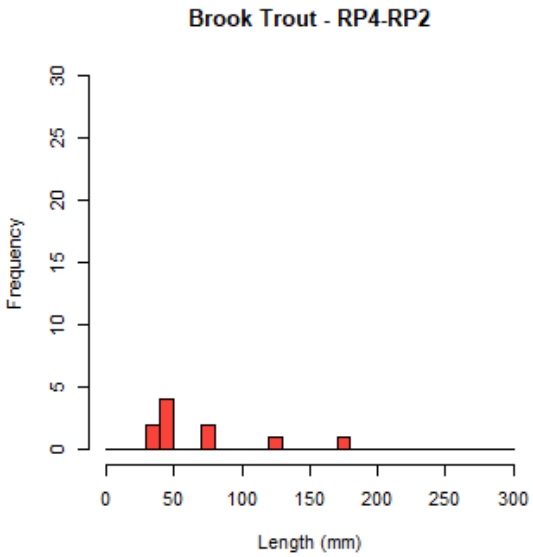

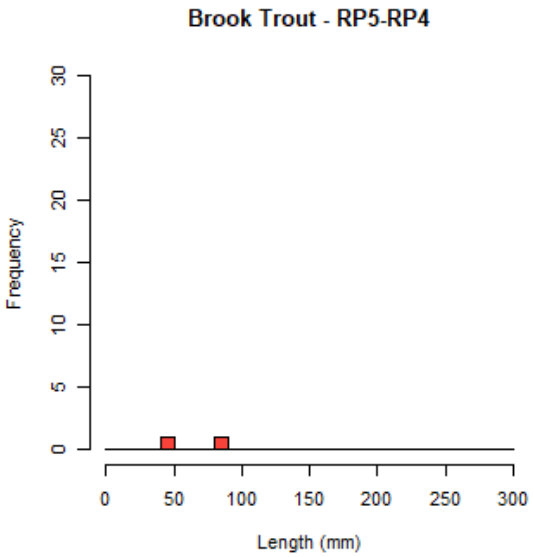

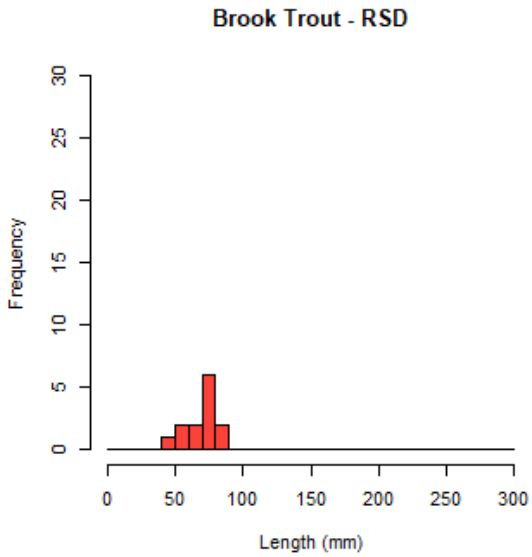

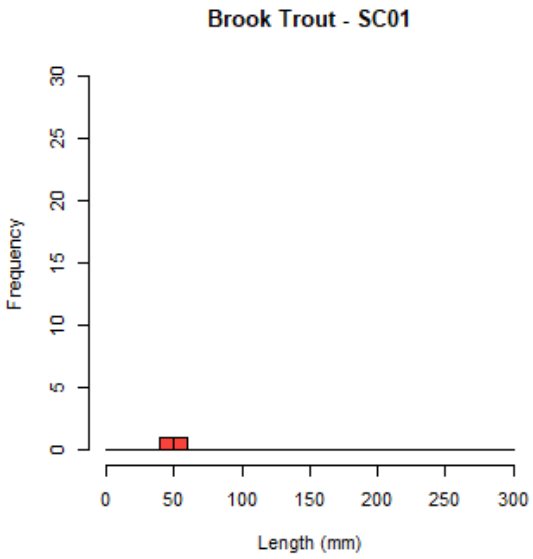

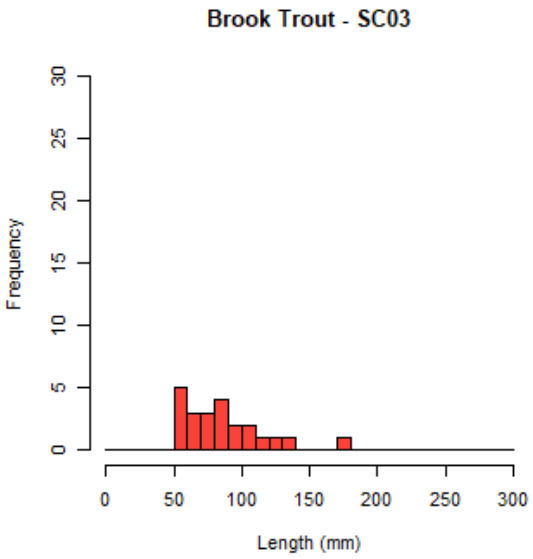

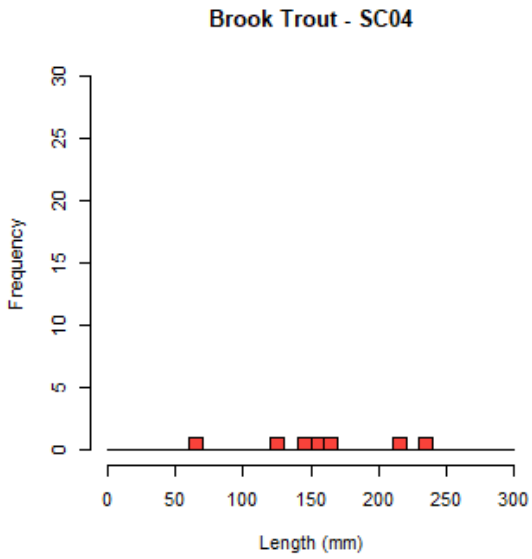

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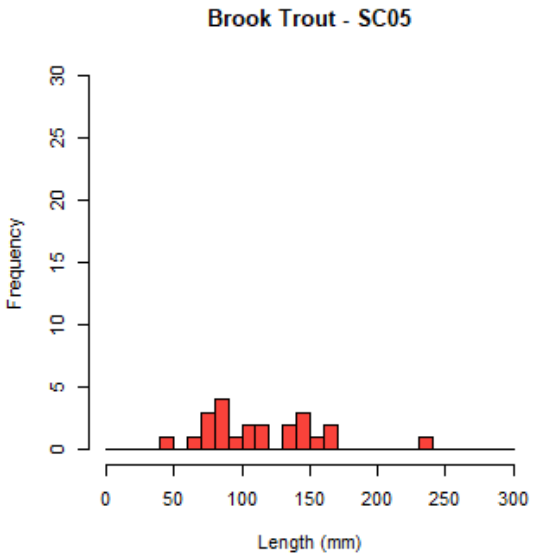
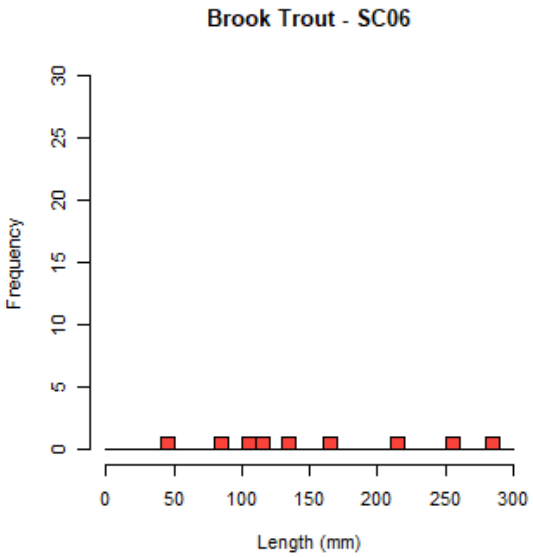
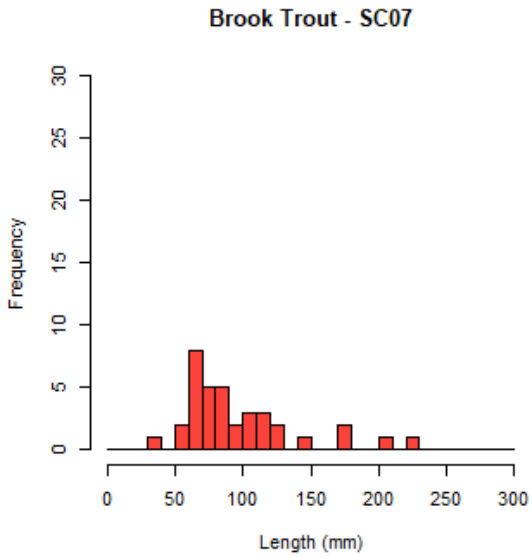
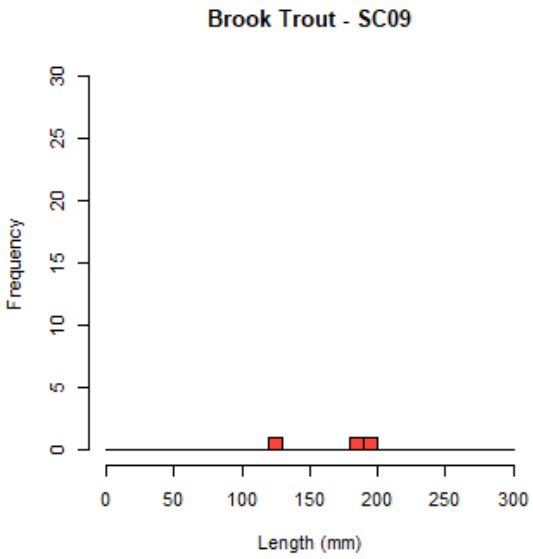
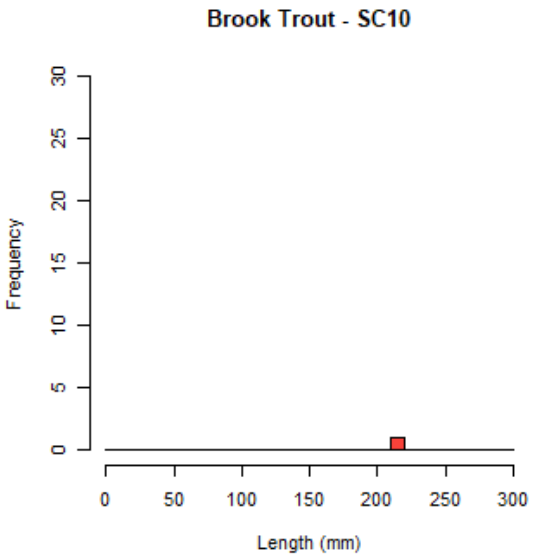
Fish Biometric Summaries – Riverine Fish Length Distributions

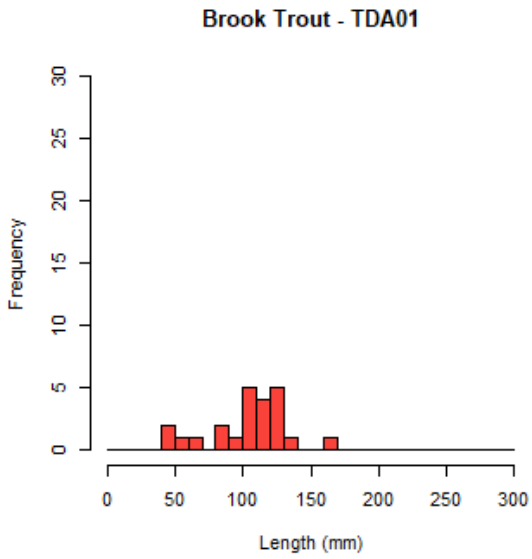












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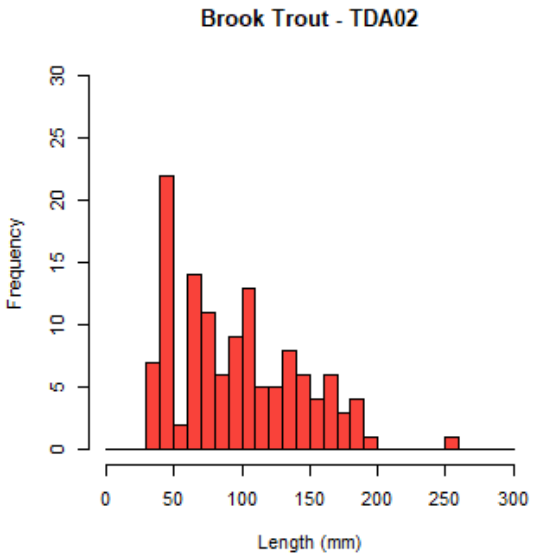
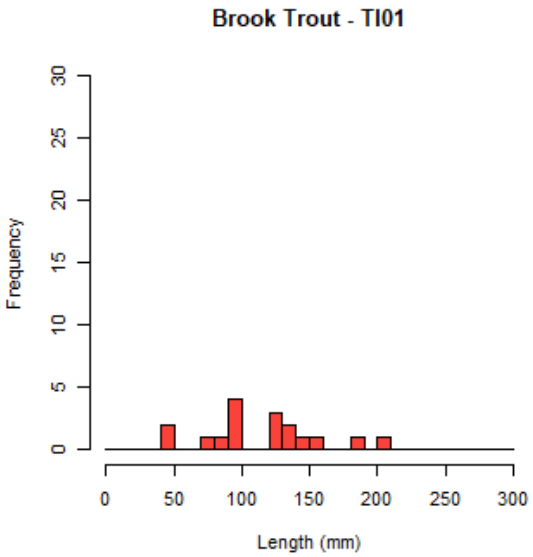
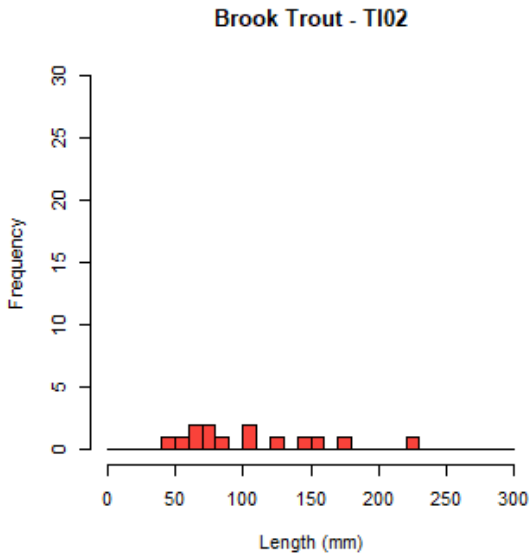
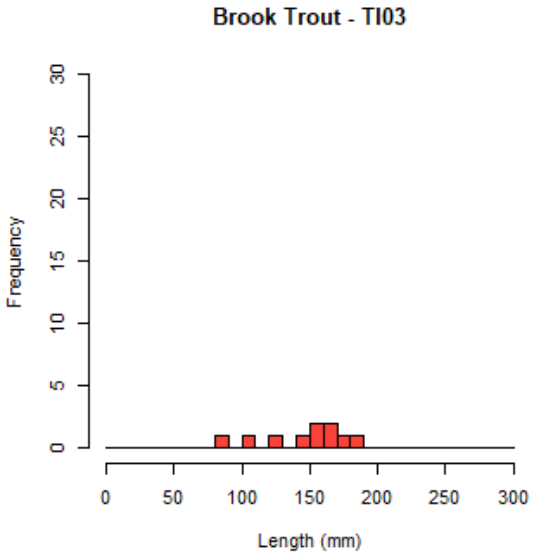
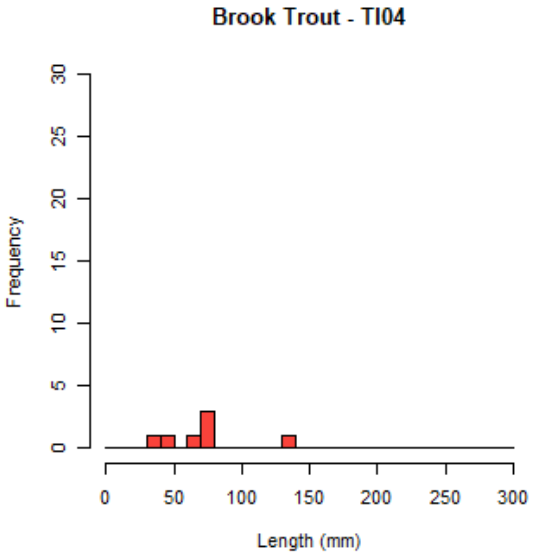
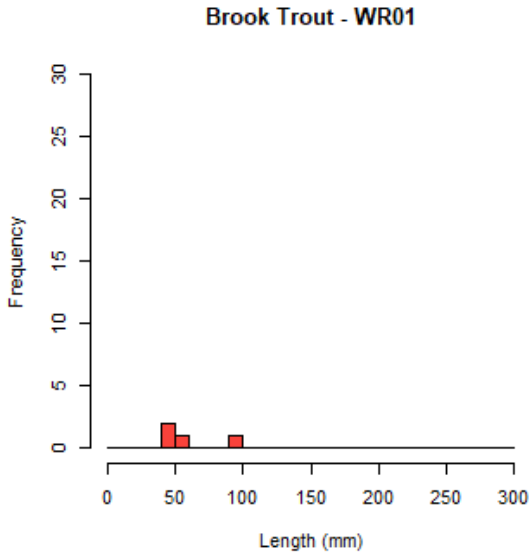




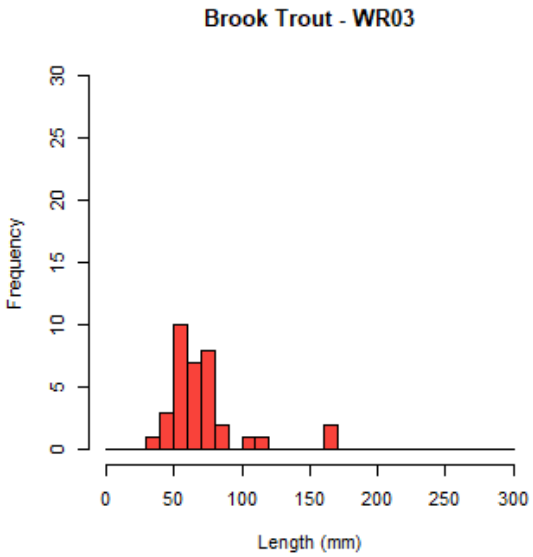


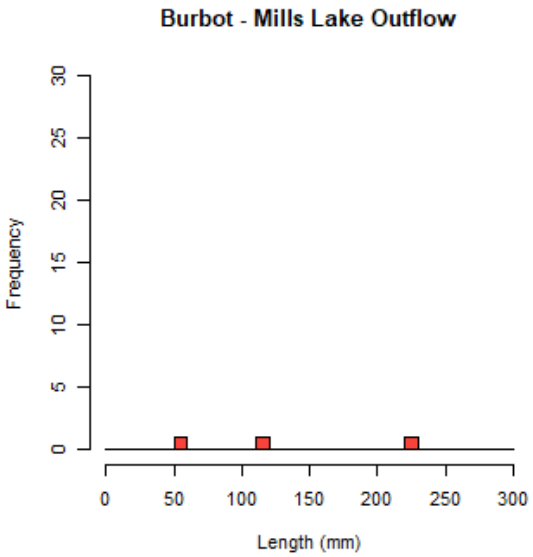


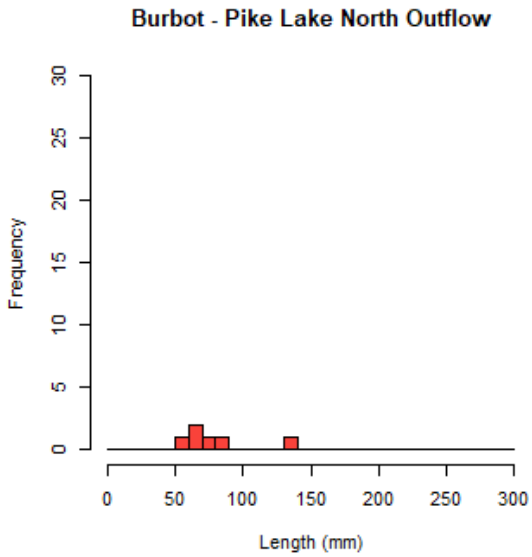


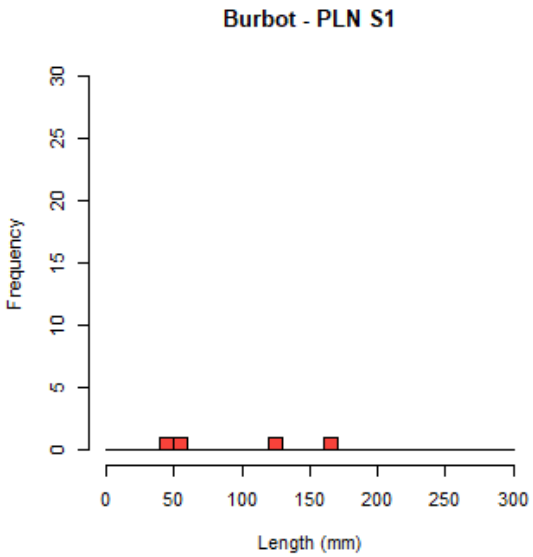


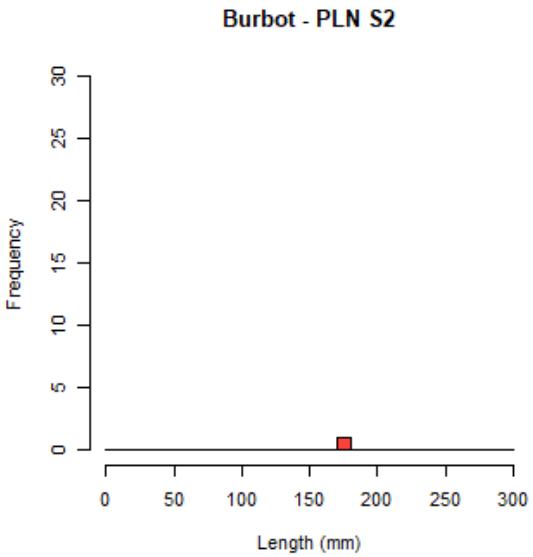
Appendix D
Fish Biometric Summaries – Riverine Fish Length Distributions

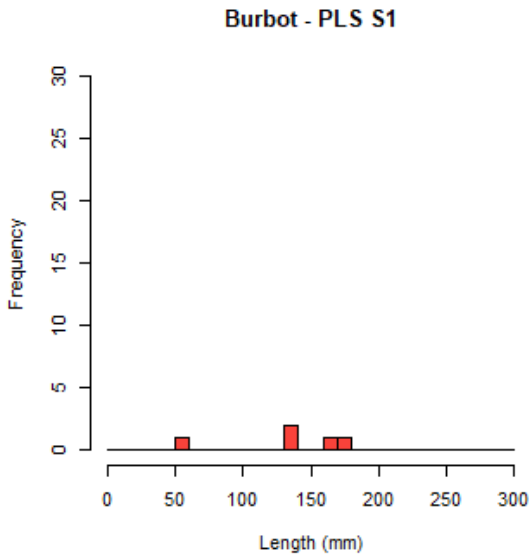




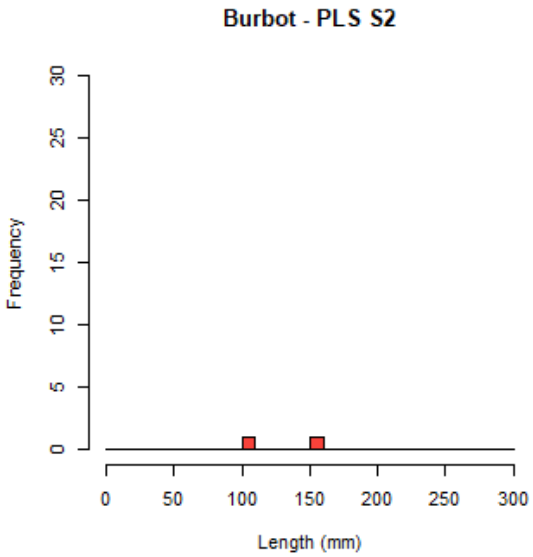


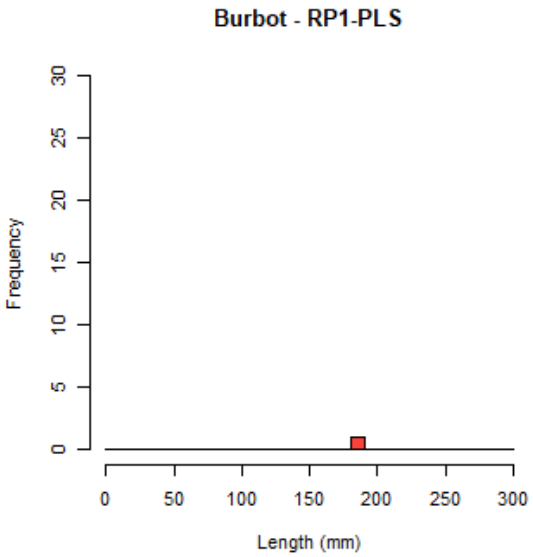


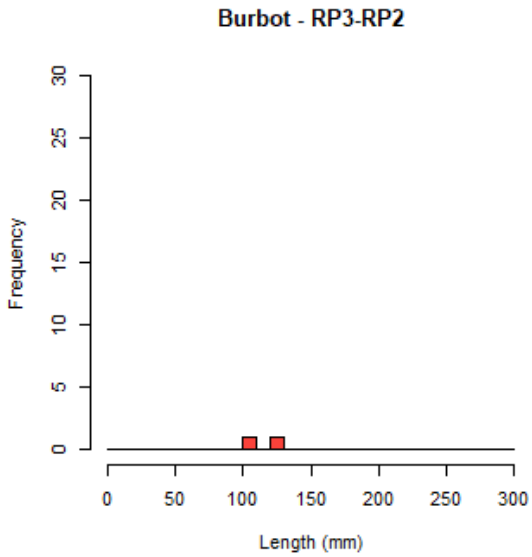


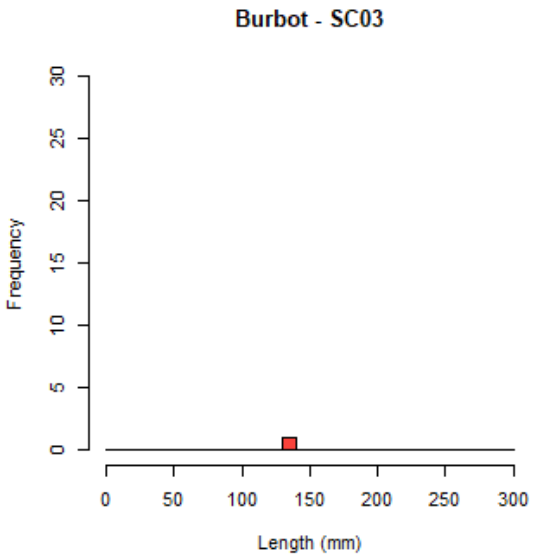


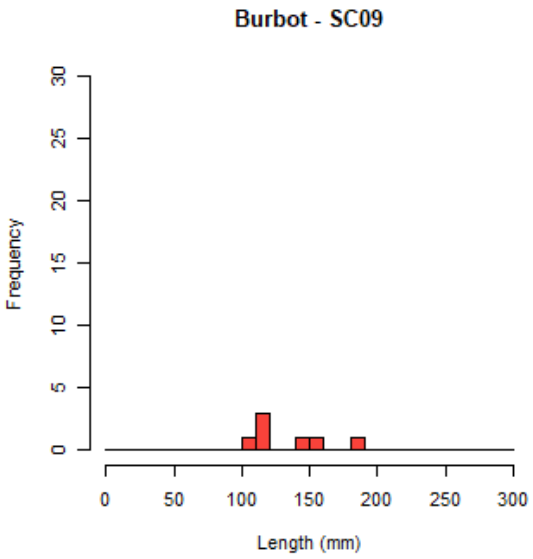
Appendix D
Fish Biometric Summaries – Riverine Fish Length Distributions

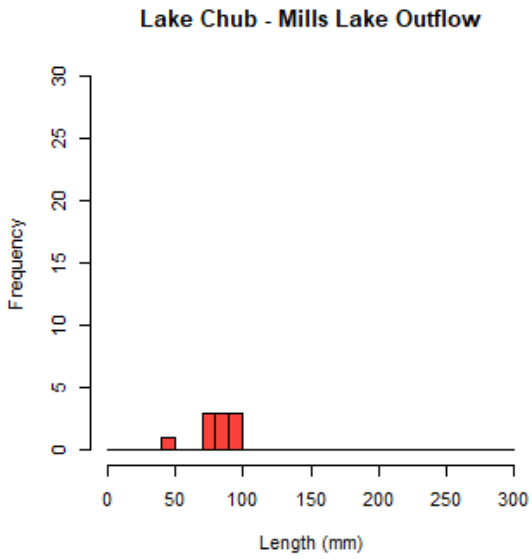












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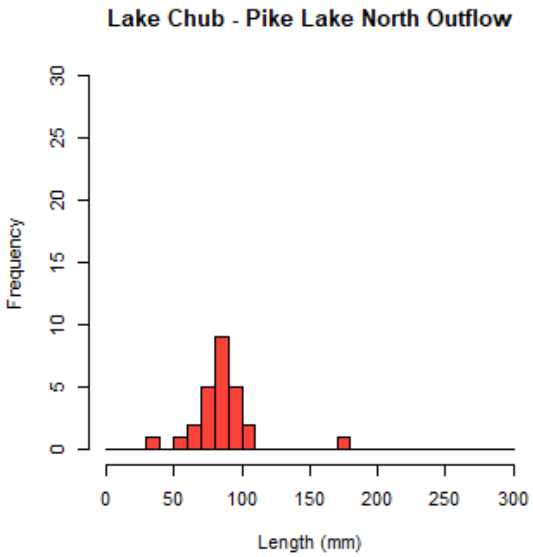

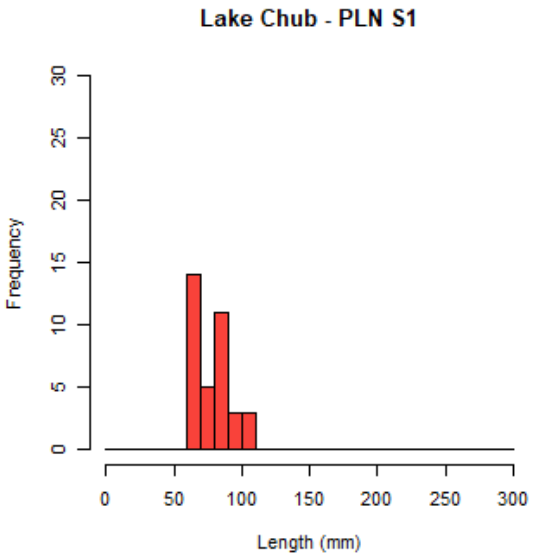

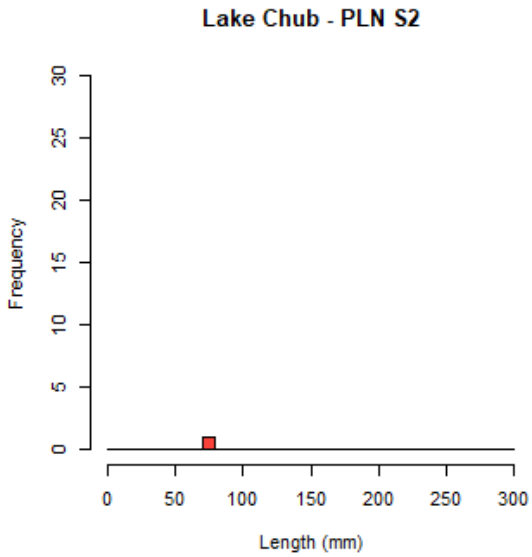

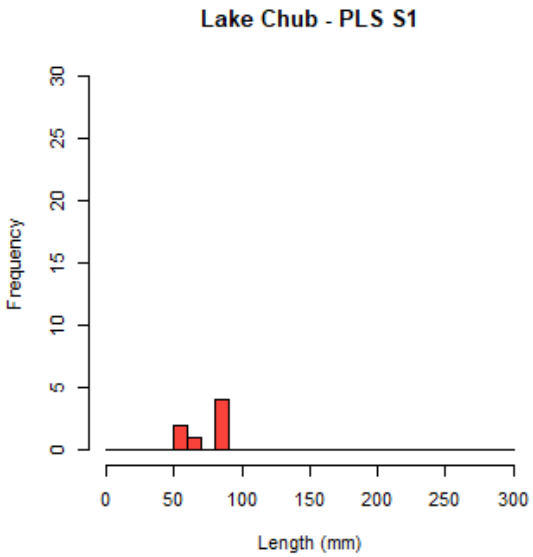

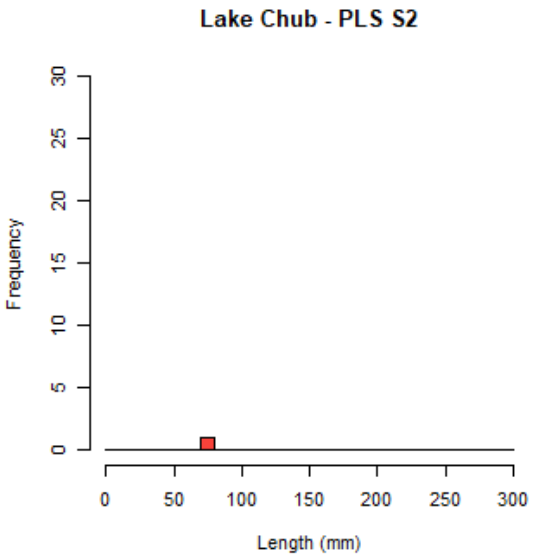

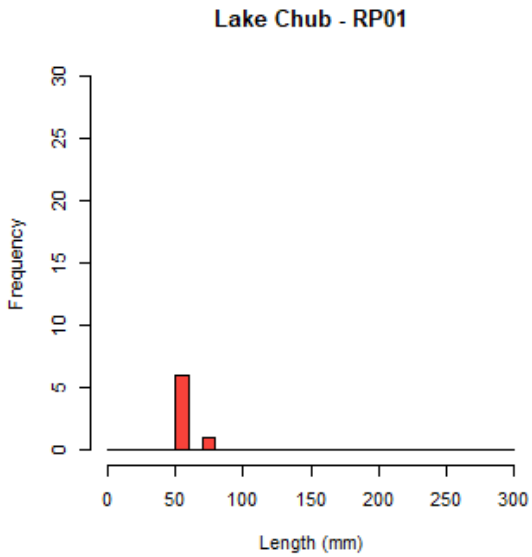

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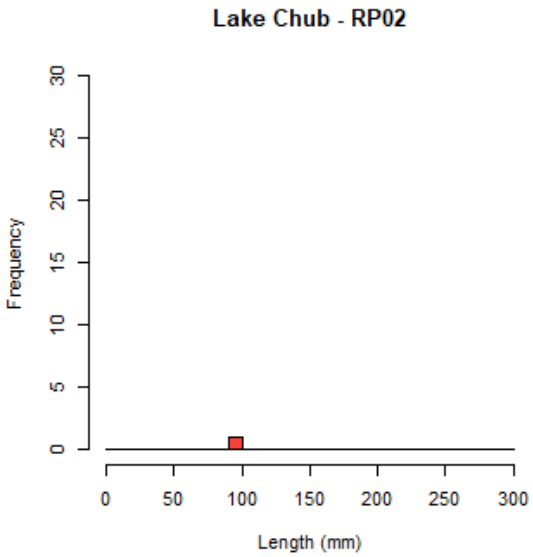
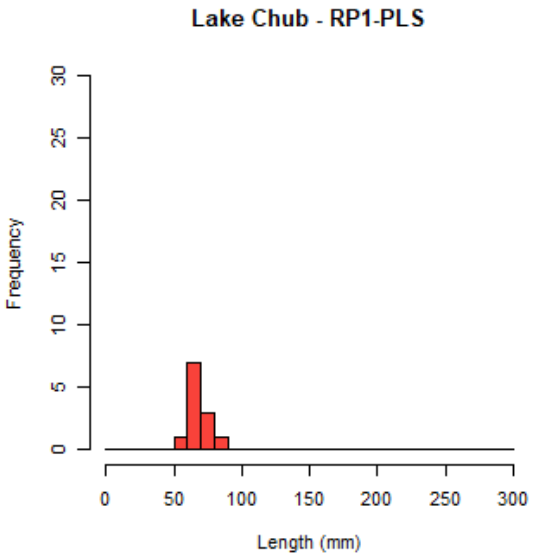
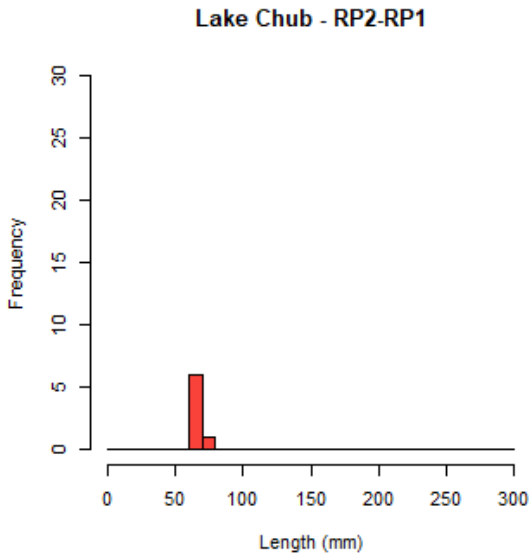
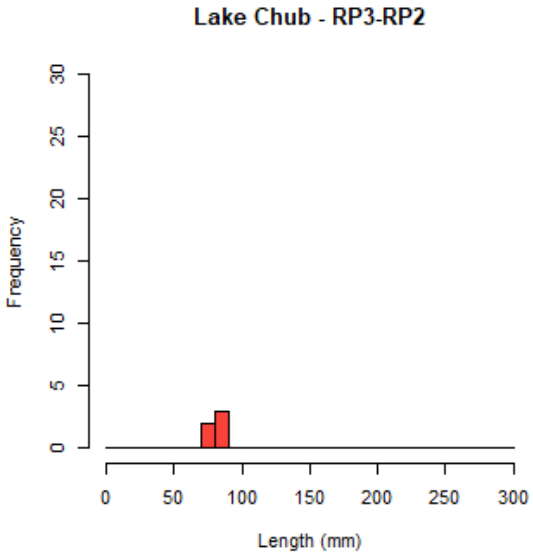
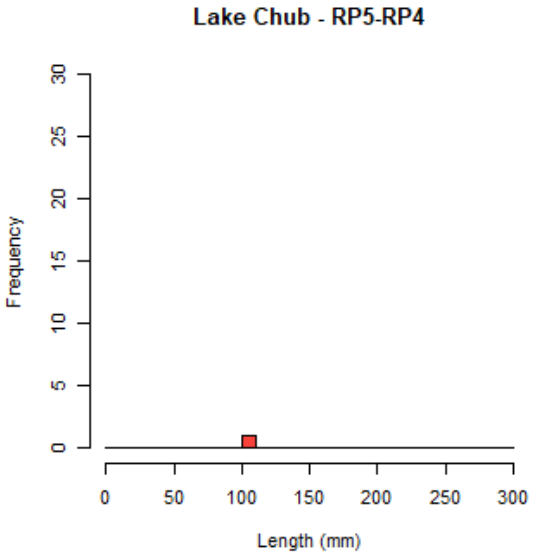
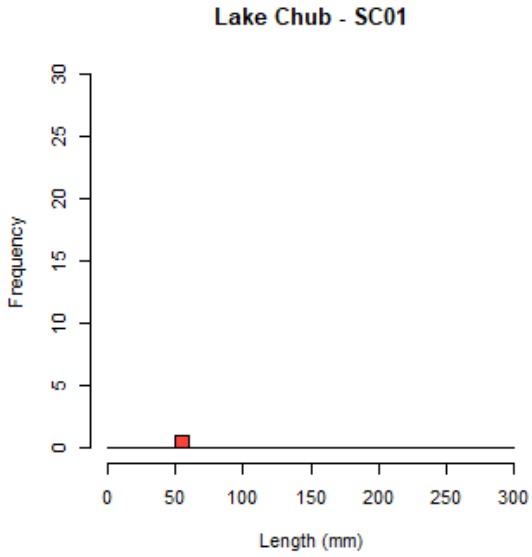




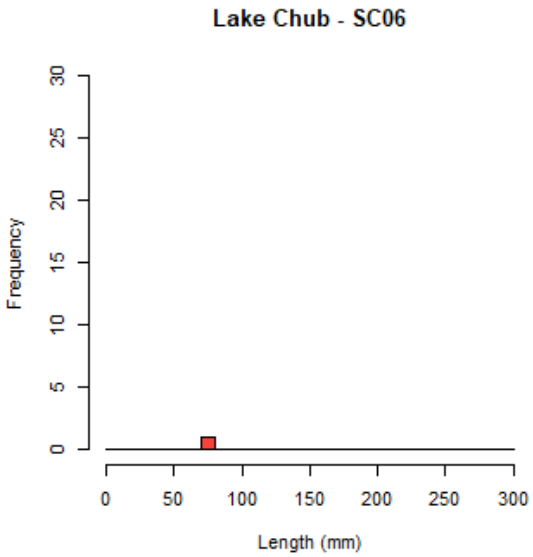


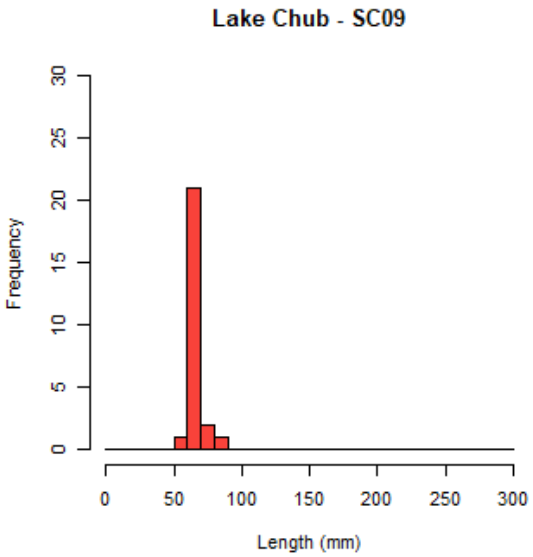


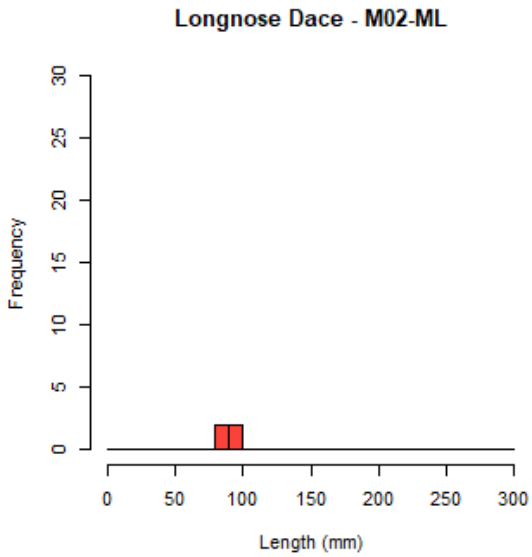


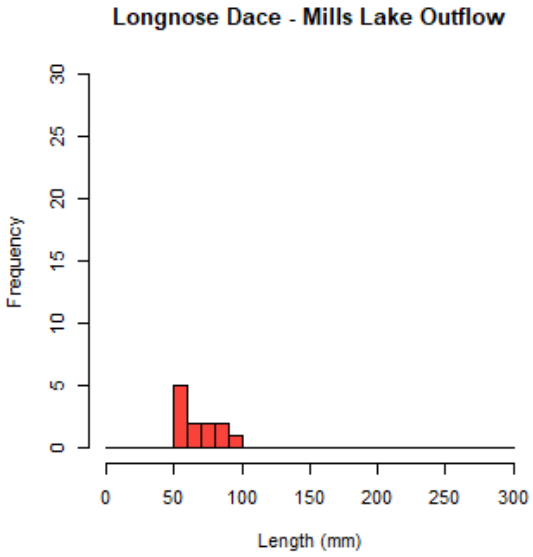


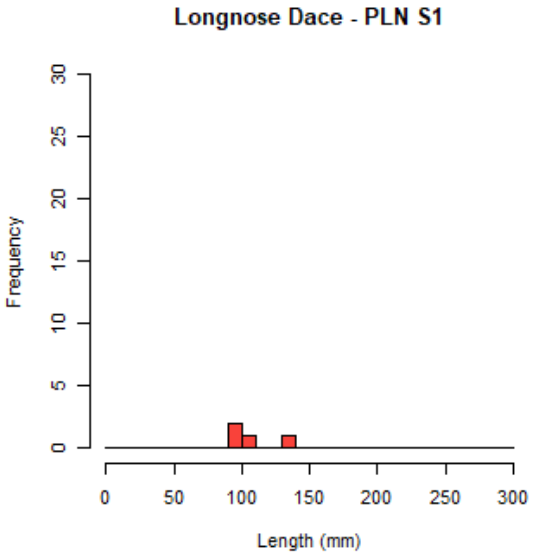
Appendix D
Fish Biometric Summaries – Riverine Fish Length Distributions

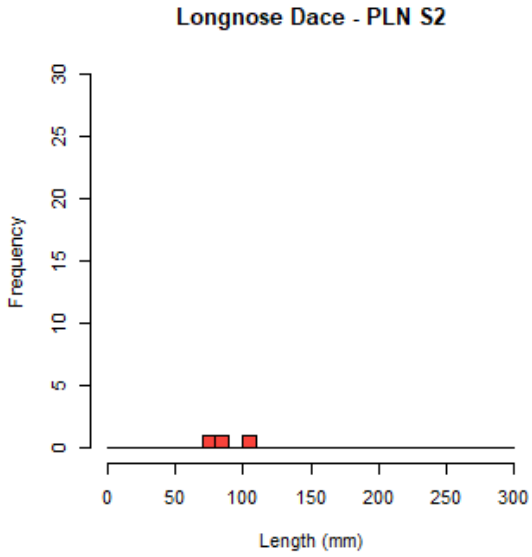












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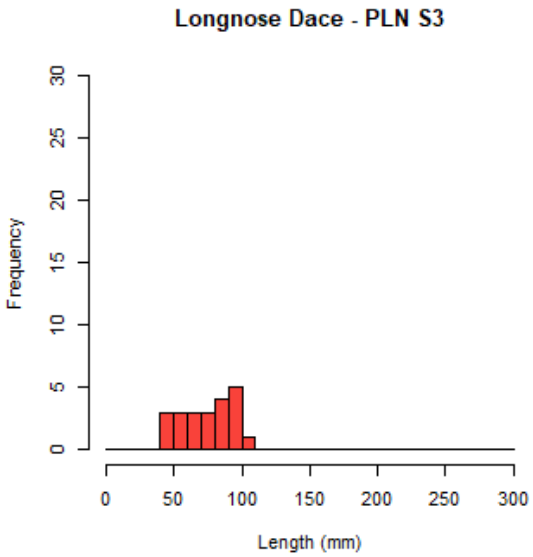
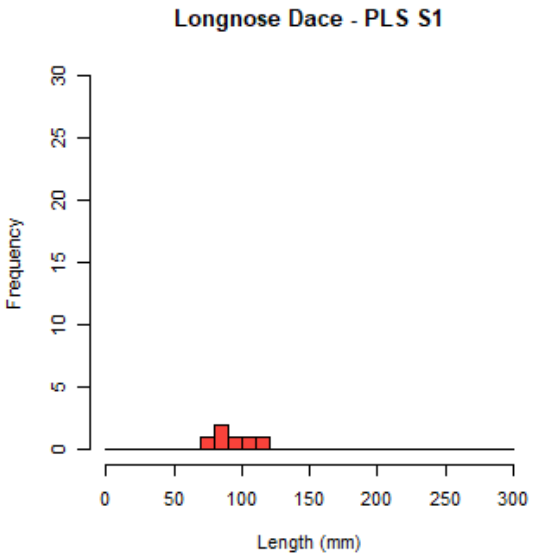
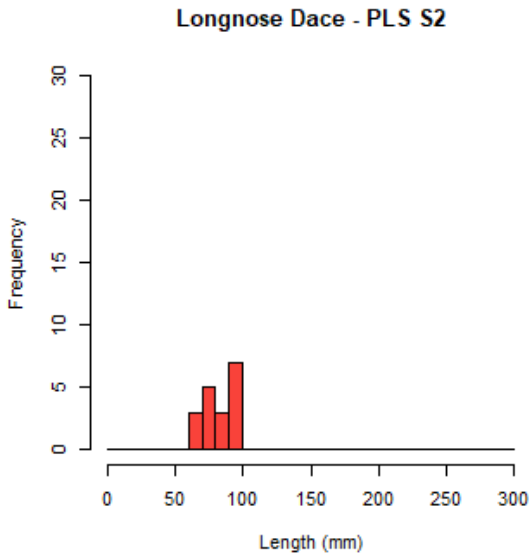
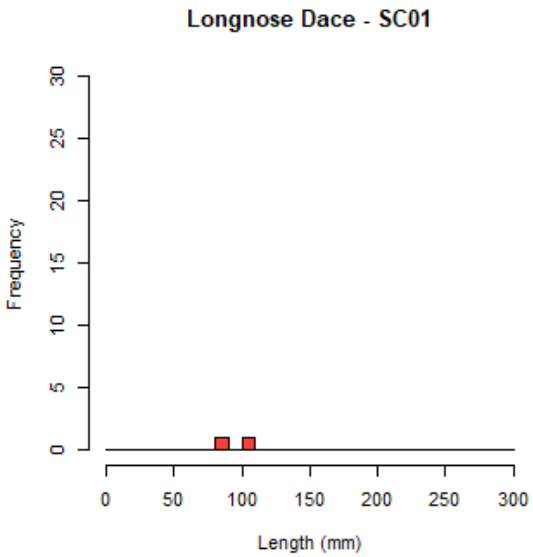
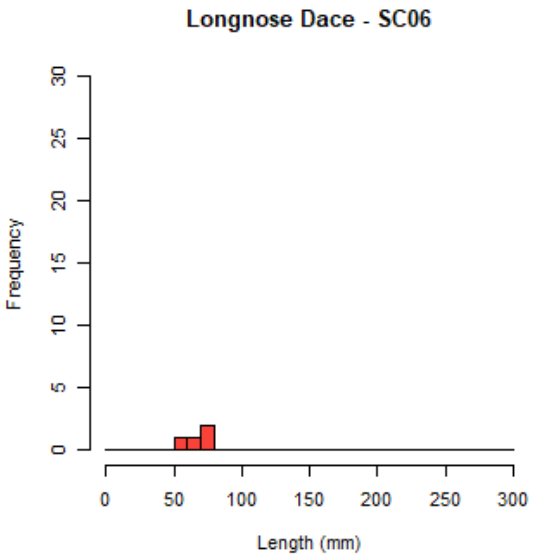
Fish Biometric Summaries – Riverine Fish Length Distributions

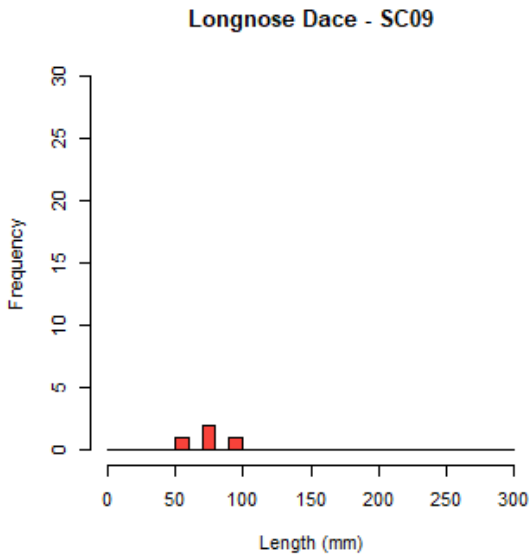












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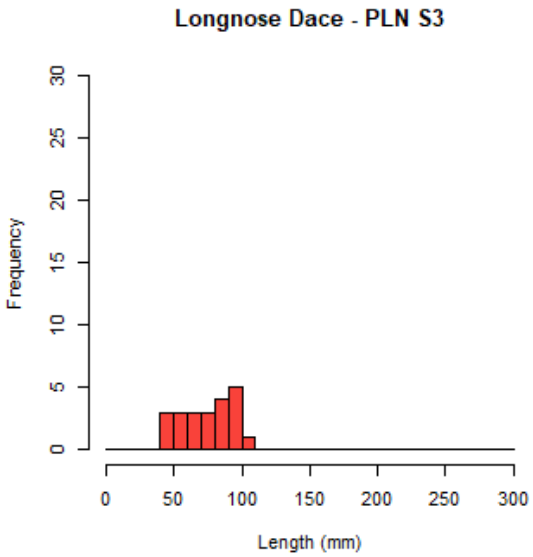
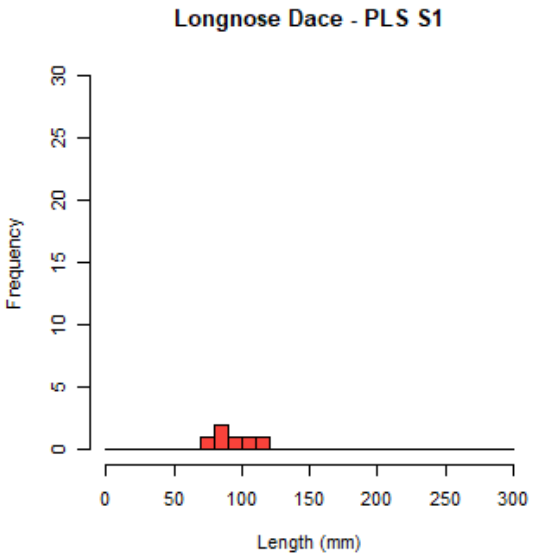
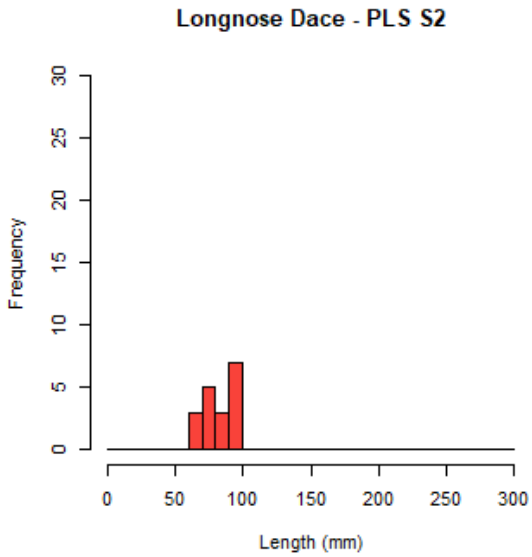
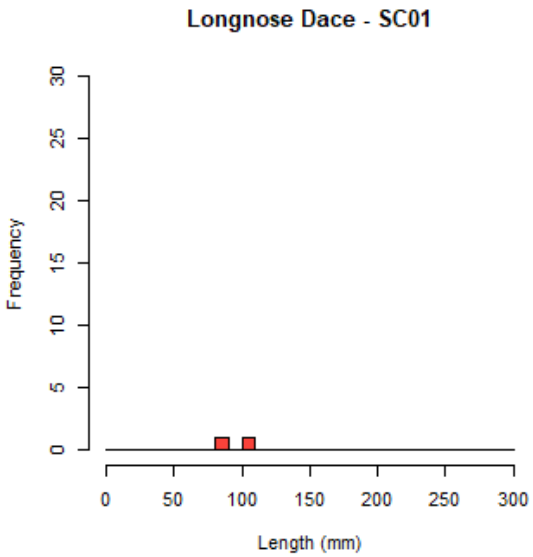
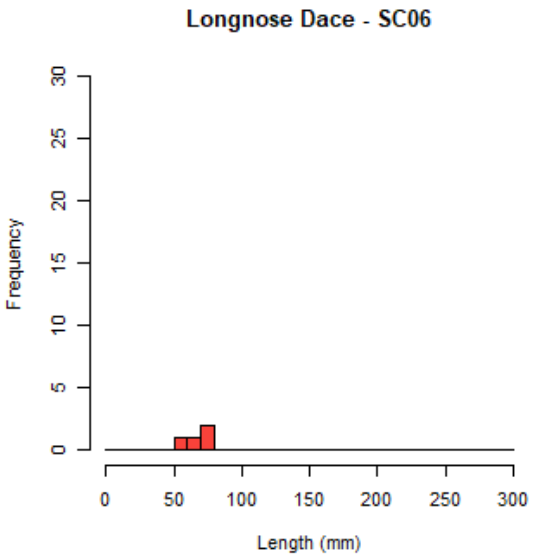
Fish Biometric Summaries – Riverine Fish Length Distributions

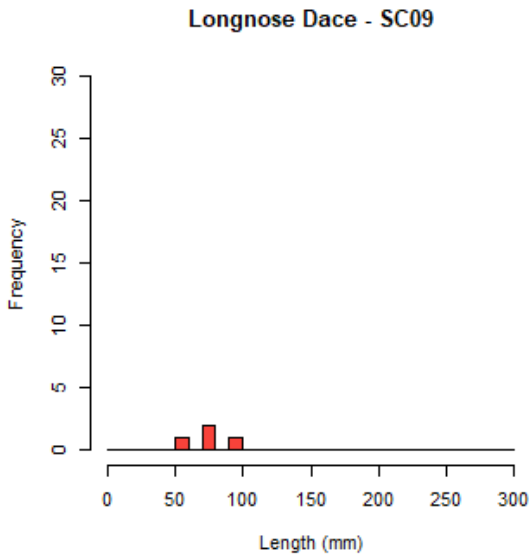












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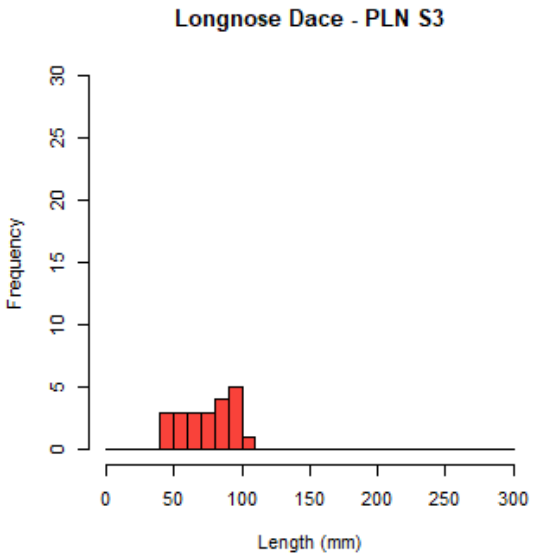

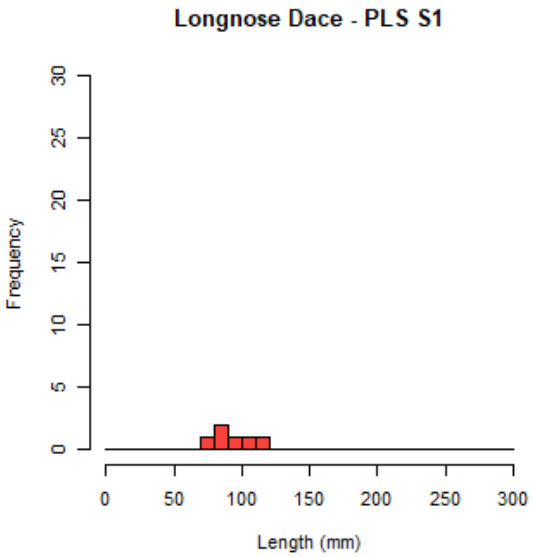

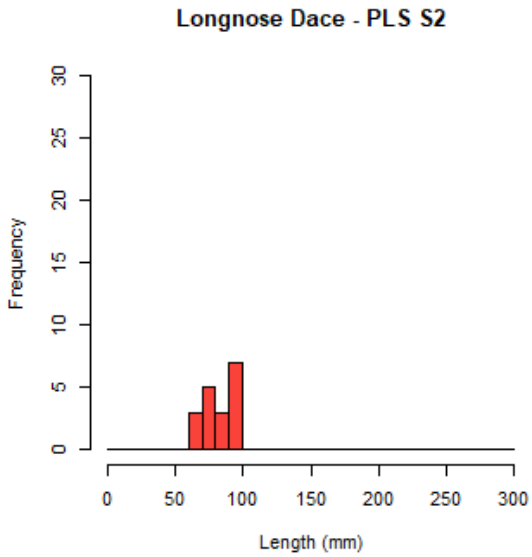

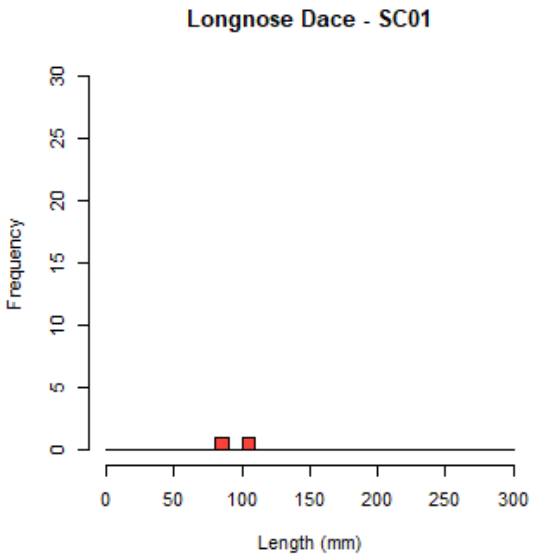

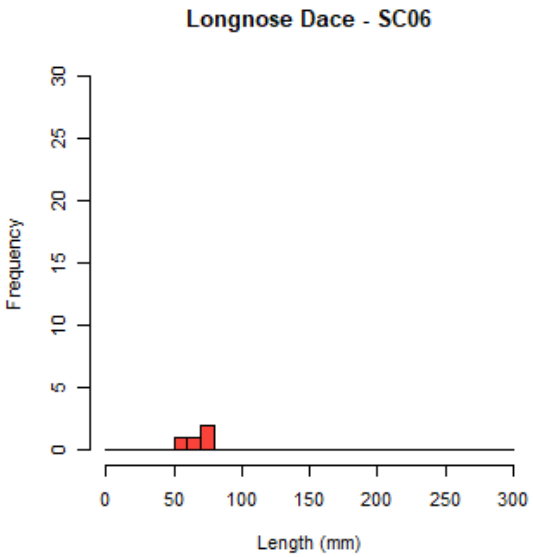

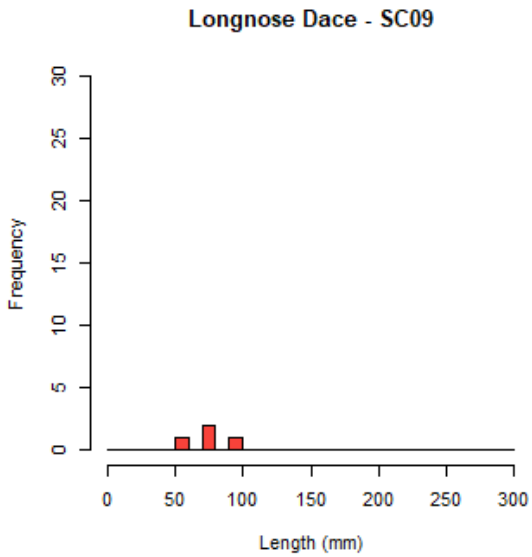

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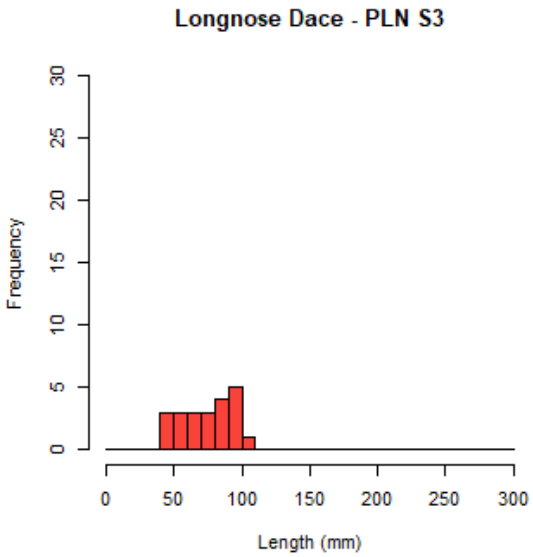

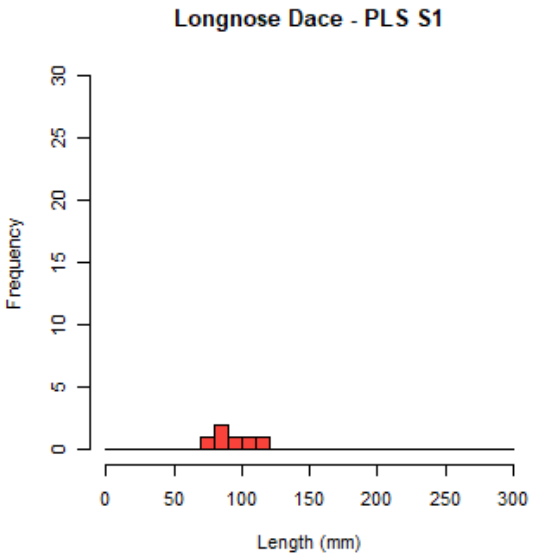

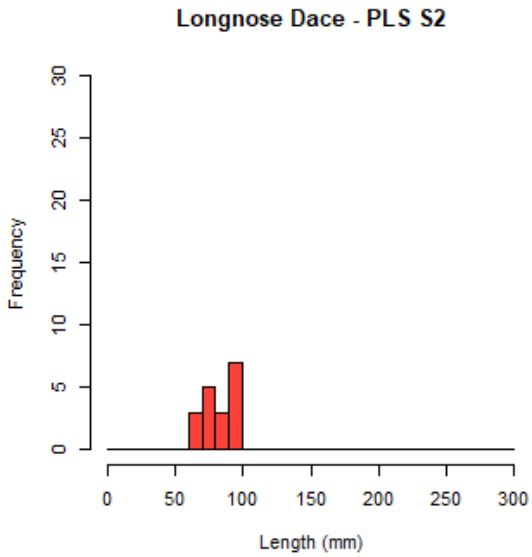

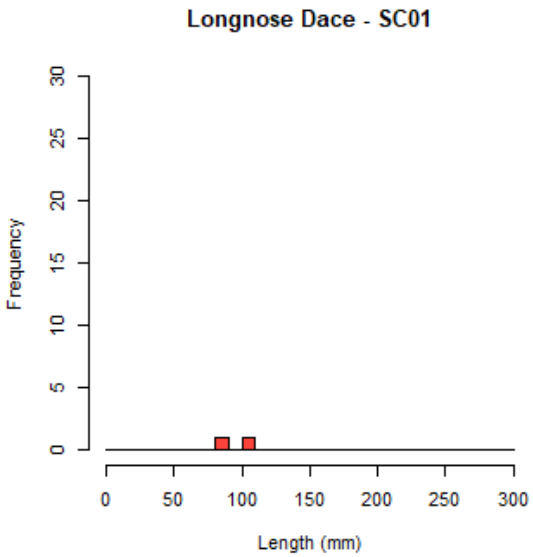

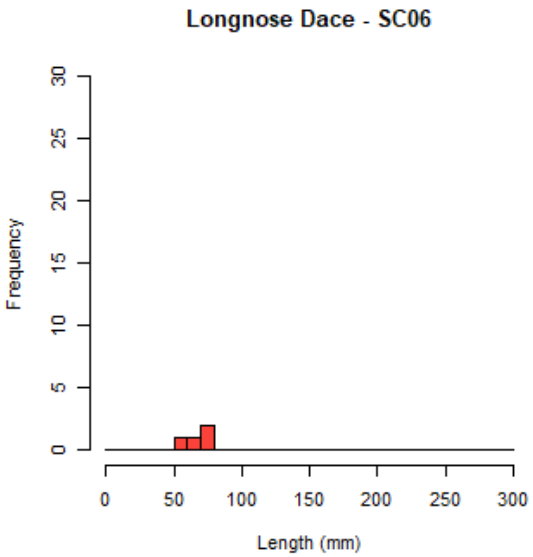

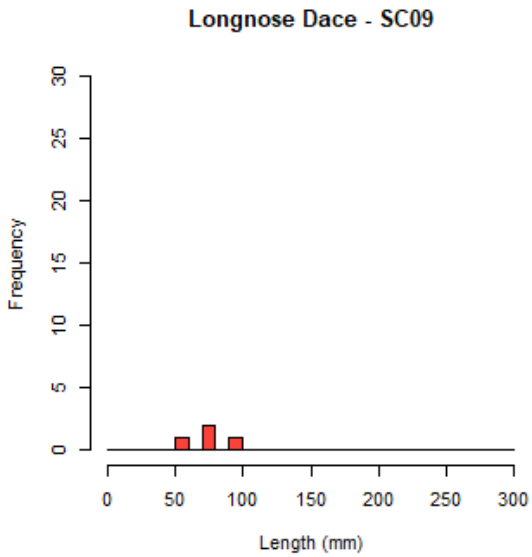

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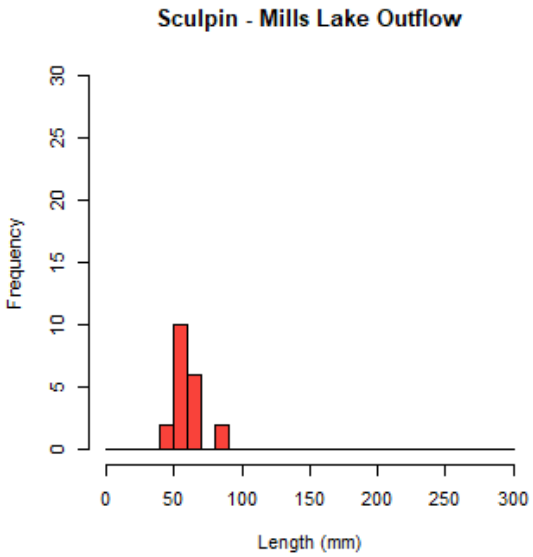
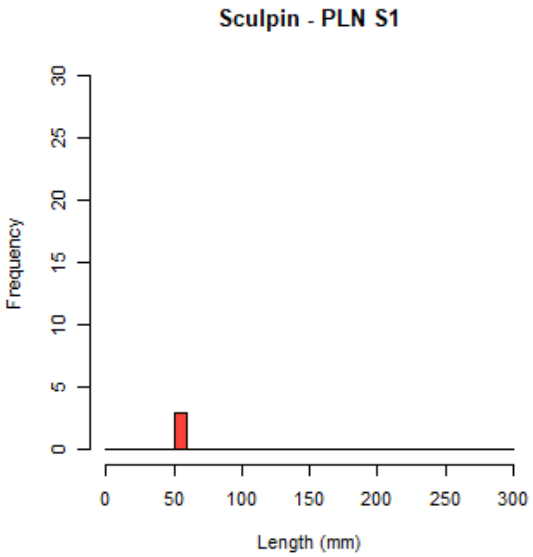
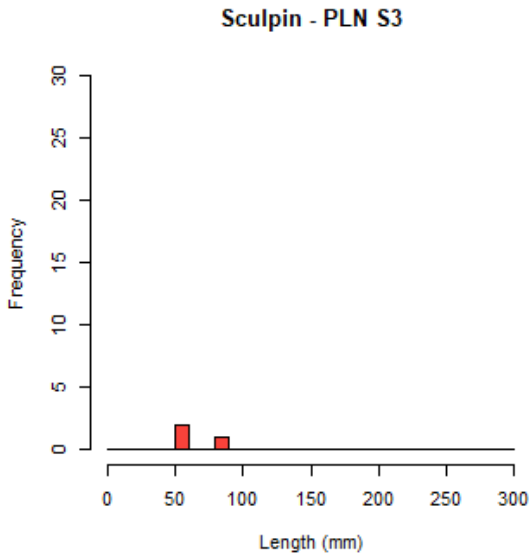
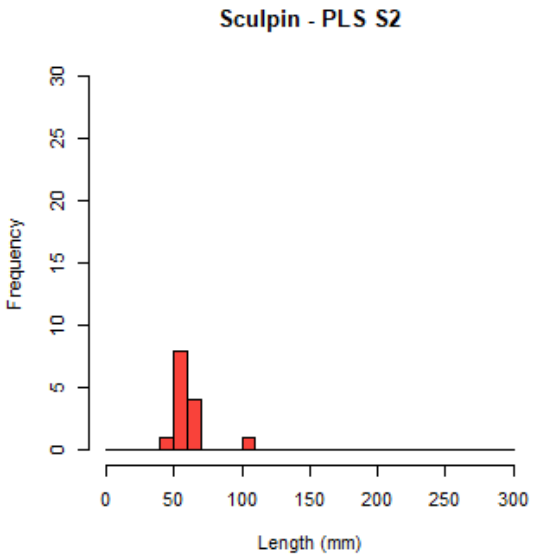
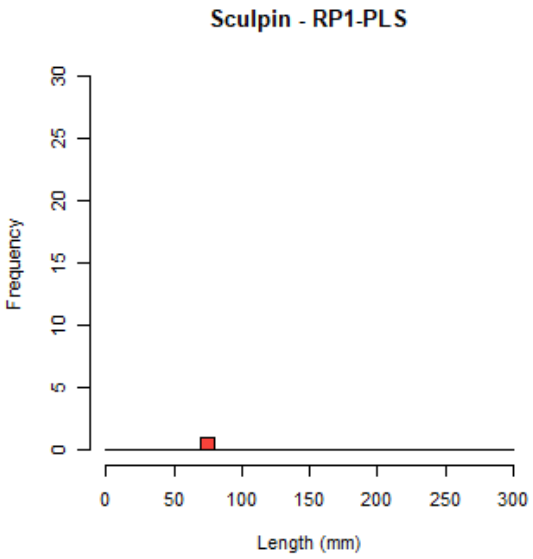
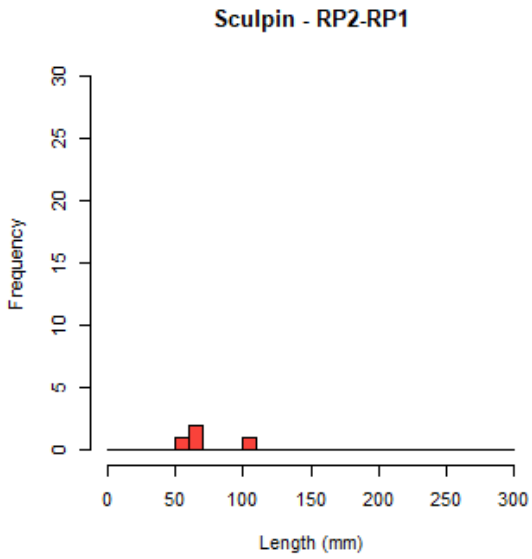




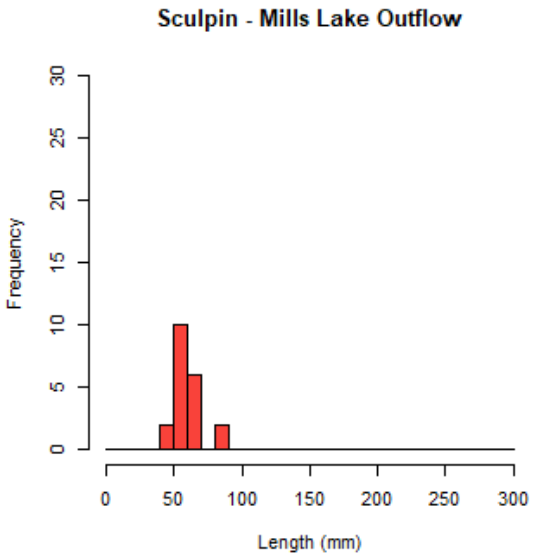


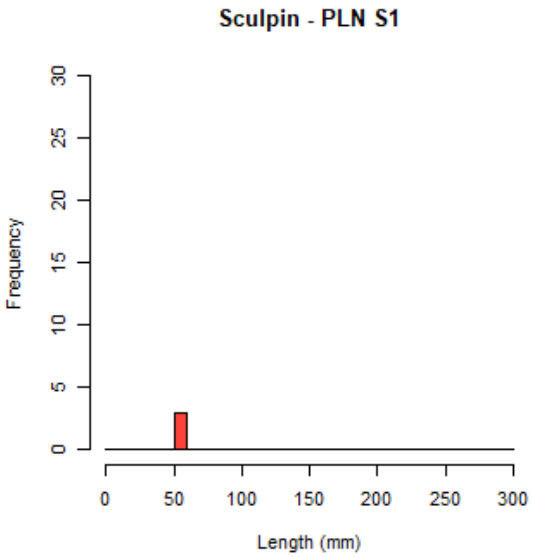


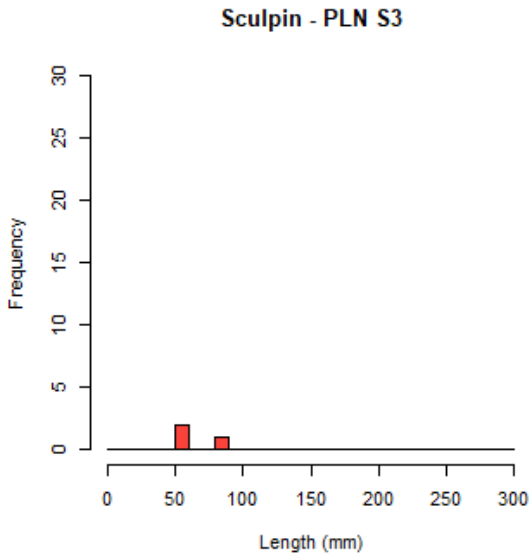


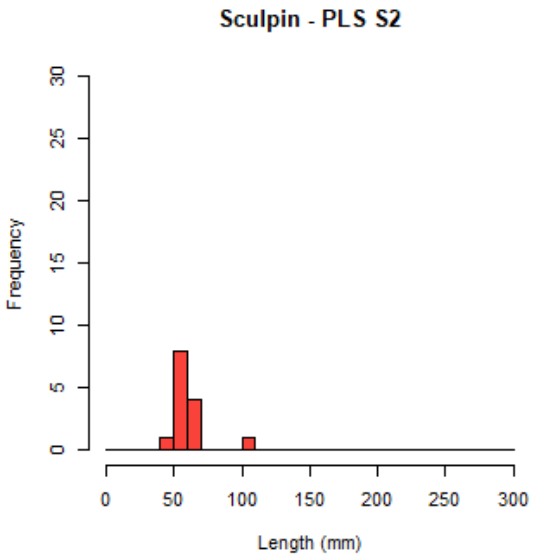


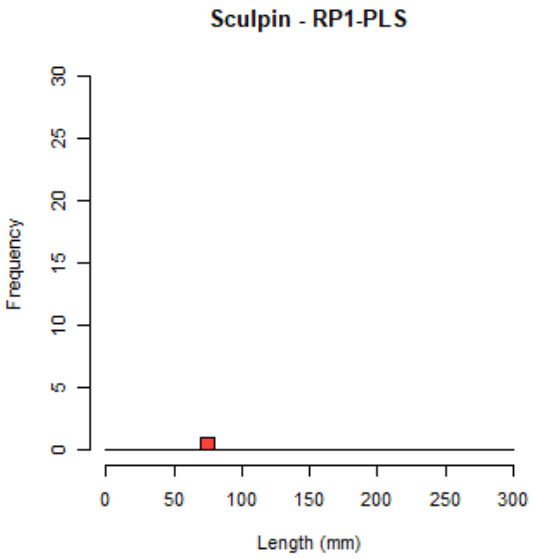
Appendix D
Fish Biometric Summaries – Riverine Fish Length Distributions

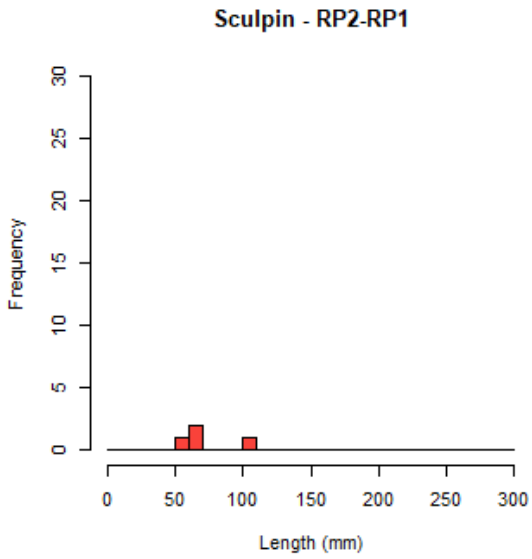




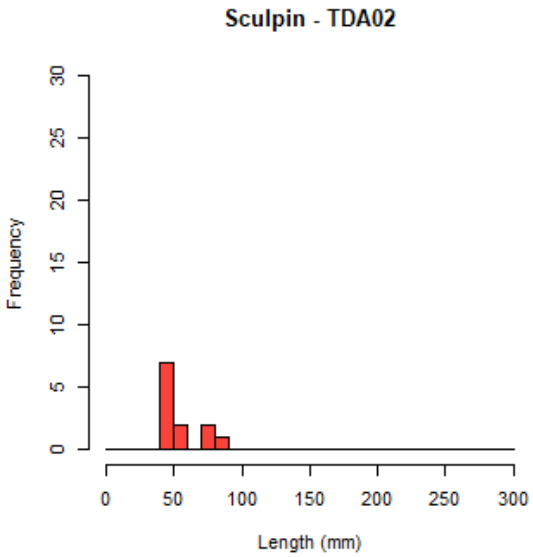


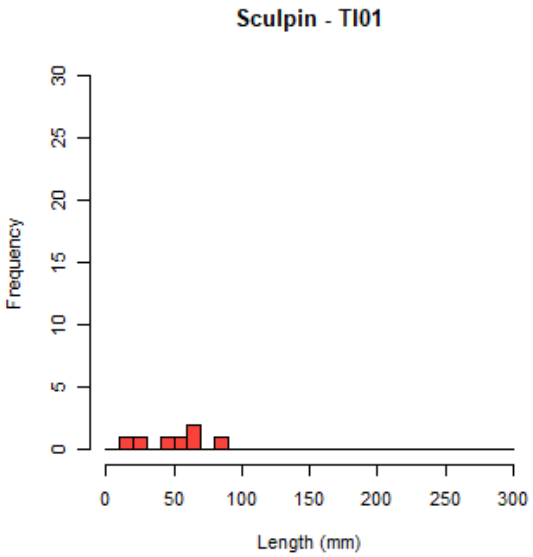


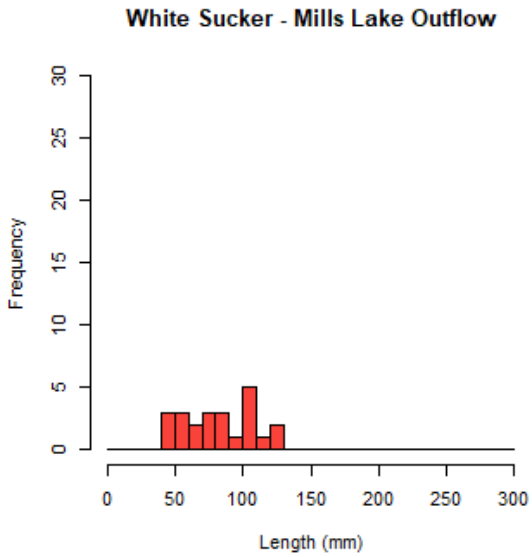


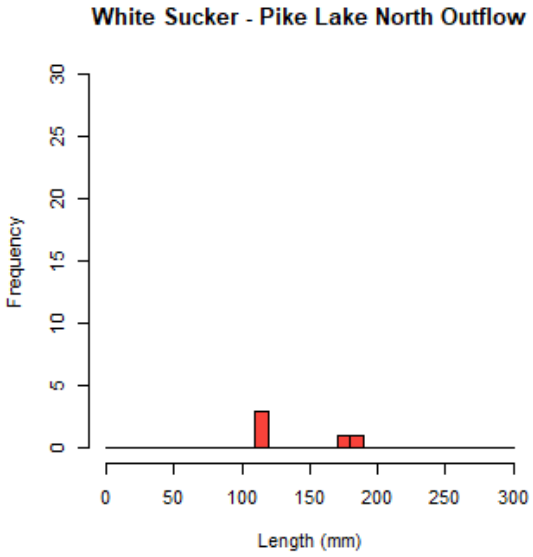


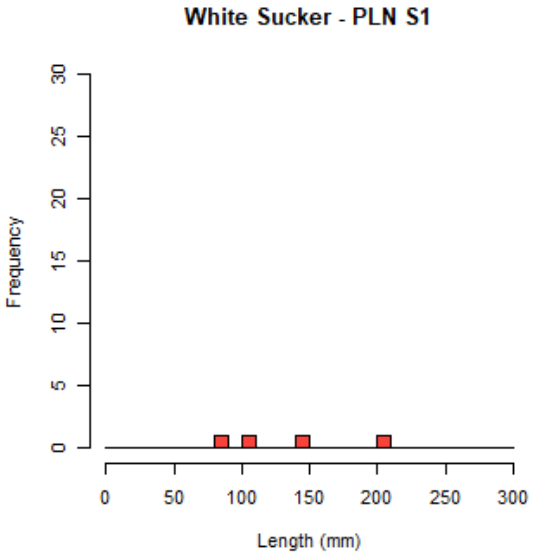
Appendix D
Fish Biometric Summaries – Riverine Fish Length Distributions

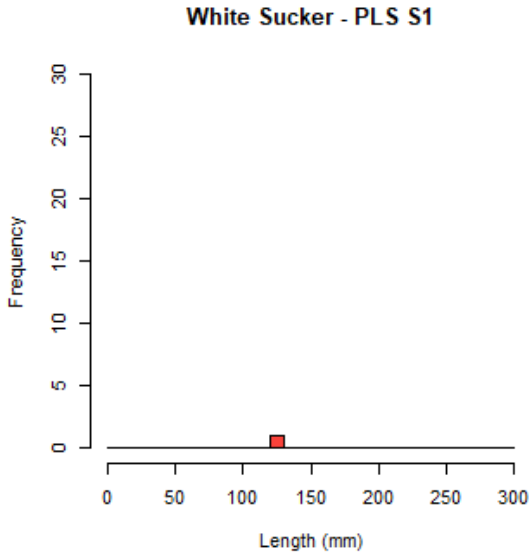




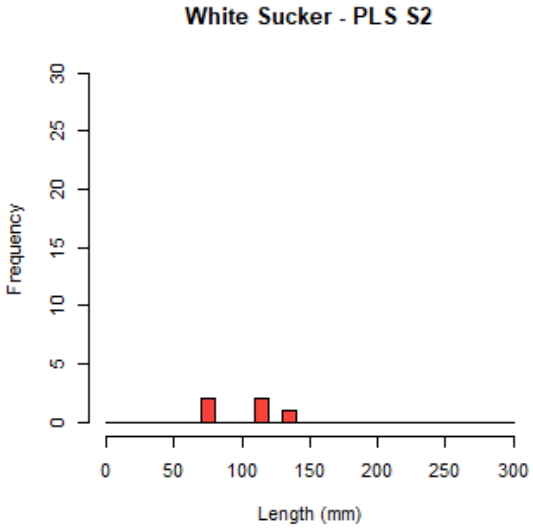


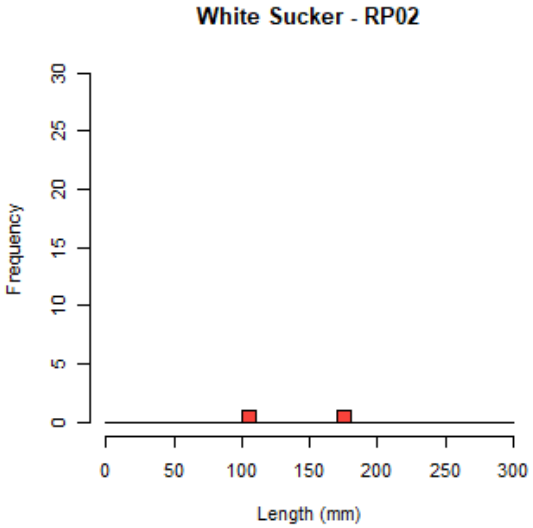


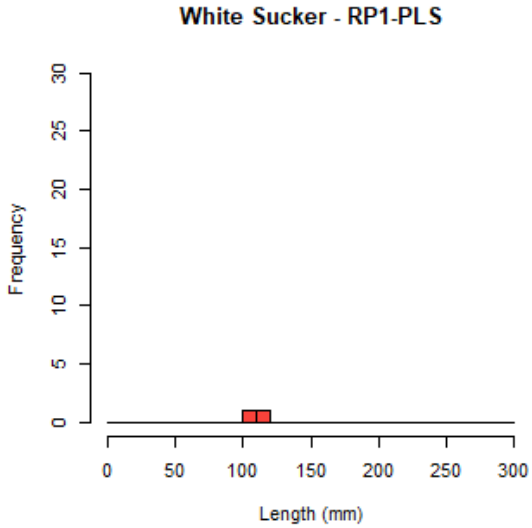


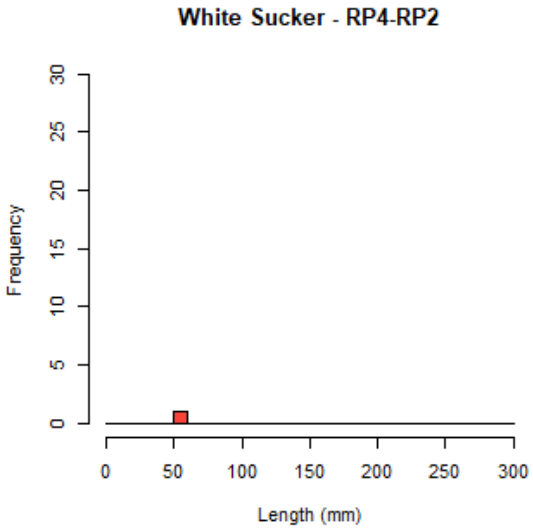


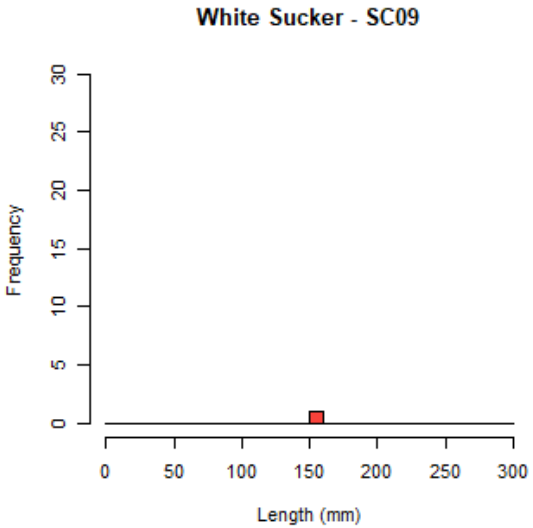
Appendix D
Fish Biometric Summaries – Riverine Fish Length Distributions



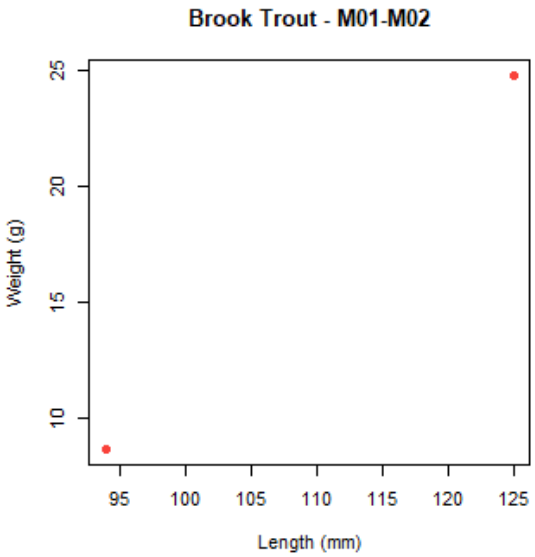


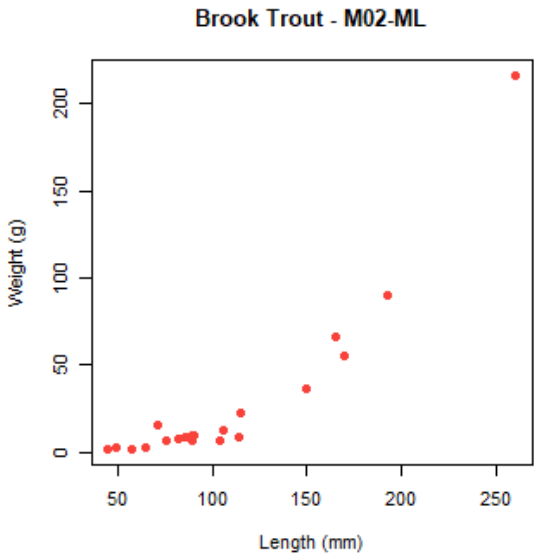


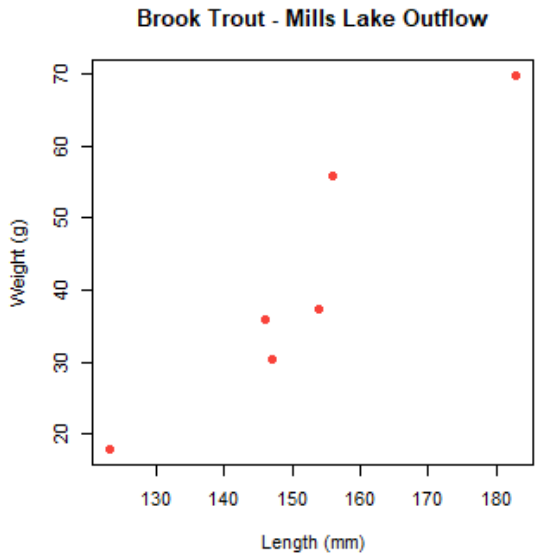


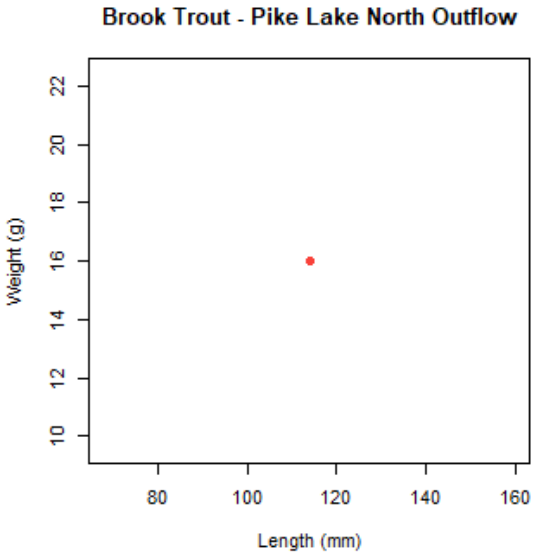


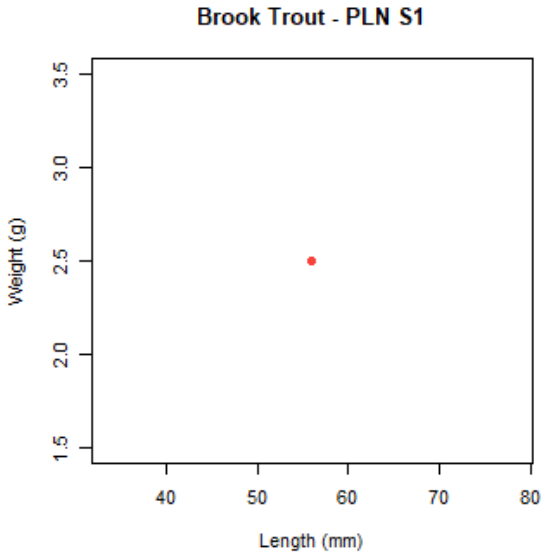
Appendix D
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

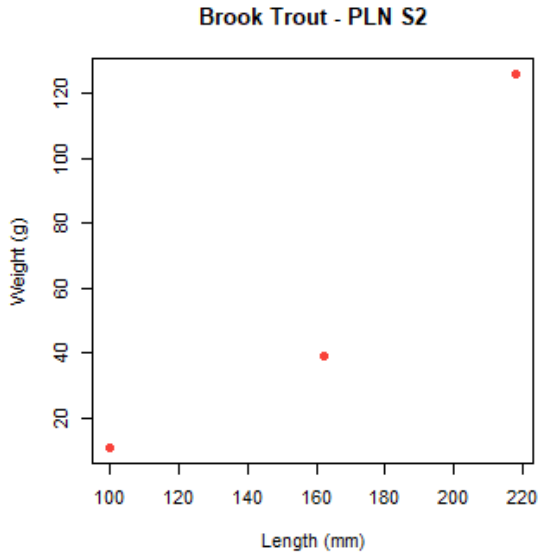




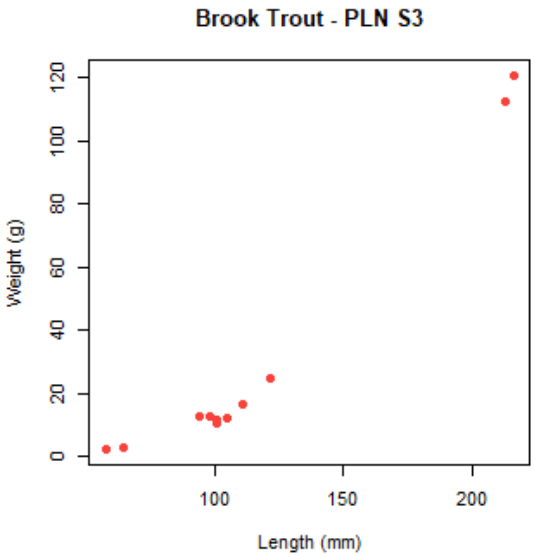


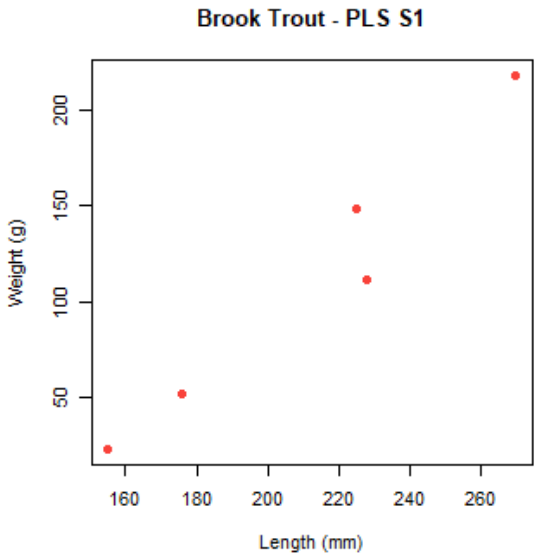


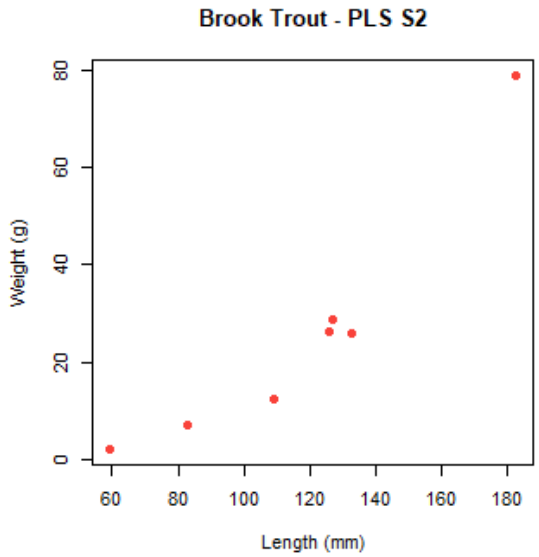


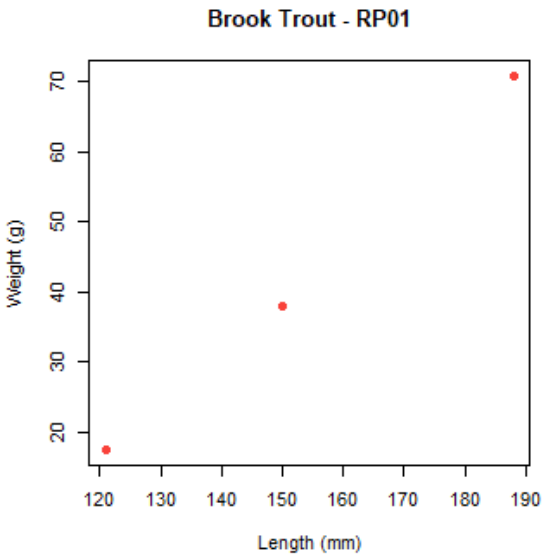


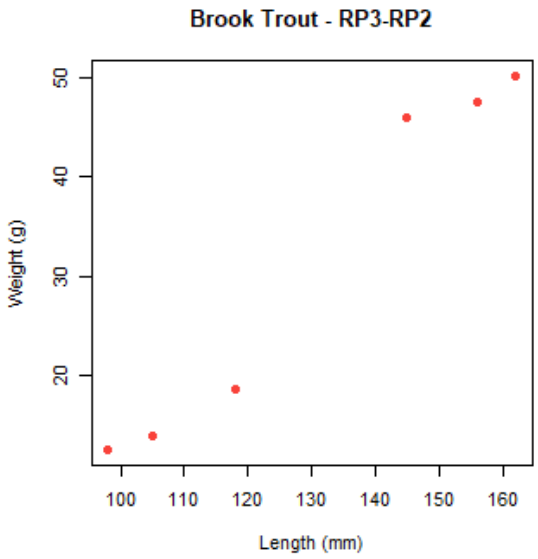
Appendix D
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

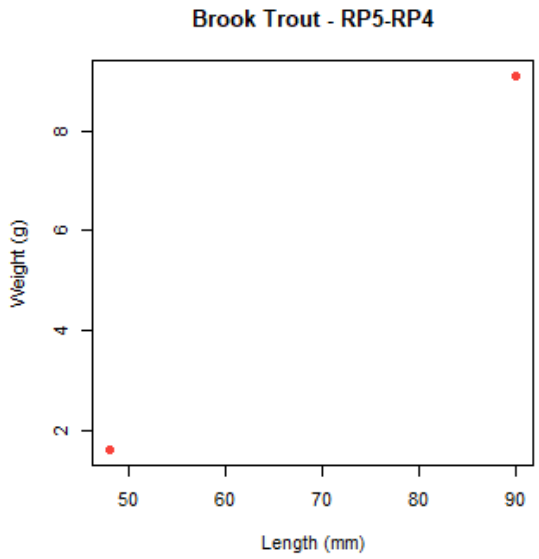




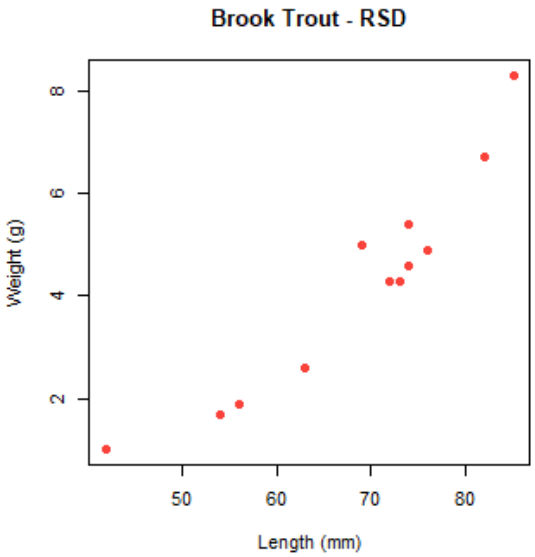


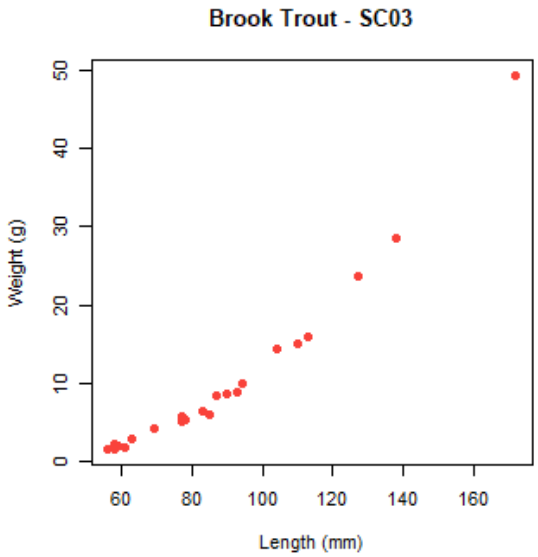


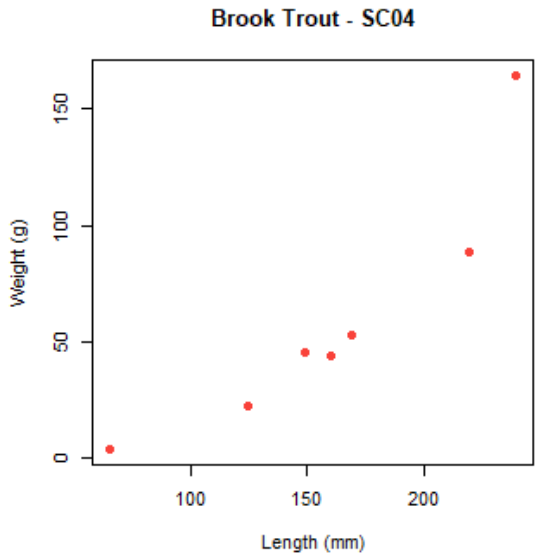


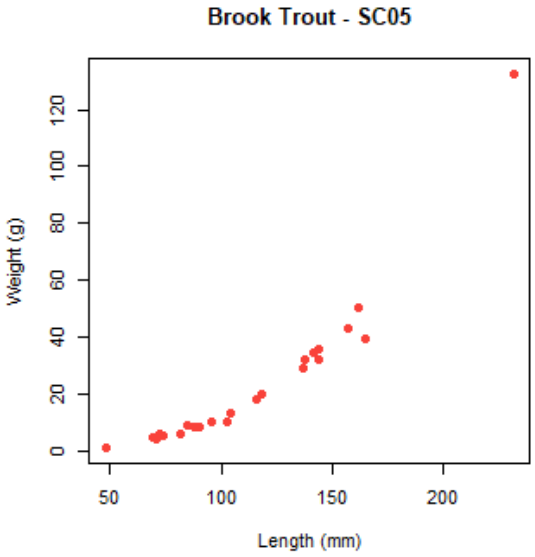


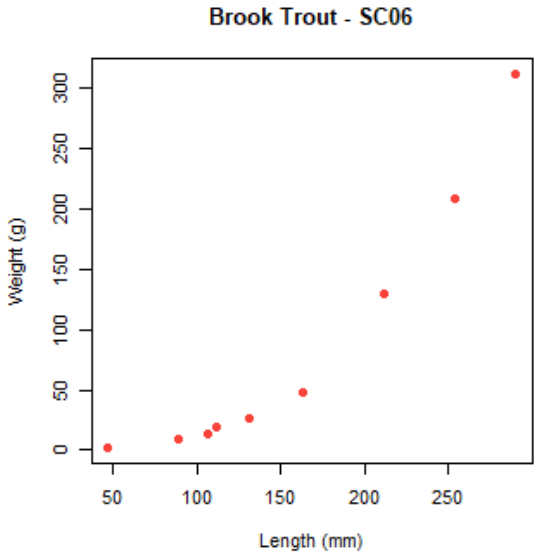
Appendix D
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

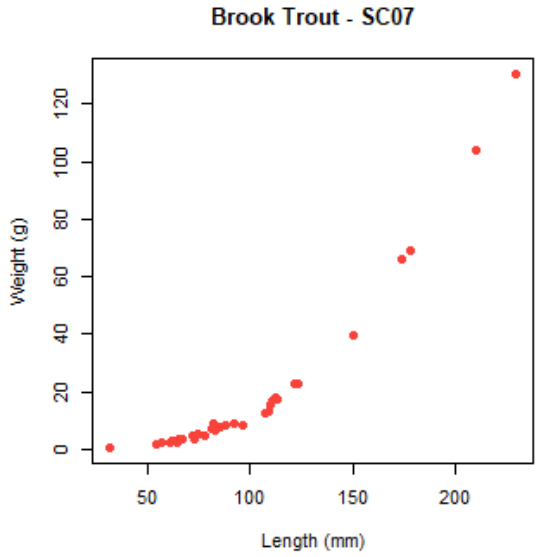




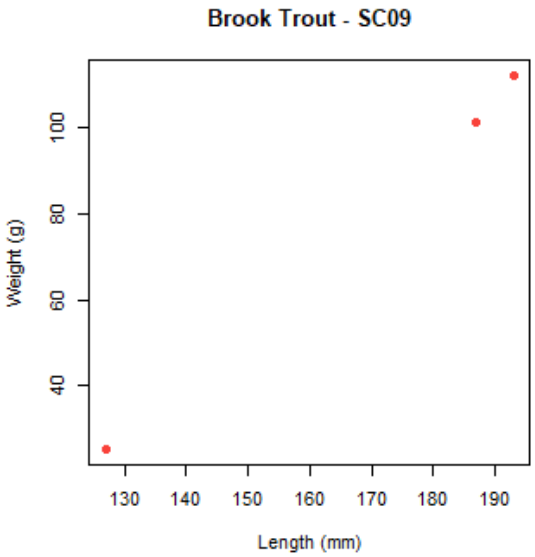


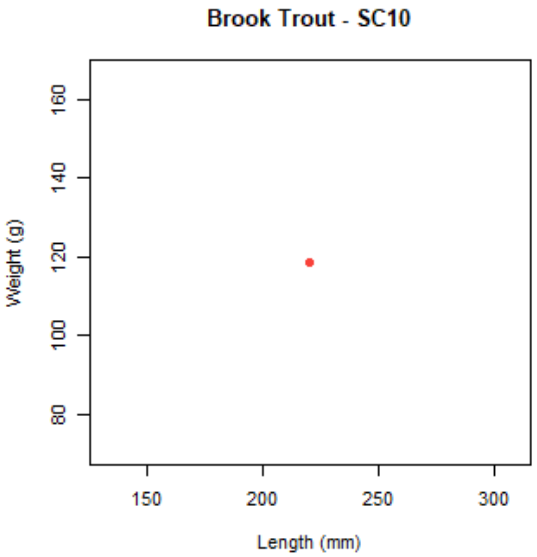


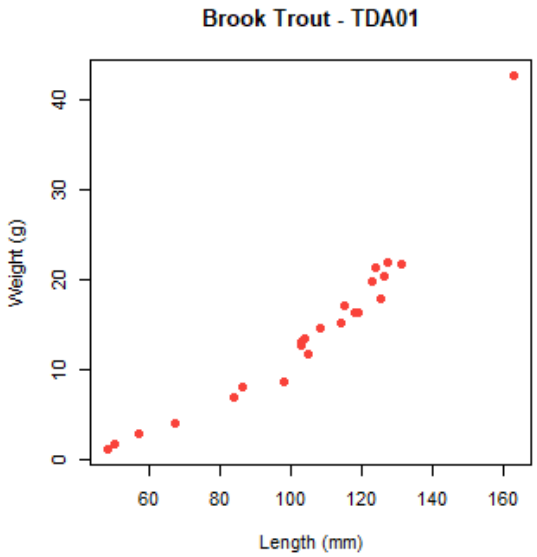


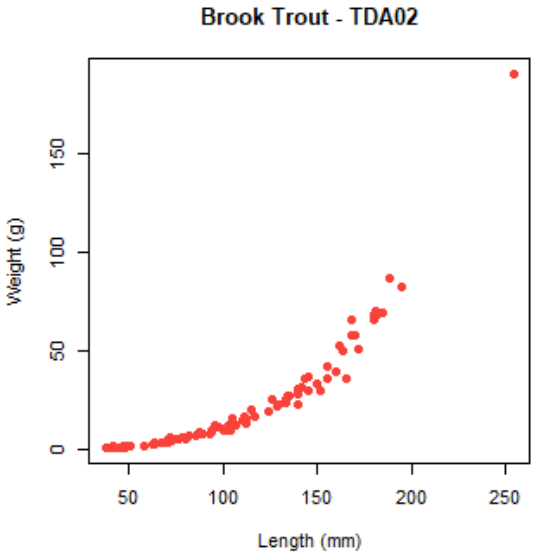


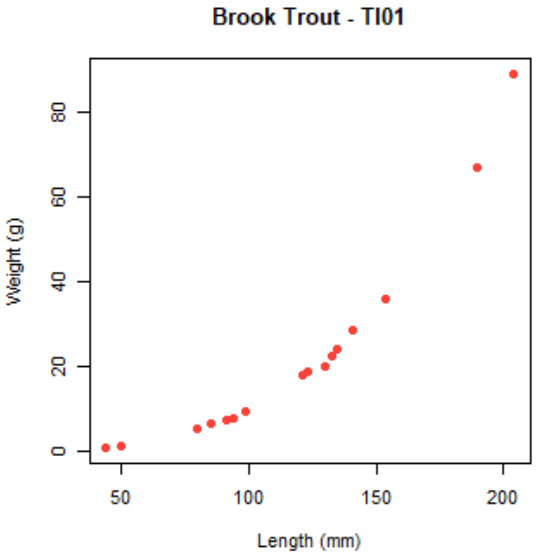
Appendix D
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

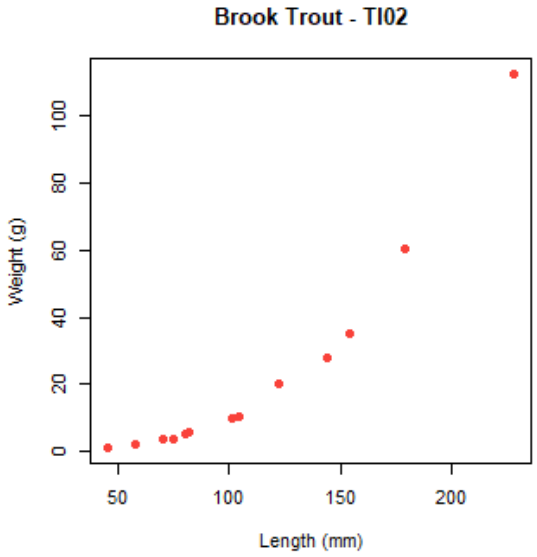




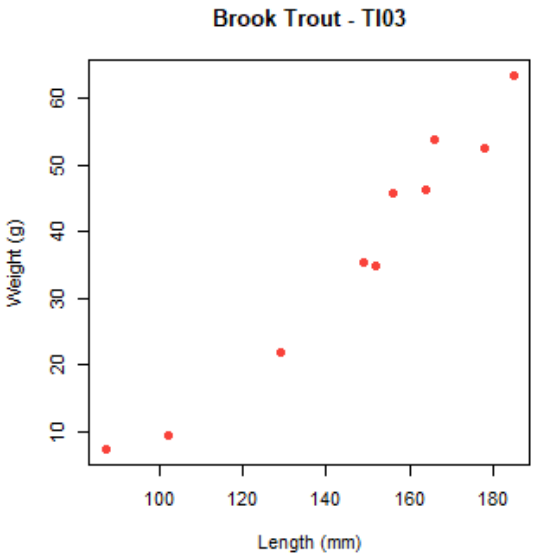


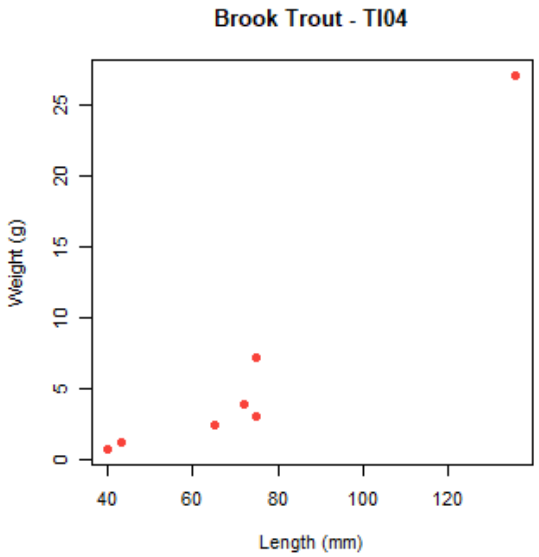


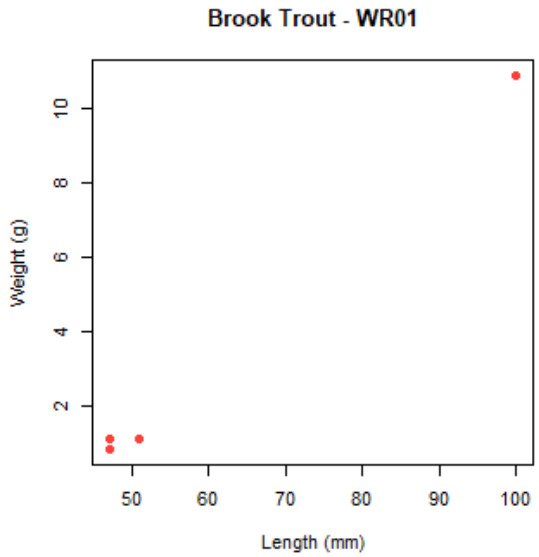


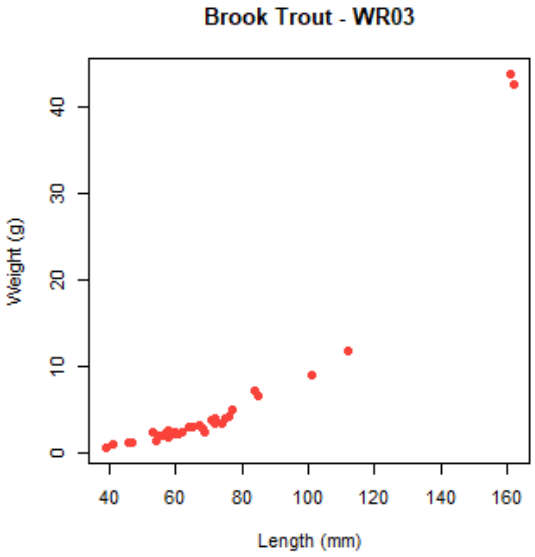


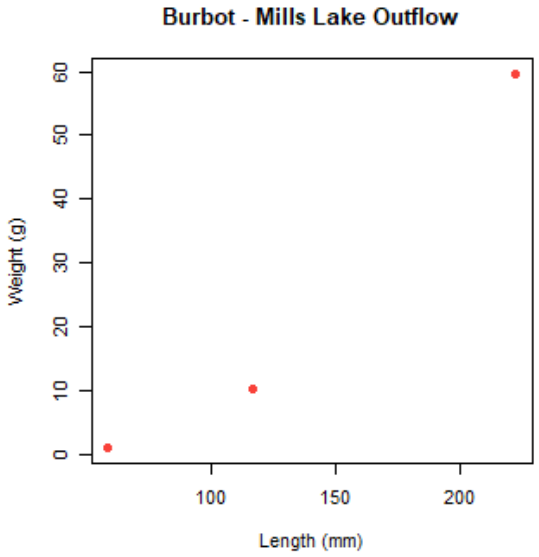
Appendix D
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

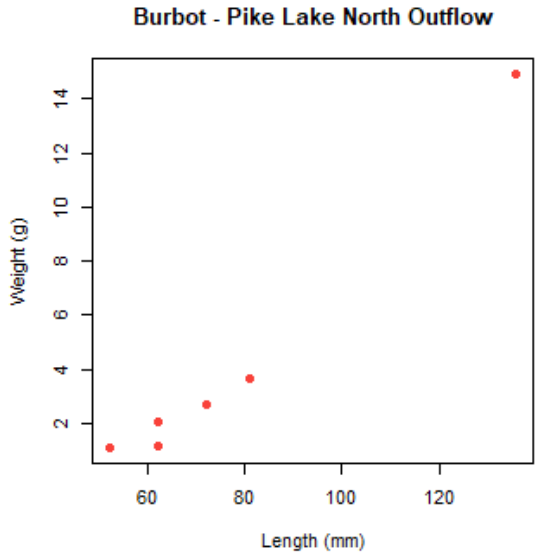




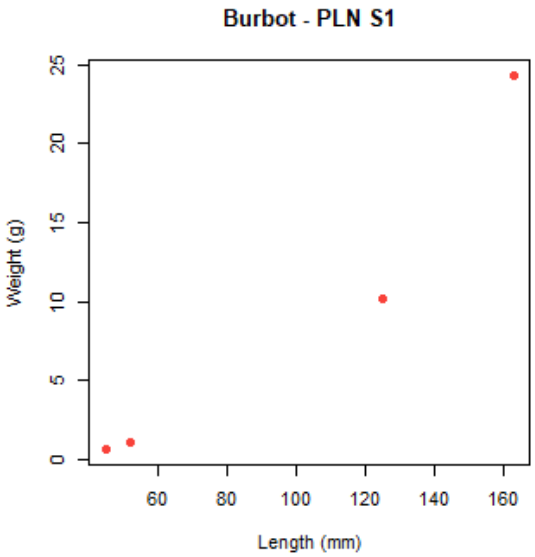


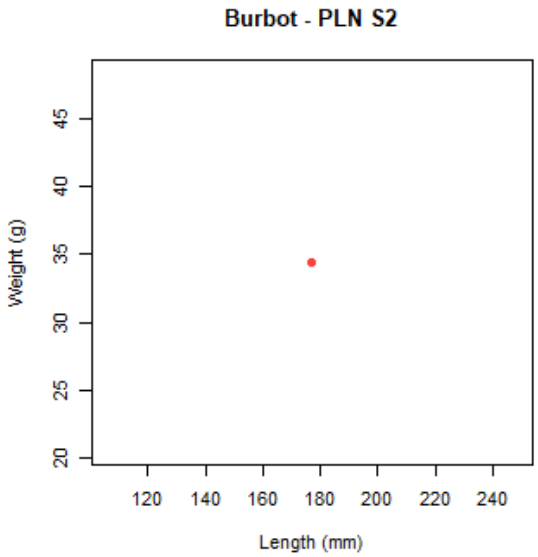


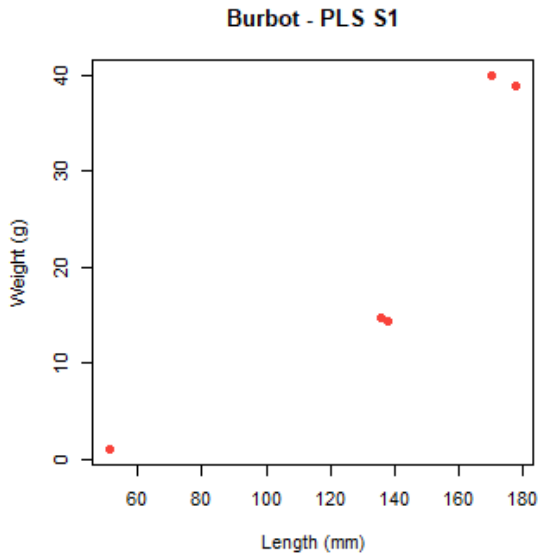


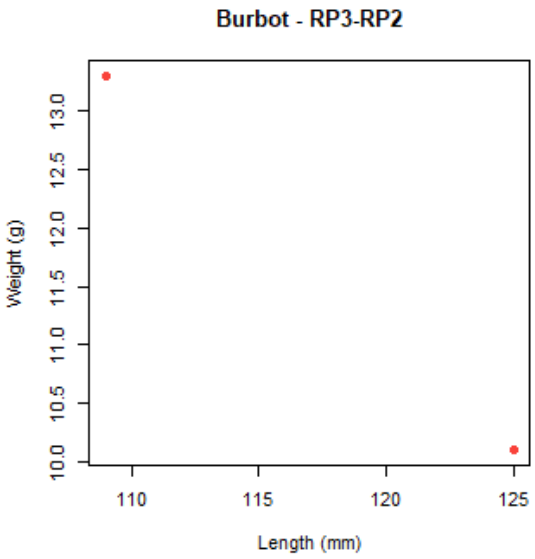


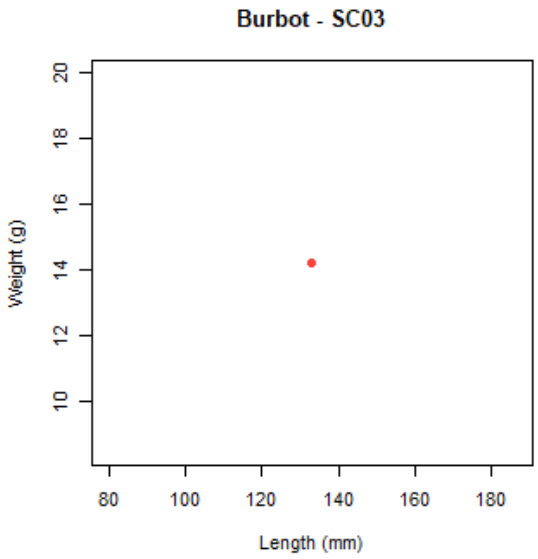
Appendix D
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

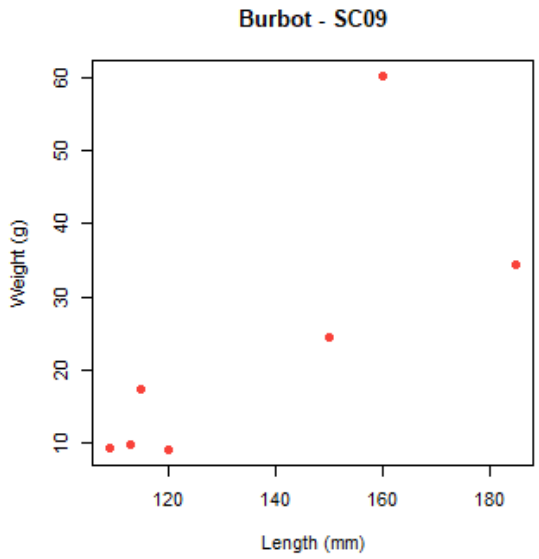




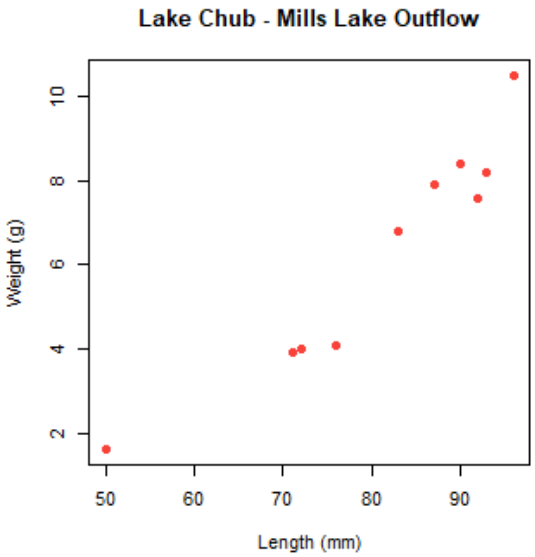


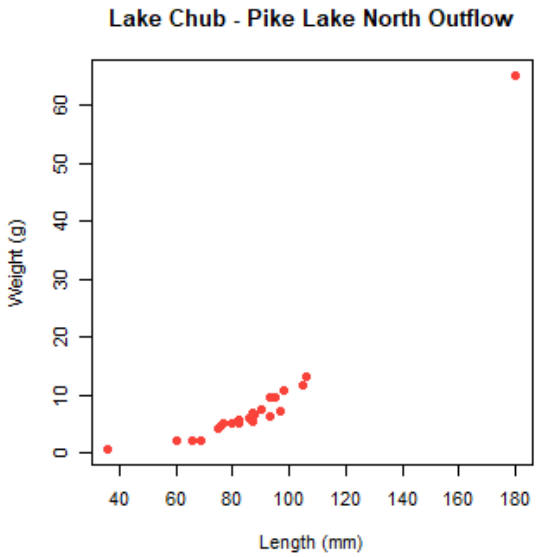


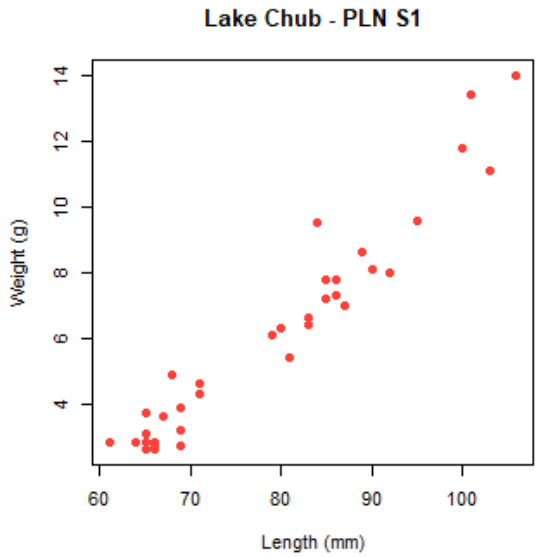


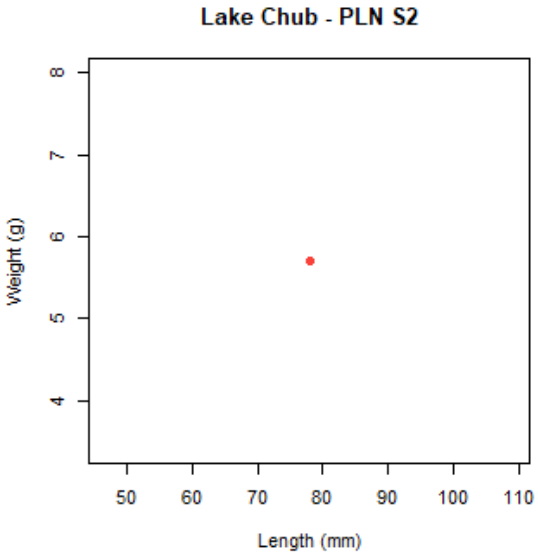


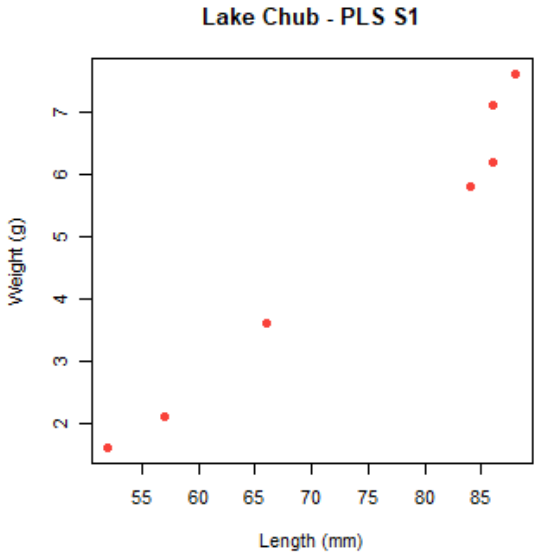
Appendix D
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

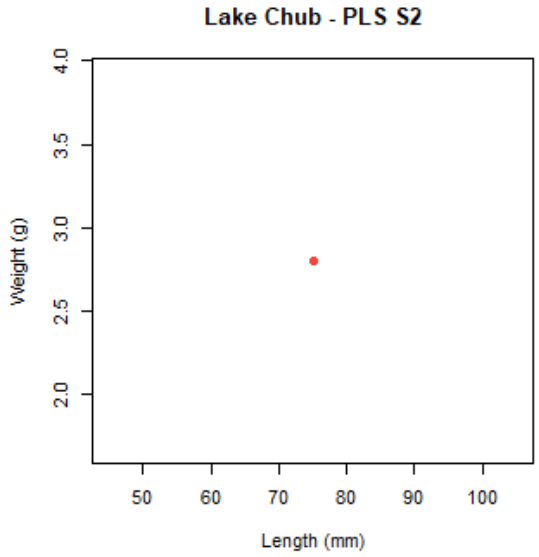












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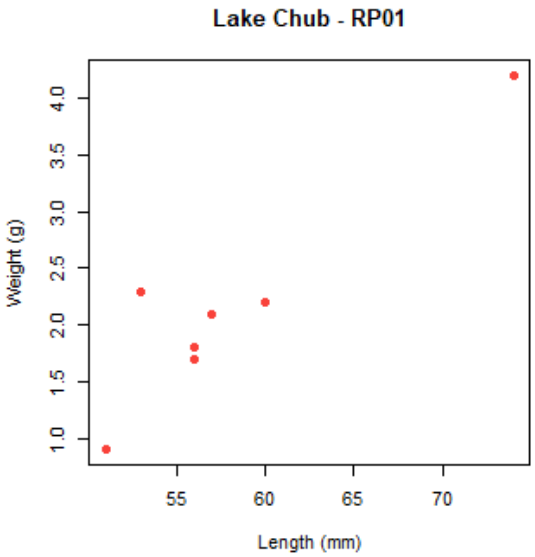

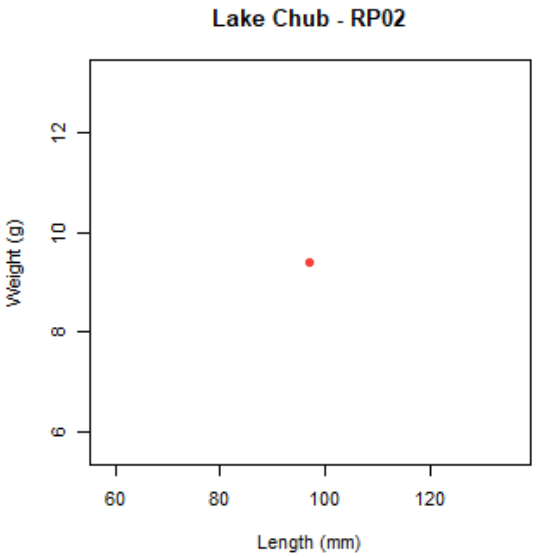

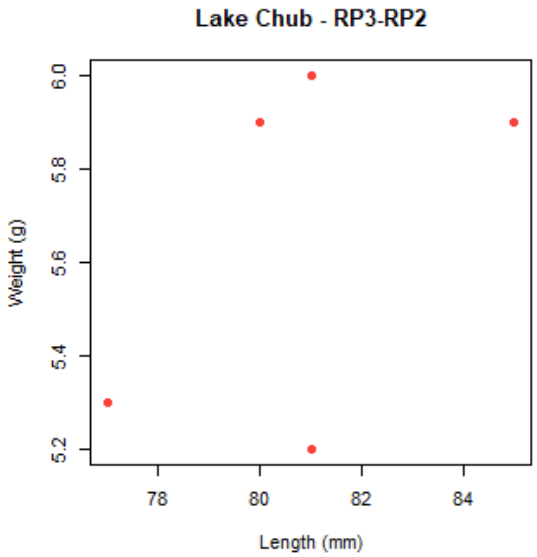

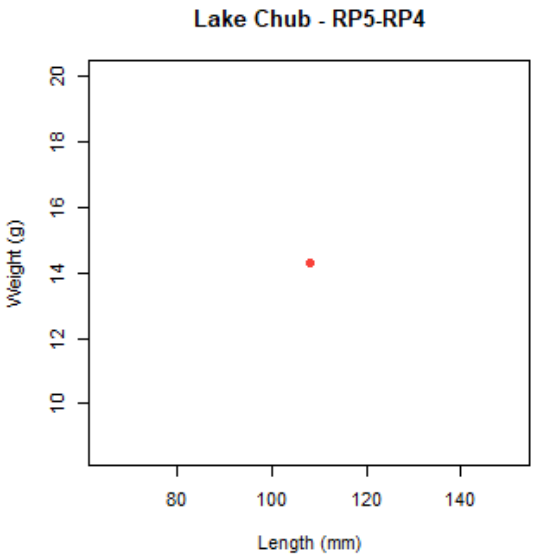

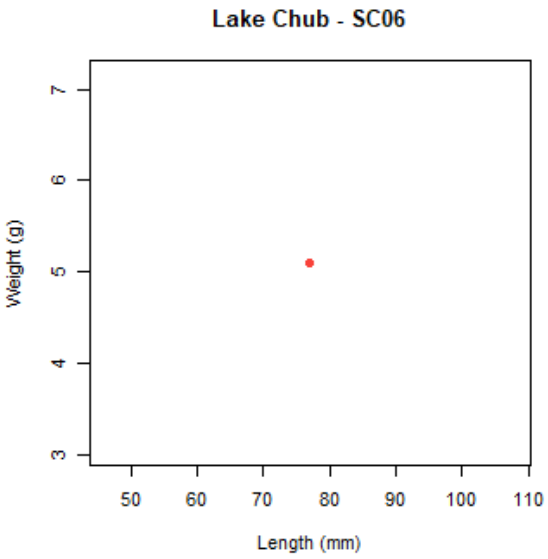

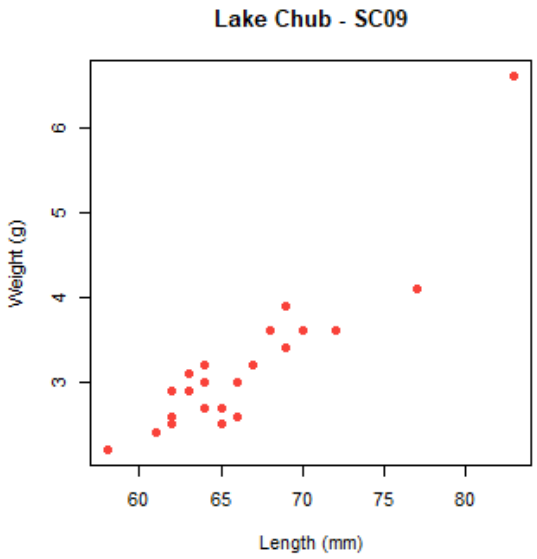

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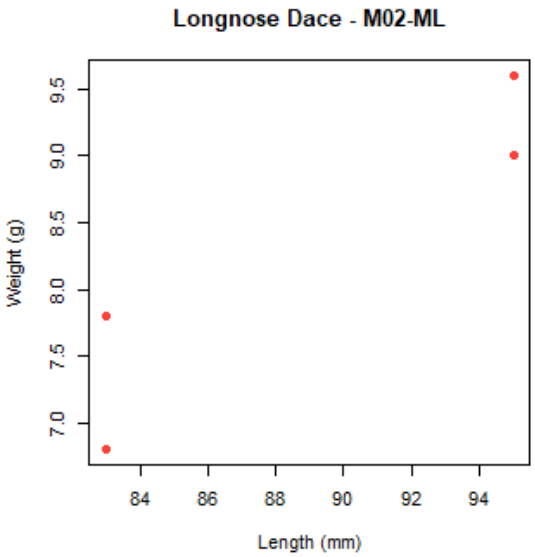

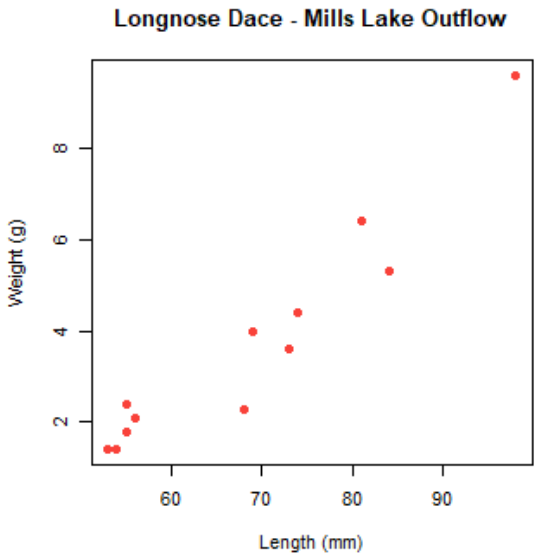

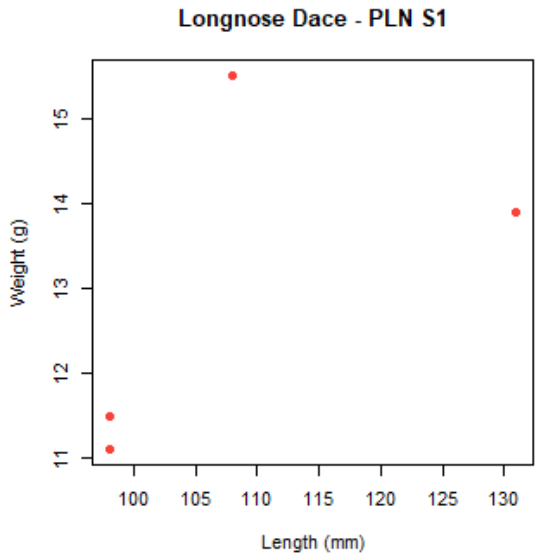

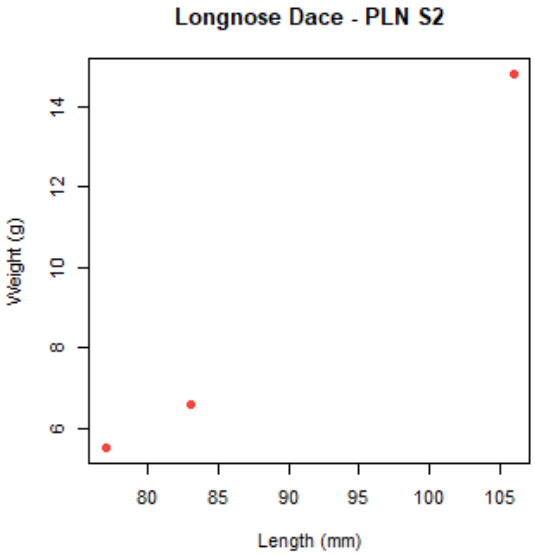

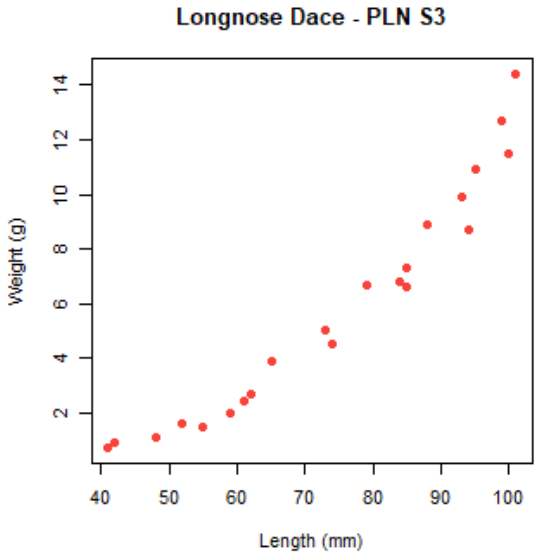

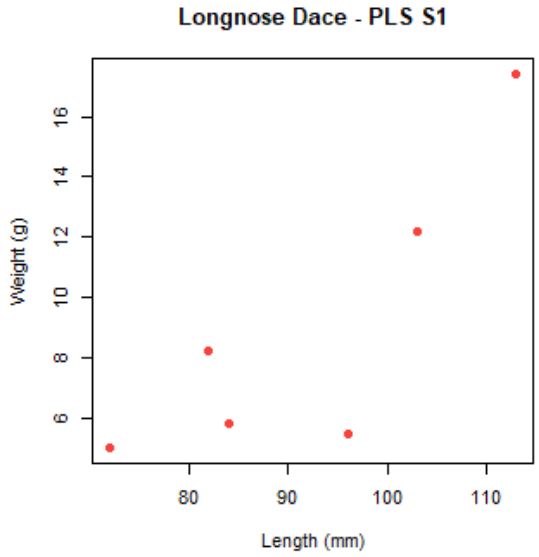

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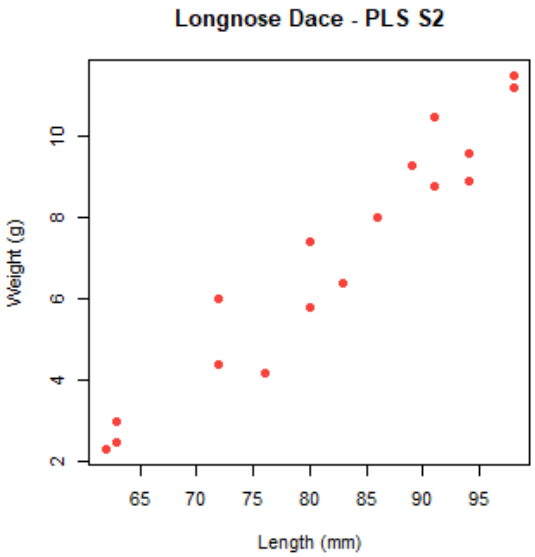
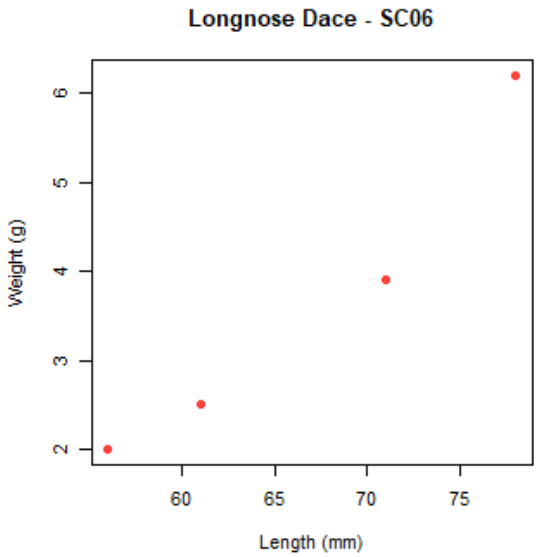
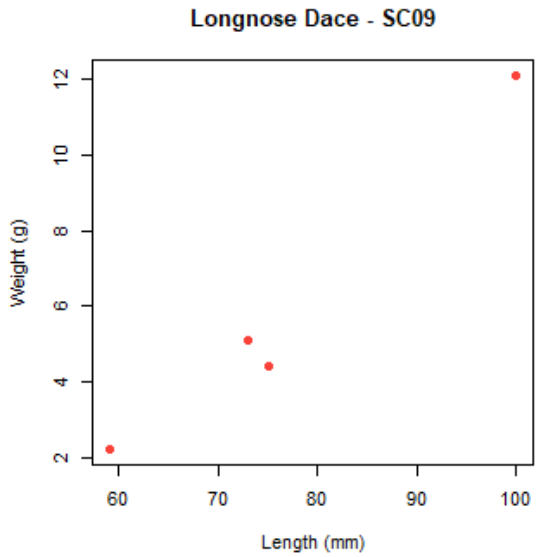
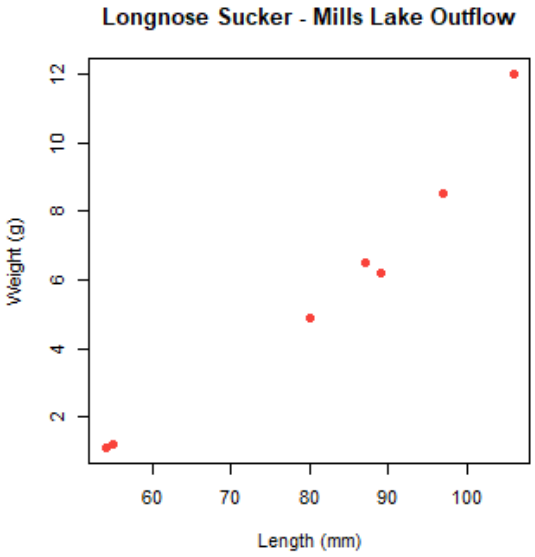
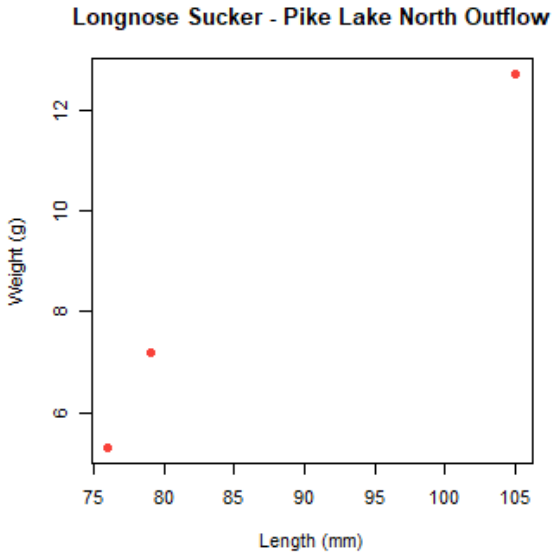
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

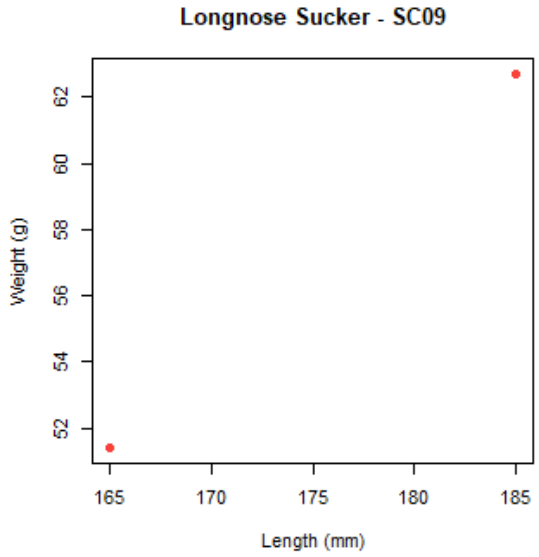












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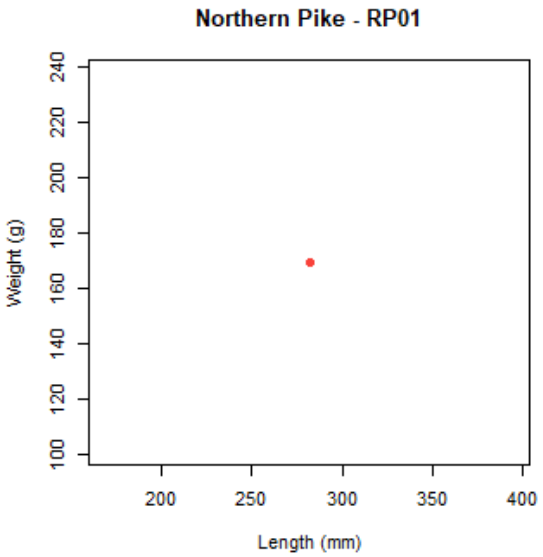
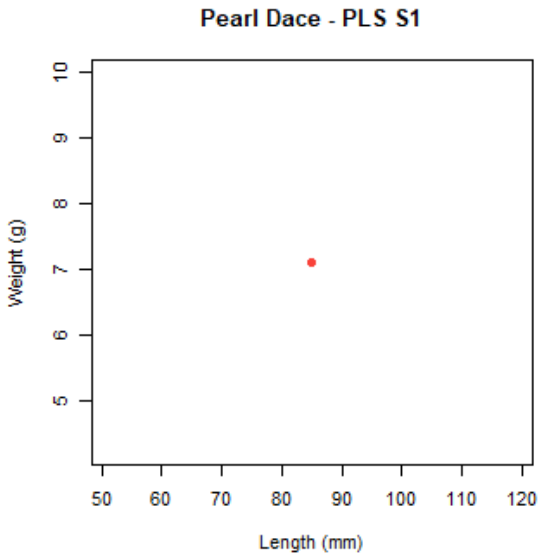
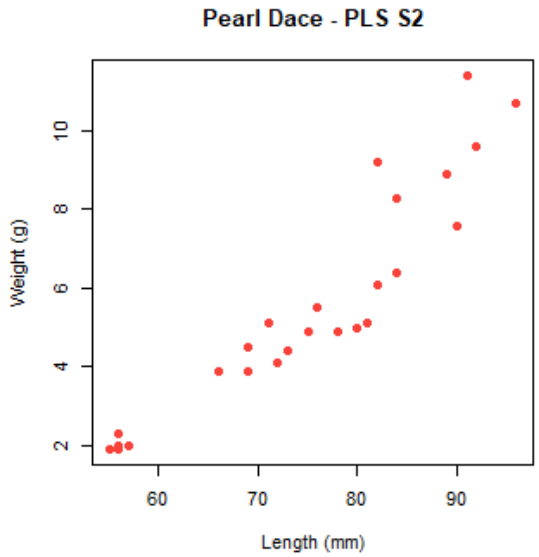
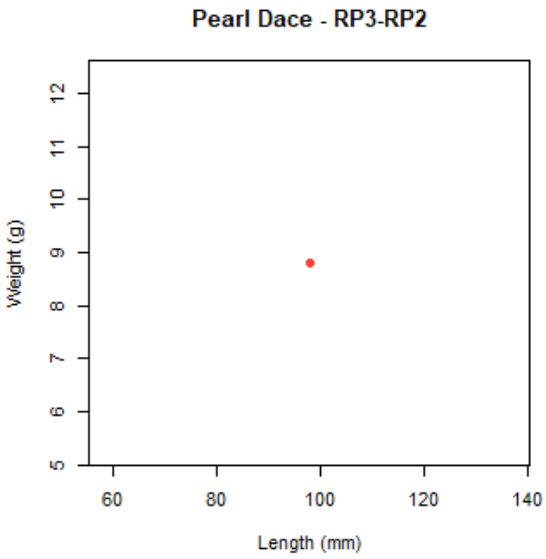
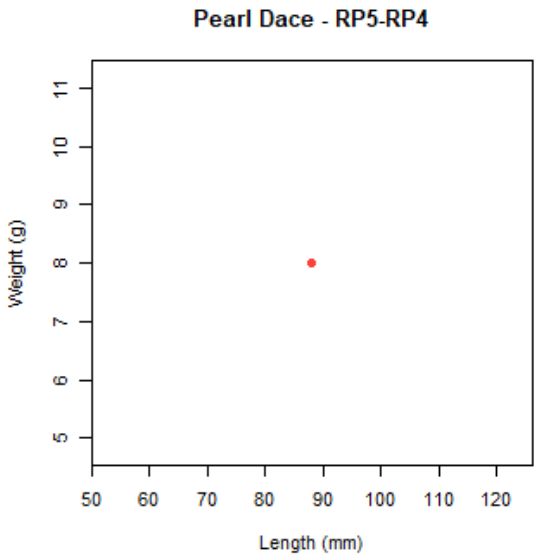
Fish Biometric Summaries – Riverine Fish Length -Weight Relationships

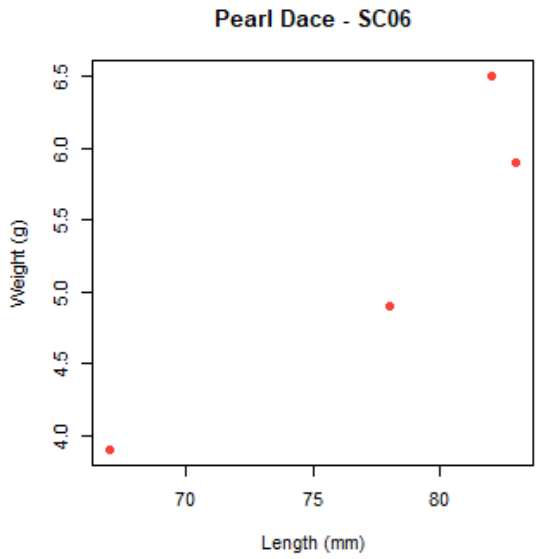












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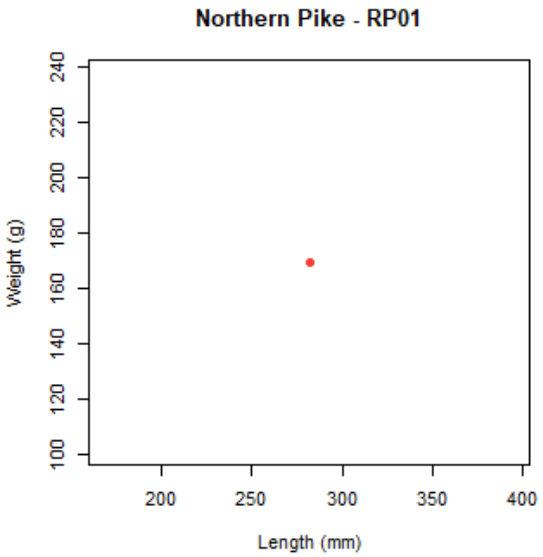

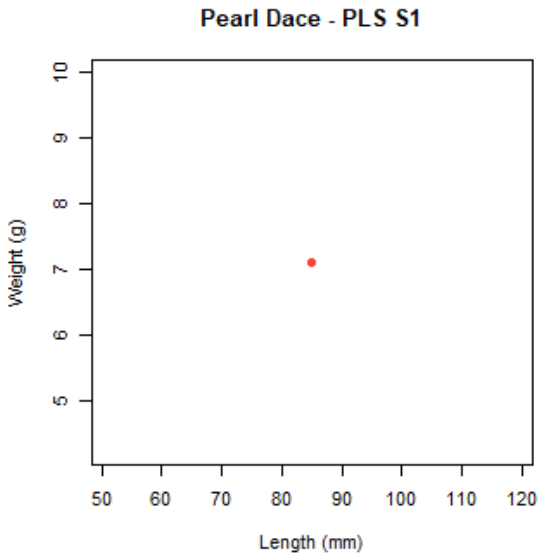

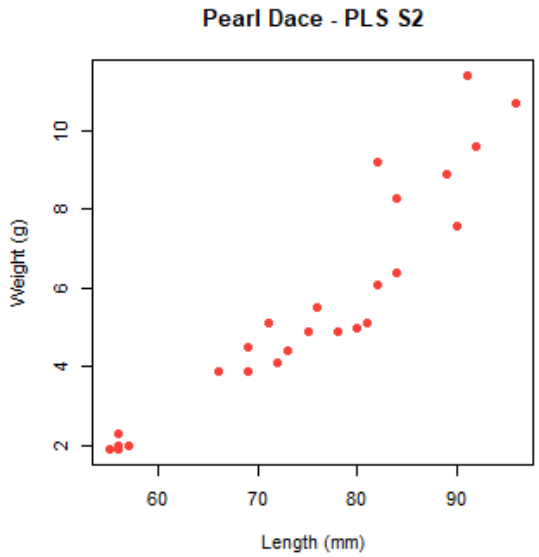

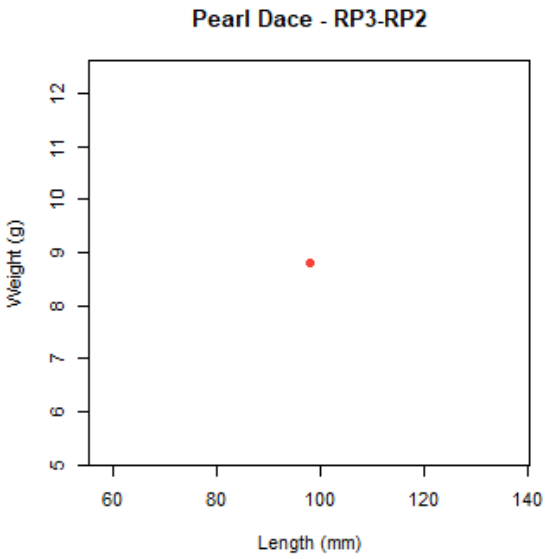

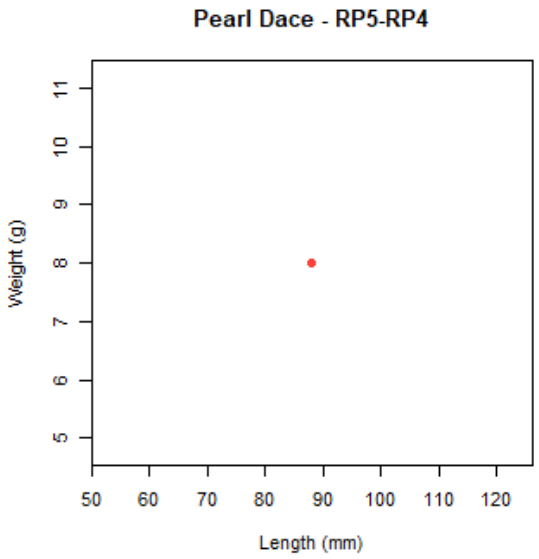

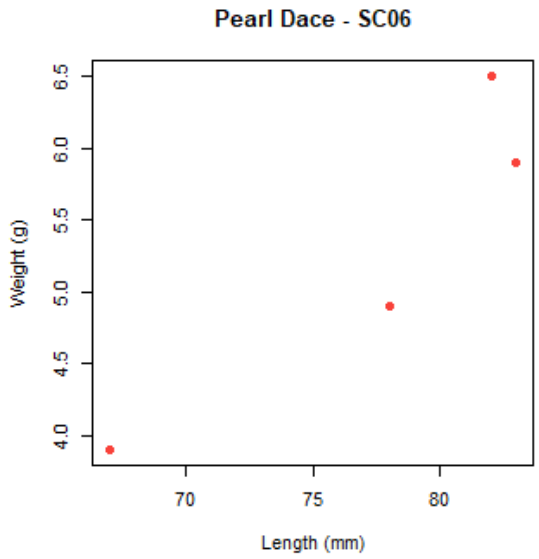

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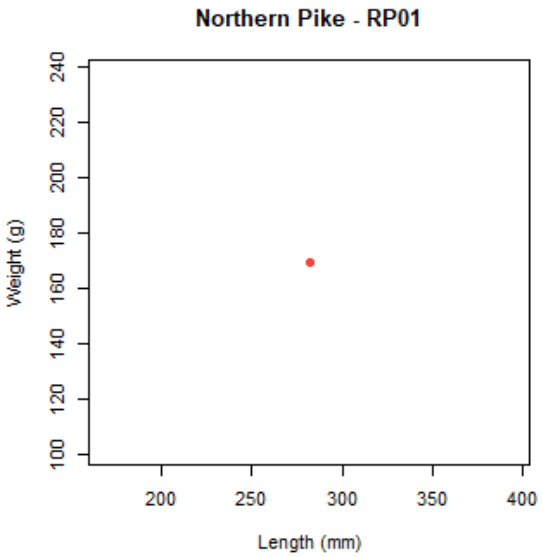

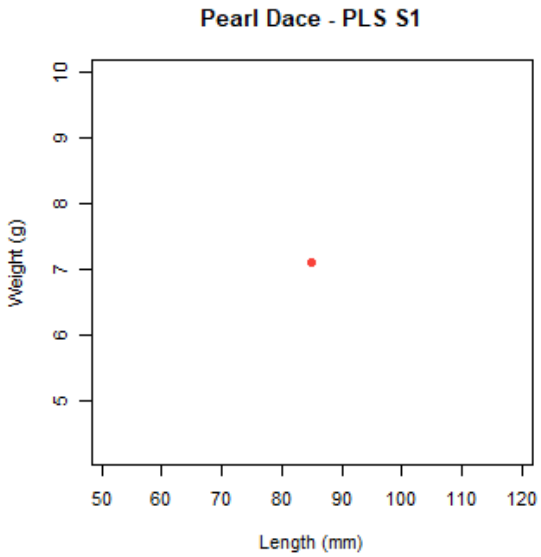

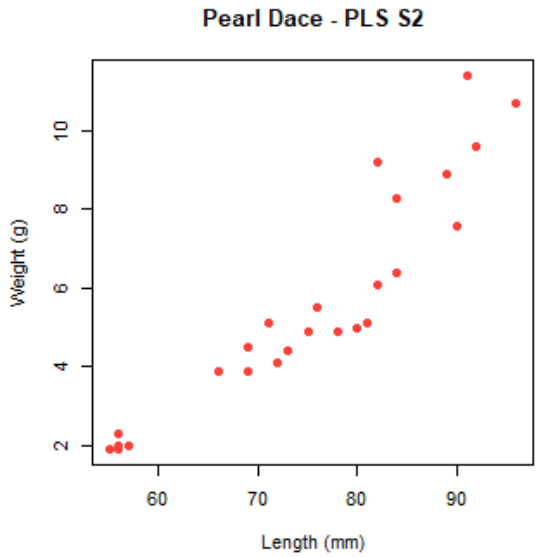

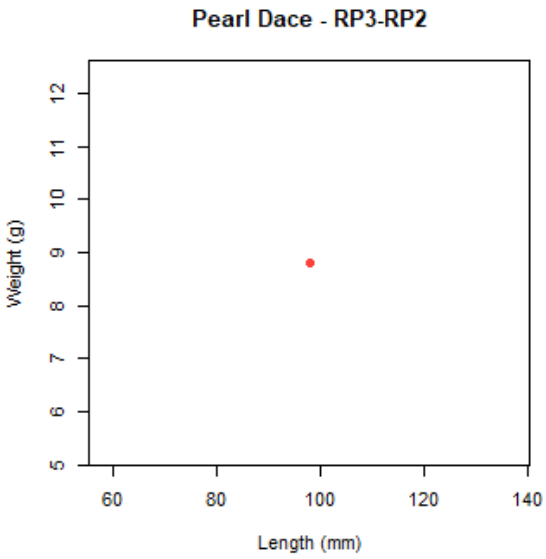

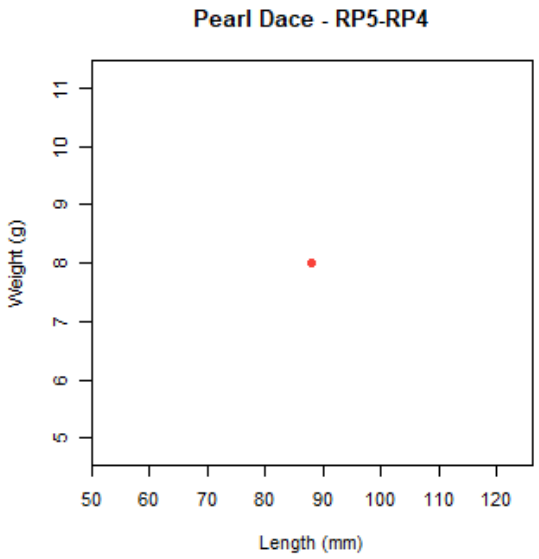

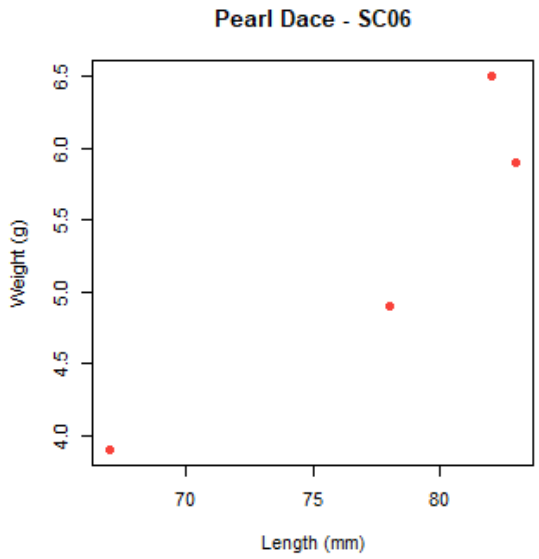

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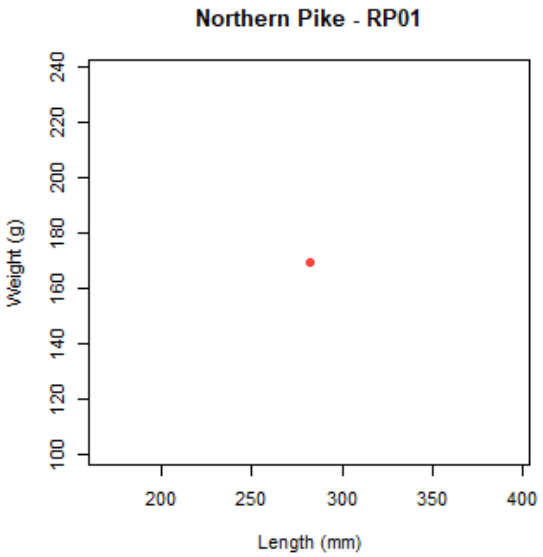

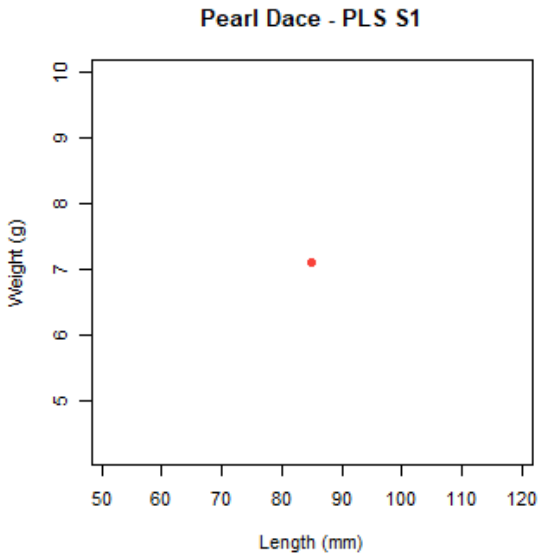

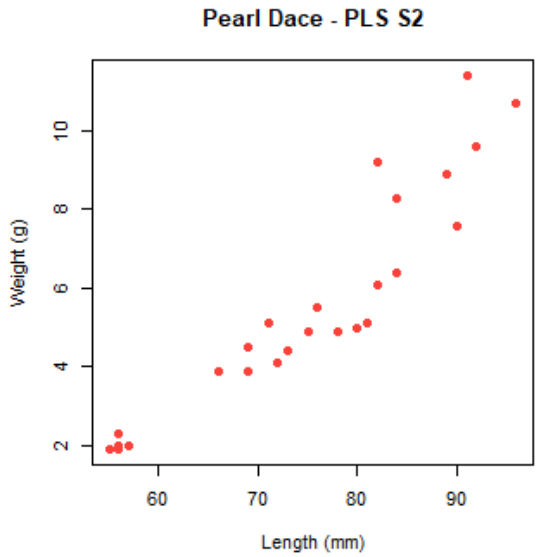

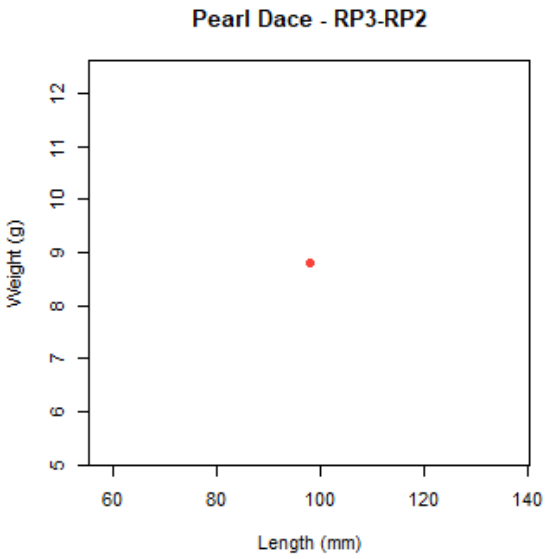

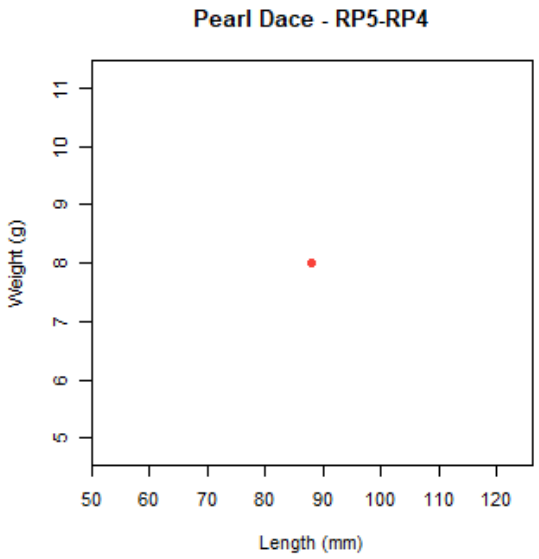

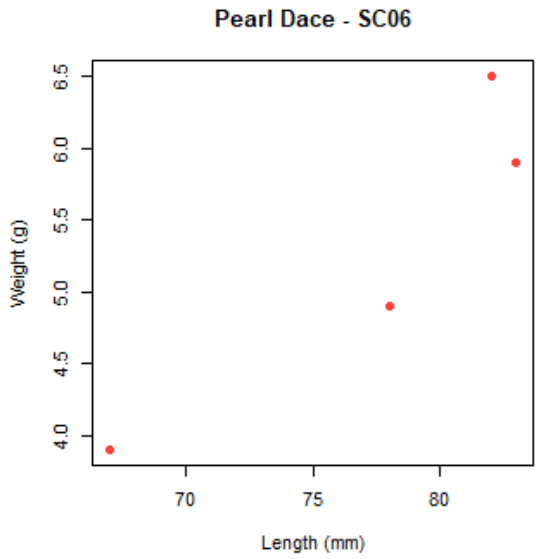

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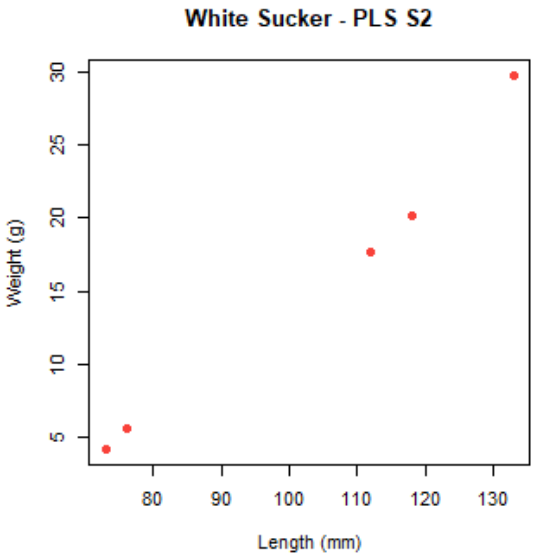
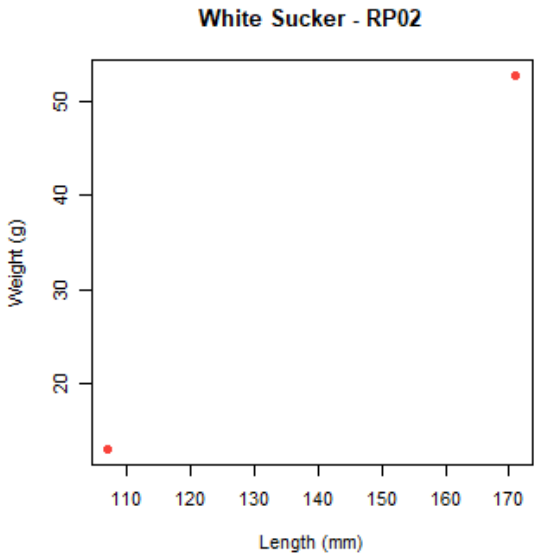
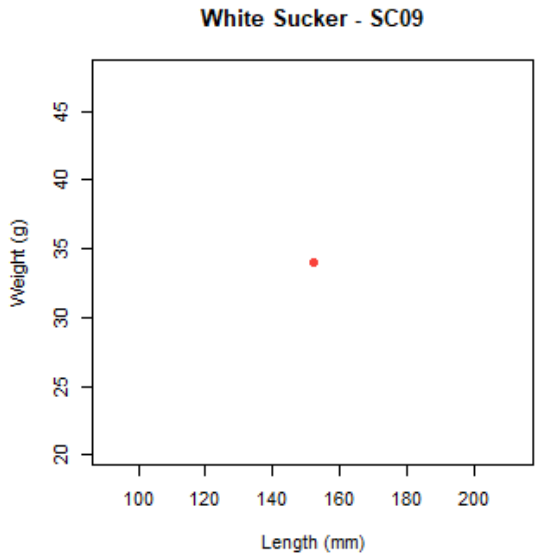






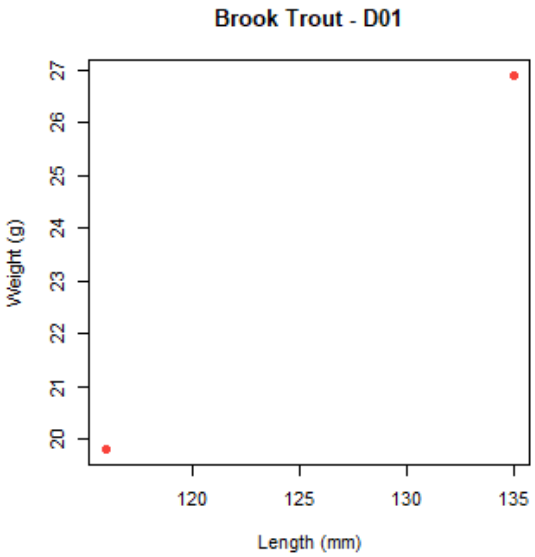
Appendix D
Fish Biometric Summaries - Lacustrine Summary Statistics

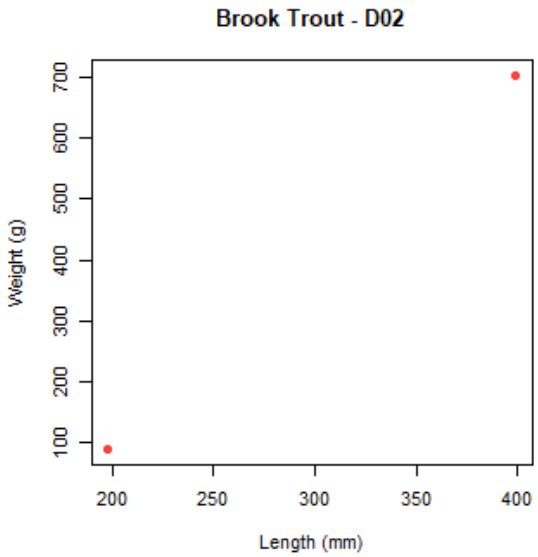
Species	Location	Sample Size	Length (mm)			Weight (g)		
			Minimum Measured	Mean Measured	Maximum Measured	Minimum Measured	Mean Measured	Maximum Measured
Brook Trout	D01	2	116	125.5	135	19.8	23.4	26.9
	D02	2	198	298.5	399	88.1	395.6	703.1
	M01	21	108	175.6	230	15.6	65.5	126.2
	M02	25	88	155.2	246	6.2	44.1	139.5
	Mills Lake	3	155	239.3	352	45.1	238.6	553.2
	Riorden Lake	1	241	241.0	241			
	Rose Pond (2012)	6	259	294.8	346	210.5	299.1	425.2
	RP04	2	182	201.0	220	64.0	99.4	134.7
	RP05	7	119	255.4	401	20.5	278.4	648.5
	Tailings Pond	7	105	147.0	223	10.3	36.2	116.2
Burbot	D01	13	28	98.7	250	0.2	15.2	92.4
	D02	2	172	199.5	227	32.9	75.4	117.9
	Long Lake	4	52	103.8	142	1.2	11.5	21.8
	M02	10	127	169.1	205	9.6	25.7	39.8
	Mills Lake	12	52	181.0	437	0.9	91.3	657.9
	Pike Gully	2	57	103.5	150	1.6	8.3	14.9
	Pike Lake North	3	43	87.3	172	0.8	10.3	29.2
	Pike Lake South (2012)	32	40	62.8	78	0.6	1.9	3.4
	Pike Lake South (2011)	2	37	37.0	37	0.6	0.6	0.6
	Riorden Lake	11	116	196.8	293	10.5	58.6	159.5
	Rose Pond (2012)	3	92	123.3	162	6.0	11.0	19.5
	Rose Pond (2011)	1	188	188.0	188	38.0	38.0	38.0
	RP04	9	154	216.6	252	18.6	67.3	159.7
	RP05	2	156	160.5	165	24.2	25.2	26.1
Lake Chub	D01	12	37	55.6	96	0.3	2.3	8.6
	D02	2	62	79.0	96	2.0	5.5	9.0
	Long Lake	36	36	82.5	120	1.6	8.4	16.0
	M02	83	41	75.9	126	0.7	5.2	18.5
	Mills Lake	35	31	71.1	98	0.3	4.4	9.7
	Pike Lake North	1	91	91.0	91	8.3	8.3	8.3
	Pike Lake South (2012)	1	86	86.0	86	4.6	4.6	4.6
	Pike Lake South (2011)	7	60	66.6	73	2.1	2.7	3.7
	Riorden Lake	36	56	83.3	109	1.2	8.6	55.7
	Rose Pond (2012)	2	82	85.0	88	5.3	5.6	5.9
	Rose Pond (2011)	50	57	66.7	88	1.2	3.1	8.5
	RP02	6	63	71.3	90			
	RP04	40	35	93.2	120	0.5	8.5	14.5
	RP05	95	44	93.4	132	1.0	9.0	22.7
	Tailings Pond	49	43	76.7	117	0.9	9.3	14.9
Lake Trout	D01	2	420	427.5	435	640.2	731.9	823.6
	M02	1	660	660.0	660			
Lake Whitefish	Pike Lake North	7	302	325.7	354	337.2	415.0	556.6
Longnose Dace	D02	1	36	36.0	36	0.6	0.6	0.6
	Mills Lake	3	47	62.3	83	1.6	3.8	7.0
	Riorden Lake	6	50	68.3	84	1.4	5.8	12.3
Longnose Sucker	D01	10	129	156.9	214	25.3	50.4	120.3
	D02	12	74	152.9	195	4.8	51.9	92.2
	Long Lake	112	38	65.4	433	0.5	5.6	42.4
	Mills Lake	81	32	101.8	260	0.3	23.8	202.3
	Riorden Lake	2	217	219.5	222	136.3	142.8	149.2
	Pike Gully	3	89	192.0	287	4.2	67.3	136.6

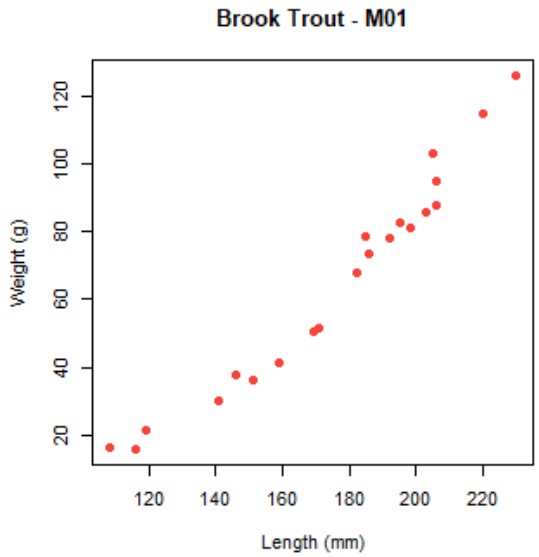
Appendix D
Fish Biometric Summaries - Lacustrine Summary Statistics

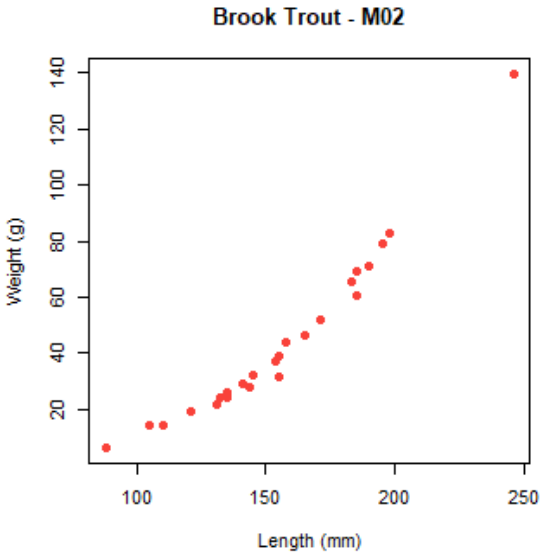
Species	Location	Sample Size	Length (mm)			Weight (g)		
			Minimum Measured	Mean Measured	Maximum Measured	Minimum Measured	Mean Measured	Maximum Measured
Northern Pike	Pike Lake North	11	78	94.1	115	3.2	6.2	11.3
	Pike Lake South (2012)	14	94	257.4	590	5.6	703.8	2400.0
	Pike Lake South (2011)	4	46	381.8	730	0.6	1.6	2.6
	Rose Pond (2012)	42	184	290.5	328	45.1	182.8	305.3
	Rose Pond (2011)	1	248	248.0	248	126.5	126.5	126.5
	RP02	3	181	425.3	561			
	RP03	4	430	562.5	640			
Pearl Dace	D01	2	42	52.0	62	1.1	2.4	3.6
	D02	9	42	48.8	66	0.6	1.2	3.1
	M02	77	28	74.1	113	0.2	3.4	8.1
	RP04	28	45	79.3	120	1.8	11.2	17.8
	RP05	33	45	76.5	125	0.9	5.1	17.8
Round Whitefish	D01	7	112	247.0	332	12.2	188.3	343.2
	Long Lake	1	66	66.0	66			
	Mills Lake	2	330	352.5	375			
Sculpin	D01	3	34	40.7	48	0.4	0.7	0.9
	D02	1	138	138.0	138	30.0	30.0	30.0
	Long Lake	9	42	51.7	62	1.1	1.5	2.1
	Mills Lake	30	38	54.9	90	0.9	2.3	7.8
	Pike Lake North	8	45	47.4	50	1.1	1.4	1.6
	Pike Lake South (2012)	3	54	65.7	75	3.3	5.3	7.3
	Pike Lake South (2011)	10	43	50.8	59	0.6	1.2	2.3
	Riorden Lake	1	71	71.0	71	4.4	4.4	4.4
	Rose Pond (2012)	3	27	58.0	75	3.3	3.3	3.3
	RP02	13	46	52.6	58			
	RP04	1	36	36.0	36	0.5	0.5	0.5
	RP05	1	61	61.0	61	1.5	1.5	1.5
White Sucker	D01	2	127	137.0	147	22.6	29.1	35.6
	Long Lake	124	31	55.0	478	0.6	35.0	1402.6
	Pike Gully	63	152	247.6	405	39.8	214.8	1000.0
	Pike Lake North	35	57	266.2	454	2.3	362.7	1185.4
	PLS	1	117	117.0	117	17.6	17.6	17.6
	Riorden Lake	4	161	203.0	240	61.9	119.8	179.4
	Rose Pond (2012)	7	165	245.3	298	56.5	215.6	363.2
	Rose Pond (2011)	11	112	167.1	262	16.6	73.5	230.5
	RP04	44	44	139.1	425	0.8	51.8	680.2
	RP05	20	90	207.7	412	7.6	205.0	735.6

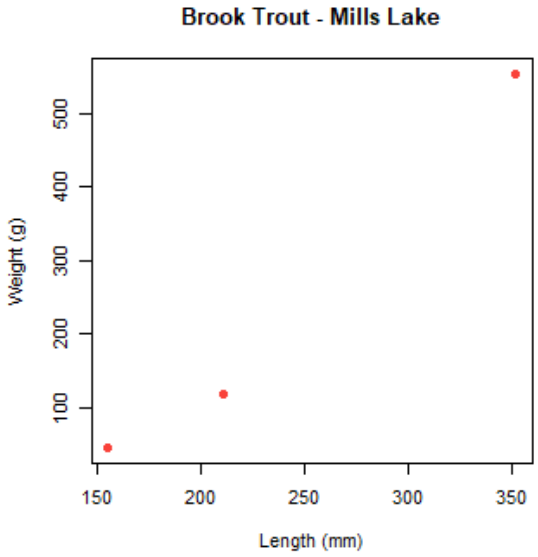
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

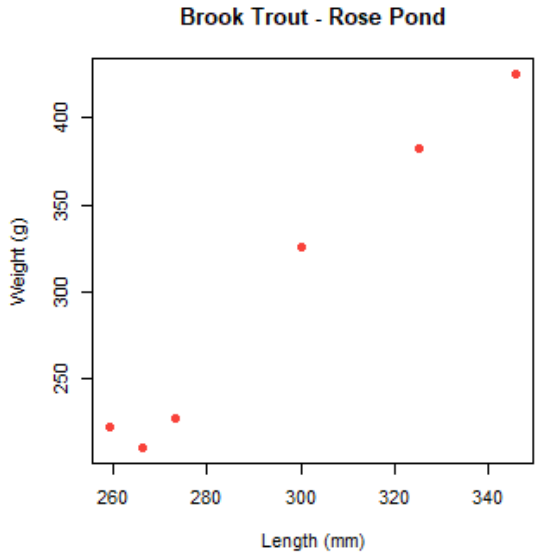




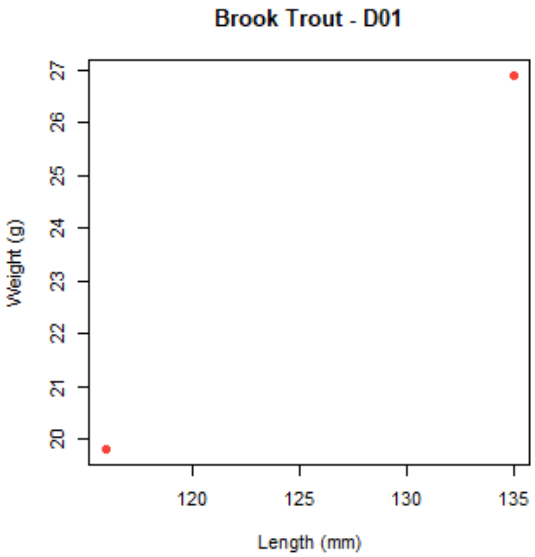


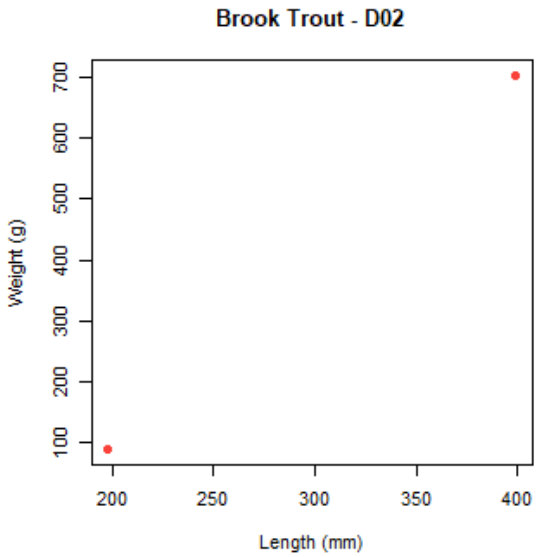


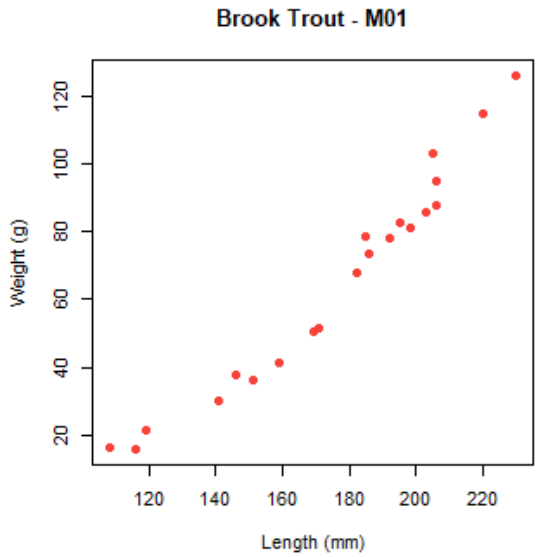


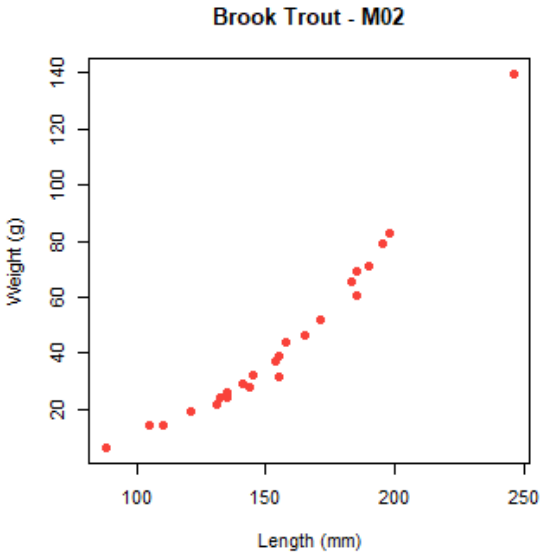


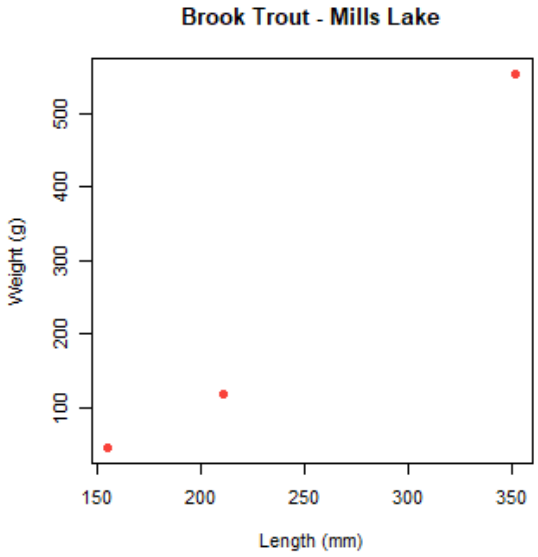
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

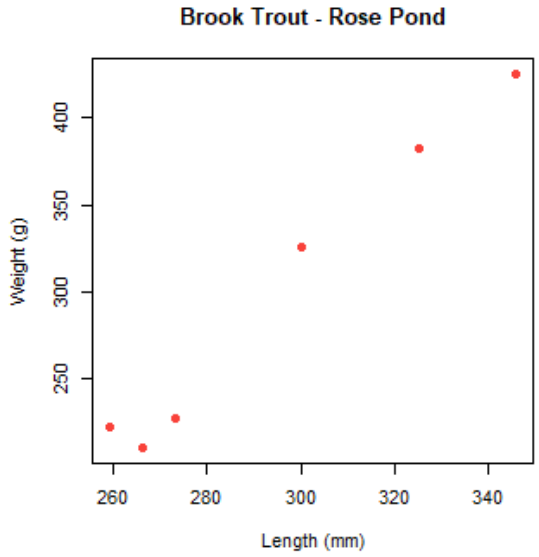












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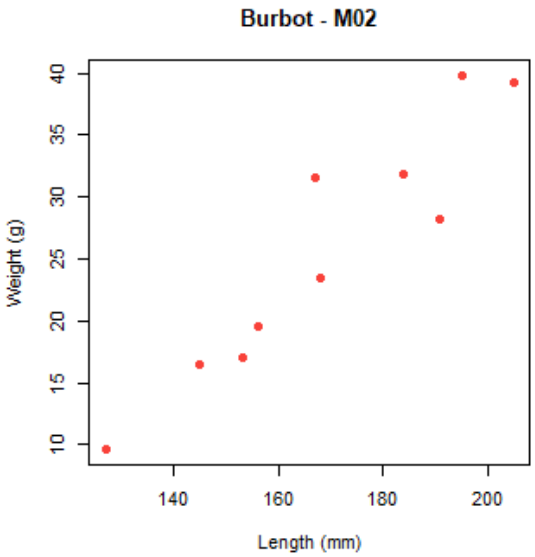
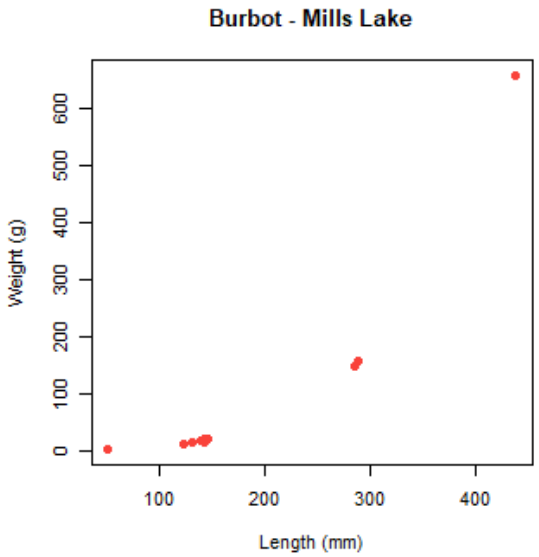
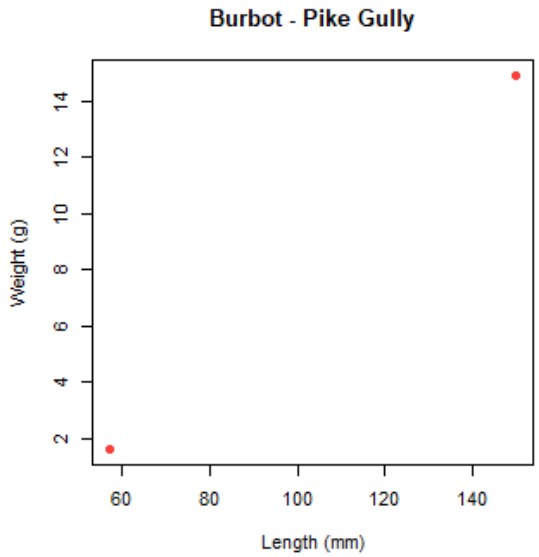
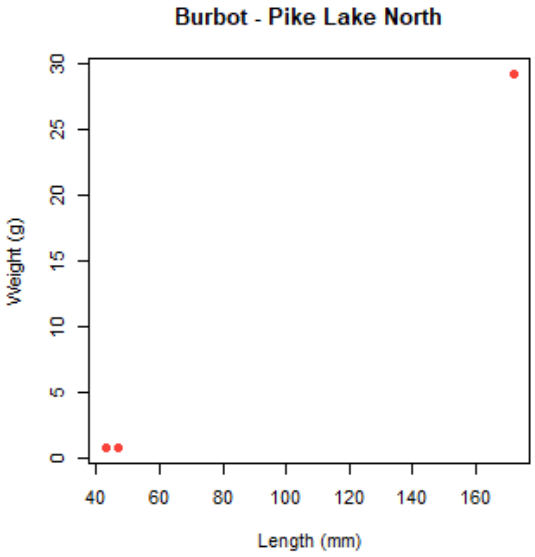
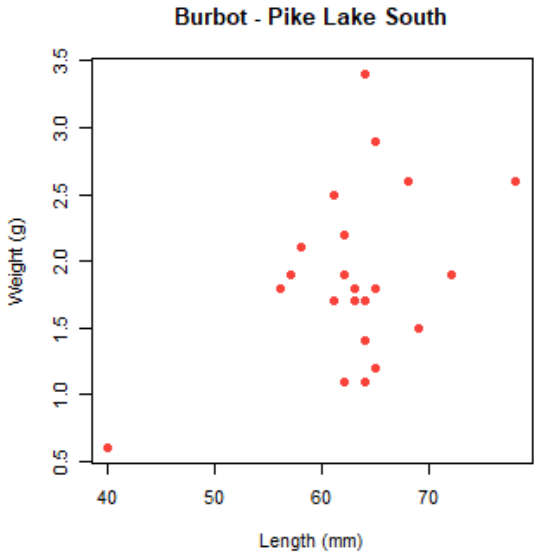
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

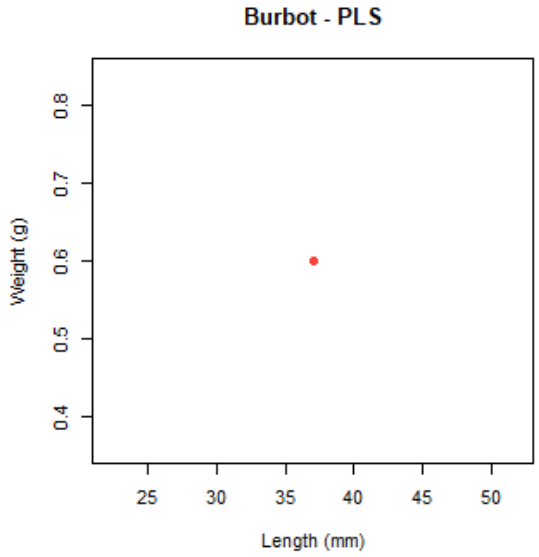




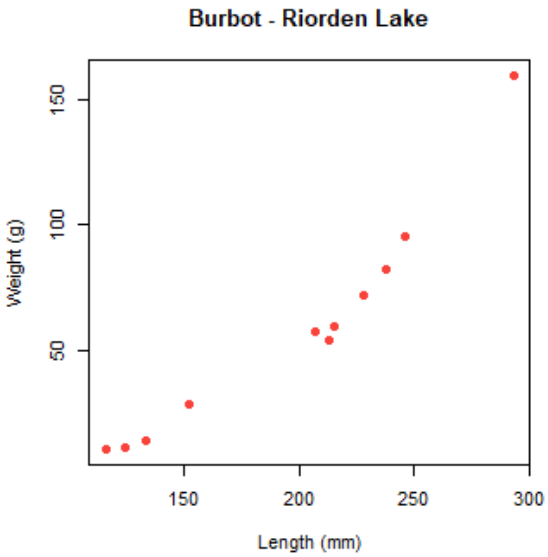


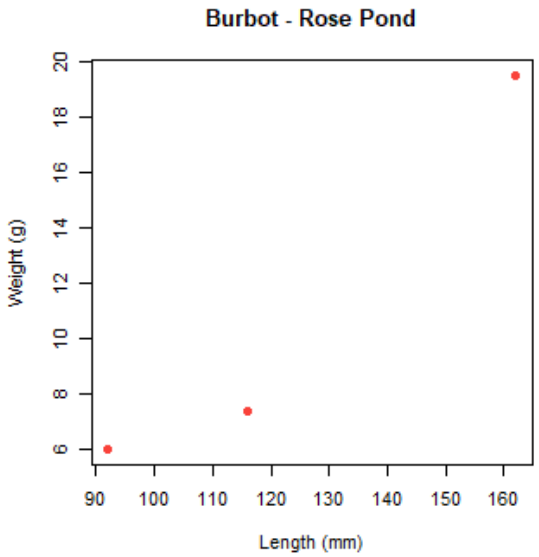


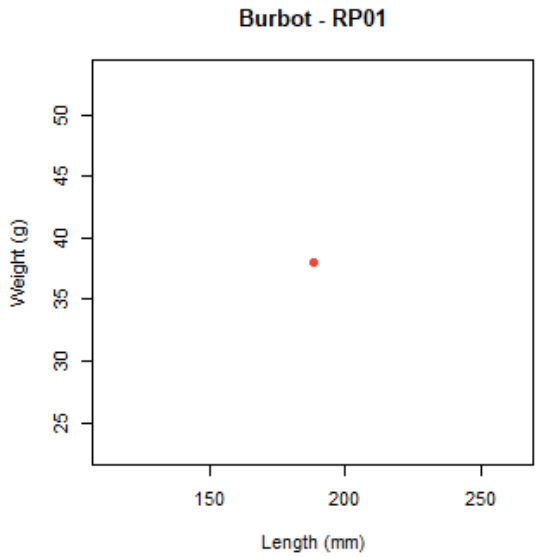


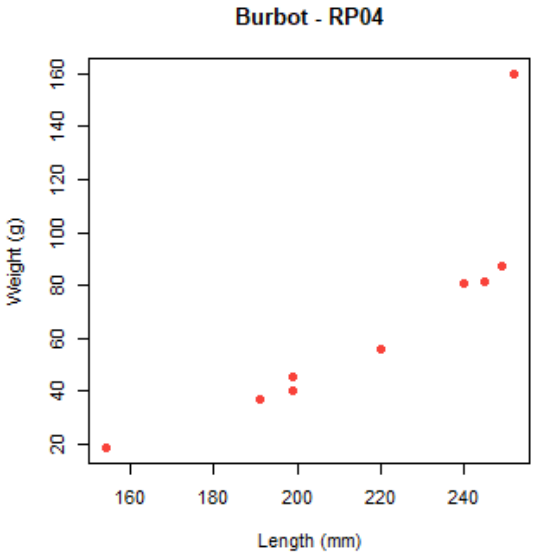


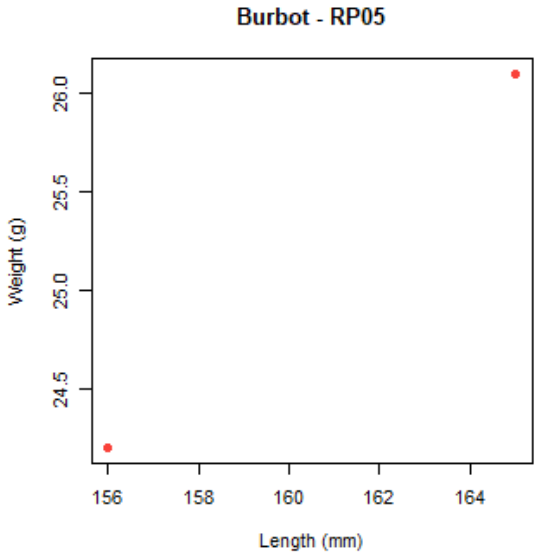
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

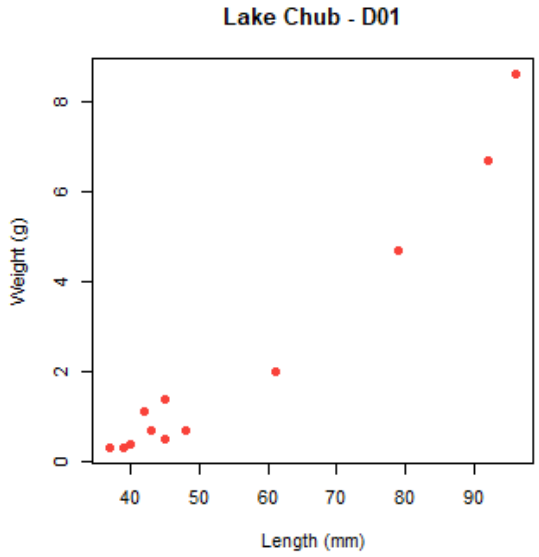












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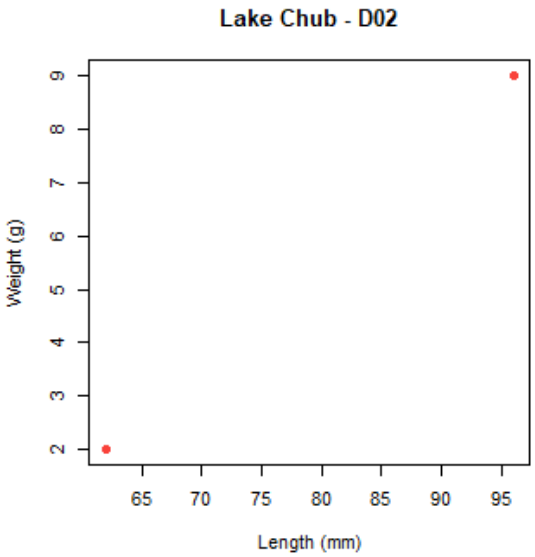
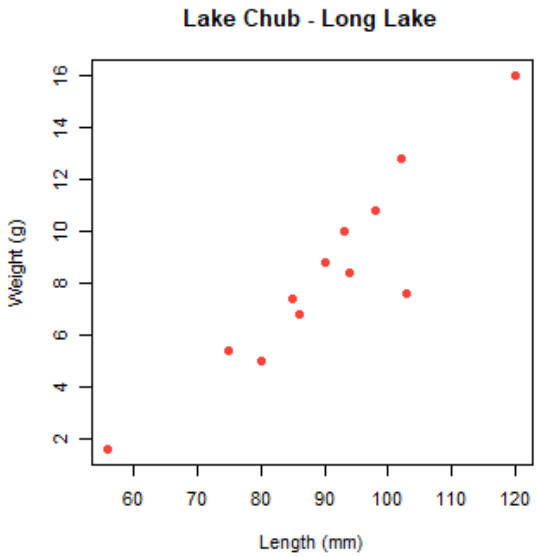
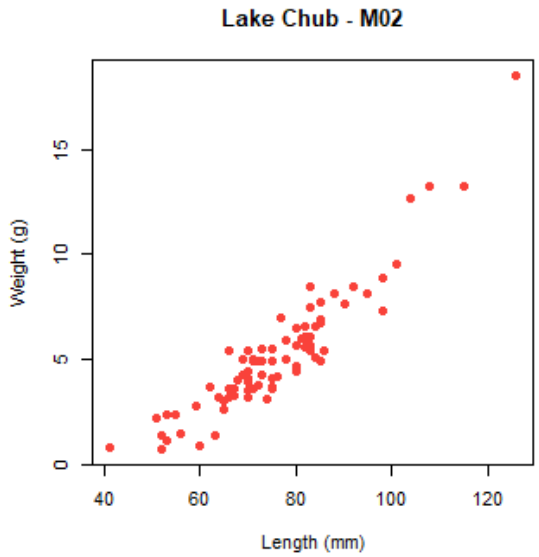
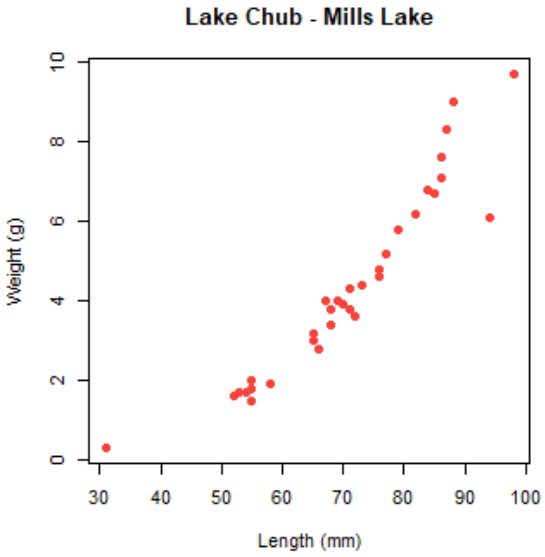
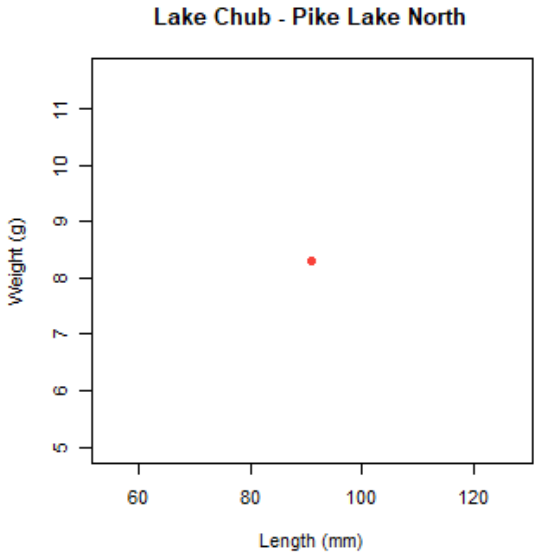
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

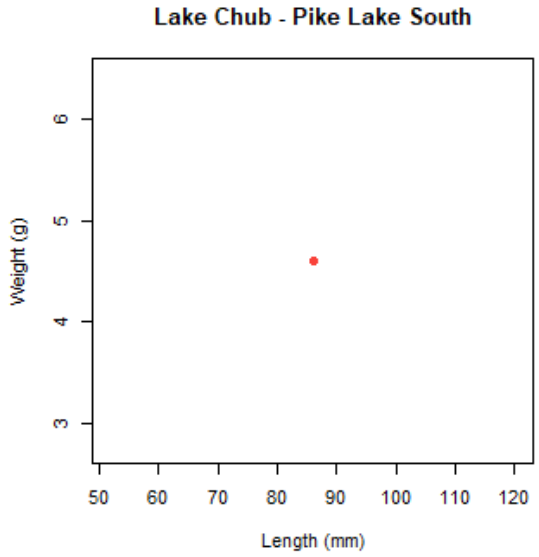




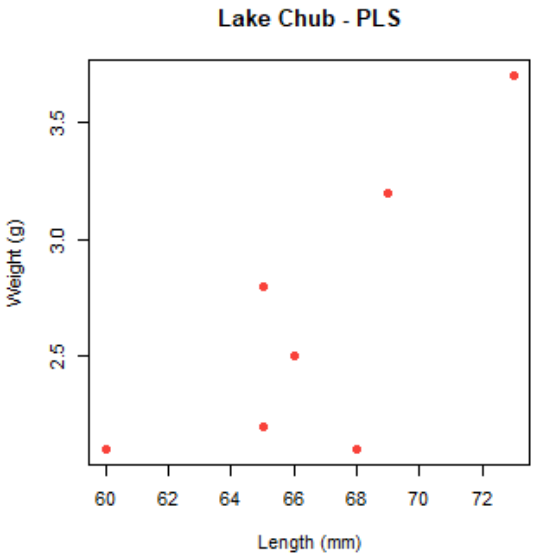


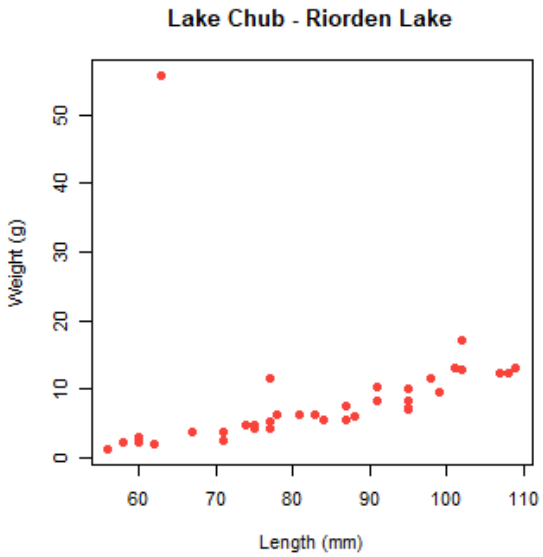


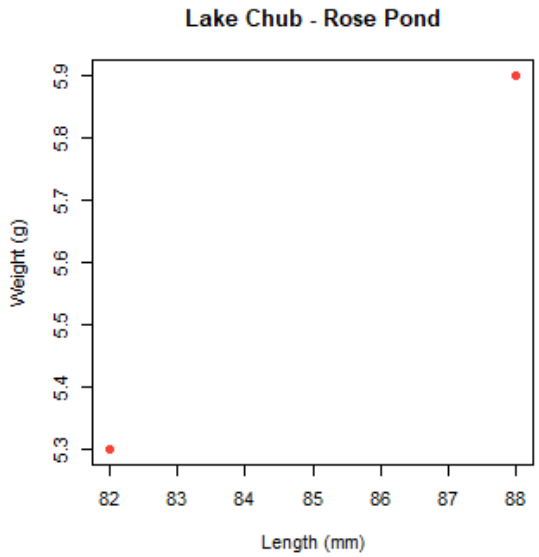


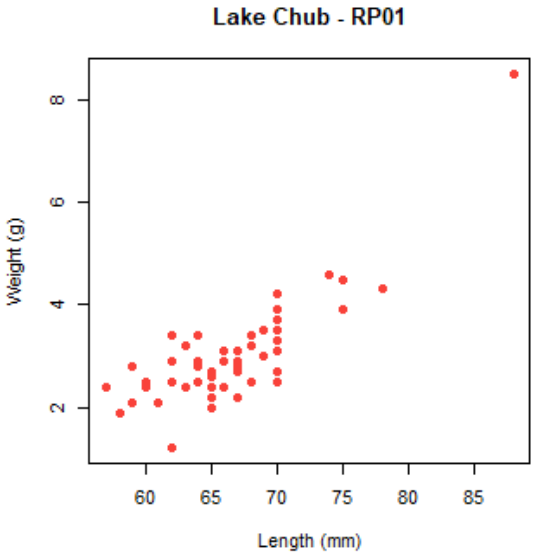


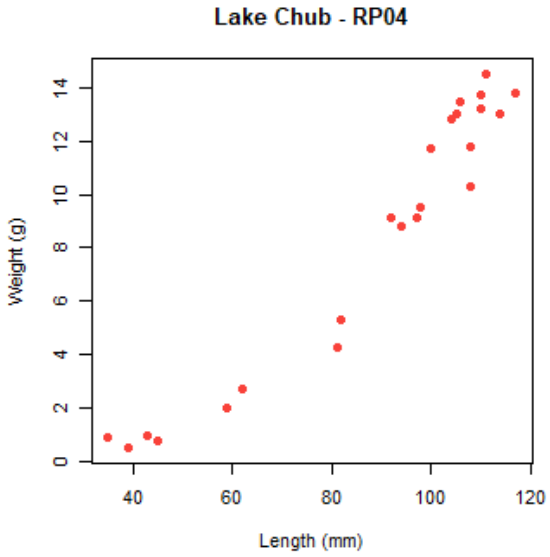
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

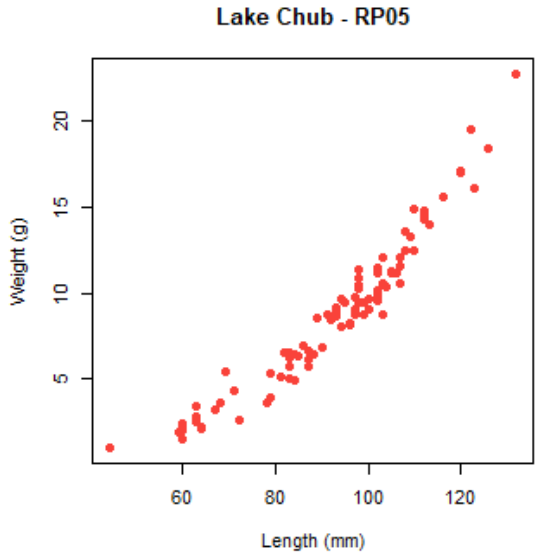




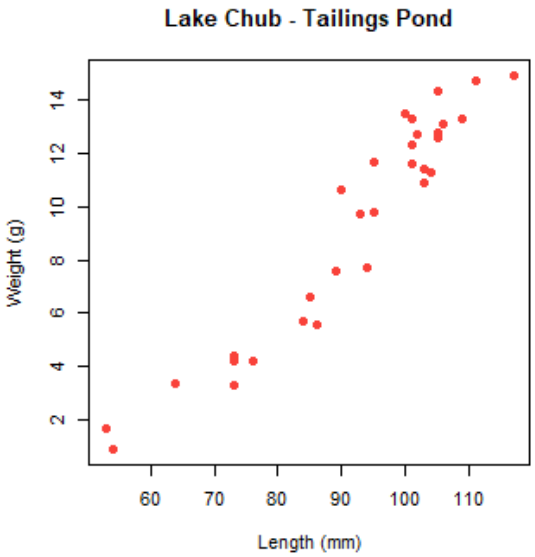


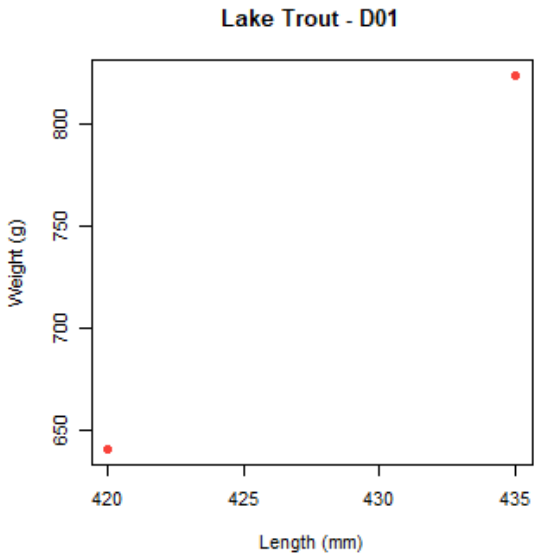


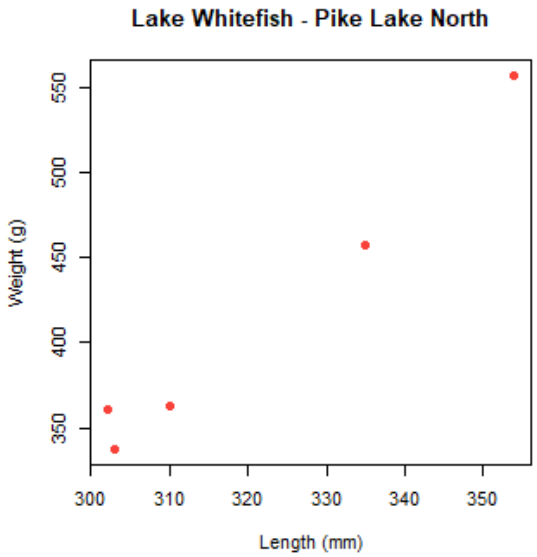


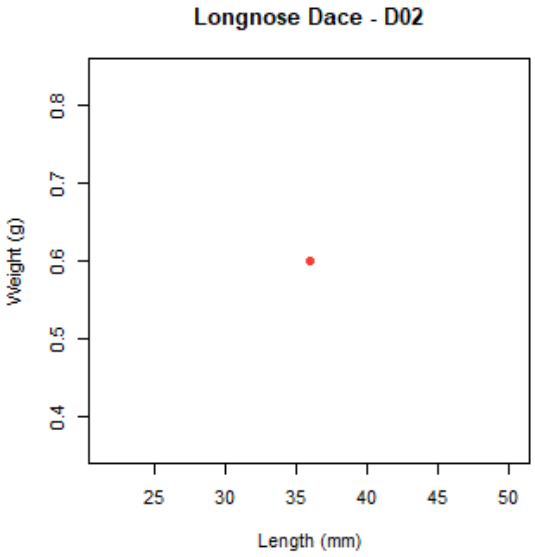


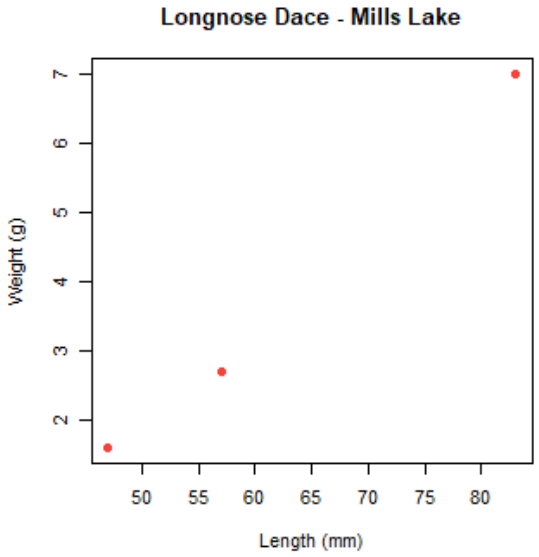
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

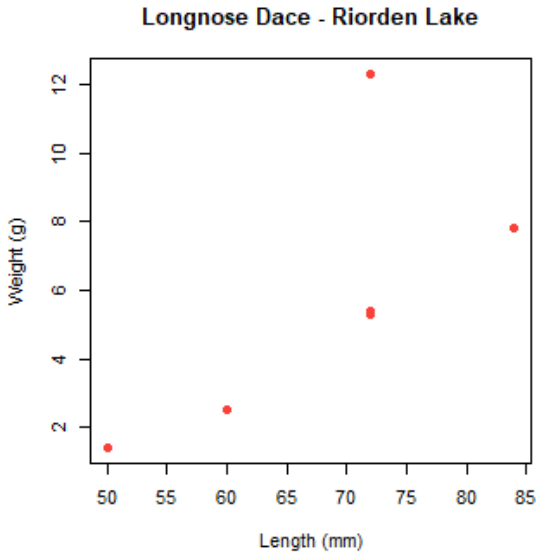




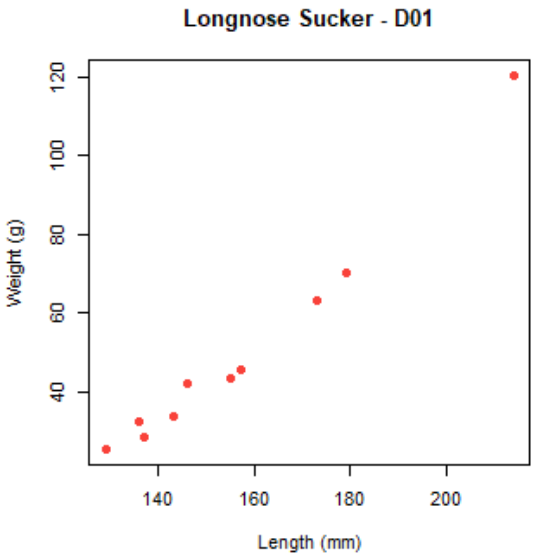


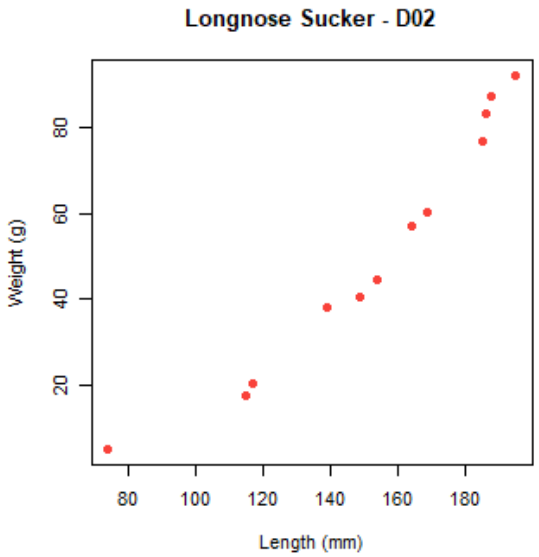


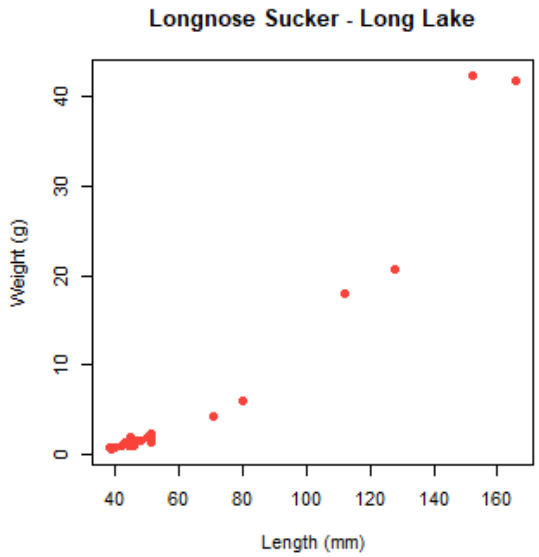


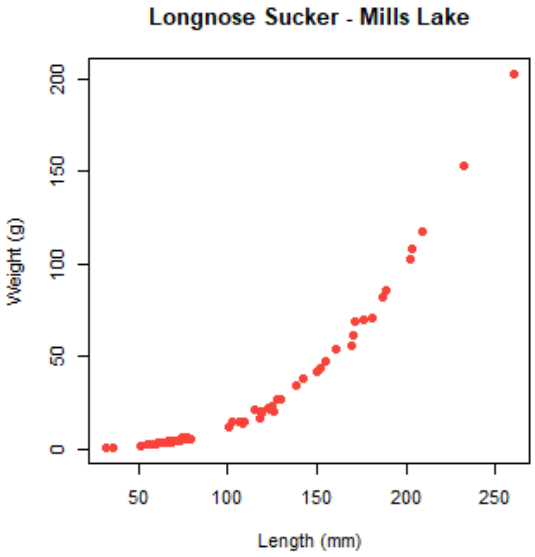


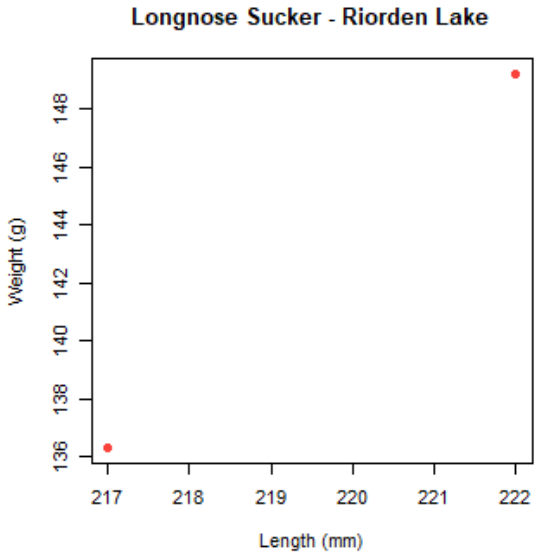
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

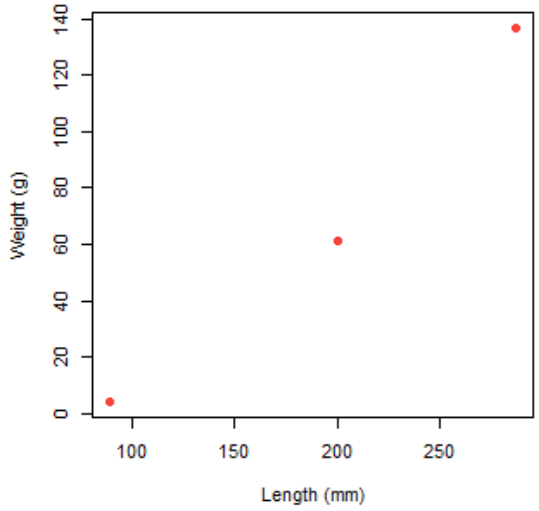




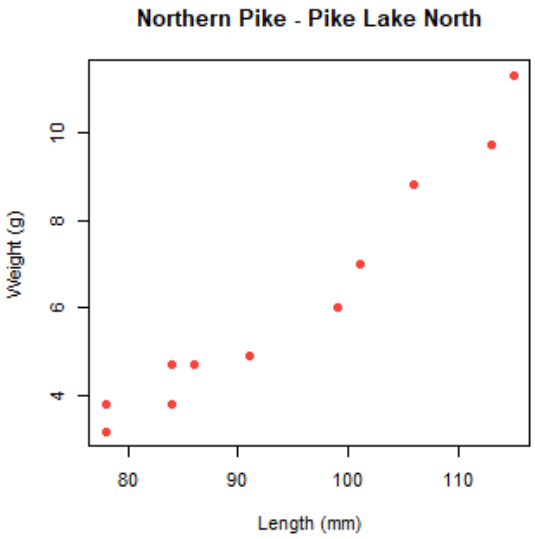


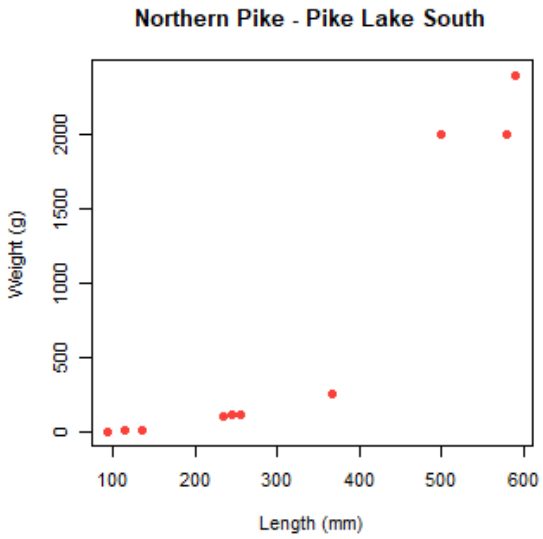


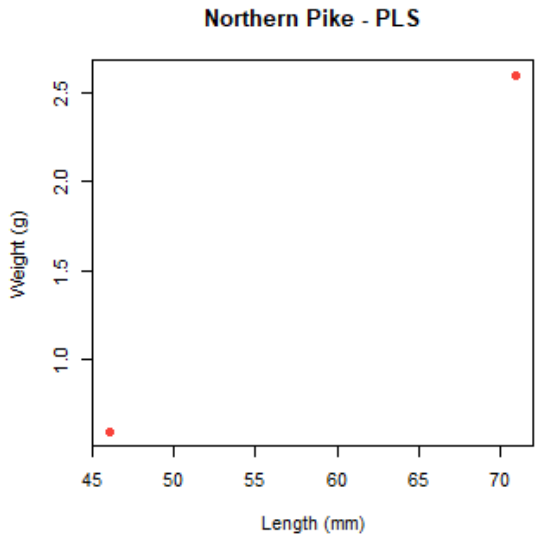


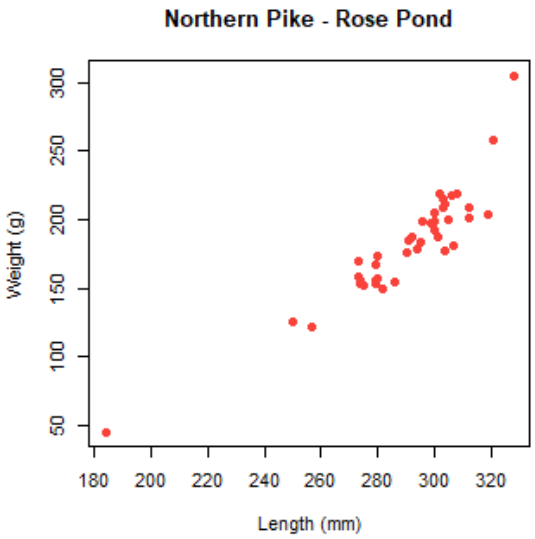


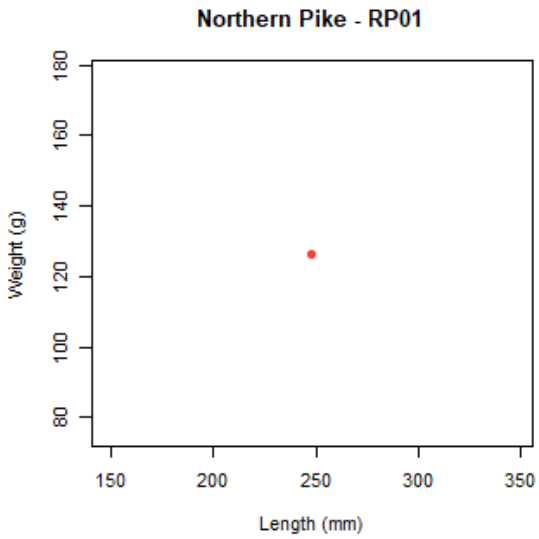
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

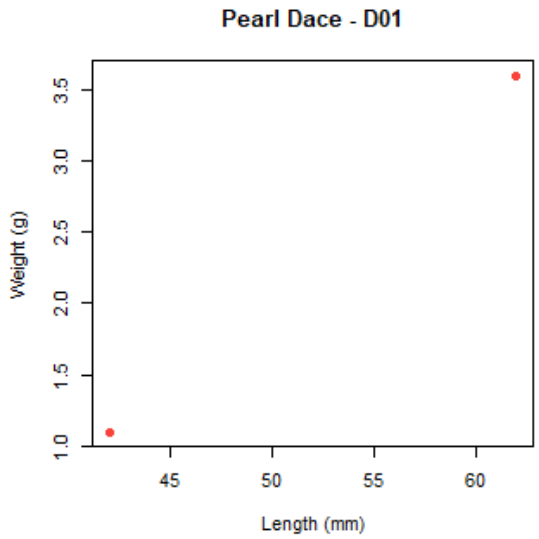




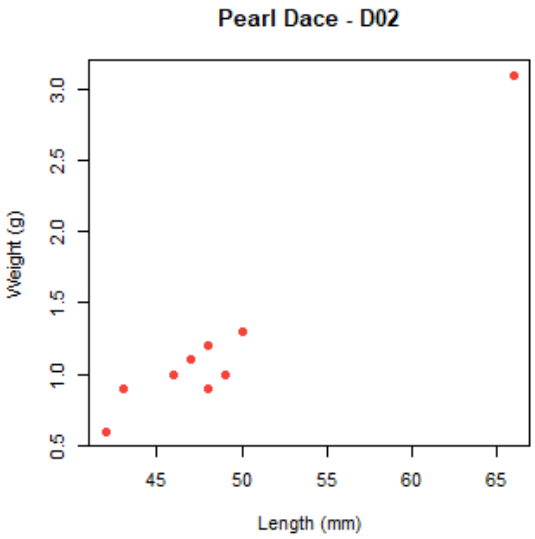


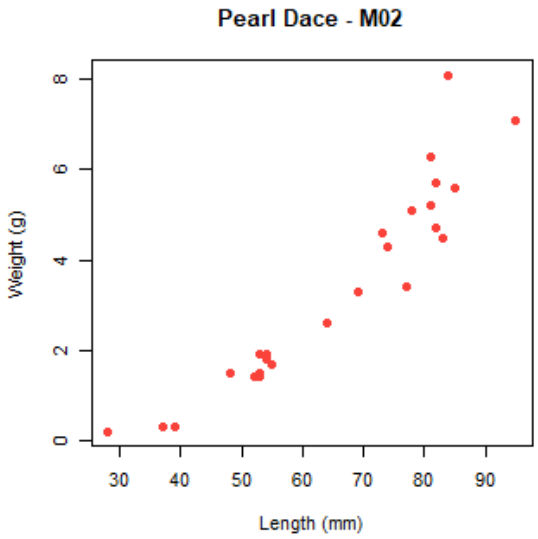


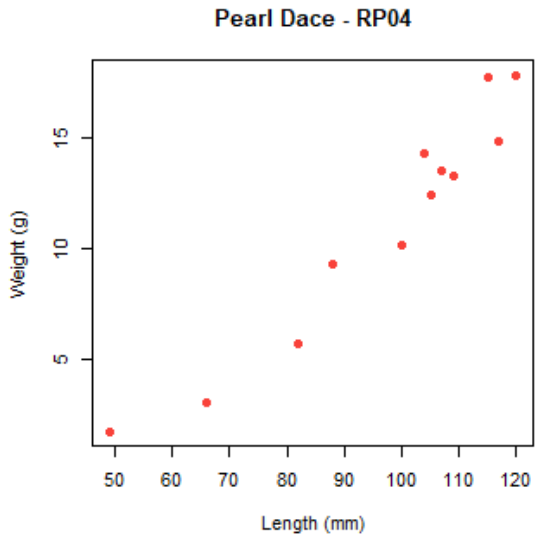


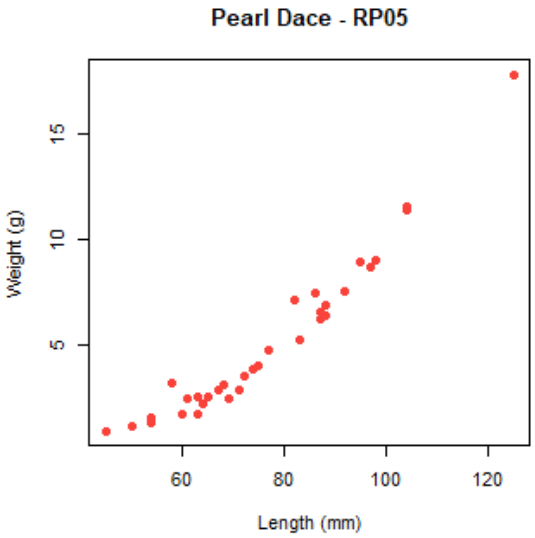


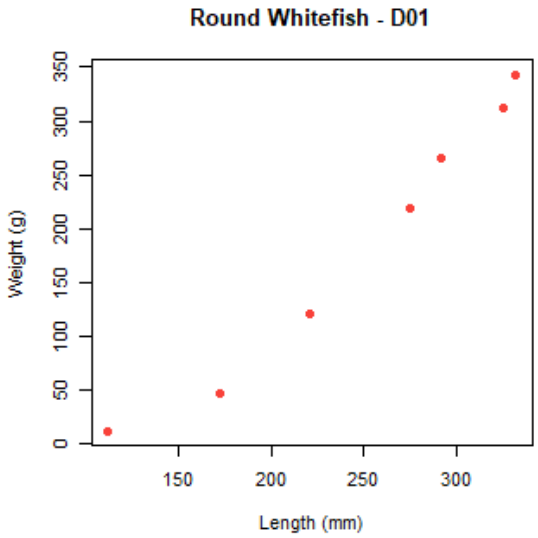
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

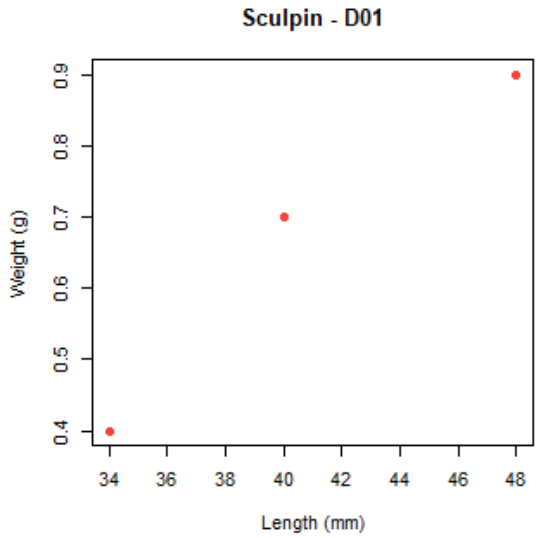




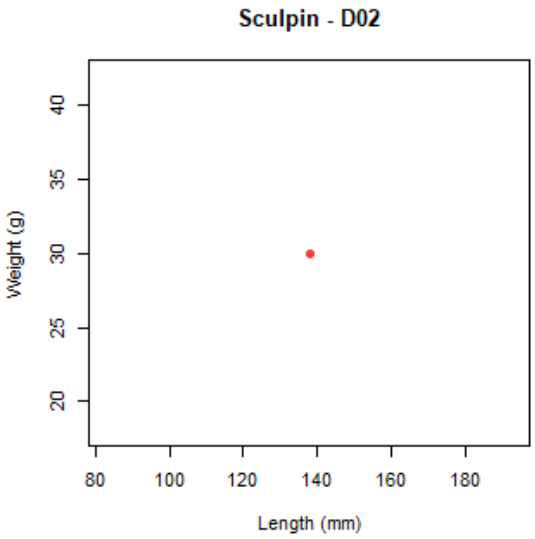


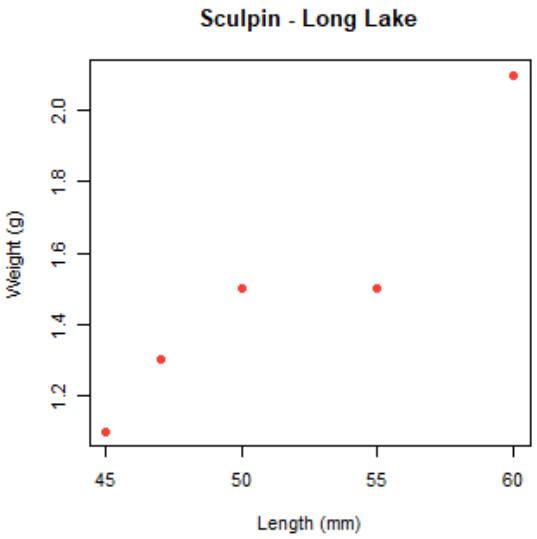


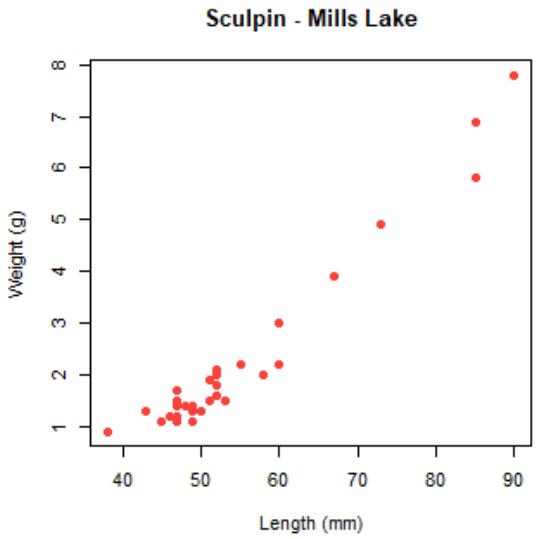


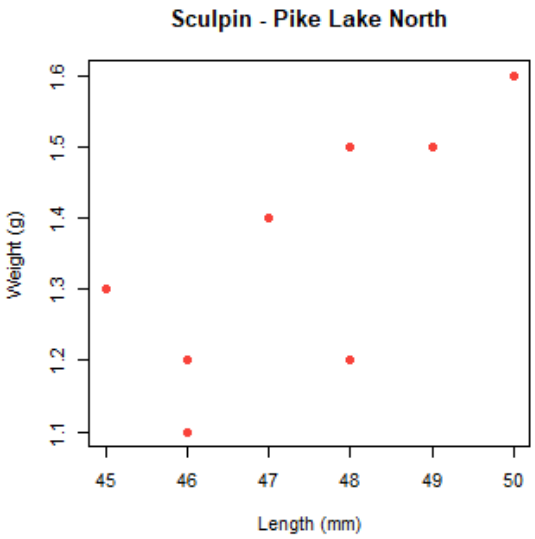


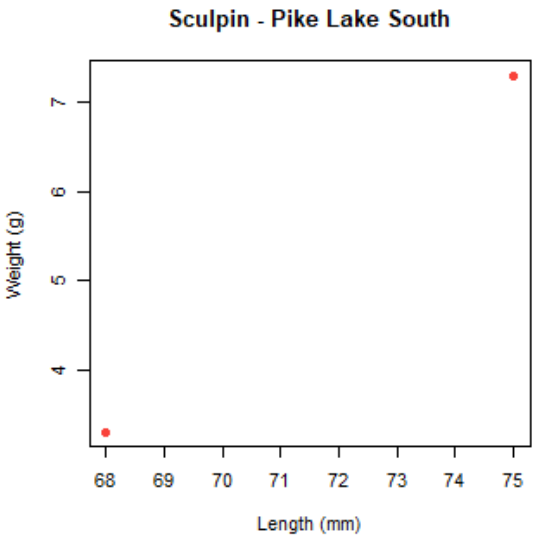
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

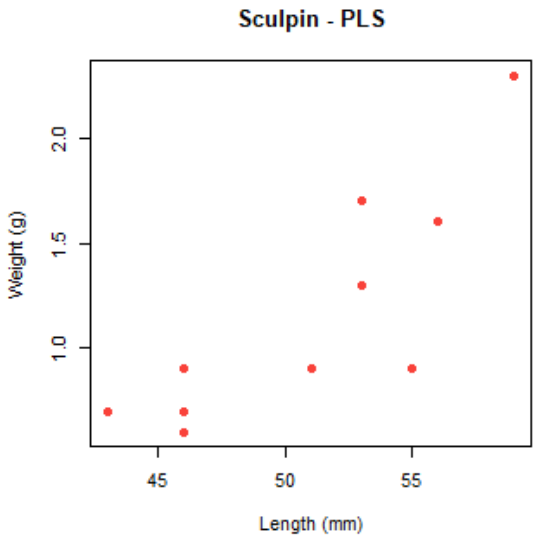




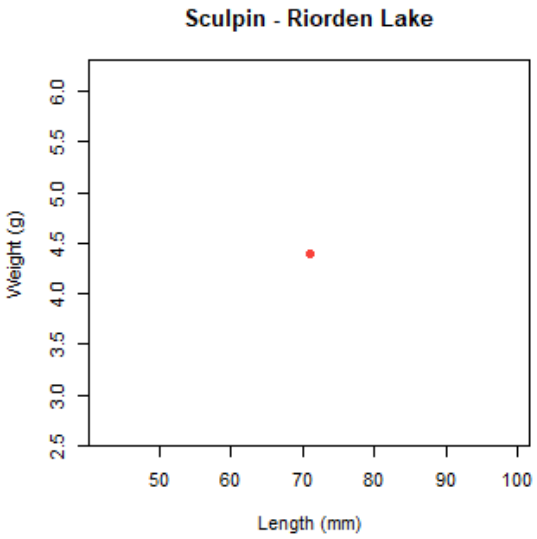


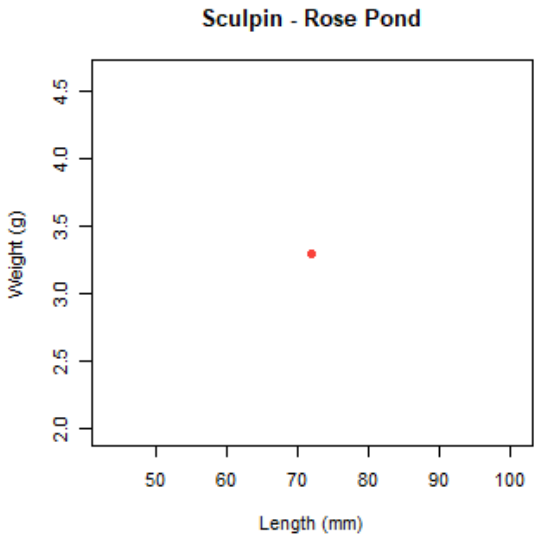


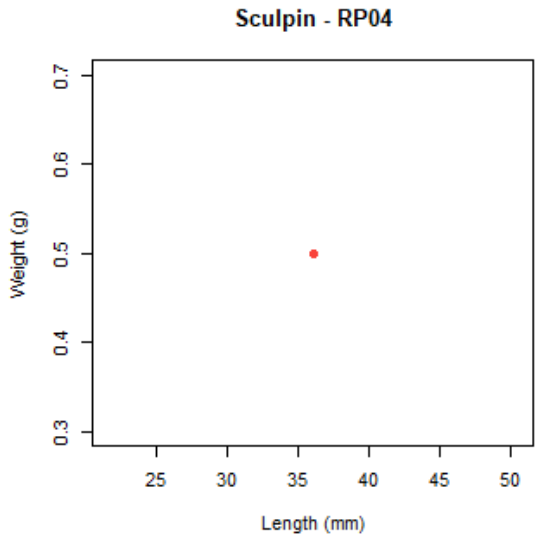


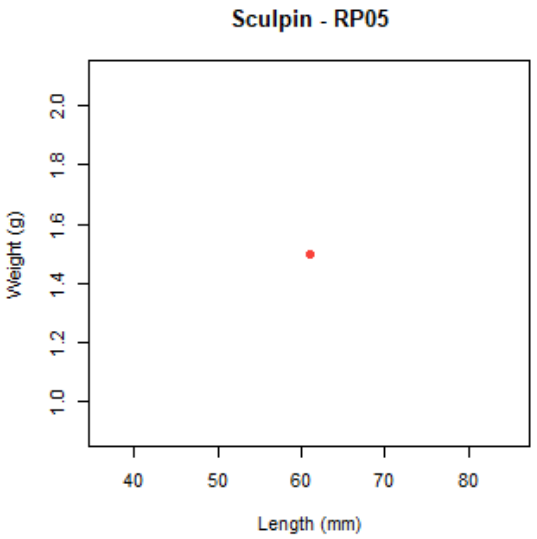


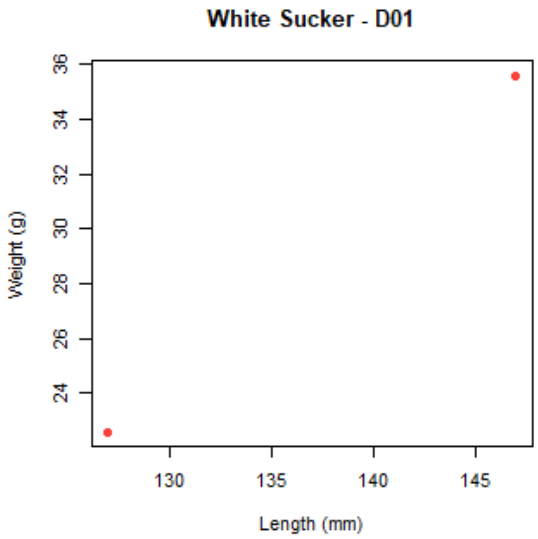
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

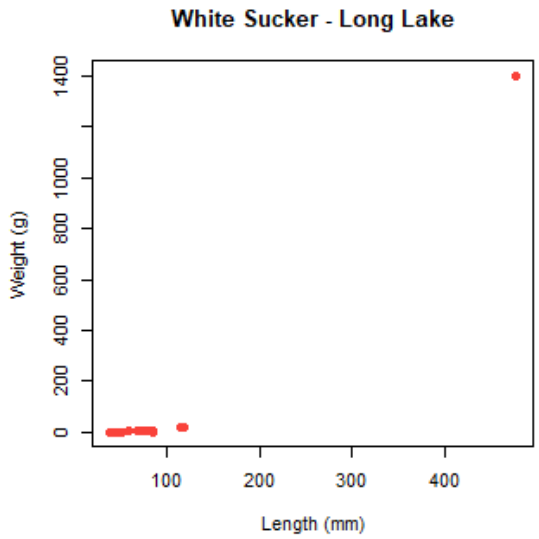




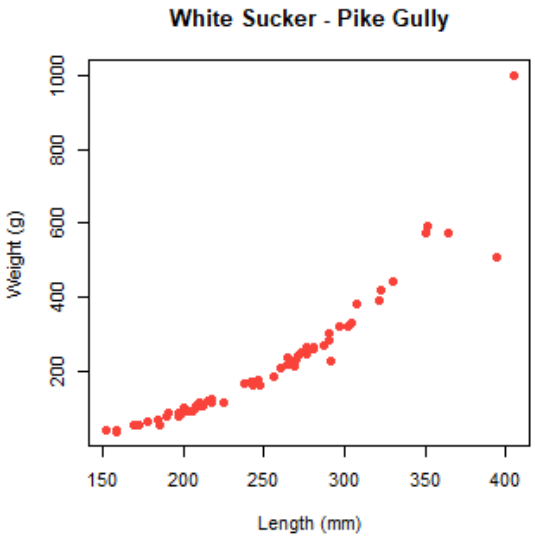


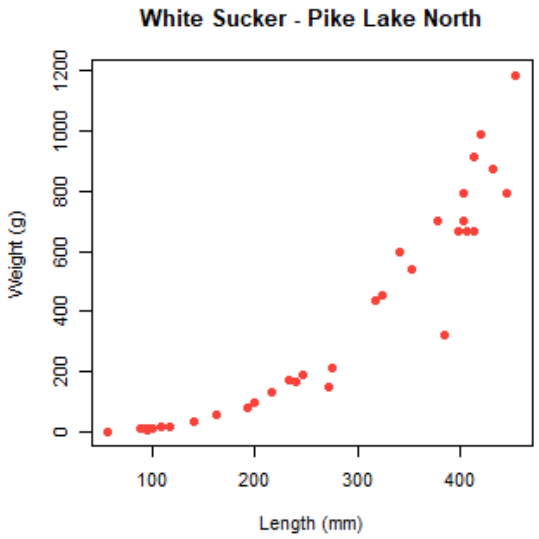


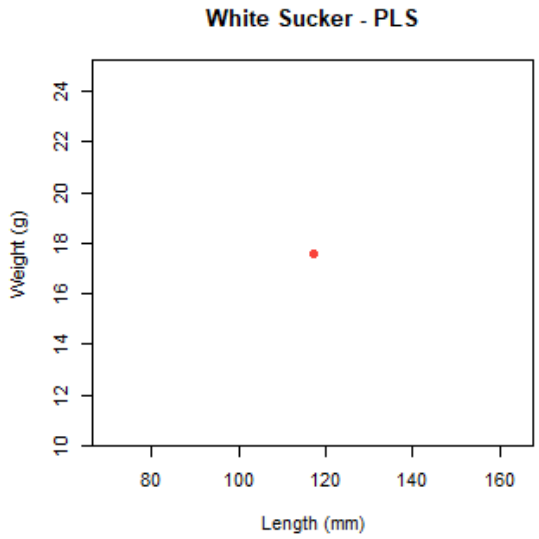


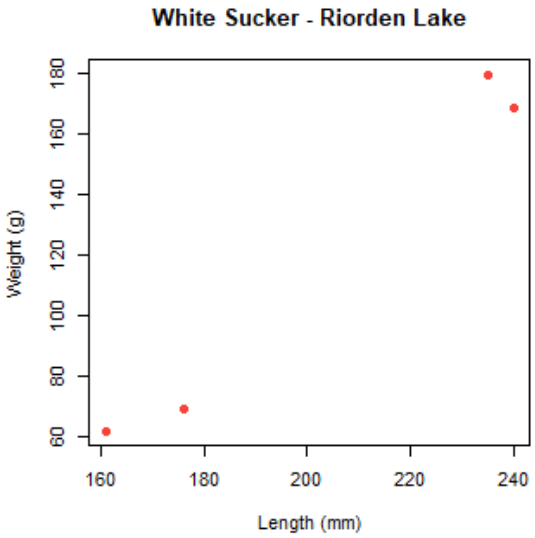


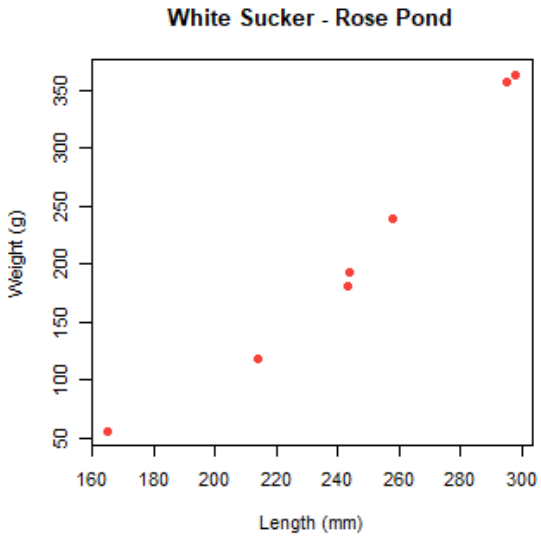
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

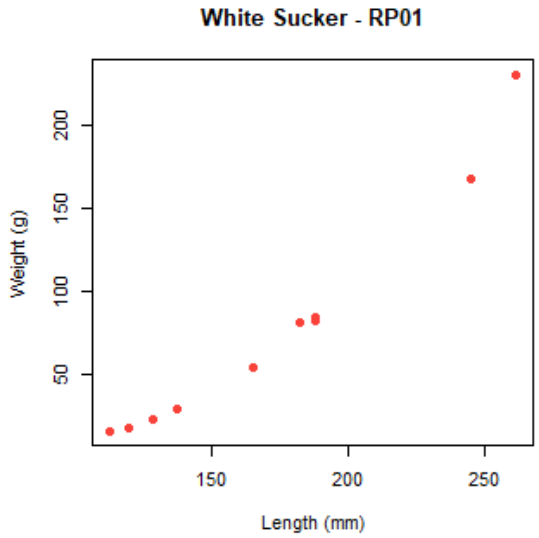




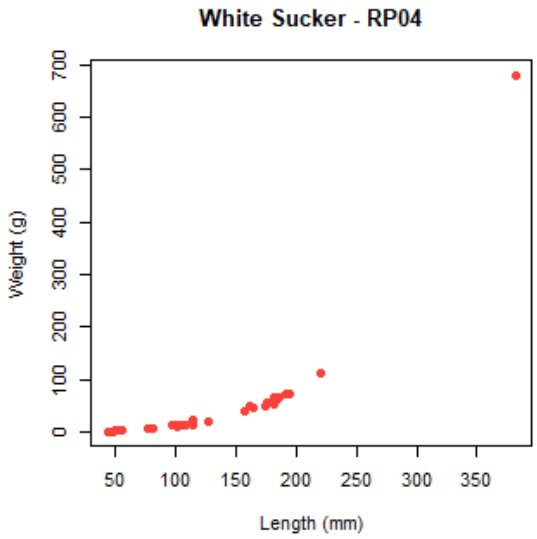


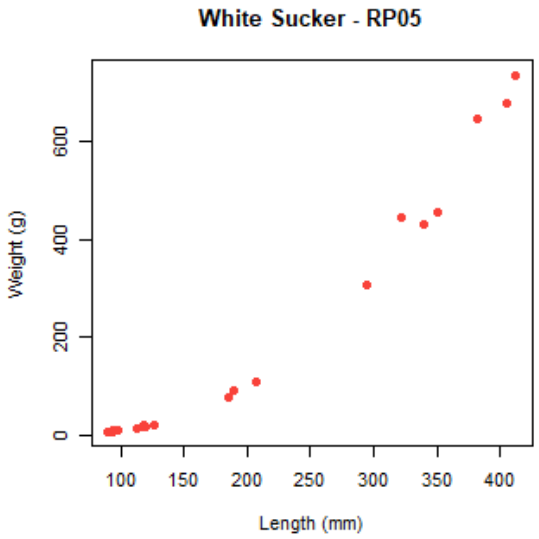




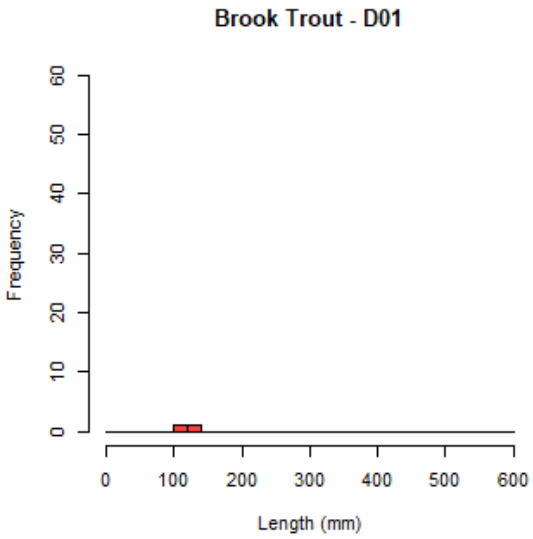


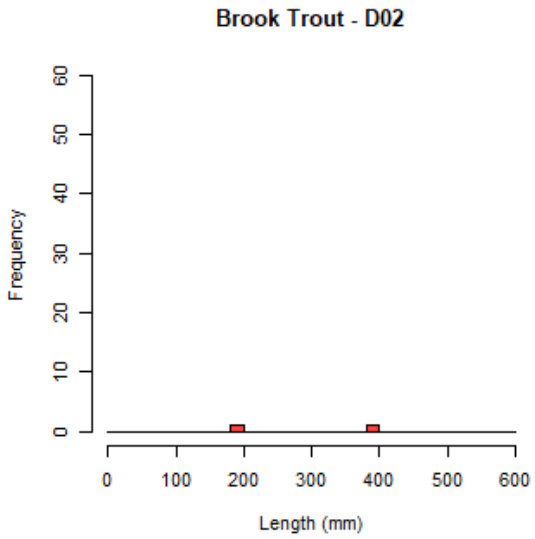
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length -Weight Relationships

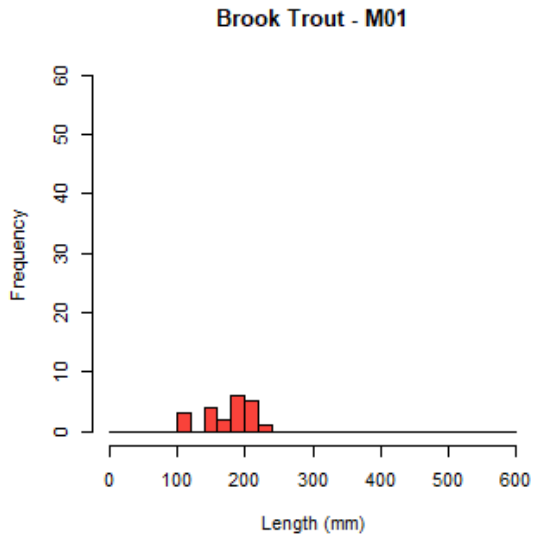


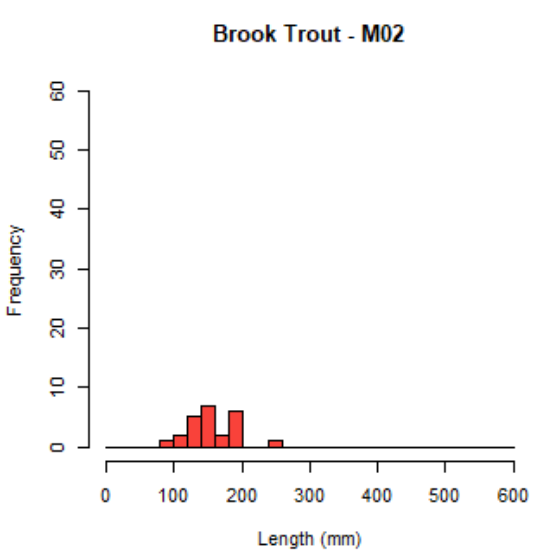


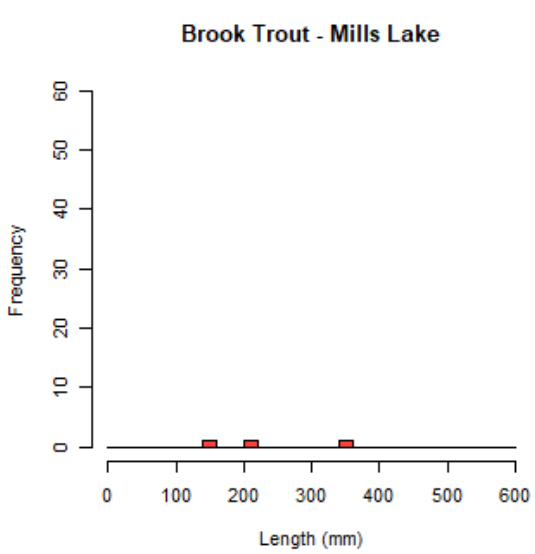
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length Distributions

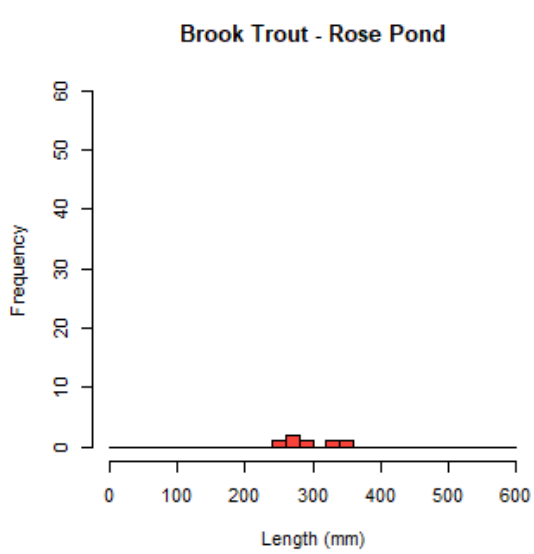




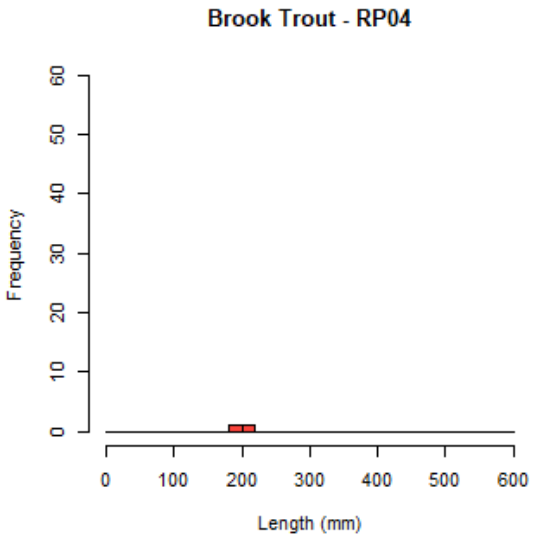


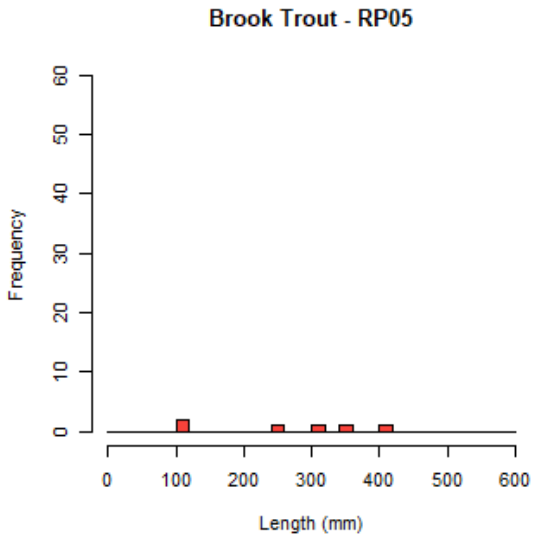


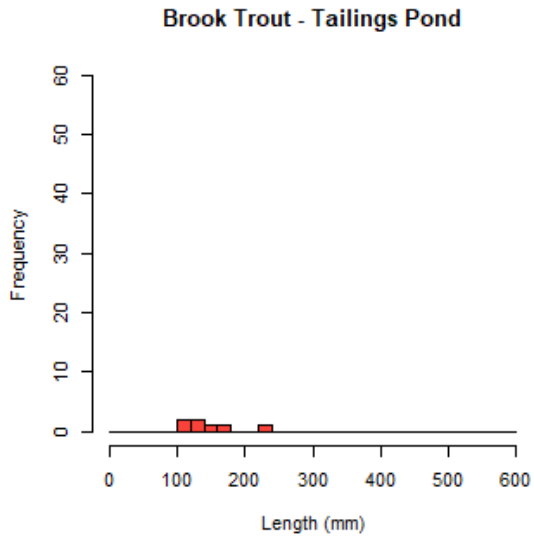


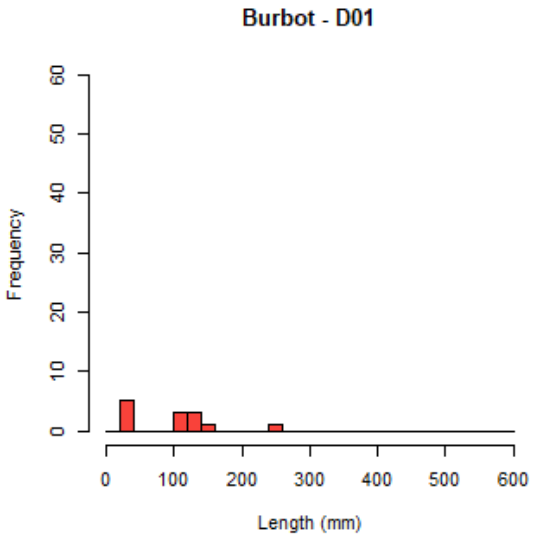


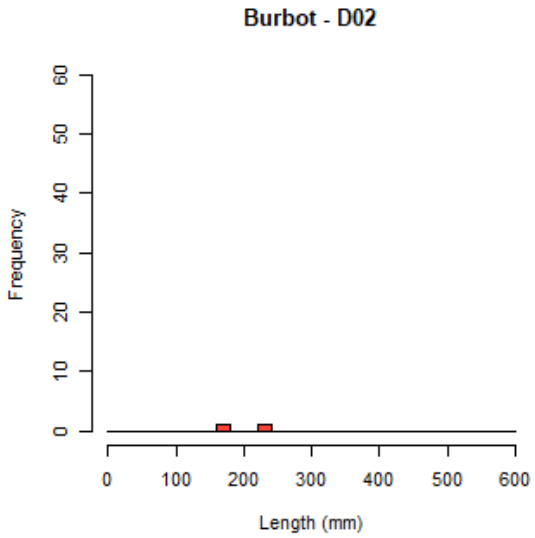
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length Distributions

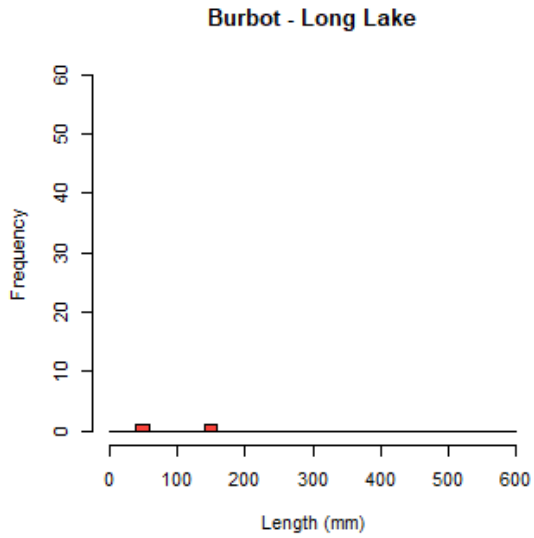




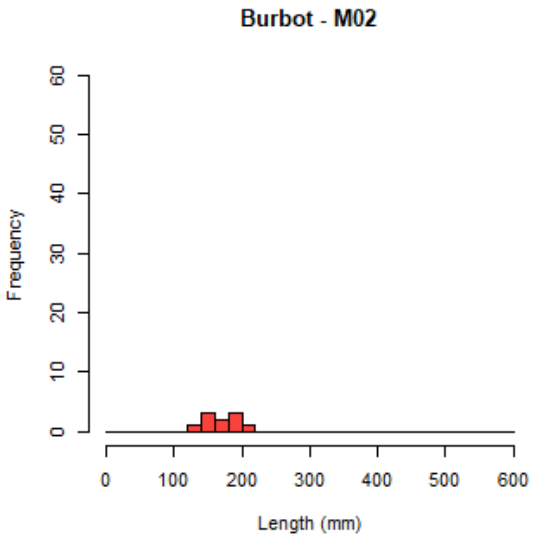


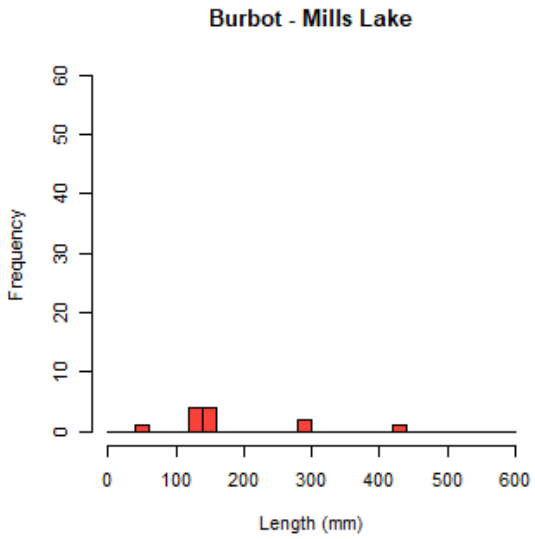


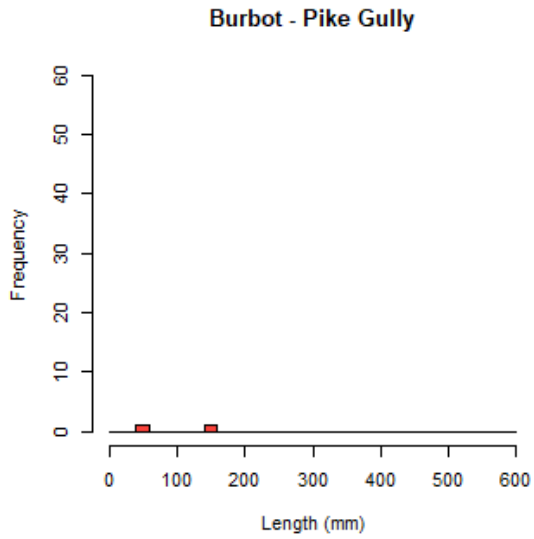


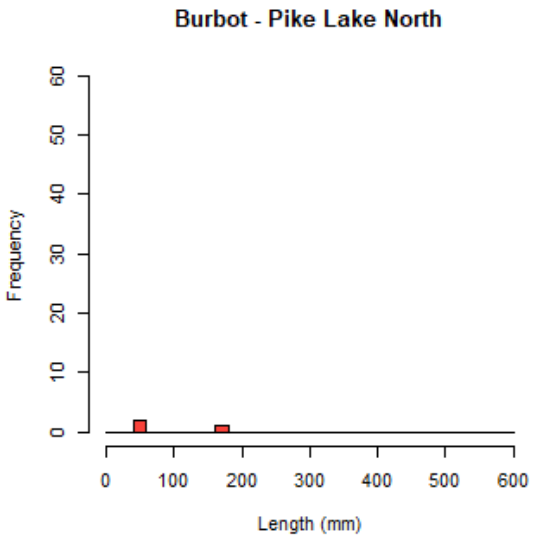


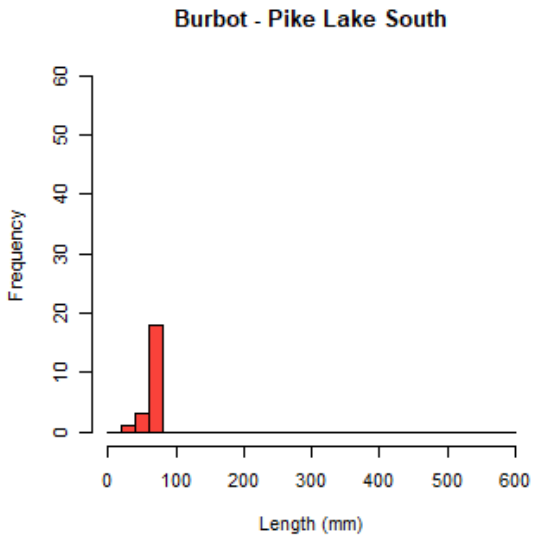
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length Distributions

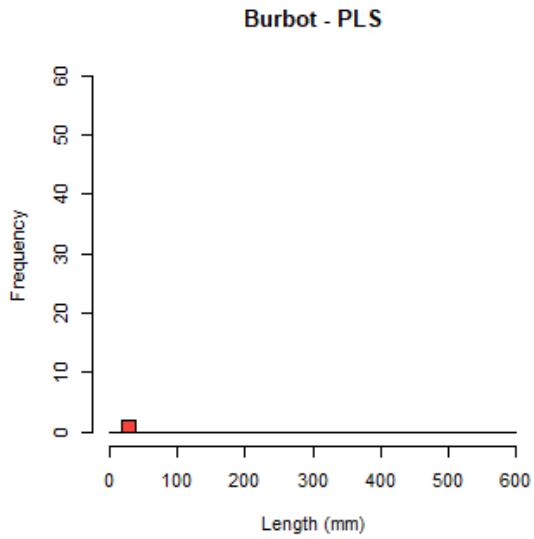




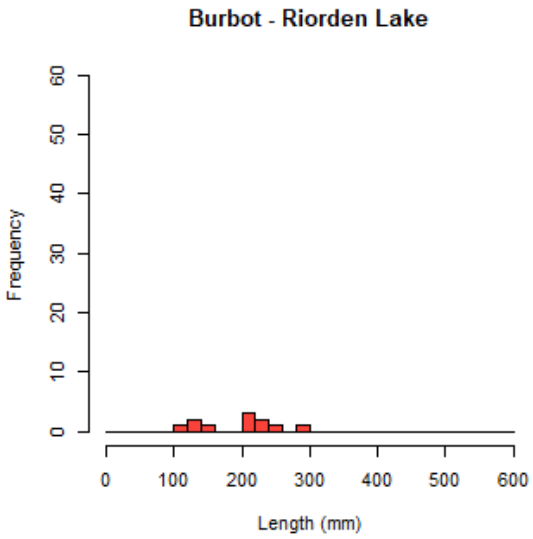


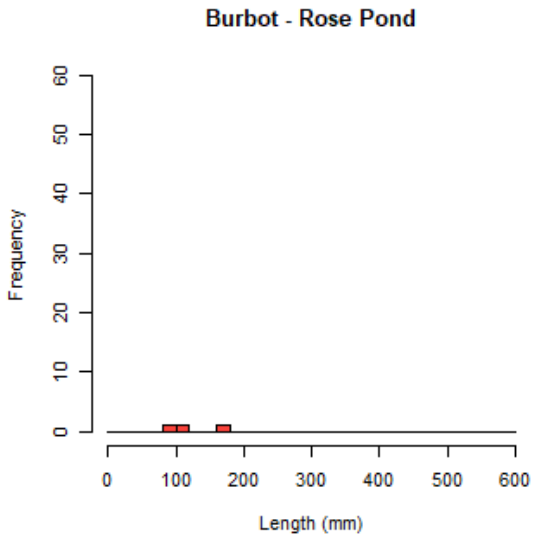


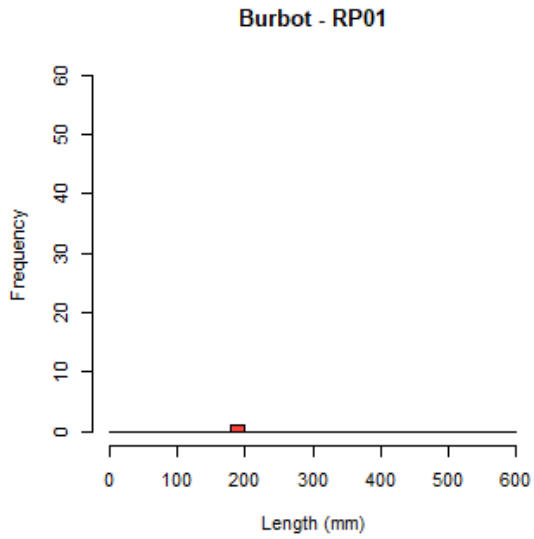


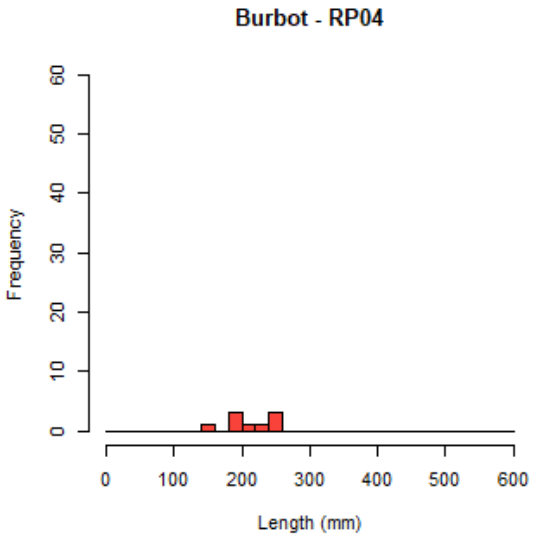


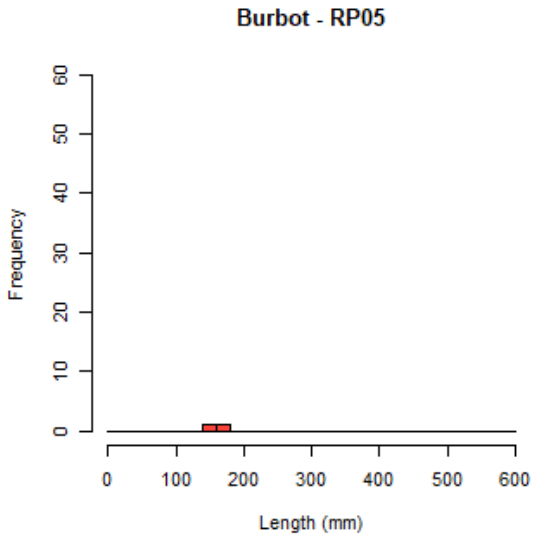
Appendix D
Fish Biometric Summaries – Lacustrine Fish Length Distributions

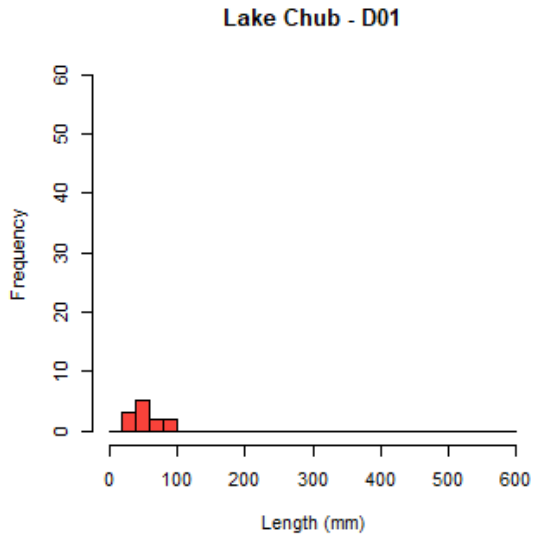












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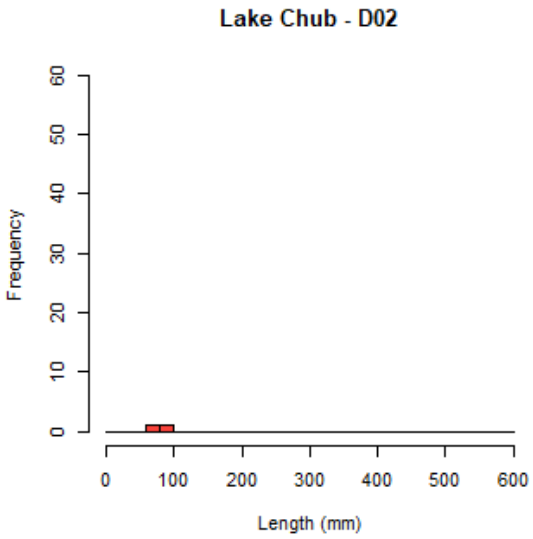

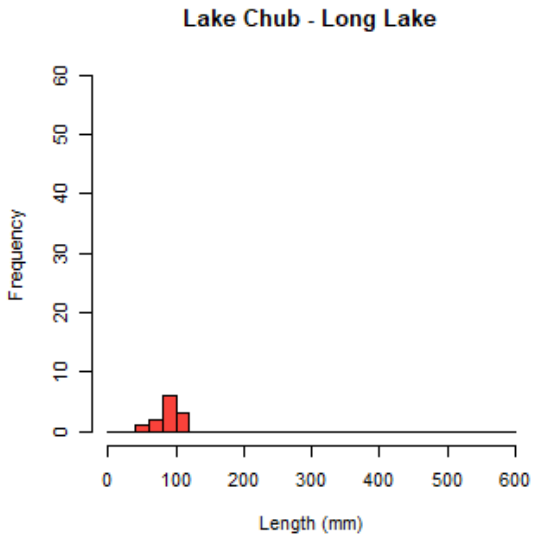

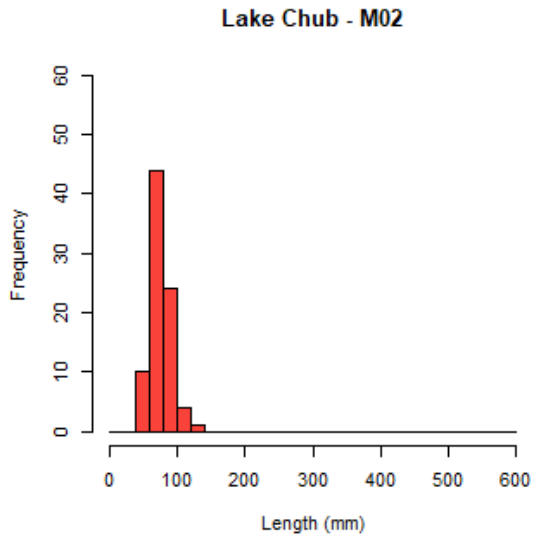

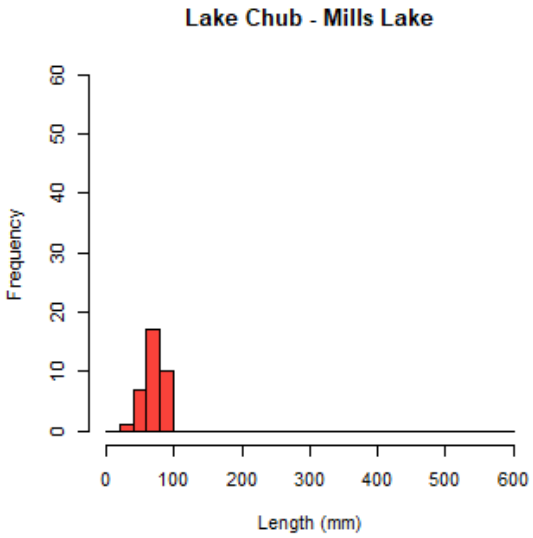

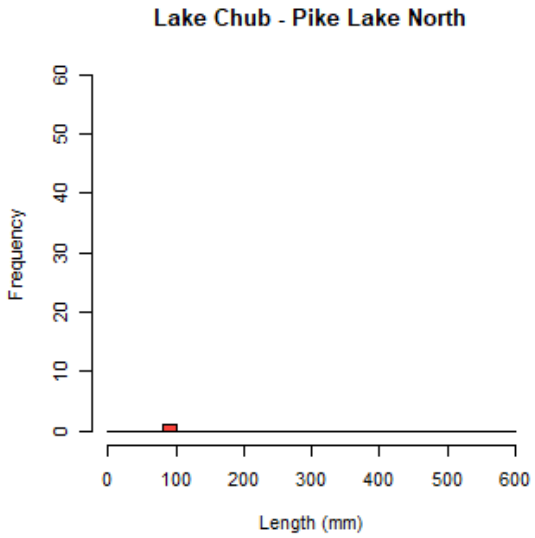

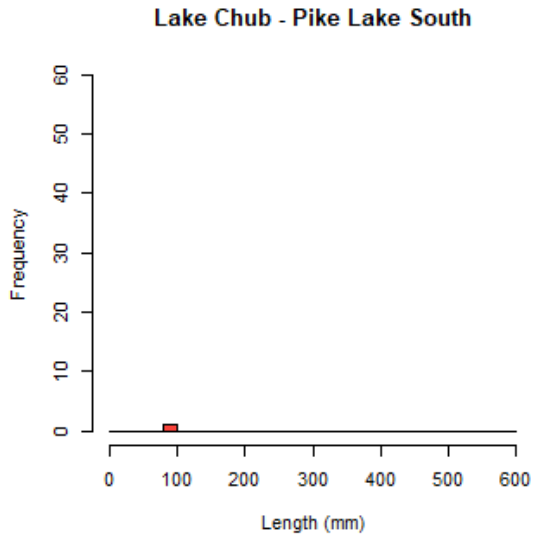

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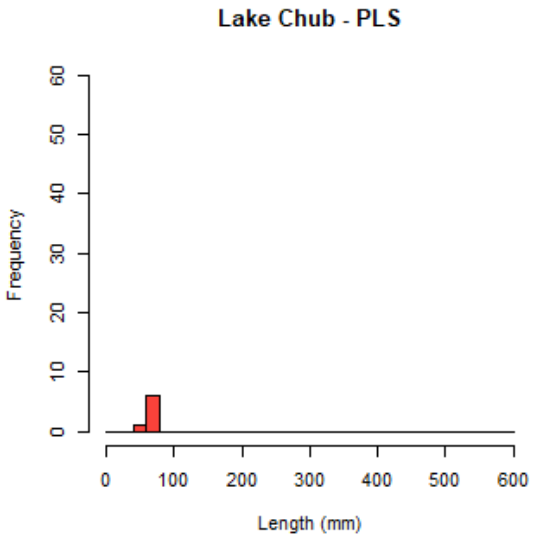

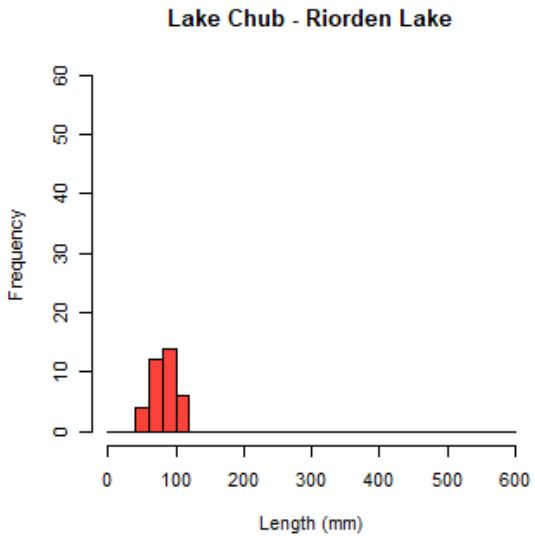

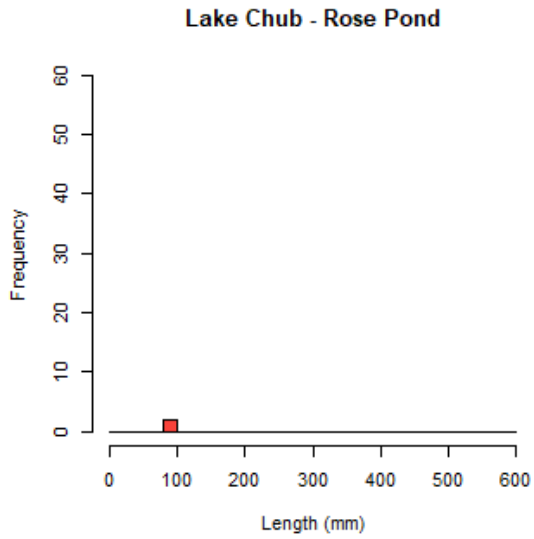

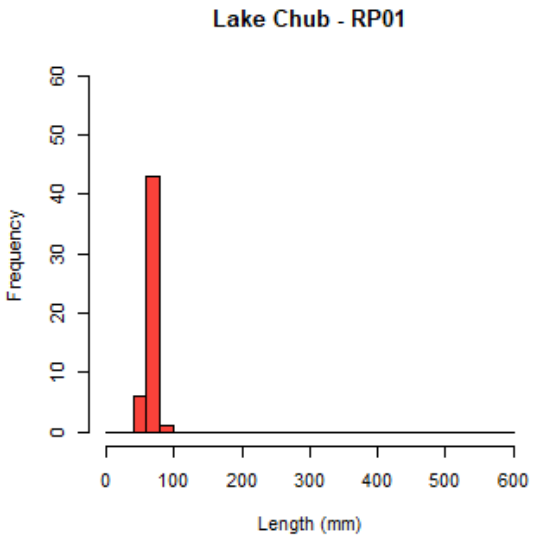

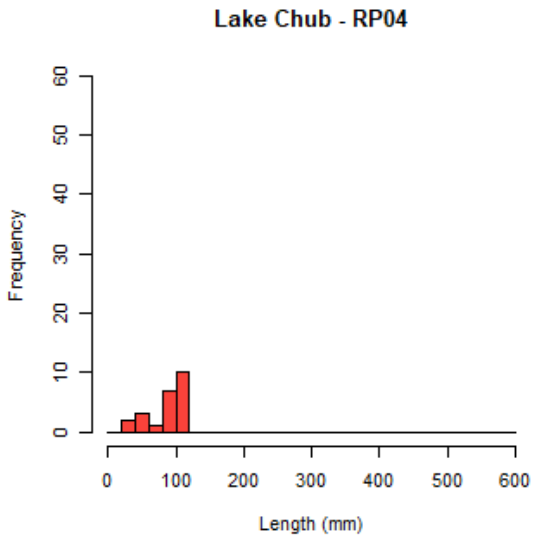

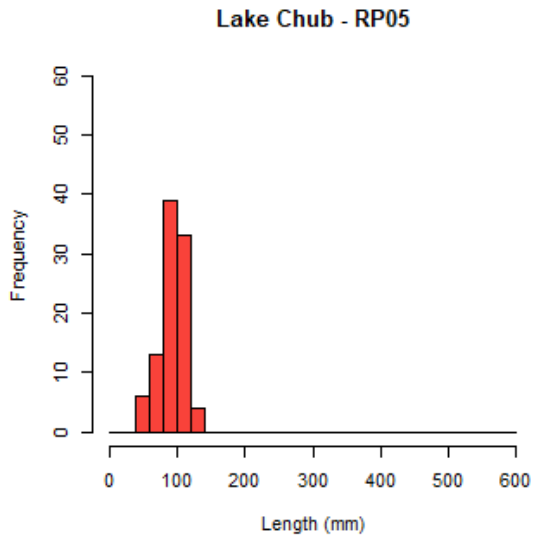

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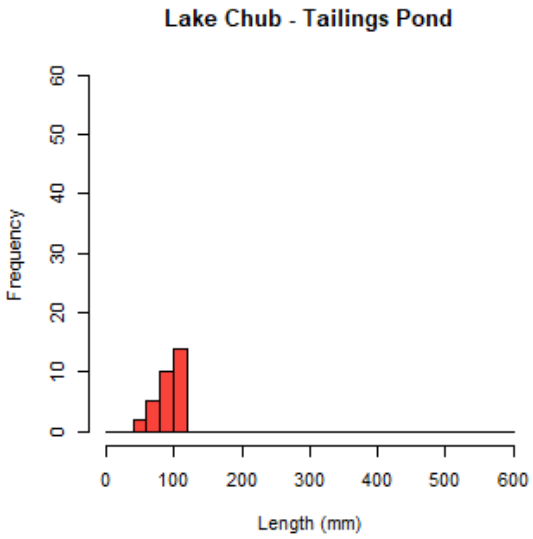

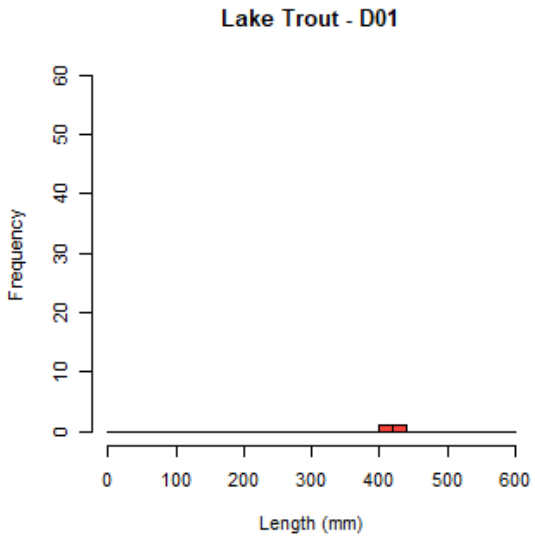

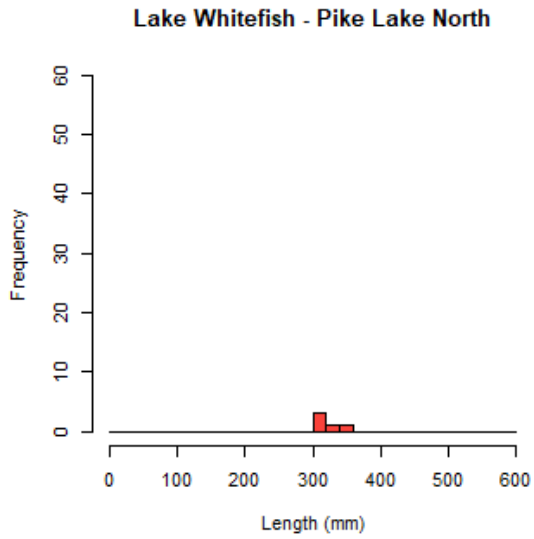

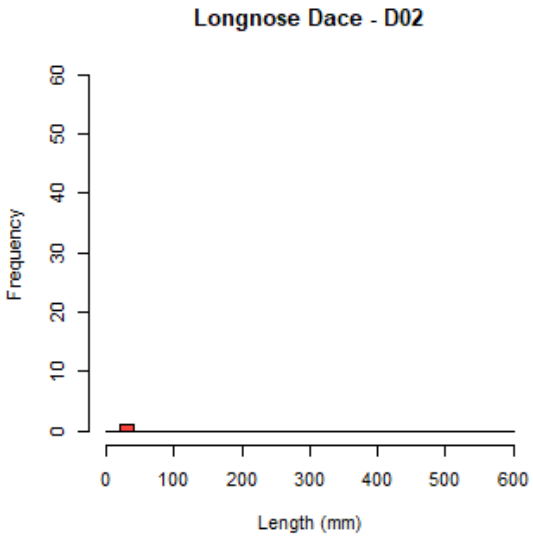

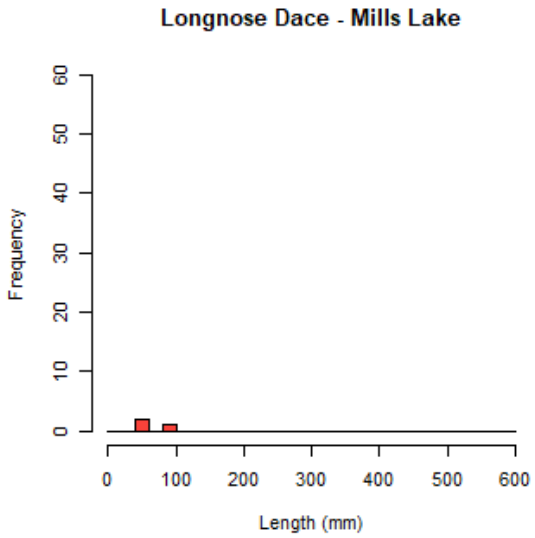

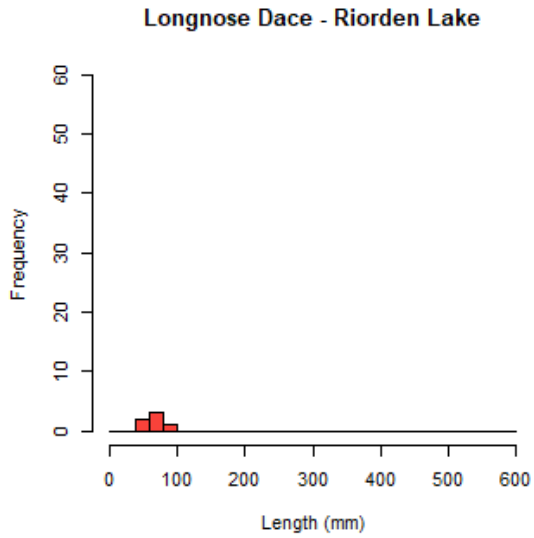

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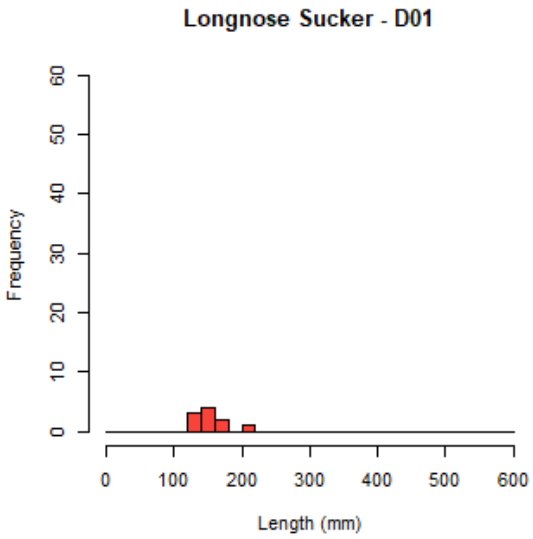

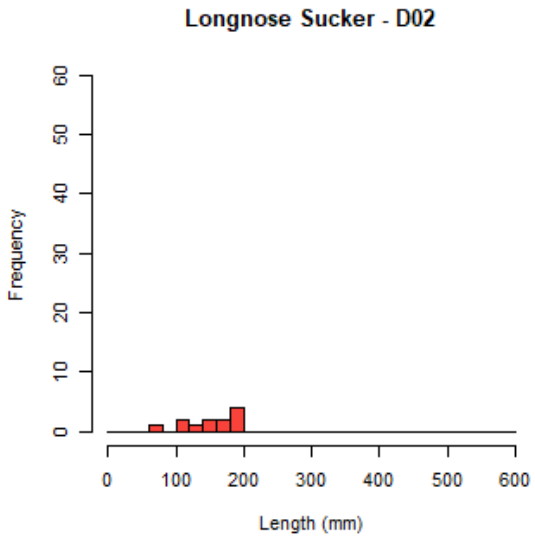

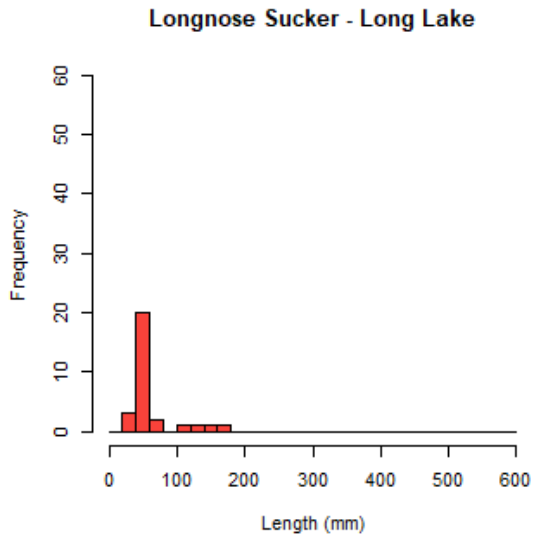

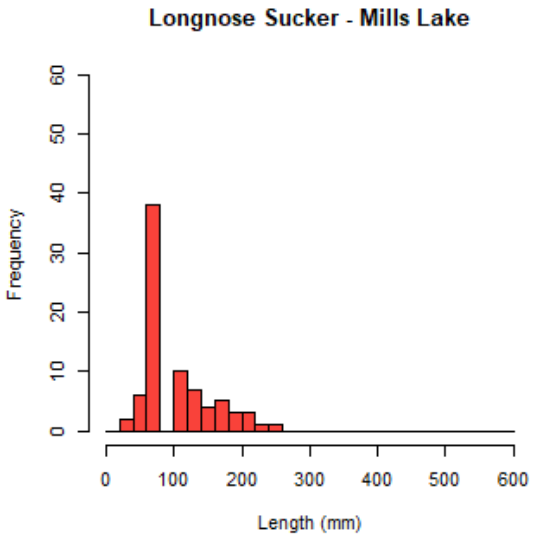

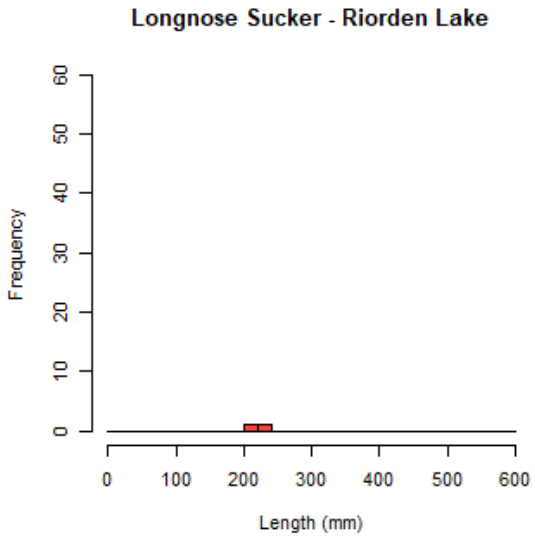

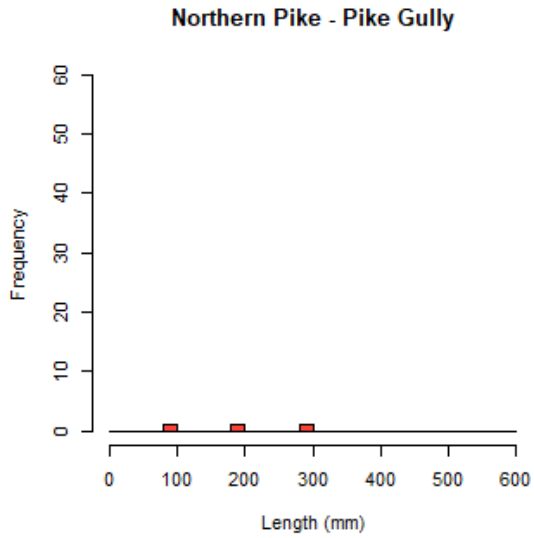

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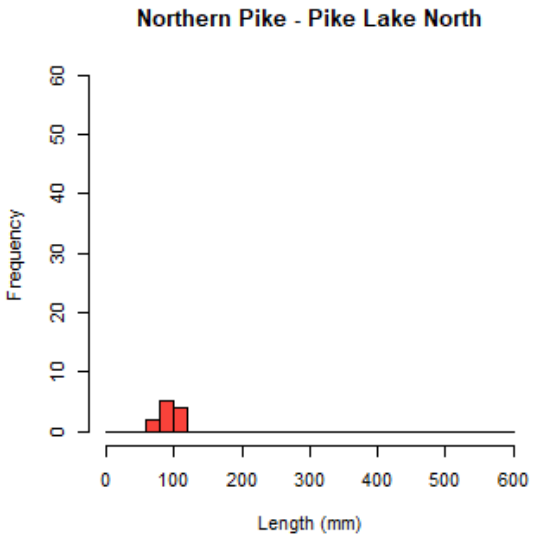

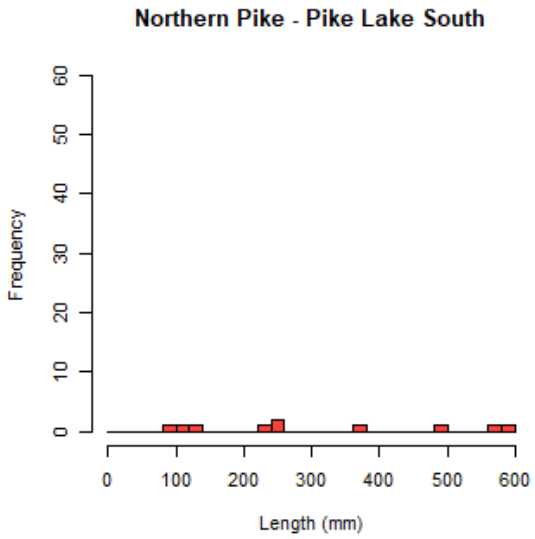

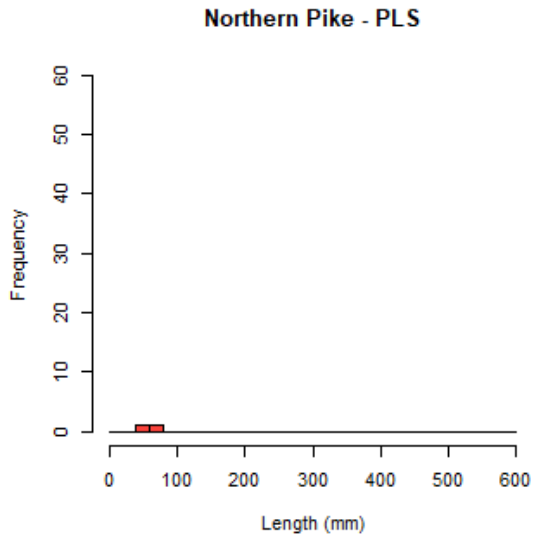

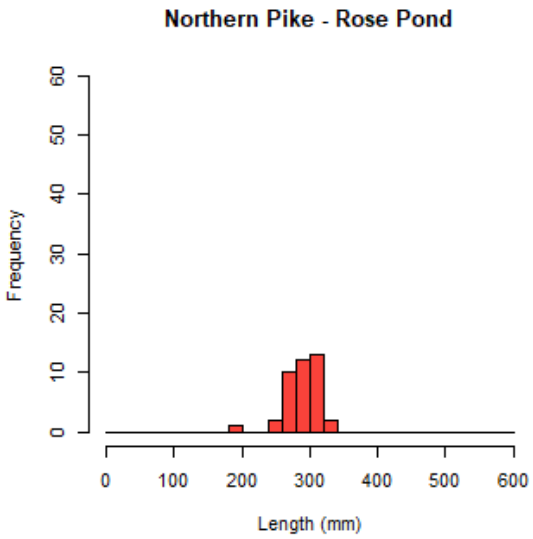

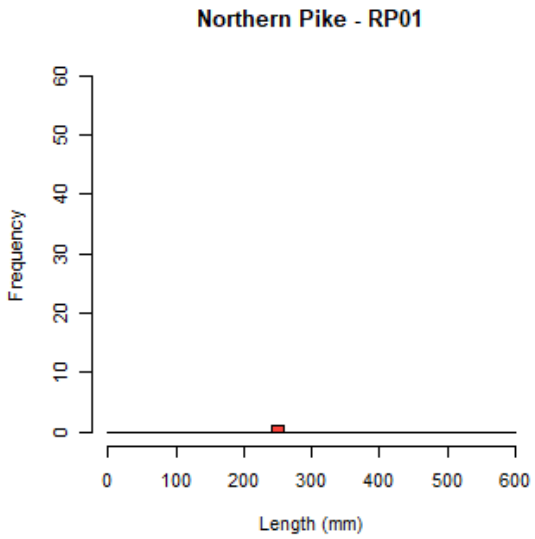

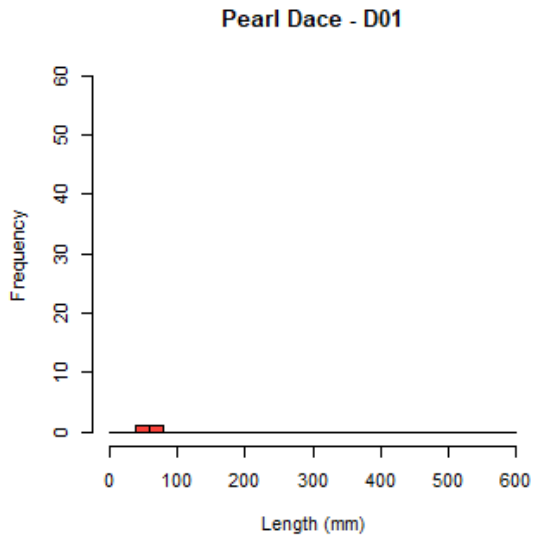

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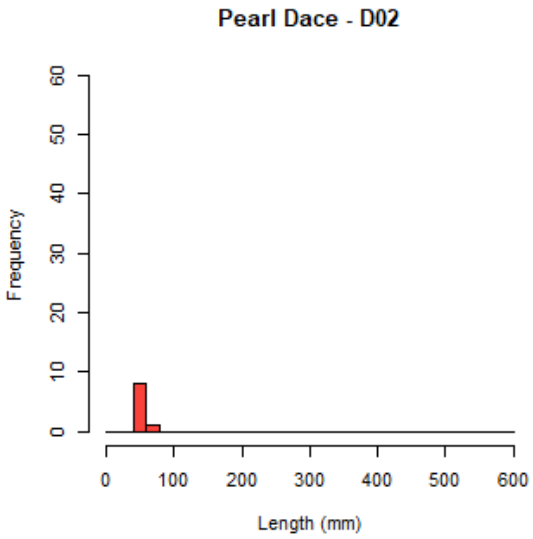

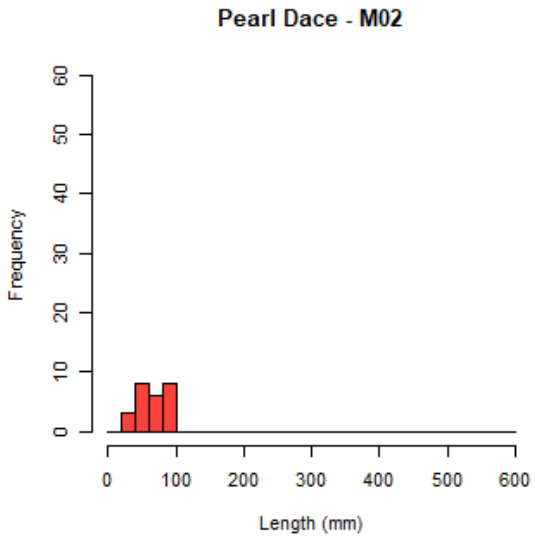

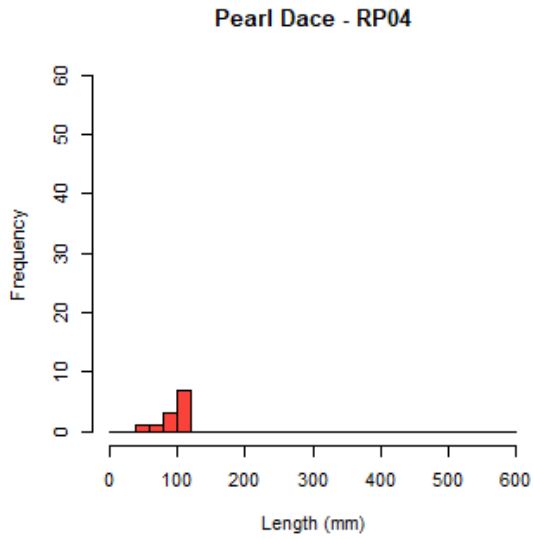

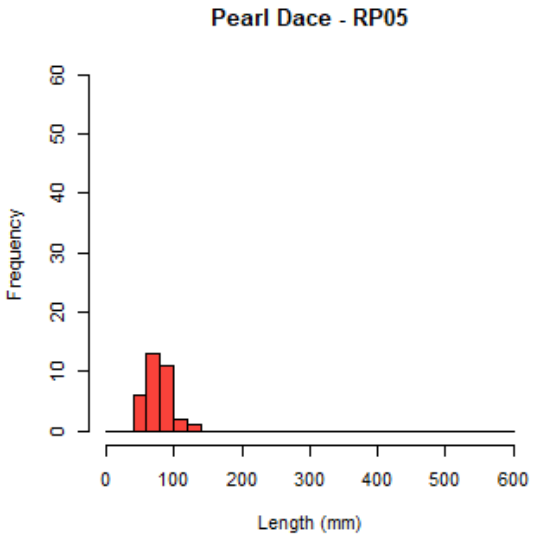

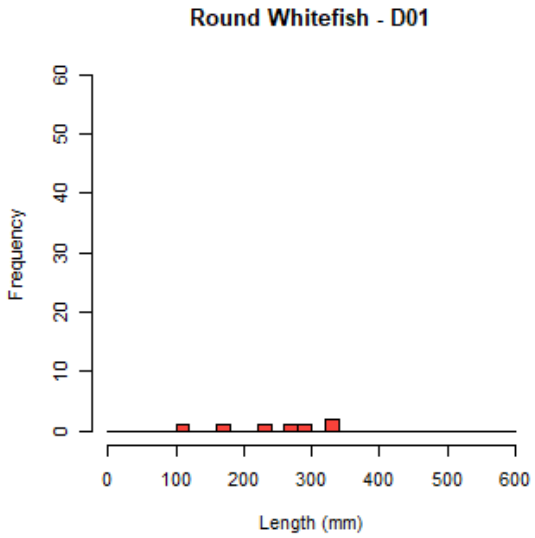

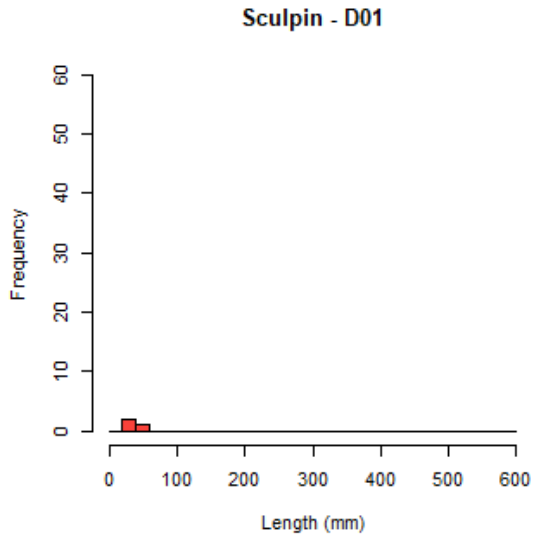

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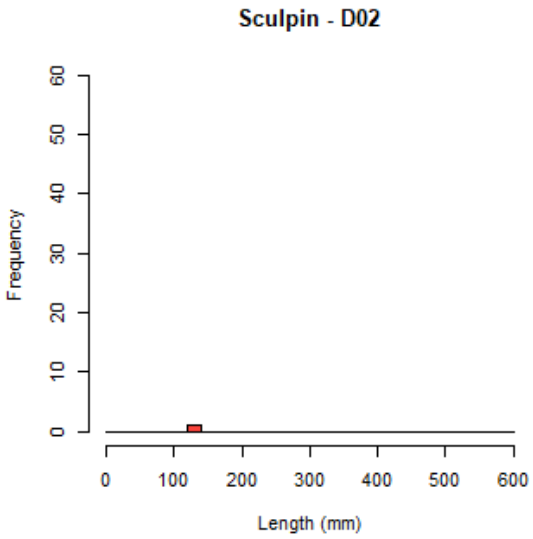

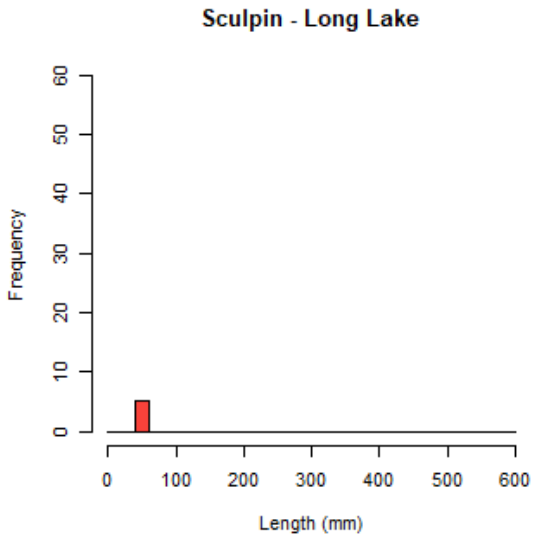

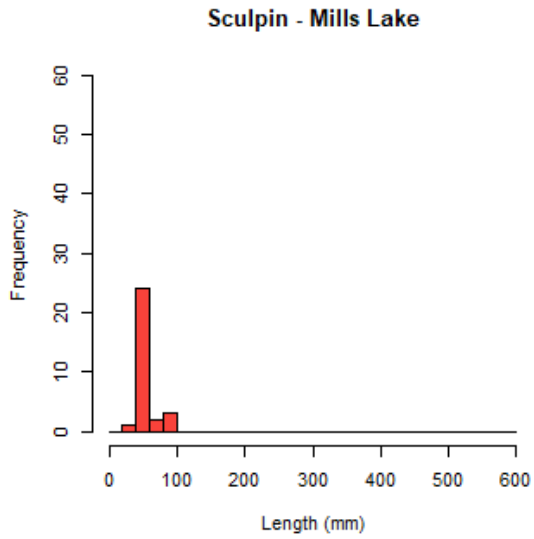

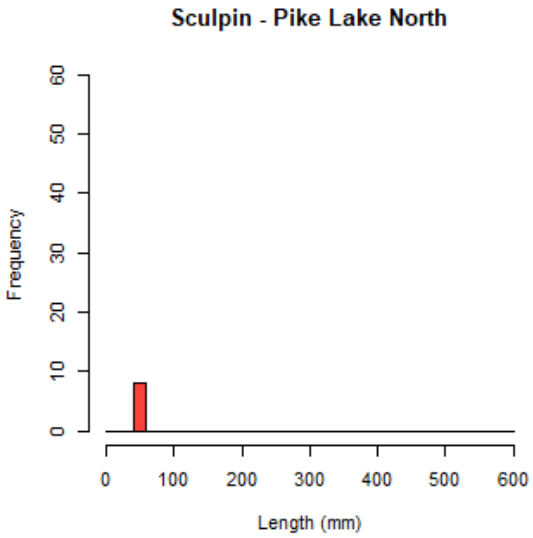

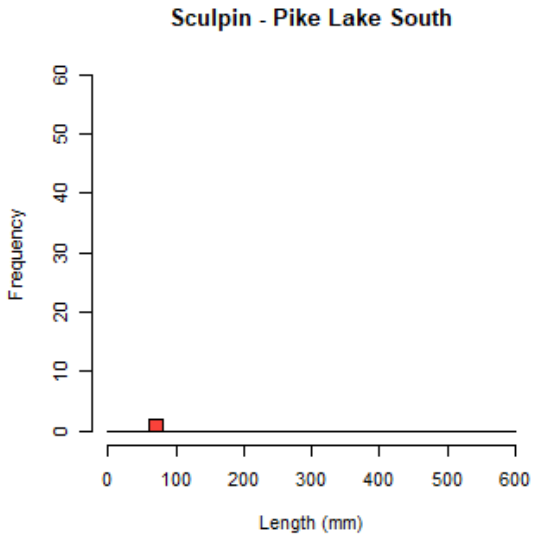

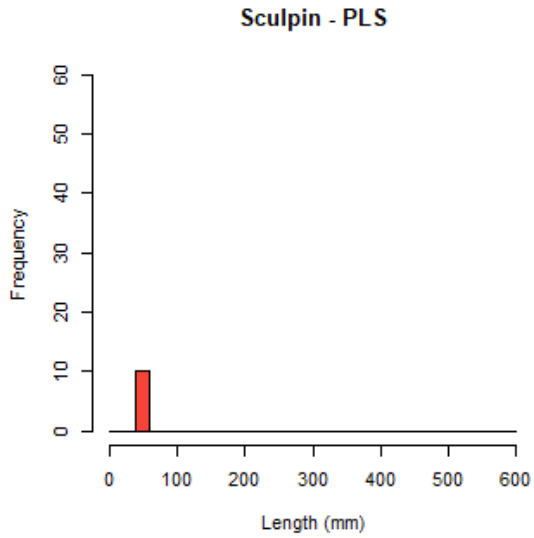

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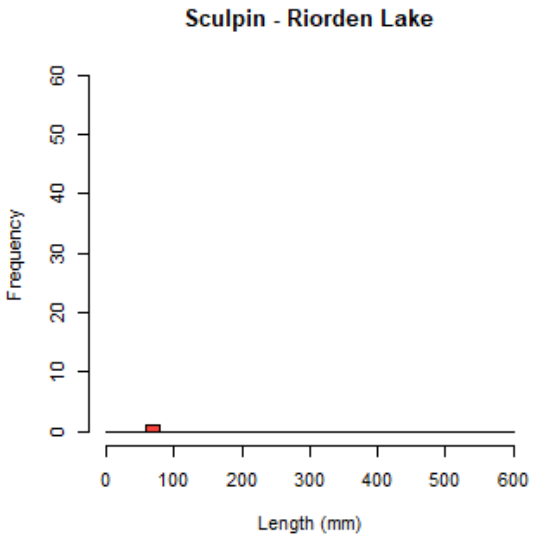

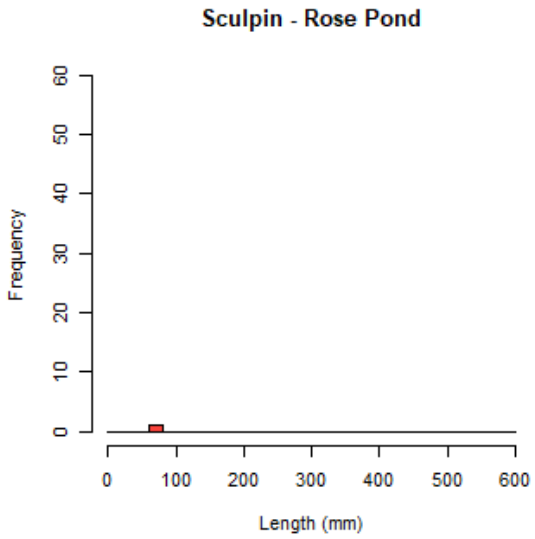

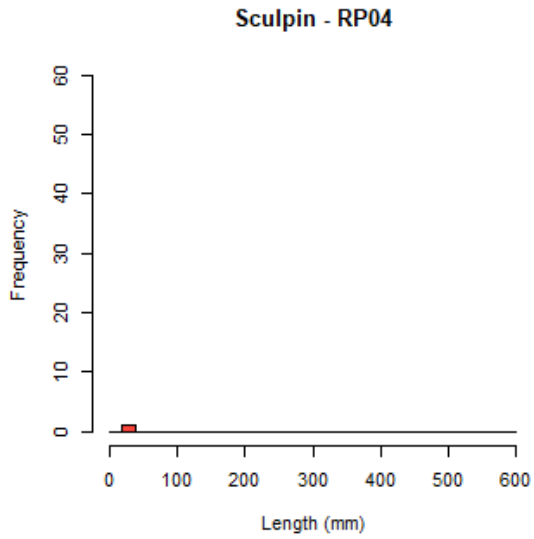

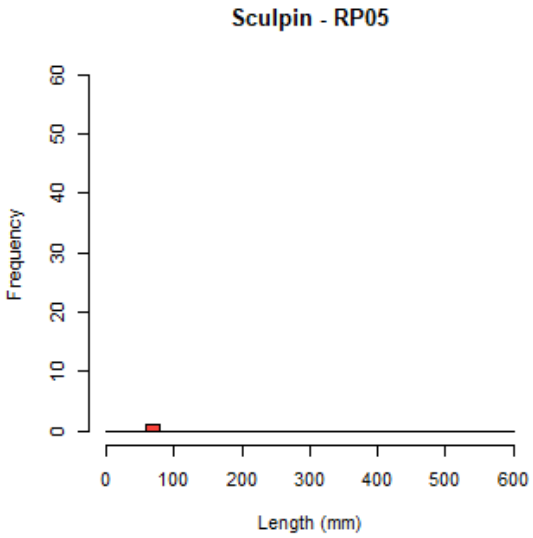

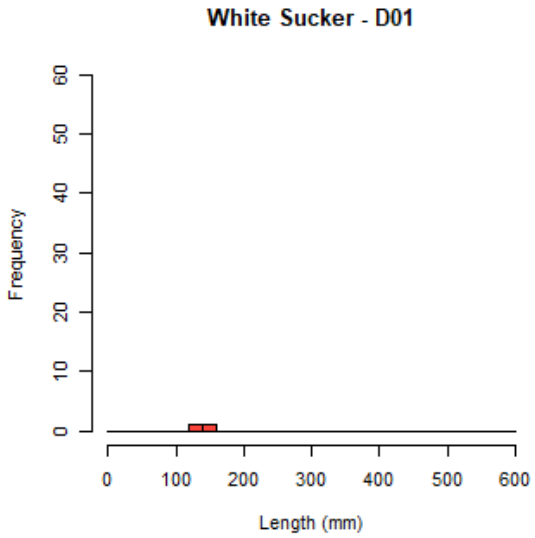

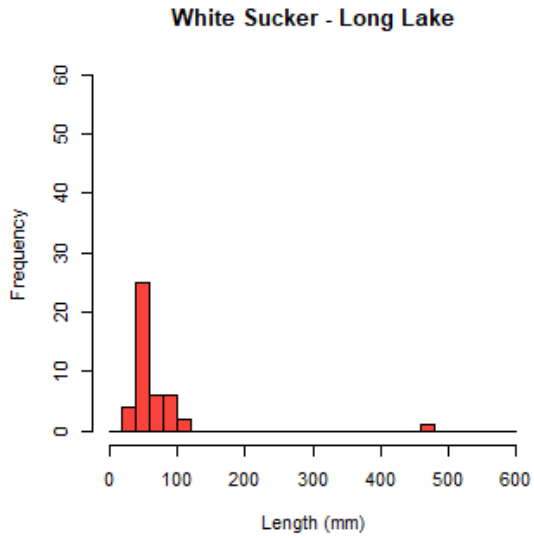

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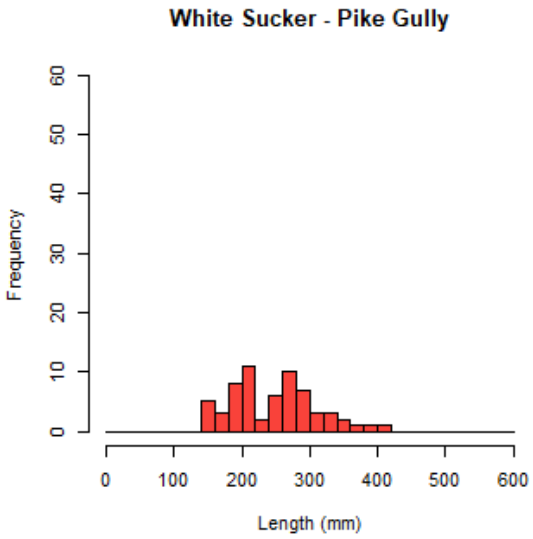
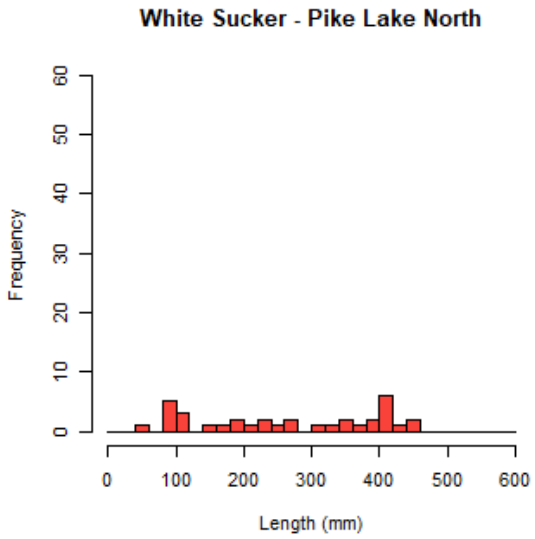
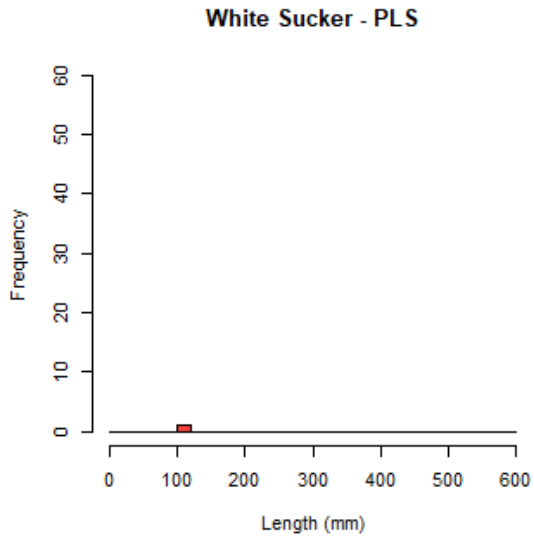
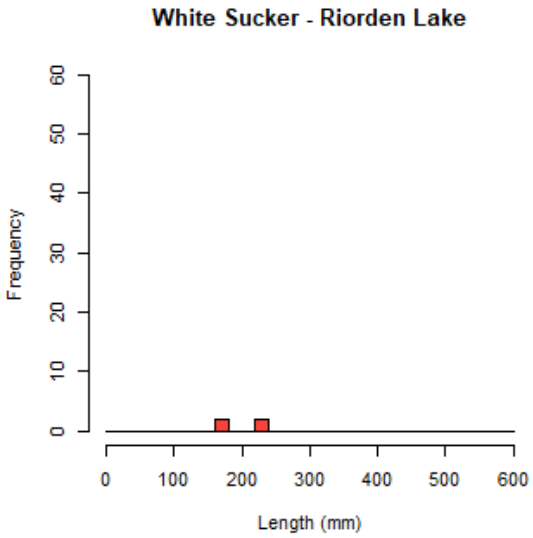
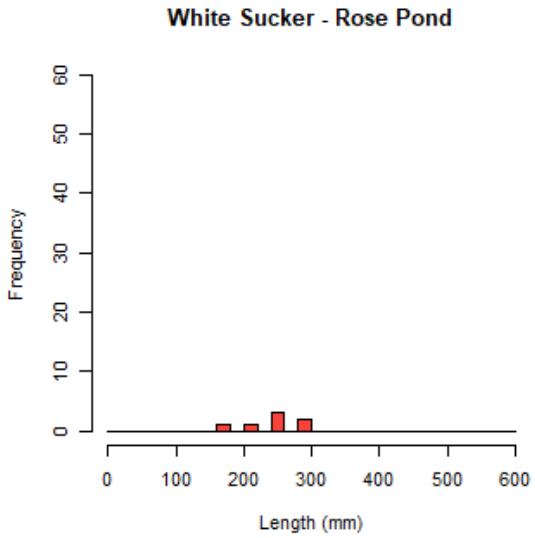
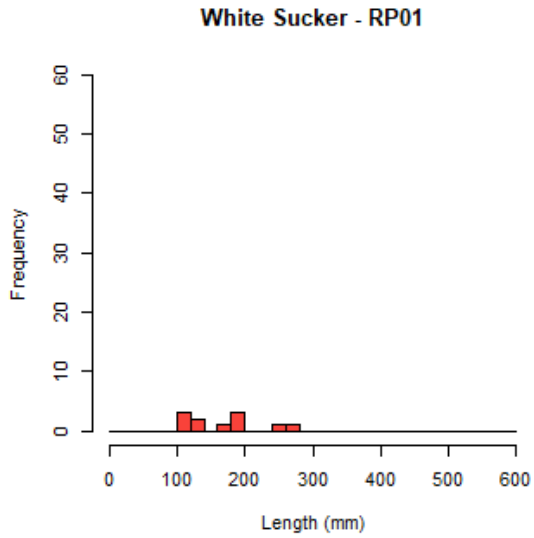




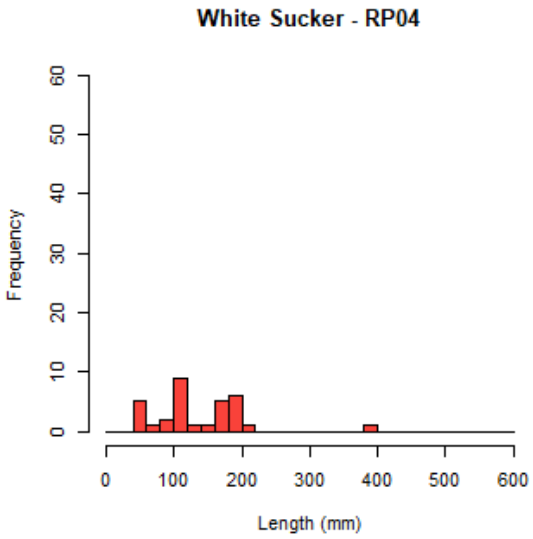


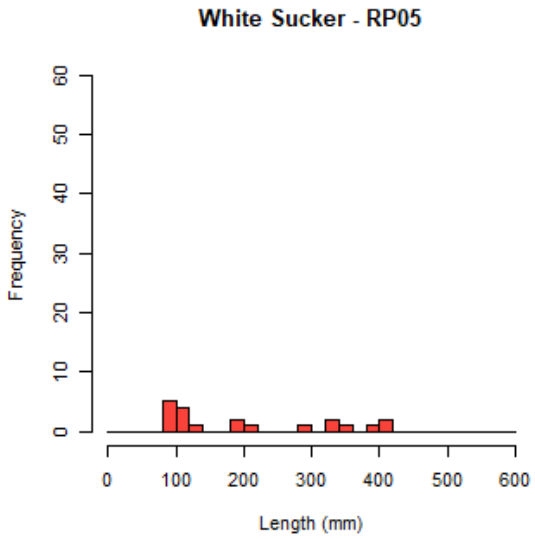






Appendix D
Fish Biometric Summaries – Lacustrine Fish Length Distributions





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