AGNICO EAGLE

UPPER BEAVER
PROJECT

Upper Beaver Gold Project
Impact Statement

Appendix G-2:

Cumulative Baseline Water Quality Report

AGNICO EAGLE MINES LIMITED

UPPER BEAVER GOLD PROJECT

CUMULATIVE BASELINE WATER QUALITY REPORT

SEPTEMBER 2023

UPPER BEAVER GOLD PROJECT

CUMULATIVE BASELINE WATER QUALITY REPORT – FINAL

AGNICO EAGLE MINES LIMITED

PROJECT NO.: OMEMA2008Z
SEPTEMBER 2023

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1.0 INTRODUCTION

1.1 Purpose and Objective of the Report

Agnico Eagle Mines Limited (Agnico Eagle) is planning to develop, operate and eventually reclaim a new open pit and underground gold and copper mine and processing facility, the Upper Beaver Gold Project (Project). The Upper Beaver Property (Property) is located about 5 kilometres (km) northeast of Dobie, Ontario in the geographic townships of Gauthier and McVittie (Figure 1-1). The nearest larger communities are the town of Larder Lake and the town Kirkland Lake, located about 8 km to the southeast and 19 km to the southwest, respectively. The Property has had a long history of gold mining and exploration.

The purpose of this report is to describe:

— Existing surface water quality conditions of lakes, rivers and streams (surface waters) potentially affected by Project development using baseline data from December 2010 to February 2024

— Existing groundwater quality conditions (water beneath the ground surface; e.g., stored within overburden and bedrock) in the area potentially affected by Project development using baseline data from 2018 to 2023.

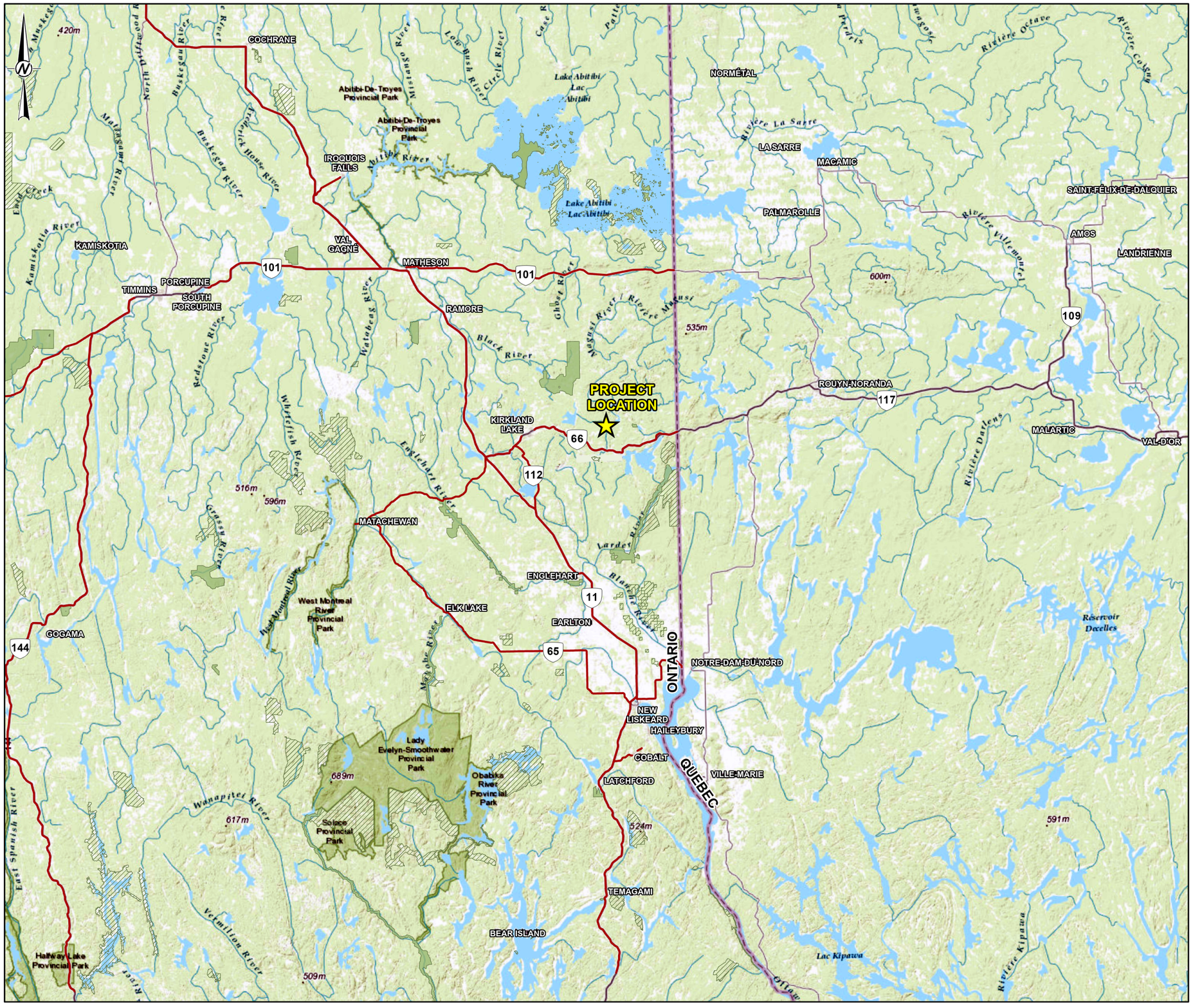
1.2 Background

The Property is within the Kirkland Lake – Larder Lake Mining District, which has a long history of exploration and mining dating back over a century. Ongoing but periodic exploration and underground mining has occurred at or near the Property since 1912. The main mining periods were from: 1912 to 1919, 1919 to 1935 and 1965 to 1971, although there were other periods of exploration activity. Figure 1-2 presents existing historical mine surface features on the Property, which are generally situated near York Lake. A total of 477,794 tonnes (t) of ore were processed at the past producing mines on the Property, and unknown volumes of tailings and waste rock were deposited into an unnamed pond downstream of Ava Lake and upstream of York Lake. There is also a remaining pile of waste rock on the western shore of York Lake, adjacent to the historic No. 3 Shaft (Figure 1-2).

Agnico Eagle acquired a 100 percent interest in the Property in 2018 and has since received approvals from provincial ministries for an advanced exploration program. The advanced exploration program will collect a bulk sample of about 60,000 t from the existing historic underground workings by means of an exploration shaft and new portal. The bulk sample and associated test work is required to confirm future mining and milling methods for production mine. There will be no on-site processing of ore extracted from underground as part of the advanced exploration program.

Agnico Eagle received an Environmental Compliance Approval for Industrial Sewage Works that allows for the construction and use of water management facilities and the discharge of treated water into the Misema River as part of the advance exploration program.

This report contains data from December 2010 to February 2024. For the period of record contained within this report, the advanced exploration program, including discharge to the Misema River, had not yet commenced. Accordingly, the results represent baseline conditions.



KEY MAP

SCALE: 1:25,000,000

LEGEND

- PROJECT LOCATION
- REGIONAL HIGHWAYS
- CONSERVATION RESERVE
- PROVINCIAL PARK

0 12.5 25 50

1:1,000,000 KILOMETRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. BASEMAP SOURCE: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS AND THE GIS USER COMMUNITY.
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
AGNICO EAGLE MINES

PROJECT
UPPER BEAVER GOLD PROJECT

TITLE
PROJECT LOCATION

CONSULTANT

wsp

YYYY-MM-DD	2025-07-09
DESIGNED	----
PREPARED	MD
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	FIGURE
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- HISTORICAL MINE HAZARDS
- FENCE

25 12.5 0 25

1:1,400 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. MAP EXTRACTED FROM "2019 CLOSURE PLAN AMENDMENT" FIGURE 4.8.1, STORY ENVIRONMENTAL, JAN. 24, 2020: ORTHOPHOTOS OBTAINED FROM QEENSTON MINING INC. LOCATIONS ARE APPROXIMATE; FENCE OUTLINE PROVIDED BY GOLDER (VIA AEM) ON 13 JUNE 2019.
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
AGNICO EAGLE MINES

PROJECT
UPPER BEAVER GOLD PROJECT

TITLE
HISTORICAL MINE REMNANTS

CONSULTANT

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PROJECT NO.	CONTROL	REV.	FIGURE
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2.0 ENVIRONMENTAL SETTING

2.1 Hydrological Setting

The Property is located near the Misema River, which starts at Sullivan Lake and flows through Kennedy Lake, Howard Lake, Misema Lake and Beaverhouse Lake along its course before widening into Ava Lake and York Lake. Downstream of York Lake, the Misema River confluences with Victoria Creek and continues southward towards Grassy Lake, approximately 8 km south of the Property. Eventually, the Misema River flows joins the Blanche River, which ultimately feeds into Lake Timiskaming before continuing its journey south to the Ottawa River.

The Misema River at Beaverhouse Lake has a drainage area of about 254 square kilometres (km^2) and mean annual flow of 250,560 cubic metres per day (m^3/day). The outlet of Beaverhouse Lake and Ava Lake are separated by a single set of rapids, with Ava Lake draining into York Lake via two distinct channels, each with rapids. At the downstream end of York Lake, Victoria Creek flows into the Misema River, expanding the overall watershed area at that point to about 400 km^2. Victoria Creek originates at Victoria Lake, situated about 10 km to the west of the Property.

The Misema River and its tributaries exhibit an annual streamflow pattern characterized by peak flows in spring (typically April and May), diminishing flows in early summer (June), reduced levels in mid to late summer (July, August, and early September), rising flows in autumn (late September to December), and moderately low levels in winter (January, February, and early March). Extreme low flows, such as the 7Q2 and 7Q20 flows (representing 7-day average low flow events with recurrence intervals of 2 and 20 years, respectively), tend to occur during the summer months.

Bathymetric survey results of the Misema River near the Site conducted by Story Environmental (2018 and 2021) are included in Appendix A. Beaverhouse Lake consists of three main basins. The mid basin is the shallowest, reaching a maximum depth of 10 metres (m) while the west basin is the deepest, reaching a maximum depth of around 21 m. Ava Lake has a surface area of 39,000 cubic metres (m^2), with an average depth of 3.4 m. Most of Ava Lake is between 1 to 5 m deep, with a central area reaching a maximum depth of 11 m. York Lake, including the downstream portion of the Misema River, spans about 43,000 m^2, with an average depth of 2.7 m. Most of this area, including the river section, ranges from 1 to 4 m in depth. Two deeper spots exist: one near the historical waste rock pile, reaching a depth of 7 m, and another downstream, past the confluence with Victoria Creek, with a maximum depth of 6 m. Seasonal measurements at all sites in Beaverhouse Lake, Ava Lake and York Lake show declining temperature and oxygen trends with depth; however, the absence of a thermocline in during spring and fall periods suggests well mixing in all three lakes.

2.2 Groundwater Setting

The Site is located within the south-central portion of the Abitibi greenstone belt and is underlain by volcanic, volcaniclastic and epiclastic rocks of the Gauthier (Upper Tisdale) and Lower Blake River groups. Bedrock is generally not exposed except along shorelines. Locally bedrock is covered by up to 30 m or more of glacio- lacustrine and glacio-fluvial deposits comprised primarily of sand and clay. The local area around the Property features generally rolling and undulating terrain with relatively low relief in most places. The Property sits on a plateau, surrounded by slopes and gullies along its edges. The elevation of this plateau ranges from approximately 300 to 320 metres above sea level (masl), while the surrounding slopes, gullies and major surface waterbodies, such as the Misema River, are situated at lower elevations, reaching down to about 281 masl.

A conceptual model of existing groundwater flow conditions was developed by SRK to support the Project and contains the following key points (SRK 2023):

- The Project is located on a plateau, and groundwater flow from the Property generally mimics local topography and drains to the south and southeast toward Beaverhouse Lake, Ava Lake and York Lake, and to the west toward Victoria Creek.
- The groundwater table is shallow, generally within 3 m from surface.
- The deep, regional groundwater is influenced by the large-scale topography and regional drainage system (i.e., lakes and river levels). It flows southward from the Laurentian Divide to the Temiskaming Basin.
- Groundwater recharge occurs primarily at higher elevations from infiltration of rainfall / snow melt. The lakes, rivers, and creeks are discharge locations, with some contributions to recharge locally (i.e., downstream ends of lakes) and / or seasonally (i.e., high flow periods). The groundwater inflows to Ava Lake, York Lake and Beaverhouse Lake are limited by the low to moderate permeabilities of the overburden and bedrock.
- Groundwater flows to area waterbodies are expected to be relatively small compared to the surface water flows.

2.3 Existing Site Conditions

At the time of preparation of this report, the Property is currently in advanced exploration, which commenced construction on July 31, 2024. This work involves the construction of the exploration shaft and exploration ramp. This report contains water quality data from December 2010 to February 2024 and is thus representative of baseline conditions, prior to the start of the advance exploration program.

As mentioned in Section 1.2, exploration and mining activities within the Property boundary dates back to 1912. Due to the presence of historical mine features and mining activity at the Property (Figure 1-2), Unnamed Pond located between Ava Lake and York Lake have retained residual tailings, which affects existing water quality in those waterbodies (Figure 1-2). Moreover, water quality in Victoria Creek is also affected by historical tailings impoundment areas associated with Upper Canada Property near Little Larder Lake. Little Larder Creek flows from Little Larder Lake to Victoria Creek with the confluence north of the Property boundary. Upstream monitoring stations on Victoria Creek, upstream of the confluence with Little Larder Creek, are not expected to be influenced by the Upper Canada Property.

3.0 METHODOLOGY

3.1 Data Sources

Baseline water quality environmental investigations have occurred at the Property since 2010. The main periods of investigations were from 2011 to 2023 and from 2018 to early 2024. This report presents data from the following sources:

- Surface water quality field programs and reporting have been completed by Story Environmental Inc. (Story) from 2010 to 2013, site staff (previous mining companies) from 2014 to 2017 and Story from 2018 to 2024. The surface water quality monitoring network is presented in Figure 3-1.
- Groundwater quality sampling was conducted previously by Story and from 2018 to 2024 as part of hydrogeological field programs; the hydrogeological monitoring network is shown in Figure 3-2. The hydrogeological investigation has included monitoring of groundwater flow, hydraulic gradient, hydraulic conductivity and water quality. Water quality data results are presented in this report; reporting of other baseline hydrogeologic conditions is presented separately.
- Hydrological monitoring (including water flow and water level monitoring) has occurred for key watercourses and waterbodies around the planned development and was completed by Story for both the 2011 to 2013 and 2018 to 2024 periods. Hydrological monitoring results are presented in a separate report; hydrological information most relevant to interpreting water quality results is summarized herein.

3.2 Monitoring Stations and Parameters

The surface water quality study baseline characterized existing conditions of watercourses that could potentially be affected by Project development. The surface water monitoring network targets a range of waterbodies, including the main stem Misema River, smaller unnamed streams and tributaries, as well as upstream reference stations. This approach provides representative sampling across different areas with potential interaction with the Project. Figure 3-1 presents the surface water quality monitoring network; rationale for station selection is provided in Table 3-1. The period of record for surface quality is provided in Table 3-2. A photographic record of surface monitoring stations, using consistent vantage points among seasons, for monitored waterbodies and watercourses is provided in Appendix B.

Groundwater quality data were collected as part of the hydrogeological baseline investigations for the Project. Groundwater monitoring wells are shown in Figure 3-2. The baseline groundwater quality monitoring network consists of 37 groundwater monitoring wells, including 13 clustered wells composed of both a shallow and a deep well. The period of record for groundwater quality is provided in Table 3-3.

Monitored water quality parameters were selected based on recent experience with regulatory requirements for other mine sites in Ontario. Monitored parameters for surface water and groundwater are presented in Table 3-4 and Table 3-5, respectively. Monitored parameters include:

- Parameters with Provincial Water Quality Objectives (PWQO) and interim PWQO (iPWQO) for the protection of aquatic life.
- Parameters identified by the Rehabilitation of Lands Regulation (O. Reg 35/24), including cyanide.
- Important co-factors for water quality guideline calculations (e.g., dissolved organic carbon, hardness, alkalinity).

— Parameters anticipated to be required by hydro-geochemical or effects modelling to support the effects assessment for the Project (e.g., major cations and anions).

— Supplemental parameters anticipated to be seen as required by regulators and other stakeholders (methyl mercury and ultra-low detection mercury).

3.3 Sampling Methodology

Water quality sampling was conducted in accordance with industry standards and applicable provincial guidelines / standards. Water samples were sent to accredited laboratories under a strict Chain of Custody protocol. Sampling and field quality assurance / quality control (QA / QC) procedures adhered to industry standards and followed guidelines outlined in the Ministry of the Environment, Conservation and Parks (MECP) manual, Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario (MECP 1996). Quality control measures included the use of travel blanks, field blanks and duplicate analyses, as necessary.

Surface Water

At each surface water sampling station, field measurements for water temperature, pH, conductivity, dissolved oxygen (DO), turbidity and oxygen reduction potential (ORP) were taken using a YSI multi-meter before water samples were collected. To avoid cross-contamination, the instruments were rinsed with stream / lake water prior to each measurement.

Sample bottles not requiring preservatives were triple rinsed with stream / lake water during collection, while pre-preserved bottles were provided by the laboratory for samples needing preservatives. Samples for dissolved metals were filtered through a 0.45 micrometre (µm) syringe filter into the appropriate containers. Each bottle was labelled with the sample date, location, project name, and requested analysis. All samples were immediately stored in coolers with ice packs to maintain a temperature of approximately 4°C before being shipped to accredited labs for analysis. The laboratories followed internal QA / QC protocols, including the analysis of duplicates, reference standards, matrix spikes, and blanks, to verify and validate the results.

Supplemental sampling for ultra-low levels of mercury and methylmercury was conducted in open water season at key stations starting in 2021. Samples were collected using the EPA Method 1631e: Clean Hands / Dirty Hands Sampling Protocol to minimize contamination risk.

All collected samples are subsequently sent to AGAT Laboratories in Calgary, Alberta for analysis.

During each monthly or quarterly sampling event, a blind field duplicate, a trip blank and / or a field blank were used for QA / QC checks. These blanks were used to check for potential contamination arising from field practices, laboratory equipment, analysis methods, or sample containers. As is standard practice, 10 percent (%) of the total number of samples analyzed consist of laboratory duplicates. Field and travel blanks, consisting of deionized water tested for purity, were transferred into containers supplied by the laboratory for analysis. Results from QA / QC checks are provided in Appendix C.

For surface water quality sampling, analyses were done for both total and dissolved concentrations, as is standard practice.

Groundwater

The main components of the groundwater sampling methodology were:

- Total depth and depth to water level was measured using a calibrated water level meter at each monitoring location.
- Well purging was completed until the monitoring well went dry. Collections of groundwater sample were performed upon recovery / following the complete purging of each well. Field measurements of the final samples included field parameters such as temperature, pH, conductivity and alkalinity.
- All samples for groundwater quality analyses were collected directly into the laboratory supplied containers; groundwater samples for dissolved metals were filtered through a 0.45 µm inline filter directly into the appropriate containers.

For groundwater quality sampling, analyses were done for dissolved concentrations, as is standard practice.

3.4 Data Analysis

Data analysis for surface water and groundwater quality involved basic descriptive and summary statistics, with duplicate samples being averaged prior to inclusion in the descriptive statistics. When analytical results were less than method detection limit (MDL), a value of half the MDL was used in the statistical summaries. A summary of analytical MDLs throughout the baseline programs are provided in Table 3-4 and Table 3-5.

Surface water quality results were screened against identified Surface Water Quality Guidelines for the Protection of Aquatic Life (WQG PAL; Table 3-6). WQG PAL are numerical criteria established by the Ontario and/or Canadian governments to identify a measurable level of water quality that is protective of all aquatic life, encompassing all life cycle stages and for indefinite exposure periods. The guidelines identified in Table 3-6 represent the most recent and scientifically defendable PWQO, iPWQO, Canadian Water Quality Guidelines (CWQG), Federal Environmental Quality Guidelines (FEQG), British Columbia Water Quality Guidelines (BC WQG) or Saskatchewan Environmental Quality Guidelines (SEQG).

Groundwater quality results were screened against Table 1: Full Depth Background Site Condition Standards and Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition from the Ontario Soil, Ground Water, and Sediment Standards for use under Part XV.1 of the *Environmental Protection Act* (Table 3-7). Where groundwater-specific guidelines were not available, parameters were screened against WQG PAL. Although WQG PAL are not directly applicable to groundwater, they are utilized here to facilitate interpretation of water quality results and to allow for comparison with surface water quality results.

Table 3-1: Surface Water Quality Stations

Waterbody	Station I.D.	Easting [1]	Northing [1]	Summary Description
Misema River (Howard Lake)	H1D	587017	5343484	Lake reference site on Howard Lake. H1S sample is collected at surface (approximately 1 m); H1D sample is collected at depth (approximately 1 m from the bottom).
	H1S	587017	5343484	
Misema River (Beaverhouse Lake)	BH2D	594760	5336764	Located at the far north end of Beaverhouse Lake. BH2S sample is collected at surface (approximately at 1 m depth); BH2S sample is collected at depth (approximately 1 m from the bottom).
	BH2S	594760	5336764	
	BH1D	592747	5335778	Located on Beaverhouse Lake, north of M1. BH1S sample is collected at surface (approximately 1 m); BH1D sample is collected at depth (approximately 1 m from the bottom).
	BH1S	592747	5335778	
Misema River (Ava Lake)	M1	592335	5335591	Located at the outlet of Beaverhouse Lake to Ava Lake.
Misema River (York Lake)	M3	591919	5335457	In York Lake (Misema River) adjacent to the historical mine features.
Misema River	MX1	592174	5334991	At proposed discharge location for the Advance Exploration Program, downstream of confluence with Victoria Creek.
	M2	591823	5332181	Far-field station, downstream of MX1 and the historical mine features. It is located at the snowmobile bridge.
Victoria Creek	V1	584590	5338602	Reference site located on Victoria Creek, upstream of the influence of historical mining activities.
	V2	586196	5337221	Victoria Creek upstream of confluence with Little Larder Creek.
	V3F	590814	5336472	Upstream of the proposed site infrastructure and US4 but below the confluence with Little Larder Creek.
	V3	591836	5334989	Located downstream of the confluence with Little Larder Creek and upstream of the confluence with the Misema River. Provides information about the potential impacts of the Upper Canada and McBean tailings areas on Victoria Creek water quality.
	VT1	590952	5335946	Downstream of the proposed overburden pile.
Unnamed streams	US1	592161	5336148	Unnamed stream, downstream of proposed process plant area.
	US2	591349	5336344	Unnamed stream, downstream/within of proposed waste rock storage facility.
	US4	591917	5337373	Unnamed stream, west of proposed tailings storage facility (TSF) footprint.
	US5	592393	5336828	Unnamed stream, downstream/within proposed TSF footprint.
	US6	593251	5337043	Unnamed stream, downstream/within proposed TSF footprint.
	US7	593860	5337058	Unnamed stream, east of proposed TSF footprint.
	US8	593645	5337826	Unnamed stream, east of proposed TSF footprint.
	US8 Pond	593813	5337822	Unnamed stream, east of proposed TSF footprint.
	US9	593082	5337912	Unnamed stream, north of proposed TSF footprint.
	BG2	591327	5336872	Background creek site located upgradient of Victoria Creek.

Notes:
1 NAD 1983 UTM Zone 17N
D: sample collected at depth; S: sample collected at surface.
TSF: Tailings Storage Facility.

Table 3-2: Period of Record, Surface Water Quality

Waterbody	Station I.D.	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total
Misema River (Howard Lake)	H1S	-	-	5	2	-	1	1	1	2	4	2	3	3	5	1	30
	H1D	-	-	5	2	-	-	-	-	1	4	2	3	3	4	1	25
Misema River (Beaverhouse Lake)	BH1S	-	3	6	3	-	1	1	1	2	4	2	8	9	6	1	47
	BH1D	-	3	5	3	-	-	-	-	1	3	2	8	9	6	1	41
	BH2S	-	-	4	3	-	-	1	1	2	3	2	8	6	6	1	37
	BH2D	-	-	4	3	-	-	-	-	1	3	2	8	6	6	1	34
Misema River (Ava Lake)	M1	1	5	7	4	1	1	1	1	7	12	5	10	12	12	2	81
Misema River (York Lake)	M2	1	4	7	3	1	1	1	1	7	12	5	10	12	12	2	79
Misema River	M3	-	5	7	4	-	1	1	1	7	11	5	10	12	12	2	78
	MX1	-	-	-	-	-	-	-	-	-	-	-	8	8	9	-	25
Victoria Creek	V1	1	5	7	4	1	1	-	1	3	4	3	4	4	4	1	43
	V2	-	3	7	2	1	1	-	-	2	3	3	4	5	3	1	35
	V3	1	5	7	4	1	1	1	1	3	8	5	10	12	11	2	72
	V3F	-	-	-	-	-	-	-	-	-	-	-	3	4	4	1	12
	VT1	-	-	-	-	-	-	-	-	-	-	-	1	3	4	-	8
Unnamed Streams	US1	-	-	-	-	-	-	-	-	-	-	-	8	12	9	1	30
	US2	-	-	-	-	-	-	-	-	-	-	-	9	10	3	1	23
	US4	-	-	-	-	-	-	-	-	-	-	-	1	3	4	1	9
	US5	-	-	-	-	-	-	-	-	-	-	-	9	9	2	-	20
	US6	-	-	-	-	-	-	-	-	-	-	-	9	12	9	1	31
	US7	-	-	-	-	-	-	-	-	-	-	-	1	4	4	-	9
	US8	-	-	-	-	-	-	-	-	-	-	-	1	3	4	1	9
	US8 Pond	-	-	-	-	-	-	-	-	-	-	-	1	4	4	1	10
	US9	-	-	-	-	-	-	-	-	-	-	-	1	2	2	-	5
	BG2	1	5	6	2	-	1	1	1	3	3	3	10	12	4	1	53

Notes:
- no data available.
D: sample collected at depth.
S: sample collected at surface.

Table 3-3: Period of Record, Groundwater Quality

Station I.D.	2018	2019	2020	2021	2022	2023	Total
MW20-UB11D	-	-	-	9	10	3	22
MW20-UB11S	-	-	-	9	10	3	22
MW20-UB12D	-	-	-	8	10	3	21
MW20-UB12S	-	-	-	9	7	3	19
MW20-UB13D	-	-	-	9	10	3	22
MW20-UB14D	-	-	-	9	8	2	19
MW20-UB14S	-	-	-	8	7	2	17
MW20-UB15	-	-	-	9	10	3	22
MW20-UB16D	-	-	-	9	8	3	20
MW-UB1D	3	2	3	4	3	3	18
MW20-UB2D	-	-	-	9	10	3	22
MW-UB2S	3	3	3	4	3	3	19
MW-UB3D	3	3	3	4	3	3	19
MW-UB3S	1	1	2	1	1	2	8
MW-UB4D	3	3	3	3	2	3	17
MW-UB4S	3	3	3	4	3	3	19
MW-UB5D	-	1	3	4	3	3	14
MW-UB6D	2	2	2	3	2	2	13
MW-UB6S	2	2	2	3	3	3	15
MW-UB7D	-	-	3	10	10	3	26
MW-UB7S	-	-	3	10	10	3	26
MW-UB8	-	-	-	9	10	3	22
MW-UB9D	-	-	3	10	10	3	26
MW-UB9S	-	-	3	10	10	3	26
MW22-UB17S	-	-	-	-	-	3	3
MW22-UB18D	-	-	-	-	-	3	3
MW22-UB19D	-	-	-	-	-	3	3
MW22-UB19S	-	-	-	-	-	3	3
MW22-UB20D	-	-	-	-	-	3	3
MW22-UB21D	-	-	-	-	-	3	3
MW22-UB22D	-	-	-	-	-	3	3
MW22-UB23D	-	-	-	-	-	3	3
MW22-UB25D	-	-	-	-	-	3	3
MW22-UB26D	-	-	-	-	-	3	3
MW22-UB27D	-	-	-	-	-	2	2
MW23-UB33D	-	-	-	-	-	1	1
MW23-UB33S	-	-	-	-	-	3	3

Note:
- no data available.

Table 3-4: Monitored Surface Water Quality Parameters

Parameter [1]	MDL [2]	Parameter	MDL [2]
Aluminum	0.001	Acidity (as $CaCO_3$)	2
Antimony	0.001	Alkalinity, Total (as $CaCO_3$)	1
Arsenic	0.001	Hardness (as $CaCO_3$)	0.2
Beryllium	0.0005	Total Suspended Solids	1.0 to 10.0
Barium	0.05	Total Dissolved Solids	13
Cadmium	0.000016	Ammonia, Total (as N)	0.01
Calcium	0.05	Chloride	0.1
Chromium	0.0001	Unionized ammonia (as N)	0.000002
Cobalt	0.00006	Nitrate (as N)	0.05
Copper	0.0008	Nitrite (as N)	0.02
Iron	0.01 to 0.1	Phosphorus, Total	0.0020 to 0.0050
Lead	0.0001	Sulfate (SO_4)	2
Magnesium	0.005	Dissolved organic carbon	0.5
Manganese	0.0001	Total cyanide	0.001 to 0.010
Mercury	0.00001	Free cyanide	0.002 to 0.005
Ultra-low-level Mercury	0.5 (ng/L)	Conductivity (µS/cm)	1
Methylmercury	0.02 (ng/L)	Field pH (s.u.)	0.01
Molybdenum	0.001	Temperature (°C)	0.1
Nickel	0.003	Dissolved Oxygen	0.1
Potassium	0.05		
Selenium	0.0005		
Silver	0.00001		
Sodium	0.05		
Thallium	0.0001		
Tin	0.0005		
Uranium	0.001		
Vanadium	0.001		
Zinc	0.004		
Zirconium	0.01		

Notes:
All units are mg/L (unless otherwise specified).
1 For surface waters, monitoring occurs for both total and dissolved metals.
2. MDL: Method Detection Limit.

Table 3-5: Monitored Groundwater Quality Parameters

Parameter [1]	MDL [2]	Parameter	MDL [2]
Aluminum	0.001	Acidity (as $CaCO_3$)	2
Antimony	0.001	Alkalinity, Total (as $CaCO_3$)	1
Arsenic	0.001	Hardness (as $CaCO_3$)	0.2
Beryllium	0.0005	Total Suspended Solids	1.0 to 10.0
Barium	0.05	Total Dissolved Solids	13
Cadmium	0.000016	Ammonia, Total (as N)	0.01
Calcium	0.05	Chloride	0.1
Chromium	0.0001	Unionized ammonia (as N)	0.000002
Cobalt	0.00006	Nitrate (as N)	0.05
Copper	0.0008	Nitrite (as N)	0.02
Iron	0.01 to 0.1	Phosphorus, Total	0.0020 to 0.0050
Lead	0.0001	Sulfate (SO_4)	2
Magnesium	0.005	Dissolved organic carbon	0.5
Manganese	0.0001	Total cyanide	0.001 to 0.010
Mercury	0.00001	Free cyanide	0.002 to 0.005
Ultra low mercury	0.5 (ng/L)	Conductivity (µS/cm)	1
Methylmercury	0.02 (ng/L)	Field pH (s.u.)	0.01
Molybdenum	0.001	Temperature (°C)	0.1
Nickel	0.003	Dissolved Oxygen	0.1
Potassium	0.05		
Selenium	0.0005		
Silver	0.00001		
Sodium	0.05		
Thallium	0.0001		
Tin	0.0005		
Uranium	0.001		
Vanadium	0.001		
Zinc	0.004		
Zirconium	0.01		

Notes:
All units are mg/L (unless otherwise specified).
1 Groundwater quality analyses were performed for dissolved concentrations, as is standard practice.
2. MDL: Method Detection Limit.

Table 3-6: Surface Water Quality Guidelines

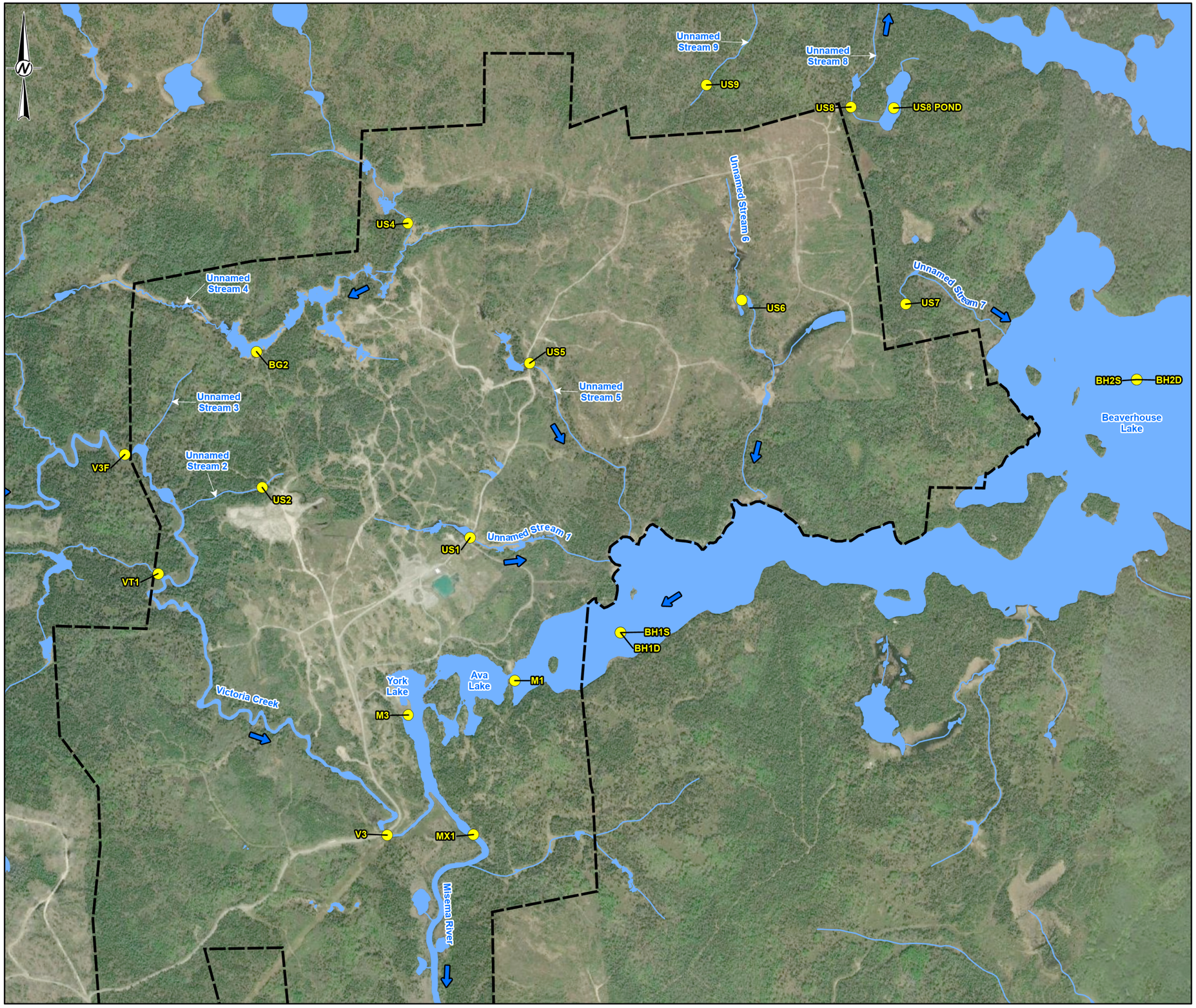
Parameter [1]	Unit	Benchmark Value	Source [2,3,4,5]
pH	s.u.	6.5 – 8.5	PWQO
Sulphate [5]	mg/L	128 (hardness 0-30 mg/L) 218 (hardness 31-75 mg/L)	BC WQG
Ammonia, Total	mg/L	0.924	CCME
Ammonia, Unionized	mg/L	0.019	CCME
Chloride	mg/L	120	CCME
Nitrate-N	mg/L	3	CCME
Nitrite-N	mg/L	0.06	CCME
Cyanide (Free)	mg/L	0.005	PWQO
Aluminum	mg/L	*Calculated*	FEQG
Aluminum (dissolved)	mg/L	0.075	iPWQO
Antimony	mg/L	0.02	iPWQO
Arsenic	mg/L	0.005	iPWQO
Boron	mg/L	0.2	iPWQO
Beryllium	mg/L	0.011 (hardness <= 75 mg/L) 1.1 (hardness > 75 mg/L)	PWQO
Cadmium	mg/L	*Calculated*	CCME
Chromium [7]	mg/L	0.0089	PWQO
Cobalt	mg/L	*Calculated*	FEQG
Copper	mg/L	0.001 (hardness <= 20 mg/L) 0.005 (hardness > 20 mg/L)	iPWQO
Iron	mg/L	0.3	PWQO
Lead	mg/L	0.001 (hardness <30 mg/L) 0.003 (hardness >=30 mg/L) 0.005 (hardness >80 mg/L)	iPWQO
Mercury	mg/L	0.000026	CCME
Molybdenum	mg/L	31	SEQG
Nickel	mg/L	0.025	PWQO
Phosphorus	mg/L	0.03 (rivers); 0.02 (lakes)	iPWQO
Selenium	mg/L	0.002	BC WQG
Strontium	mg/L	2.5	FEQG
Silver	mg/L	0.00025	CCME
Thallium	mg/L	0.0003	iPWQO
Uranium	mg/L	0.015	CCME
Vanadium	mg/L	0.006	iPWQO
Tungsten	mg/L	0.03	iPWQO
Zinc	mg/L	0.02	PWQO
Zirconium	mg/L	0.004	iPWQO

Notes:
1 Guidelines are presented for total concentrations, unless otherwise indicated (dissolved)
2 Provincial Water Quality Objectives (PWQO) and interim PWQO (iPWQO) for protection of aquatic life.
3 CCME: Canadian Council of Ministers of the Environment (CCME) water quality guidelines for the protection of aquatic life (long-term exposure).
4 FEQG: Federal Environmental Quality Guidelines; these are issued to support federal environmental quality monitoring and risk assessment for parameters for which CCME guidelines do not yet exist or are not reasonably expected to be updated in the near future.
5 BC WQG: British Columbia long-term exposure guidelines (freshwater) are accessed here in the absence of available suitable Ontario or Federal guidelines (sulphate).
6 Saskatchewan Environmental Quality Guideline (SEQG) for the protection of aquatic life
7 There is no guideline for concentrations of total chromium; it is most common to adopt the PWQO and CCME guidelines for hexavalent (0.001 mg/L) or trivalent (0.0089 mg/L) chromium, dependent on-site conditions and in consultation with regulators.

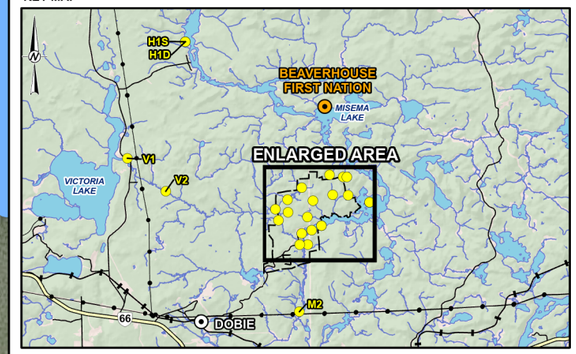
Table 3-7: Groundwater Quality Guidelines

Parameter [1]	Unit	Benchmark Value	Source [2,3,4,5,6]
pH	s.u.	6.5 – 8.5	PWQO
Sulphate [5]	mg/L	128 (hardness 0-30 mg/L) 218 (hardness 31-75 mg/L)	BC WQG
Ammonia, Total	mg/L	0.924	CCME
Ammonia, Unionized	mg/L	0.019	PWQO
Chloride	mg/L	790	Table 1 / 2
Nitrate-N	mg/L	3	CCME
Nitrite-N	mg/L	0.06	CCME
Cyanide (free)	mg/L	0.005 / 0.066	Table 1 / 2
Aluminum (dissolved)	mg/L	0.075	iPWQO
Antimony	mg/L	0.0015 / 0.006	Table 1 / 2
Arsenic	mg/L	0.013 / 0.025	Table 1 / 2
Boron	mg/L	1.7 / 5	Table 1 / 2
Beryllium	mg/L	0.0005 / 0.004	Table 1 / 2
Cadmium	mg/L	0.0005 / 0.0027	Table 1 / 2
Chromium [7]	mg/L	0.025	Table 1 / 2
Cobalt	mg/L	0.0038	Table 1 / 2
Copper	mg/L	0.005 / 0.087	Table 1 / 2
Iron	mg/L	0.3	PWQO
Lead	mg/L	0.0019 / 0.01	Table 1 / 2
Mercury	mg/L	0.0001 / 0.00029	Table 1 / 2
Molybdenum	mg/L	0.023 / 0.07	Table 1 / 2
Nickel	mg/L	0.014 / 0.1	Table 1 / 2
Phosphorus	mg/L	0.03 (rivers); 0.02 (lakes)	iPWQO
Selenium	mg/L	0.005 / 0.01	Table 1 / 2
Strontium	mg/L	2.5	FEQG
Silver	mg/L	0.0003 / 0.0015	Table 1 / 2
Thallium	mg/L	0..0005 / 0.002	Table 1 / 2
Uranium	mg/L	0.089 / 0.02	Table 1 / 2
Vanadium	mg/L	0.0039 / 0.0062	Table 1 / 2
Zinc	mg/L	0.16 / 1.1	Table 1 / 2

Notes:
1 Guidelines are presented for dissolved concentrations, unless otherwise indicated (total)
2 Table 1: Full Depth Background Site Condition Standards and Table 2: Full Depth Generic Site Standards in a Potable Ground Water Condition from the provincial Soil, Ground Water, and Sediment Standards for use under Part XV.1 of the *Environmental Protection Act.*
3 Provincial Water Quality Objectives (PWQO) and interim PWQO (iPWQO) for protection of aquatic life.
4 CCME: Canadian Council of Ministers of the Environment (CCME) water quality guidelines for the protection of aquatic life (long-term exposure).
5 FEQG: Federal Environmental Quality Guidelines; these are issued to support federal environmental quality monitoring and risk assessment for parameters for which CCME guidelines do not yet exist or are not reasonably expected to be updated in the near future.
6 BC WQG: British Columbia long-term exposure guidelines (freshwater) are accessed here in the absence of available suitable Ontario or Federal guidelines (sulphate).
7 Table 1 and 2 Guidelines from the Soil, Ground Water and Sediment Standards have total chromium guidelines of 0.011 mg/L and 0.05 mg/L, respectively. For consistency with surface water quality analyses, chromium XI guidelines are also used here.



KEY MAP



SCALE: 1:15,000

LEGEND

- PROPERTY BOUNDARY
- SURFACE WATER QUALITY MONITORING LOCATION
- WATERCOURSE
- WATERBODY
- FLOW DIRECTION

0 125 250 500

1:15,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. WATERBODIES AND WATERCOURSE EXTRACTED FROM LIO, MNRF AND MODIFIED TO MATCH SITE PLAN LAYOUT PROVIDED BY AGNICO EAGLE MINES; TO BE FIELD CONFIRMED.
3. BASE MAP: MAXAR
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
AGNICO EAGLE MINES

PROJECT
UPPER BEAVER GOLD PROJECT

TITLE
SURFACE WATER QUALITY MONITORING NETWORK

CONSULTANT

wsp

YYYY-MM-DD	2025-07-09
DESIGNED	----
PREPARED	MD
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	FIGURE
CA0042150	0010	A	3-1

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

0 25mm

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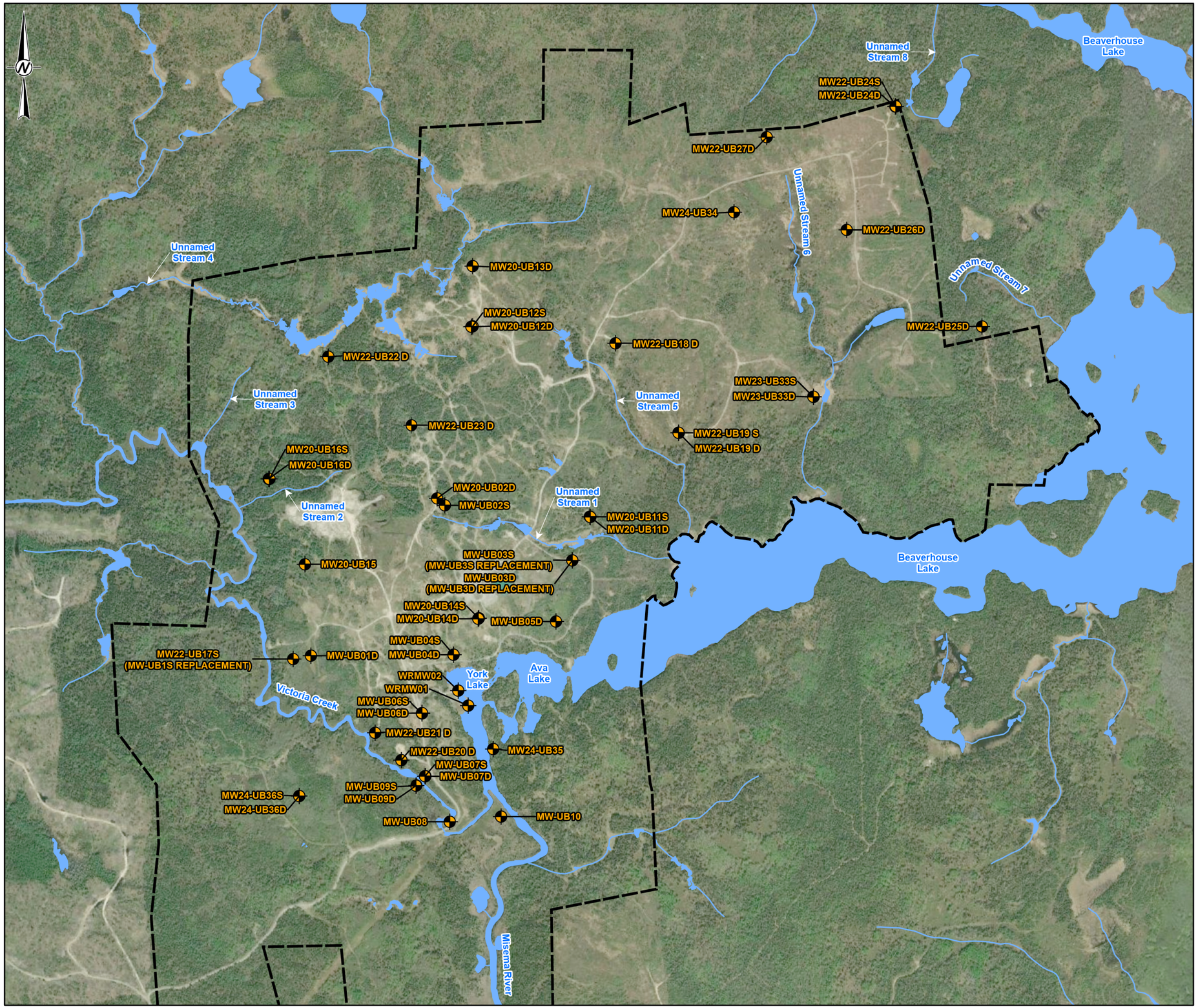

LEGEND

- PROPERTY BOUNDARY
- GROUNDWATER MONITORING LOCATION
- WATERCOURSE
- WATERBODY

0 125 250 500

1:15,000 METRES

NOTE(S)

1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)

1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. WATERBODIES AND WATERCOURSE EXTRACTED FROM LIO, MNRF AND MODIFIED TO MATCH SITE PLAN LAYOUT PROVIDED BY AGNICO EAGLE MINES; TO BE FIELD CONFIRMED.
3. BASE MAP: MAXAR
4. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
AGNICO EAGLE MINES

PROJECT
UPPER BEAVER GOLD PROJECT

TITLE
GROUNDWATER MONITORING NETWORK

CONSULTANT

wsp

YYYY-MM-DD	2025-08-29
DESIGNED	----
PREPARED	MD
REVIEWED	----
APPROVED	----

PROJECT NO.	CONTROL	REV.	FIGURE
CA0042150	0010	A	3-2

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4.0 RESULTS – SURFACE WATER

The surface water quality database is provided in Appendix C. To support discussion in this section, results have been grouped into the following general categories based on monitoring station location:

— Beaverhouse Lake

— Misema River (including Ava Lake and York Lake)

— Victoria Creek

— Unnamed Streams.

Water quality results are presented in Table 4-1 through Table 4-5. Time-series graphs for key parameters (including pH, sulphate, copper, cobalt, dissolved aluminum, lead, and mercury) are presented in Appendix D. These specific parameters are indicators of metal leaching / acid rock drainage processes (e.g., pH, sulphate) or were found to be above identified surface water quality guidelines at some locations in the baseline study area (e.g., copper), related to area geology and/or potentially associated with historical mining activities.

4.1 Beaverhouse Lake

Water quality monitoring occurred at the following locations Figure 3-1:

— BH2: at the north end of Beaverhouse Lake; samples were collected near surface (BH2S) and at depth (BH2D).

— BH1: located on Beaverhouse Lake, downstream of inflows from unnamed streams 1 and 2; samples were collected near surface (BH1S) and at depth (BH1D).

Since 2011, 159 water quality samples have been collected from Beaverhouse Lake (Table 4-1). Results indicate that Beaverhouse Lake exhibits typical characteristics of northern Ontario shield lakes: circumneutral pH, well-oxygenated water, moderate hardness (27.4 mg/L), and low concentrations of nutrients (ammonia, nitrate, nitrite) and anions (chloride, sulphate). Overall, Beaverhouse Lake has good water quality, with most monitored parameters below WQG PAL values, except in the following cases:

— Dissolved aluminum concentrations were greater than WQG PAL in 34% of samples, with concentrations similar at BH2 and BH1 sites.

— Copper concentrations were greater than WQG PAL at station BH1 in three samples in 2019 (corresponding to 2.5% of observations). Copper concentrations were less than WQG PAL in all samples collected from 2021 through 2023.

— Lead concentrations were greater than WQG PAL in four samples collected at depth (BH2D, BH1D) during the 2018 through 2021 field campaigns when the lakes were stratified (corresponding to 3.5% of observations). Lead concentrations were less than WQG PAL in all samples collected from 2021 through 2023.

The elevated concentrations of these parameters in Beaverhouse Lake most likely reflect natural conditions shaped by local geology and rock weathering processes. This is supported by observations of similarly elevated concentrations of dissolved aluminum, copper and lead in Howard Lake, which is upstream of historical mining activities. In areas with planned or proposed mining activities, naturally elevated concentrations of metals and other parameters in lakes and rivers are common. This occurs because the geological materials in these regions

often contain mineral-rich rocks. When these minerals are exposed to oxygen and water through natural weathering processes, they release trace metals and other elements into the surrounding groundwater and surface waters. Over time, this natural exposure results in higher baseline levels of certain metals in lakes and rivers.

4.2 Misema River

Misema River begins above Howard Lake, in Sullivan Lake. It flows through Misema Lake and subsequently Beaverhouse Lake, eventually widening into Ava Lake and York Lake before continuing its course southward (Figure 3-1). Water quality monitoring of the Misema River has occurred at the following locations:

— M1: at the outlet of Beaverhouse Lake to Ava Lake, upstream of historical mine features. Water quality of this station is representative of conditions of Ava Lake.

— M3: in York Lake adjacent to historical mine features and upstream of the proposed effluent discharge location. Water quality of this station will reflect influences of historical tailings and waste rock deposition.

— MX1: Misema River, downstream of Victoria Creek confluence; corresponds to the proposed effluent discharge location.

— M2: far field downstream monitoring station on the Misema River, located at the snowmobile bridge.

Since 2010, 263 water quality samples have been collected from the Misema River (Table 4-3). The results indicate that waters of the Misema River are circumneutral to slightly alkaline, well-oxygenated, with low average hardness (36 mg/L), and low concentrations of nutrients (ammonia, nitrate and nitrite) and anions (chloride and sulphate). Overall, the Misema River has good water quality, with most monitored parameters below WQG PAL values, except the following:

— Dissolved aluminum concentrations were greater than WQG PAL in 35% of observations, with concentrations relatively lower than upstream sites on Beaverhouse Lake, with the highest observed concentrations at station M1.

— Copper concentrations were greater than WQG PAL in approximately 10% of observations over the period of record (both upstream and downstream of historical mining activities, stations M1, M2 and M3).

— Phosphorus concentrations were greater than WQG PAL in approximately 7% of observations over the period of record (both upstream and downstream of historical mining activities, stations M1, M2, M3, M1X).

Water quality of station M1 is similar (within approximately 15%) to York Lake water quality (station M3), which has been influenced by historical tailings and waste rock deposition. Exceptions were noted for cobalt, copper and mercury, where 75th percentile concentrations at station M3 were elevated relative to the upstream station (M1), but still below WQG PAL (Table 4-3).

4.3 Victoria Creek

Victoria Creek originates at Victoria Lake, situated about 10 km to the west of the Property. Water quality monitoring on Victoria Creek occurred at the following locations (Figure 3-1):

— V1: at the outflow of Victoria Lake to Victoria Creek about 10 km upstream of the Project, upstream of the influence of historical mining activities.

— V2: Victoria Creek upstream of confluence with Little Larder Creek.

— V3F: downstream of the proposed Project infrastructure and Unnamed Watercourse US4, below the confluence with Little Larder Creek, reflecting influences of historical tailings deposition.

— VT1: tributary situated downstream of the proposed overburden pile and unnamed streams, downstream of the confluence with Little Larder Creek.

— V3: upstream of the confluence with the Misema River, provides information about the potential effects of the historical tailings areas on Victoria Creek water quality.

Since 2010, a total of 170 water quality samples have been collected from Victoria Creek (Table 3-2). The results indicate that Victoria Creek is circumneutral to slightly alkaline, well-oxygenated, with moderate average hardness (55 mg/L), and low concentrations of nutrients (ammonia, nitrate and nitrite) and anions (chloride and sulphate).

Some water quality parameters differ noticeably in Victoria Creek between upstream stations (V1 and V2) and downstream stations (V3F, VT1 and V3), likely related to natural mineralization near the proposed Project site as well as past mining activities associated with Upper Canada and Little Larder Lake tailings areas (Table 4-4, Appendix D). Little Larder Creek is a low-gradient, slow moving creek that is impounded at many points by wide beaver dams and connects Little Larder Lake to the eastern portion of Victoria Creek, with its confluence near and flowing into the Property boundary where the downstream stations are located. Upstream monitoring stations on Victoria Creek are of good water quality, with very low concentrations of total and dissolved metals. Concentrations of monitored parameters were below WQG PAL values at V1 and V2, except for total phosphorus, where the 95th percentile value (0.032 mg/L) was higher than the WQG PAL of 0.03 mg/L.

Concentrations of monitored parameters were elevated at stations downstream of Little Larder Creek (V3F, VT1 and V3) relative to upstream stations. The frequency of concentrations greater than WQG PAL was generally greatest at station VT1 located on a smaller tributary to Victoria Creek, noting much smaller available period of record and available dataset for this station. The following parameters are greater than WQG PAL in Victoria Creek:

— Total aluminum concentrations were greater than WQG PAL in 14% of samples.

— Dissolved aluminum concentrations were greater than WQG PAL in 9% of samples at Station V3, and 67% of samples at station VT1.

— Chromium concentrations were greater than WQG PAL in 35.8% of samples.

— Copper concentrations were greater than WQG PAL in 9% of samples.

— Iron concentrations were greater than WQG PAL in 13.4% of samples.

— Phosphorus concentrations were greater than WQG PAL in 13% of samples

— Zinc concentrations were greater than WQG PAL in two observations at station V3F (or 1% of samples).

4.4 Unnamed Streams

There are multiple unnamed streams in the area around the proposed Project, which are tributaries to Victoria Creek or the Misema River (Figure 3-1). The unnamed streams are generally shallow, low flow systems with large flats and significant ponding. Often there are no clear channelized connections (Appendix B). Beaver dams are also often present. Unnamed streams were monitored as follows:

— BG2: reference monitoring location located upgradient of Victoria Creek on unnamed stream 4

- US2: on Unnamed Stream 2, a tributary to Victoria Creek
- US4: on Unnamed Stream 4, a tributary to Victoria Creek, west of proposed TSF footprint, upstream of BG2
- US1: on Unnamed Stream 1, a tributary to Beaverhouse Lake (Misema River), downstream of proposed process plant
- US5: on Unnamed Stream 5, a tributary to Beaverhouse Lake (Misema River), downstream / within proposed TSF footprint
- US6: on Unnamed Stream 6, a tributary to Beaverhouse Lake (Misema River), downstream / within proposed TSF footprint
- US7: on Unnamed Stream 7, a tributary to Beaverhouse Lake (Misema River), east of proposed TSF footprint
- US8: on Unnamed Stream 8, a tributary to the Misema River upstream of Beaverhouse Lake, east of proposed TSF footprint
- US8 Pond: east of proposed TSF footprint
- US9: on Unnamed Stream 9, a tributary to the Misema River upstream of Beaverhouse Lake, north of proposed TSF footprint.

Since 2010 for station BG2 only and since 2021 for all other stations, 199 water quality samples have been collected in total from unnamed watercourses in the baseline study area. Sampling has generally occurred monthly when flow is present and the station can be safely accessed, noting that many of these unnamed streams freeze to bottom in the winter such that sampling is not possible.

Monitoring results indicate that unnamed streams are highly organic, circumneutral to slightly acidic pH, highly organic and iron-stained, and often have low oxygen levels (Table 4-5). Concentrations of nutrients (ammonia, nitrate, nitrite), anions (chloride, sulphate) and metals are higher in unnamed streams relative to the larger waterbodies in the baseline study area (Misema River and Beaverhouse Lake). The highest concentrations for most parameters were observed at station US1, a tributary to Misema River.

The following parameters are consistently greater than WQG PAL in unnamed streams (Table 4-5):

- Total phosphorus concentrations were consistently greater than WQG PAL at stations US1 and US5.
- Dissolved aluminum concentrations were greater than WQG PAL in 76.4% of samples and were generally similar across monitoring stations, including at the upstream reference station (BG2).
- Total aluminum concentrations were greater than WQG PAL at station US1.
- Copper concentrations were consistently greater than WQG PAL at station US1.
- Chromium concentrations were greater than WQG PAL in 40% of samples at station US5 and in 51.9% of samples at US6.
- Iron concentrations were greater than WQG PAL in 81% of samples. Iron concentrations are generally similar across monitoring stations, except at US8 and US9, where total iron concentrations were generally below WQG PAL.
- Lead concentrations were greater than WQG PAL in 4.9% of samples, with the highest concentrations generally associated with monitoring station US1.

— Zinc concentrations were greater than WQG PAL in 5.5% of samples, with the highest concentrations generally observed at monitoring stations US2 and US9.

4.5 Mercury Analyses

Concentrations of total and dissolved mercury are monitored at all sampling locations. These data are supplemented by an ultra-low detection mercury monitoring program, conducted at key sites in 2021, 2022, 2023 and 2024. Ultra-low detection mercury quantifies mercury at the nanogram (ng) level, allowing for assessment of seasonal variation and an overall improved understanding of very low mercury levels in the existing conditions. Concentrations of mercury can occur naturally, from geological deposits, rock weathering, and forest fire / wood burning. Mercury can also enter surface waters through long range transport of anthropogenic emissions (e.g., coal burning power plants).

Mercury concentrations were greater than WQG PAL (26 ng/L) in 20% of total mercury samples, with the highest concentrations generally associated with monitoring station US1. Dissolved mercury concentrations were generally lower than total mercury and range from 1.25 ng/L to 50 ng/L. Note that from 2010 to 2015, the detection limit for mercury was higher at 0.0001 mg/L, suggesting a potential overestimation of instances in which recorded values were above WQG PAL as the detection limit was above the identified guideline. Ultra-low-level analyses indicated that total mercury concentrations range from 1.25 ng/L to 109 ng/L, with an average concentration of 6.2 ng/L. Comparatively, only 2.5% of samples were greater than WQG PAL, and the greatest concentrations were associated with monitoring stations US1 and V3. Thus, results indicate that mercury and methylmercury concentrations in the Project Area at most monitoring stations are generally low.

Concentrations of methylmercury are very low across the baseline study area, with only 2.8% of methylmercury samples greater than WQG PAL (4 ng/L). Overall, when detected, methylmercury concentrations were generally less than 10% of total mercury and ranged from 0.04 ng/L to 10 ng/L, with an average concentration of 0.6 ng/L.

Table 4-1: Beaverhouse Lake Water Quality

Station		BH1S				BH1D				BH2S				BH2D			
Parameter	**WQG PAL**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**
Field pH (S.I. units)	6.5 - 8.5	43	7.23	7.52	7.80	38	7.14	7.37	7.68	35	7.20	7.40	7.70	31	7.05	7.37	7.60
Hardness (as $CaCO_3$)	-	42	25.0	28.0	30.7	37	25.5	29.0	32.3	33	23.1	26.3	29.0	31	23.3	26.2	29.1
Alkalinity, Total (as $CaCO_3$)	-	41	21.0	24.5	28.0	36	22.00	26.69	31.25	34	17.00	25.09	26.00	31	19.00	23.55	26.50
Total Suspended Solids	-	43	1.00	3.31	5.00	38	2.00	4.29	5.00	34	1.25	4.68	5.00	31	2.00	4.56	5.00
Dissolved Organic Carbon	-	21	11.0	12.1	13.1	21	10.6	11.5	11.9	19	10.8	11.8	12.7	19	10.6	11.8	12.9
Ammonia, Total (as N)	0.924	43	0.0100	0.0296	0.0500	38	0.010	0.032	0.045	33	0.010	0.033	0.050	31	0.010	0.030	0.050
Chloride	120	21	0.210	0.293	0.300	21	0.24	0.28	0.32	19	0.19	0.24	0.26	19	0.21	0.27	0.28
Cyanide, Total	-	43	0.001	0.0023	0.0025	38	0.001	0.0022	0.0025	34	0.001	0.0022	0.0025	31	0.001	0.0022	0.0025
Cyanide, Free	0.005	43	0.001	0.0013	0.001	38	0.001	0.0013	0.001	34	0.001	0.0014	0.001	31	0.001	0.0013	0.001
Fluoride	0.12	21	0.025	0.025	0.025	21	0.0250	0.0252	0.0250	19	0.0250	0.0253	0.0250	19	0.0250	0.0253	0.0250
Nitrate (as N)	3	22	0.025	0.093	0.1175	22	0.0525	0.1093	0.1575	20	0.0250	0.0660	0.0800	20	0.0250	0.0740	0.1000
Nitrite (as N)	0.06	22	0.01	0.015	0.0225	22	0.010	0.015	0.023	20	0.010	0.015	0.025	20	0.010	0.015	0.025
Sulphate	128	43	0.75	1.6	2.225	38	1.00	1.78	2.36	34	1.00	1.66	2.04	31	1.23	1.91	2.17
Phosphorus	0.02	9	0.0030	0.0178	0.0080	7	0.0030	0.0076	0.0100	8	0.0030	0.0079	0.0100	7	0.0030	0.0099	0.0100
Aluminum	1.1	41	0.071	0.099	0.12	36	0.101	0.126	0.145	31	0.071	0.101	0.130	29	0.077	0.108	0.140
Aluminum (dissolved)	0.075	41	0.0710	0.0990	0.120	38	0.0443	0.0658	0.0873	33	0.0390	0.0609	0.0810	31	0.0460	0.0642	0.0805
Antimony	0.02	28	0.00045	0.000502	0.0005	27	0.000475	0.000500	0.0005	25	0.00045	0.00052	0.0005	25	0.00045	0.00052	0.0005
Arsenic	0.005	43	0.0005	0.000674	0.0005	38	0.0005	0.0007	0.0007	34	0.0005	0.0008	0.0010	31	0.0005	0.0008	0.0013
Barium	-	28	0.0047075	0.015020	0.025	27	0.0050	0.0159	0.0250	25	0.0040	0.0157	0.0250	25	0.0047	0.0156	0.0250
Beryllium	0.011	28	0.0000165	0.000207	0.00025	27	0.00013	0.00021	0.00025	25	0.00001	0.00022	0.00025	25	0.00001	0.00022	0.00025
Boron	0.2	28	0.005	0.004786	0.005	27	0.0045	0.0047	0.0050	25	0.0050	0.0049	0.0050	25	0.0050	0.0051	0.0050
Cadmium	0.00005	43	0.000008	0.000034	0.00005	38	0.000008	0.000029	0.000050	34	0.000008	0.000040	0.000050	31	0.000008	0.000027	0.000050
Chromium	0.0089	28	0.000385	0.000743	0.0012	27	0.00048	0.00097	0.00125	25	0.00050	0.00081	0.00150	25	0.00050	0.00082	0.00150
Cobalt	0.00078	28	0.0000465	0.000165	0.00025	27	0.00008	0.00020	0.00025	25	0.00004	0.00011	0.00025	25	0.00005	0.00012	0.00025
Copper	0.005	43	0.001	0.001670	0.00165	38	0.00105	0.00175	0.00195	34	0.00100	0.00140	0.00160	31	0.00110	0.00165	0.00185
Iron	0.3	43	0.097	0.167	0.210	38	0.167	0.250	0.291	34	0.100	0.157	0.214	31	0.120	0.193	0.280
Lead	0.001	43	0.00005	0.00021035	0.00025	38	0.00010	0.00116	0.00050	34	0.00006	0.00021	0.00025	31	0.00010	0.00052	0.00050
Molybdenum	31	43	0.00025	0.00043372	0.0005	38	0.00025	0.00046	0.00050	34	0.00025	0.00048	0.00088	31	0.00025	0.00053	0.00100
Nickel	0.025	43	0.0005	0.00100698	0.0015	38	0.00050	0.00109	0.00150	34	0.00050	0.00112	0.00150	31	0.00050	0.00119	0.00150
Selenium	0.002	31	0.00011	0.00058935	0.001	27	0.000185	0.0004	0.0005	27	0.000105	0.000497	0.00075	25	0.00012	0.0004132	0.0005
Silver	0.00025	28	0.000025	0.000032	0.00005	27	0.000025	0.000032	0.000050	25	0.000025	0.000034	0.000050	25	0.000025	0.000034	0.000050
Strontium	2.5	28	0.01575	0.01901429	0.022	27	0.0165	0.0189	0.0211	25	0.0150	0.0167	0.0180	25	0.0150	0.0175	0.0190
Thallium	0.0003	28	0.0000025	0.0000632	0.0001125	27	0.000026	0.000065	0.000125	25	0.000003	0.000069	0.000150	25	0.000005	0.000069	0.000150
Vanadium	0.006	28	0.00038	0.00059	0.00100	27	0.00045	0.00060	0.00100	25	0.00050	0.00072	0.00100	25	0.00040	0.00063	0.00100
Zinc	0.02	43	0.002	0.0031	0.0025	38	0.0020	0.0053	0.0077	34	0.0020	0.0036	0.0025	31	0.0020	0.0055	0.0066
Mercury	0.000026	30	0.0000049	0.000026	0.00005	26	0.00000440	0.000025	0.00005	23	0.00000380	0.000022	0.00005	21	0.0000031	0.000019	0.00005
Mercury, Methyl	0.000004	13	0.0000001	0.0000001	0.0000002	13	0.00000011	0.00000029	0.00000022	10	0.00000006	0.00000012	0.00000015	10	0.00000010	0.00000014	0.00000015
Mercury, Ultra-low Level	0.000026	18	0.0000018	0.0000026	0.0000030	18	0.0000023	0.0000032	0.0000042	15	0.0000017	0.0000027	0.0000037	15	0.0000018	0.0000029	0.0000040

Notes:
All units are mg/L (unless otherwise indicated).
All reported values are for total concentrations, unless indicated otherwise (dissolved).
- indicates data not available.
WQG PAL: Water Quality Guideline for the protection of aquatic life as identified in Table 3.5.
Grey highlighted values are greater than WQG PAL.

Table 4-2: Howard Lake Water Quality

Station		H1S				H1D			
Parameter	**WQG PAL**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**
Field pH (S.I. units)	6.5 - 8.5	27	7.20	7.44	7.65	24	7.03	7.30	7.40
Hardness (as $CaCO_3$)	-	27	26.5	35.6	32.6	23	25.7	28.4	31.6
Alkalinity, Total (as $CaCO_3$)	-	27	22.0	26.3	29.0	23	22.50	26.70	29.00
Total Suspended Solids	-	27	1.00	2.74	5.00	23	2.00	4.15	5.00
Dissolved Organic Carbon	-	9	10.6	9.8	11.9	9	10.8	11.2	13.4
Ammonia, Total (as N)	0.924	27	0.0150	0.0336	0.0500	23	0.010	0.122	0.050
Chloride	120	9	0.310	0.366	0.420	9	0.29	0.34	0.41
Cyanide, Total	-	78	0.001	0.0027	0.005	23	0.001	0.0031	0.005
Cyanide, Free	0.005	27	0.001	0.002	0.0025	23	0.001	0.001	0.0025
Fluoride	0.12	9	0.025	0.025	0.025	9	0.0250	0.0250	0.0250
Nitrate (as N)	3	10	0.03375	0.105	0.17	10	0.0925	0.1185	0.1450
Nitrite (as N)	0.06	10	0.01	0.0135	0.01375	10	0.010	0.014	0.014
Sulphate	218	27	0.5	1.52	1.92	23	0.50	1.47	1.83
Phosphorus	0.02	5	0.003	0.0078	0.01	4	0.003	0.007	0.010
Aluminum	0.97	26	0.07525	0.10404	0.133	22	0.086	0.113	0.134
Aluminum (dissolved)	0.075	27	0.0425	0.06126	0.0745	23	0.051	0.065	0.080
Antimony	0.02	17	0.00045	0.00045	0.0005	16	0.00045	0.00047	0.0005
Arsenic	0.005	27	0.0005	0.00065	0.0005	23	0.0005	0.0007	0.0006
Barium	-	17	0.0034	0.0150	0.025	16	0.0036	0.0116	0.0250
Beryllium	0.011	17	0.000009	0.00015012	0.00025	16	0.00001	0.00016	0.00025
Boron	0.2	17	0.004	0.0116	0.005	16	0.0040	0.0046	0.0050
Cadmium	0.000052	27	0.000008	0.000027	0.00005	23	0.000008	0.000027	0.000050
Chromium	0.0089	17	0.0005	0.0008	0.0009	16	0.00051	0.00074	0.00083
Cobalt	0.00078	17	0.000038	0.00012	0.00011	16	0.00005	0.00016	0.00025
Copper	0.005	27	0.001	0.0014	0.0015	23	0.00115	0.00166	0.00165
Iron	0.3	27	0.1925	0.277	0.365	23	0.22	0.29	0.34
Lead	0.001	27	0.00005	0.000176	0.00025	23	0.00020	0.00092	0.00050
Molybdenum	31	27	0.00013	0.000342	0.0005	23	0.00017	0.00038	0.00050
Nickel	0.025	27	0.0005	0.000835	0.0015	23	0.00050	0.00091	0.00150
Selenium	0.002	20	0.00008	0.000506	0.0005	16	0.0000875	0.000287	0.00025
Silver	0.00025	17	0.000025	0.000029	0.000025	16	0.000025	0.000033	0.000025
Strontium	2.5	17	0.015	0.074	0.0183	16	0.0148	0.0163	0.0181
Thallium	0.0003	17	0.0000025	0.000045	0.00005	16	0.000003	0.000048	0.000050
Vanadium	0.006	17	0.00034	0.000518	0.0005	16	0.00036	0.00052	0.00050
Zinc	0.02	27	0.0015	0.002389	0.0025	23	0.0025	0.0049	0.0070
Mercury	0.000026	21	0.000005	0.000024	0.00005	18	0.00000500	0.000023	0.00005

Notes:
All units are mg/L (unless otherwise indicated).
All reported values are for total concentrations, unless indicated otherwise (dissolved).
- indicates data not available.
WQG PAL: Water Quality Guideline for the Protection of Aquatic Life, as identified in Table 3.5.
Grey highlighted values are greater than WQG PAL.

Table 4-3: Misema River Water Quality

Station		M1				M3				MX1				M2			
Parameter	**WQG PAL**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**
Field pH (S.I. units)	6.5 - 8.5	73	7.15	7.51	7.83	71	7.25	7.60	7.97	22	7.30	7.46	7.68	69	7.20	7.50	7.84
Hardness (as $CaCO_3$)	-	77	26.0	27.8	30.3	75	27.0	30.2	33.0	25	31.5	35.5	37.0	73	34.2	37.3	41.0
Alkalinity, Total (as $CaCO_3$)	-	76	22.0	28.5	28.0	73	24.00	26.86	30.00	25	27.00	31.84	34.00	73	30.00	33.40	36.00
Total Suspended Solids	-	78	1.00	2.88	5.00	75	1.00	4.29	5.00	25	5.00	4.88	5.00	74	2.00	3.64	5.00
Dissolved Organic Carbon	-	47	10.2	11.7	13.0	46	10.0	11.7	13.5	25	10.4	12.0	13.2	44	9.0	11.0	12.6
Ammonia, Total (as N)	0.924	78	0.0100	0.0340	0.0500	75	0.010	0.040	0.050	25	0.010	0.028	0.010	74	0.010	0.033	0.050
Chloride	120	43	0.235	0.440	0.500	42	0.24	0.47	0.50	25	0.68	0.92	1.03	39	0.93	1.26	1.41
Cyanide, Total	-	78	0.001	0.004	0.0025	75	0.001	0.0032	0.005	25	0.001	0.001	0.001	74	0.001	0.0029	0.005
Cyanide, Free	0.005	78	0.001	0.004	0.0025	75	0.001	0.004	0.0025	25	0.001	0.001	0.001	74	0.001	0.004	0.0025
Fluoride	0.12	32	0.025	0.025	0.025	31	0.0250	0.0252	0.0250	25	0.0250	0.0252	0.0250	30	0.0250	0.0253	0.0250
Nitrate (as N)	3	34	0.025	0.094	0.135	34	0.0250	0.1043	0.1200	25	0.0250	0.0708	0.0800	32	0.0250	0.0827	0.1025
Nitrite (as N)	0.06	34	0.01	0.013	0.01375	34	0.010	0.013	0.014	25	0.010	0.014	0.015	32	0.010	0.013	0.015
Sulphate	218	78	1	1.46	1.8075	75	1.00	1.59	2.04	25	2.23	2.79	3.20	74	1.00	17.05	3.16
Phosphorus	0.03	18	0.003	0.0104	0.01	18	0.003	0.012	0.016	12	0.003	0.009	0.010	18	0.003	0.015	0.013
Aluminum	1.2	62	0.0005	0.0748	0.13	73	0.083	0.135	0.154	23	0.099	0.139	0.155	71	0.096	0.142	0.152
Aluminum (dissolved)	0.075	78	0.0430	0.0711	0.0925	75	0.0405	0.0660	0.0855	25	0.0340	0.0583	0.0770	74	0.0418	0.0619	0.0798
Antimony	0.02	43	0.0005	0.0008	0.0015	57	0.00045	0.0004386	0.0005	25	0.0005	0.00054	0.0005	57	0.00045	0.00045	0.0005
Arsenic	0.005	48	0.0005	0.0029	0.0015	75	0.0005	0.0007	0.0005	25	0.0005	0.0010	0.0015	74	0.0005	0.0006	0.0005
Barium	-	30	0.025	0.0150	0.27825	57	0.0050	0.0138	0.0250	25	0.0110	0.0218	0.0250	57	0.0082	0.0152	0.0250
Beryllium	0.011	43	0.000215	0.0005	0.00025	57	0.00001	0.00016	0.00025	25	0.00025	0.00028	0.00025	57	0.00001	0.00016	0.00025
Boron	0.2	42	0.000025	0.0018	0.005	56	0.0030	0.0045	0.0050	25	0.0050	0.0056	0.0050	56	0.0040	0.0047	0.0050
Cadmium	0.000055	36	0.000008	0.0000	0.00005	75	0.000008	0.000023	0.000050	25	0.000008	0.000020	0.000050	74	0.000008	0.000025	0.000050
Chromium	0.0089	43	0.0000275	0.0004	0.0007	57	0.00048	0.00078	0.00099	25	0.00050	0.00090	0.00150	57	0.00047	0.00081	0.00090
Cobalt	0.00078	43	0.00005	0.0003	0.00025	57	0.00005	0.00013	0.00018	25	0.00006	0.00015	0.00025	57	0.00006	0.00012	0.00014
Copper	0.005	63	0.001	0.0018	0.00175	75	0.00159	0.00447	0.00295	25	0.00160	0.00197	0.00240	74	0.00150	0.00230	0.00200
Iron	0.3	78	0.1115	0.203090	0.26875	75	0.13	0.24	0.28	25	0.17	0.23	0.30	74	0.19	0.24	0.27
Lead	0.001	78	0.0000725	0.000331	0.00025	75	0.00006	0.00026	0.00025	25	0.00010	0.00023	0.00050	74	0.00007	0.00027	0.00025
Molybdenum	31	78	0.000165	0.000575	0.0005	75	0.00023	0.00060	0.00050	25	0.00050	0.00073	0.00100	74	0.00025	0.00045	0.00050
Nickel	0.025	78	0.0005	0.001012	0.0015	75	0.00050	0.00107	0.00150	25	0.00150	0.00158	0.00150	74	0.00050	0.00093	0.00150
Selenium	0.002	61	0.00009	0.000385	0.00025	60	0.00009	0.0004348	0.00025	25	0.00025	0.0005	0.0005	60	0.00009	0.00033	0.00025
Silver	0.00025	58	0.000025	0.000035	0.000025	57	0.000025	0.000032	0.000025	25	0.000025	0.000034	0.000050	57	0.000025	0.000031	0.000025
Strontium	2.5	58	0.016	0.018645	0.02	57	0.0187	0.0219	0.0230	25	0.0340	0.0435	0.0440	57	0.0390	0.0464	0.0510
Thallium	0.0003	57	0.0000025	0.000047	0.00005	57	0.000003	0.000044	0.000050	25	0.000050	0.000080	0.000150	57	0.000003	0.000042	0.000050
Vanadium	0.006	58	0.0003	0.00052	0.0005	57	0.00032	0.00051	0.00050	25	0.00050	0.00067	0.00100	57	0.00037	0.00055	0.00050
Zinc	0.02	78	0.002	0.003064	0.002875	75	0.0020	0.0032	0.0035	25	0.0020	0.0029	0.0025	74	0.0020	0.0032	0.0030
Mercury	0.000026	62	0.000005	0.00002	0.00005	60	0.00000500	0.00002206	0.00005	14	0.00000156	0.00000673	0.00000463	60	0.00000500	0.00001985	0.00005
Mercury, Methyl	0.000004	15	0.00000011	0.00000013	0.00000017	1	-	0.00000013	-	11	0.00000010	0.00000012	0.00000015	2	-	0.00000013	-
Mercury, Ultra-low Level	0.000026	27	0.0000019	0.0000031	0.0000046	16	0.00000125	0.0000063	0.00000755	19	0.00000195	0.0000030	0.00000380	17	0.00000260	0.0000036	0.00000430

Notes:
All units are mg/L (unless otherwise indicated).
All reported values are for total concentrations, unless indicated otherwise (dissolved).
- indicates data not available.
WQG PAL: Water Quality Guideline for the Protection of Aquatic Life, as identified in Table 3.5.
Grey highlighted values are greater than WQG PAL.

Table 4-4: Victoria Creek Water Quality, *table continues*

Station		V1				V2				V3				V3F			
Parameter	**WQG PAL**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**
Field pH (S.I. units)	6.5 - 8.5	42	7.30	7.67	8.03	32	7.29	7.72	8.17	69	7.38	7.60	7.90	12	7.55	7.59	7.76
Hardness (as $CaCO_3$)	-	41	43.0	46.0	50.0	33	42.7	46.4	51.0	69	96	113	126	10	42.2	50.9	56.3
Alkalinity, Total (as $CaCO_3$)	-	39	37.5	40.7	44.0	31	38.00	42.39	46.50	68	40	45	51	10	37.00	46.40	56.00
Total Suspended Solids	-	41	1.00	2.44	3.00	33	1.00	4.12	5.00	69	3.0	7.3	5.0	10	5.00	5.00	5.00
Dissolved Organic Carbon	-	11	9.4	10.0	11.6	10	9.0	10.4	11.5	40	9.0	11.4	12.3	10	9.3	10.6	11.8
Ammonia, Total (as N)	0.924	41	0.0250	0.0318	0.0500	33	0.025	0.035	0.050	69	0.01	0.035	0.05	10	0.010	0.010	0.010
Chloride	120	11	2.670	2.817	3.120	11	2.67	2.88	3.13	39	2.1	2.4	2.7	10	2.21	2.44	2.63
Cyanide, Total	-	41	0.0025	0.0028	0.005	33	0.001	0.0029	0.005	69	0.001	0.0026	0.005	10	0.001	0.0010	0.001
Cyanide, Free	0.005	41	0.001	0.004	0.0025	33	0.001	0.004	0.0025	69	0.001	0.0043	0.0025	10	0.001	0.001	0.001
Fluoride	0.12	11	0.025	0.025	0.025	11	0.0250	0.0255	0.0250	31	0.025	0.025	0.025	10	0.0250	0.0250	0.0250
Nitrate (as N)	3	11	0.025	0.043	0.07	11	0.0250	0.0441	0.0550	33	0.025	0.082	0.10	10	0.0250	0.0380	0.0250
Nitrite (as N)	0.06	11	0.01	0.0132	0.0125	11	0.010	0.013	0.013	33	0.01	0.013	0.015	10	0.010	0.013	0.010
Sulphate	218	41	0.5	1.905	3.36	33	0.50	2.46	3.59	69	3.0	4.6	6.0	10	3.68	4.30	4.45
Phosphorus	0.03	6	0.00475	0.00917	0.0115	6	0.010	0.010	0.012	17	0.003	0.022	0.029	5	0.010	0.019	0.030
Aluminum	1.5	39	0.058	0.07490	0.0865	33	0.050	0.081	0.079	66	0.089	0.19	0.18	9	0.097	0.221	0.177
Aluminum (dissolved)	0.075	41	0.021	0.03093	0.04	33	0.019	0.031	0.041	69	0.026	0.042	0.051	10	0.01775	0.0346	0.04875
Antimony	0.02	21	0.00045	0.00042	0.0005	19	0.00045	0.00044	0.0005	50	0.00045	0.0005	0.0005	10	0.0005	0.0005	0.0005
Arsenic	0.005	41	0.0005	0.00063	0.0005	33	0.0005	0.0007	0.0005	69	0.0005	0.00076	0.0006	10	0.0005	0.0009	0.0014
Barium	-	21	0.0127	0.01502	0.025	19	0.0119	0.0170	0.0250	50	0.015	0.021	0.025	10	0.0205	0.0302	0.0250
Beryllium	0.011	21	0.0000035	0.00013	0.00025	19	0.00000	0.00015	0.00025	50	0.000007	0.00020	0.00025	10	0.00025	0.00028	0.00025
Boron	0.2	21	0.003	0.00552	0.005	19	0.0030	0.0045	0.0050	49	0.005	0.0054	0.005	10	0.0050	0.0050	0.0050
Cadmium	0.000081	41	0.000008	0.00004	0.00005	33	0.000008	0.000030	0.000050	69	0.000008	0.000036	0.00005	10	0.000008	0.000028	0.000050
Chromium	0.0089	21	0.00025	0.00055	0.00045	19	0.00028	0.00062	0.00070	50	0.0005075	0.00095	0.0015	10	0.00053	0.00192	0.00150
Cobalt	0.00078	21	0.000034	0.000095	0.00007	19	0.00005	0.00011	0.00014	50	0.000081	0.00017	0.00025	10	0.00009	0.00028	0.00025
Copper	0.005	41	0.0005	0.00112	0.0012	33	0.00080	0.00112	0.00130	69	0.0012	0.0021	0.0021	10	0.00103	0.00235	0.00168
Iron	0.3	41	0.1	0.13	0.17	33	0.11	0.26	0.20	69	0.20	0.30	0.30	10	0.20	0.32	0.30
Lead	0.003	41	0.00005	0.00019	0.00025	33	0.00005	0.00021	0.00025	69	0.0001	0.00024	0.00025	10	0.00013	0.00036	0.00050
Molybdenum	31	41	0.00025	0.00036	0.0005	33	0.00025	0.00036	0.00050	69	0.00025	0.00054	0.0005	10	0.00050	0.00065	0.00088
Nickel	0.025	41	0.0004	0.00071	0.001	33	0.00050	0.00080	0.00150	69	0.0005	0.0011	0.0015	10	0.00150	0.00195	0.00150
Selenium	0.002	23	0.00008	0.00036	0.00025	20	0.00007	0.00044	0.00025	53	0.00009	0.00036	0.0005	10	0.00025	0.000425	0.0004375
Silver	0.00025	21	0.000025	0.00003	0.000025	19	0.000025	0.000037	0.000025	50	0.000025	0.000033	0.000025	10	0.000025	0.000043	0.000050
Strontium	2.5	21	0.0585	0.06099	0.0657	19	0.0561	0.0601	0.0634	50	0.077	0.091	0.10	10	0.0733	0.0834	0.0890
Thallium	0.0003	21	0.0000025	0.00004	0.00005	19	0.000003	0.000043	0.000050	50	0.0000025	0.000052	0.00005	10	0.000050	0.000080	0.000125
Vanadium	0.006	21	0.00032	0.00049	0.0005	19	0.00040	0.00052	0.00050	50	0.0005	0.00067	0.00098	10	0.00050	0.00110	0.00100
Zinc	0.02	41	0.002	0.0028	0.0025	33	0.0020	0.0030	0.0030	69	0.0025	0.011	0.0062	10	0.0020	0.0388	0.0025
Mercury	0.000026	36	0.000005	0.00003	0.00005	27	0.00000500	0.0000276	0.00005	52	0.0000045	0.000024	0.00005	5	0.00000125	0.00000242	0.00000340
Mercury, Methyl	0.000004	0	-	-	-	0	-	-	-	1	-	0.00000019	-	0	-	-	-
Mercury, Ultra-low Level	0.000026	5	0.0000013	0.0000025	0.0000031	5	0.0000013	0.0000038	0.0000044	16	0.0000013	0.0000053	0.0000031	5	0.00000125	0.00000242	0.00000340

Notes:
All units are mg/L (unless otherwise indicated).
- indicates data not available.
All reported values are for total concentrations, unless indicated otherwise (dissolved).
WQG PAL: Water Quality Guideline for the Protection of Aquatic Life, as identified in Table 3.5.
Grey highlighted values are greater than WQG PAL.

Station		VT1			
Parameter	**WQG PAL**	**Count**	**25th**	**Average**	**75th**
Field pH (S.I. units)	6.5 - 8.5	7	7.54	7.66	7.785
Hardness (as $CaCO_3$)	-	5	47.1	67.2	79.9
Alkalinity, Total (as $CaCO_3$)	-	6	41.3	56.8	72.0
Total Suspended Solids	-	6	5	33.3	40
Dissolved Organic Carbon	-	6	14.3	17.9	22.6
Ammonia, Total (as N)	0.924	6	0.01	0.015	0.0175
Chloride	120	6	0.288	1.08	1.93
Cyanide, Total	-	6	0.001	0.001	0.001
Cyanide, Free	0.005	6	0.001	0.001	0.001
Fluoride	0.12	6	0.025	0.025	0.025
Nitrate (as N)	3	6	0.059	0.175	0.28
Nitrite (as N)	0.06	6	0.01	0.01	0.01
Sulphate	218	6	2.81	3.33	3.8
Phosphorus	0.03	4	0.0093	0.109	0.11
Aluminum	1.5	6	0.146	1.53	2.77
Aluminum (dissolved)	0.075	6	0.067	0.157	0.211
Antimony	0.02	6	0.0005	0.0005	0.0005
Arsenic	0.005	6	0.0005	0.00075	0.000875
Barium	-	6	0.025	0.022	0.025
Beryllium	0.011	6	0.00025	0.000292	0.00025
Boron	0.2	6	0.005	0.005	0.005
Cadmium	0.000081	6	0.000013	0.000032	0.000046
Chromium	0.0089	6	0.00155	0.004575	0.00738
Cobalt	0.00078	6	0.000125	0.000838	0.00136
Copper	0.005	6	0.00135	0.0034	0.0055
Iron	0.3	6	0.341	1.59	2.45
Lead	0.003	6	0.000175	0.00074	0.0011
Molybdenum	31	6	0.0005	0.000583	0.0005
Nickel	0.025	6	0.0015	0.00333	0.00488
Selenium	0.002	6	0.00025	0.000291	0.00025
Silver	0.00025	6	0.000025	0.000038	0.000044
Strontium	2.5	6	0.042	0.052	0.06
Thallium	0.0003	6	0.00005	0.000067	0.00005
Vanadium	0.006	5	0.0005	0.0034	0.006
Zinc	0.02	6	0.002	0.00617	0.00925
Mercury	0.000026	4	0.0000035	0.0000049	0.0000058
Mercury, Methyl	0.000004	4	0.00000013	0.00000015	0.00000019
Mercury, Ultra-low Level	0.000026	6	0.0000043	0.0000058	0.0000085

Notes:
All units are mg/L (unless otherwise indicated).
- indicates data not available.
All reported values are for total concentrations, unless indicated otherwise (dissolved).
WQG PAL: Water Quality Guideline for the Protection of Aquatic Life, as identified in Table 3.5.
Grey highlighted values are greater than WQG PAL.

Table 4-5: Unnamed Streams Water Quality, *table continues*

Station		BG2				US1				US2				US4			
Parameter	**WQG PAL**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**
Field pH (S.I. units)	6.5 - 8.5	53	6.90	7.40	7.80	27	6.89	7.16	7.50	23	6.97	7.38	7.66	9	7.19	7.40	7.82
Hardness (as $CaCO_3$)	-	51	27.9	35.8	42.9	27	47.5	82.9	105.0	20	43.1	59.1	65.8	7	20.1	23.2	24.1
Alkalinity, Total (as $CaCO_3$)	-	49	24.0	32.0	36.0	28	41.75	77.91	101.25	21	41.00	55.05	68.00	7	16.50	21.71	24.50
Total Suspended Solids	-	51	2.50	6.62	5.00	28	5.00	29.29	21.00	21	5.00	9.14	5.00	7	5.00	6.29	5.00
Dissolved Organic Carbon	-	25	13.7	17.6	21.9	28	20.6	25.8	32.3	21	14.0	21.1	25.4	7	12.2	12.7	14.8
Ammonia, Total (as N)	0.924	51	0.0100	0.0924	0.0500	28	0.010	0.141	0.085	21	0.030	0.089	0.090	7	0.010	0.021	0.015
Chloride	120	24	0.208	0.423	0.445	28	0.48	1.24	1.29	20	0.27	0.44	0.42	7	0.14	0.18	0.21
Cyanide, Total	-	51	0.001	0.0033	0.001	28	0.001	0.0011	0.001	21	0.001	0.0012	0.001	7	0.001	0.0010	0.001
Cyanide, Free	0.005	51	0.001	0.003	0.001	28	0.001	0.001	0.001	21	0.001	0.001	0.001	7	0.001	0.0010	0.001
Fluoride	0.12	24	0.025	0.025	0.025	28	0.0250	0.0252	0.0250	21	0.0250	0.0252	0.0250	7	0.0250	0.0250	0.0250
Nitrate (as N)	3	25	0.025	0.122	0.21	28	0.0250	0.0986	0.0625	21	0.0250	0.0831	0.0600	7	0.0250	0.0786	0.1150
Nitrite (as N)	0.06	25	0.01	0.014	0.015	28	0.010	0.013	0.011	21	0.010	0.015	0.025	7	0.010	0.010	0.010
Sulphate	218	51	0.5	7.235	1.505	28	1.63	3.78	4.39	21	1.55	2.95	3.31	7	0.93	1.10	1.30
Phosphorus	0.03	10	0.005	0.026	0.027	12	0.010	0.034	0.045	7	0.009	0.015	0.017	5	0.007	0.009	0.010
Aluminum	1	48	0.11575	0.20408333	0.245	26	0.285	1.06	1.55	19	0.311	0.473	0.652	7	0.095	0.116	0.144
Aluminum (dissolved)	0.075	51	0.067	0.109	0.139	28	0.074	0.226	0.273	21	0.102	0.273	0.426	7	0.066	0.085	0.107
Antimony	0.02	34	0.00045	0.00046	0.0005	28	0.0005	0.000570	0.0005	21	0.0005	0.0005	0.0005	7	0.0005	0.0005	0.0005
Arsenic	0.005	51	0.0005	0.00074	0.00065	28	0.0005	0.0013	0.0016	21	0.0005	0.0009	0.0015	7	0.0005	0.0006	0.0005
Barium	-	34	0.0061	0.015	0.0250	28	0.0250	0.0335	0.0275	21	0.0200	0.0226	0.0250	7	0.0250	0.0219	0.0250
Beryllium	0.011	34	0.0000	0.0002	0.0003	28	0.0003	0.0003	0.0003	21	0.0003	0.0003	0.0003	7	0.0003	0.0003	0.0003
Boron	0.2	34	0.005	0.0050	0.005	28	0.0050	0.0066	0.0050	21	0.0050	0.0049	0.0050	7	0.0050	0.0050	0.0050
Cadmium	0.000058	51	0.000008	0.000033	0.00005	28	0.000021	0.000032	0.000050	21	0.000023	0.000034	0.000050	7	0.000008	0.000014	0.000008
Chromium	0.0089	34	0.00060	0.00108	0.00150	28	0.00150	0.00414	0.00445	21	0.00150	0.00159	0.00160	7	0.00043	0.00087	0.00140
Cobalt	0.00078	34	0.00013	0.00024	0.00025	28	0.00069	0.00191	0.00229	21	0.00025	0.00050	0.00060	7	0.00013	0.00022	0.00029
Copper	0.005	51	0.0010	0.0015	0.0020	28	0.0088	0.0160	0.0220	21	0.00150	0.00211	0.00300	7	0.00100	0.00126	0.00150
Iron	0.3	51	0.3	0.48	0.514	28	1.30	2.49	3.13	21	0.62	1.80	1.56	7	0.15	0.28	0.37
Lead	0.003	51	0.0001	0.00022	0.00025	28	0.00038	0.00080	0.00080	21	0.00020	0.00033	0.00050	7	0.00008	0.00017	0.00020
Molybdenum	31	51	0.00025	0.000415	0.0005	28	0.00100	0.00412	0.00600	21	0.00050	0.00066	0.00100	7	0.00050	0.00057	0.00050
Nickel	0.025	51	0.00055	0.0067	0.0015	28	0.00150	0.00304	0.00350	21	0.00150	0.00155	0.00150	7	0.00150	0.00150	0.00150
Selenium	0.002	37	0.00012	0.00057	0.001	28	0.00025	0.000453	0.000625	21	0.00025	0.00085	0.001	7	0.00025	0.00029	0.00025
Silver	0.00025	34	0.000025	3.01E-05	0.000025	28	0.000025	0.000042	0.000050	21	0.000025	0.000033	0.000050	7	0.000025	0.000029	0.000025
Strontium	2.5	33	0.014	0.01866	0.021	28	0.0540	0.0819	0.1103	19	0.0250	0.0373	0.0435	7	0.0100	0.0119	0.0120
Thallium	0.0003	34	5.25E-06	5.55E-05	0.00005	28	0.000050	0.000082	0.000150	21	0.000050	0.000081	0.000150	7	0.000050	0.000064	0.000050
Vanadium	0.006	33	0.0005	0.00070303	0.001	28	0.00200	0.00306	0.00300	19	0.00089	0.00094	0.00100	7	0.00050	0.00057	0.00050
Zinc	0.02	51	0.002	0.00356863	0.003	28	0.0020	0.0071	0.0100	21	0.0080	0.0143	0.0220	7	0.0020	0.0034	0.0030
Mercury	0.000026	34	0.000005	0.0000249	0.00005	14	0.00001363	0.00002536	0.00002250	7	0.00000515	0.00000566	0.00000700	5	0.00000125	0.00000370	0.00000370
Mercury, Methyl	0.000004	16	0.00000016	0.00000025	0.00000033	17	0.0000012	0.0000035	0.0000055	12	0.00000018	0.00000031	0.00000040	5	0.00000014	0.00000018	0.00000019
Mercury, Ultra-low Level	0.000026	19	0.0000028	0.0000037	0.0000043	25	0.000016	0.000028	0.000028	17	0.0000026	0.0000053	0.0000078	7	0.0000021	0.0000037	0.0000041

Notes:
All units are mg/L (unless otherwise indicated).
- indicates data not available.
All reported values are for total concentrations, unless indicated otherwise (dissolved).
WQG PAL: Water Quality Guideline for the Protection of Aquatic Life, as identified in Table 3.5.
Grey highlighted values are greater than WQG PAL.

Station		US5				US6			
Parameter	**WQG PAL**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**
Field pH (S.I. units)	6.5 - 8.5	19	6.95	7.29	7.75	29	6.30	6.72	7.10
Hardness (as $CaCO_3$)	-	18	62.1	75.9	88.4	26	22.9	33.8	41.5
Alkalinity, Total (as $CaCO_3$)	-	20	60.00	73.30	84.75	27	14.50	29.93	41.50
Total Suspended Solids	-	20	8.75	28.25	28.50	27	5.00	13.44	5.00
Dissolved Organic Carbon	-	20	14.8	17.7	20.9	27	22.2	30.0	37.2
Ammonia, Total (as N)	0.924	20	0.010	0.039	0.053	27	0.025	0.133	0.250
Chloride	120	20	0.35	0.86	0.76	27	0.20	0.32	0.32
Cyanide, Total	-	20	0.001	0.001	0.001	27	0.001	0.0014	0.0015
Cyanide, Free	0.005	20	0.001	0.001	0.001	27	0.001	0.0011	0.001
Fluoride	0.12	20	0.0250	0.0253	0.0250	27	0.0250	0.0252	0.0250
Nitrate (as N)	3	20	0.0600	0.1403	0.1400	27	0.0250	0.1459	0.1650
Nitrite (as N)	0.06	20	0.010	0.015	0.025	27	0.010	0.014	0.013
Sulphate	218	20	1.23	2.28	2.24	27	0.57	0.84	0.93
Phosphorus	0.03	6	0.017	0.043	0.056	11	0.006	0.020	0.030
Aluminum	1	18	0.841	2.12	2.86	25	0.425	0.675	0.797
Aluminum (dissolved)	0.075	20	0.031	0.148	0.155	27	0.304	0.458	0.637
Antimony	0.02	20	0.0005	0.0006	0.0005	27	0.0005	0.00052	0.0005
Arsenic	0.005	20	0.0005	0.0012	0.0015	27	0.0005	0.0012	0.0015
Barium	-	20	0.0245	0.0706	0.0717	27	0.0105	0.0207	0.0250
Beryllium	0.011	20	0.0003	0.0003	0.0003	27	0.0003	0.0003	0.0003
Boron	0.2	20	0.0050	0.0073	0.0063	27	0.0050	0.0051	0.0050
Cadmium	0.000058	20	0.000024	0.000039	0.000050	27	0.000045	0.000050	0.000053
Chromium	0.0089	20	0.00178	0.00487	0.00700	27	0.00150	0.00193	0.00215
Cobalt	0.00078	20	0.00041	0.00092	0.00114	27	0.00035	0.00134	0.00141
Copper	0.005	20	0.00200	0.00344	0.00400	27	0.00195	0.00234	0.00300
Iron	0.3	20	0.88	2.34	2.62	27	0.90	2.34	2.76
Lead	0.003	20	0.00040	0.00082	0.00085	27	0.00030	0.00042	0.00050
Molybdenum	31	20	0.00050	0.00078	0.00100	27	0.00050	0.00065	0.00100
Nickel	0.025	20	0.00150	0.00338	0.00500	27	0.00150	0.00180	0.00150
Selenium	0.002	20	0.00025	0.0006675	0.001	27	0.00025	0.0005319	0.00075
Silver	0.00025	20	0.000025	0.000050	0.000050	27	0.000025	0.000033	0.000050
Strontium	2.5	19	0.0380	0.0444	0.0510	26	0.0153	0.0211	0.0265
Thallium	0.0003	20	0.000050	0.000099	0.000150	27	0.000050	0.000080	0.000150
Vanadium	0.006	19	0.00100	0.00299	0.00400	26	0.00100	0.00175	0.00200
Zinc	0.02	20	0.0036	0.0075	0.0100	27	0.0050	0.0077	0.0100
Mercury	0.000026	8	0.00000273	0.00001199	0.00001373	12	0.00000593	0.00000903	0.00000965
Mercury, Methyl	0.000004	11	0.00000029	0.00000031	0.00000036	18	0.00000036	0.00000086	0.00000085
Mercury, Ultra-low Level	0.000026	17	0.0000029	0.0000059	0.00000750	24	0.00000540	0.0000082	0.00000925

Notes:
All units are mg/L (unless otherwise indicated).
- indicates data not available.
All reported values are for total concentrations, unless indicated otherwise (dissolved).
WQG PAL: Water Quality Guideline for the Protection of Aquatic Life, as identified in Table 3.5.
Grey highlighted values are greater than WQG PAL.

Station		US7				US8				U8 Pond				US9			
Parameter	**WQG PAL**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**	**Count**	**25th**	**Average**	**75th**
Field pH (S.I. units)	6.5 - 8.5	9	5.80	5.92	6.10	9	5.65	5.92	6.00	10	6.23	6.50	6.65	5	5.50	5.62	5.60
Hardness (as $CaCO_3$)	-	7	13.4	15.0	16.9	6	9.3	10.9	12.3	7	10.8	13.3	14.3	5	8.5	9.4	10.2
Alkalinity, Total (as $CaCO_3$)	-	8	8.50	9.75	11.00	7	7.00	7.64	8.50	8	6.75	10.13	9.00	5	2.50	4.70	6.00
Total Suspended Solids	-	8	5.00	11.25	18.00	7	5.00	6.43	5.00	8	5.00	8.63	14.00	5	5.00	5.00	5.00
Dissolved Organic Carbon	-	8	16.5	19.7	23.2	7	12.3	14.1	15.4	8	14.0	15.2	17.0	5	16.9	17.6	17.4
Ammonia, Total (as N)	0.924	8	0.010	0.034	0.050	7	0.070	0.167	0.245	8	0.010	0.080	0.055	5	0.010	0.010	0.010
Chloride	120	8	0.18	0.25	0.28	7	0.13	0.13	0.15	8	0.05	0.12	0.13	5	0.13	0.17	0.18
Cyanide, Total	-	8	0.001	0.0010	0.001	7	0.001	0.0010	0.001	8	0.001	0.001	0.001	5	0.001	0.0010	0.001
Cyanide, Free	0.005	8	0.001	0.0010	0.001	7	0.001	0.0010	0.001	8	0.001	0.001	0.001	5	0.001	0.001	0.001
Fluoride	0.12	8	0.0250	0.0250	0.0250	7	0.0250	0.0250	0.0250	8	0.0250	0.0250	0.0250	5	0.0250	0.0250	0.0250
Nitrate (as N)	3	8	0.0250	0.0844	0.0975	7	0.0250	0.0429	0.0600	8	0.0250	0.0275	0.0250	5	0.0250	0.1380	0.1800
Nitrite (as N)	0.06	8	0.010	0.010	0.010	7	0.010	0.010	0.010	7	0.010	0.010	0.010	5	0.010	0.010	0.010
Sulphate	128	8	0.66	0.87	0.84	7	0.35	0.64	0.93	8	0.76	0.92	1.15	5	1.20	1.30	1.48
Phosphorus	0.03	4	0.008	0.012	0.014	4	0.008	0.017	0.020	4	0.003	0.005	0.005	3	0.005	0.013	0.019
Aluminum	1	7	0.399	0.534	0.708	6	0.171	0.196	0.206	7	0.130	0.139	0.151	5	0.268	0.315	0.326
Aluminum (dissolved)	0.075	8	0.380	0.449	0.535	7	0.139	0.168	0.197	8	0.084	0.106	0.129	5	0.268	0.315	0.326
Antimony	0.02	8	0.0005	0.0005	0.0005	7	0.0005	0.0005	0.0005	8	0.0005	0.0005	0.0005	5	0.0005	0.0005	0.0005
Arsenic	0.005	8	0.0005	0.0006	0.0005	7	0.0005	0.0010	0.0010	8	0.0005	0.0006	0.0005	5	0.0005	0.0007	0.0005
Barium	-	8	0.0250	0.0226	0.0250	7	0.0250	0.0221	0.0250	8	0.0250	0.0224	0.0250	5	0.0250	0.0206	0.0250
Beryllium	0.011	8	0.0003	0.0003	0.0003	7	0.0003	0.0003	0.0003	8	0.00025	0.00028	0.00025	5	0.00025	0.00030	0.00025
Boron	0.2	8	0.0050	0.0050	0.0050	7	0.0050	0.0050	0.0050	8	0.0050	0.0050	0.0050	5	0.0050	0.0050	0.0050
Cadmium	0.00004	8	0.000018	0.000024	0.000027	7	0.000012	0.000021	0.000024	8	0.000008	0.000016	0.000013	5	0.000026	0.000034	0.00004
Chromium	0.0089	8	0.00128	0.00158	0.00173	7	0.00070	0.00081	0.00085	8	0.00025	0.00062	0.00073	5	0.00130	0.00198	0.00150
Cobalt	0.00078	8	0.00020	0.00047	0.00049	7	0.00023	0.00045	0.00046	8	0.00011	0.00020	0.00024	5	0.00018	0.00024	0.00025
Copper	0.001	8	0.00163	0.00241	0.00298	7	0.00110	0.00126	0.00155	8	0.00125	0.00136	0.00145	5	0.00120	0.00156	0.00190
Iron	0.3	8	0.43	0.84	0.98	7	0.40	0.55	0.74	8	0.11	0.19	0.20	5	0.27	0.29	0.30
Lead	0.001	8	0.00010	0.00020	0.00023	7	0.00020	0.00026	0.00025	8	0.00010	0.00019	0.00020	5	0.00030	0.00036	0.00040
Molybdenum	31	8	0.00050	0.00056	0.00050	7	0.00050	0.00079	0.00075	8	0.00050	0.00088	0.00063	5	0.00050	0.00060	0.00050
Nickel	0.025	8	0.00150	0.00150	0.00150	7	0.00150	0.00150	0.00150	8	0.00150	0.00150	0.00150	5	0.00150	0.00150	0.00150
Selenium	0.002	8	0.00025	0.000281	0.00025	7	0.00025	0.000357	0.00025	8	0.00025	0.0003	0.00025	5	0.00025	0.0003	0.00025
Silver	0.00025	8	0.000025	0.000028	0.000025	7	0.000025	0.000029	0.000025	8	0.000025	0.000028	0.000025	5	0.000025	0.000030	0.000025
Strontium	2.5	7	0.0130	0.0140	0.0150	6	0.0053	0.0068	0.0080	7	0.0050	0.0059	0.0060	5	0.0060	0.0062	0.0070
Thallium	0.0003	8	0.000050	0.000063	0.000050	7	0.000050	0.000064	0.000050	8	0.000050	0.000063	0.000050	5	0.000050	0.000070	0.000050
Vanadium	0.006	7	0.00075	0.00171	0.00250	6	0.00050	0.00058	0.00050	7	0.00050	0.00057	0.00050	5	0.00050	0.00060	0.00050
Zinc	0.02	8	0.0020	0.0044	0.0055	7	0.0020	0.0037	0.0040	8	0.0020	0.0040	0.0050	5	0.0020	0.0410	0.0020
Mercury (Hg)	0.000026	4	0.00000623	0.00000648	0.00000790	4	0.00000256	0.00000331	0.00000410	4	0.00000125	0.00000273	0.00000420	3	0.00000590	0.00000647	0.00000705
Mercury, Methyl	0.000004	6	0.00000031	0.00000056	0.00000087	5	0.00000025	0.00000033	0.00000043	3	0.00000022	0.00000032	0.00000037	3	-	0.00000010	-
Mercury, Ultra-low Level	0.000026	7	0.00000675	0.0000067	0.00000775	6	0.00000278	0.0000032	0.00000360	4	0.0000013	0.0000027	0.0000042	5	0.00000650	0.0000073	0.0000076

Notes:
All units are mg/L (unless otherwise indicated).
All reported values are for total concentrations, unless indicated otherwise (dissolved).
- indicates data not available.
WQG PAL: Water Quality Guideline for the Protection of Aquatic Life, as identified in Table 3.5.
Grey highlighted values are greater than WQG PAL.

5.0 RESULTS – GROUNDWATER

The groundwater quality database is presented in Appendix E. Over 500 groundwater quality samples have been collected since 2018. Summary statistics are presented in Table 5-1 to provides an indication of the natural range in baseline groundwater quality. Groundwater quality results for dissolved concentrations are compared to Table 1: Full Depth Background Site Condition Standards and Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition from the provincial Soil, Ground Water, and Sediment Standards for use under Part XV.1 of the *Environmental Protection Act* (Table 3-7). For parameters in which Soil, Ground Water and Sediment Standards were not available, WQG PAL were used for comparison (Table 3-6). Note, WQG PAL are not directly applicable to groundwater quality, including in regard to regulatory requirements, and are only used here as a conservative benchmark to support discussion.

Results indicate that groundwater is circumneutral to slightly alkaline, with high hardness, low concentrations of most nutrients (nitrate, nitrite and ammonia) and low concentrations of major anions (sulphate and chloride). Dissolved metal concentrations are generally low at all groundwater locations. As is standard practice, dissolved metals are measured in groundwater (Section 3.0) and concentrations reported in herein are for dissolved concentrations.

Dissolved metals concentrations were consistently below identified Soil, Ground Water, and Sediment Standards and WQG PAL, where groundwater guidelines were not available (Table 4-6), with the following exceptions:

- Aluminum concentrations were greater than WQG PAL in approximately 11% of samples.
- Arsenic concentrations were greater than Background Site Condition Standards in approximately 7% of samples and were greater than Generic Site Condition Standards in approximately 4% of samples.
- Cobalt concentrations were greater than Background Site Condition Standards and Generic Site Condition Standards in approximately 6% of samples.
- Copper concentrations were greater than Background Site Condition Standards in approximately 8% of samples.
- Iron concentrations were greater than WQG PAL in approximately 26% of samples.
- Phosphorus concentrations were greater than WQG PAL in approximately 14% of samples.

Groundwater stations upstream of historical mining activities generally have low metal concentrations.

Most instances in which groundwater were above guideline occurred at stations downgradient of upstream of historical mining activities stations including MW-UB6 (shallow and deep), MW-UB7 (shallow and deep), MW-UB8 and MW-UB9 (shallow and deep), which have been influenced by historical tailings deposition. At those stations, select metals have concentrations greater than identified guideline for more than 50% of samples for arsenic at MW-UB7 (deep), copper at MW-UB6 (shallow), cobalt at MW-UB7 (shallow) and iron at MW-UB8.

Note that the detection limit for mercury is equal to the identified Background Site Condition Standards and is below the Generic Site Condition Standards in a Potable Groundwater Condition. Among detectable samples, all were at or below Background Site Condition Standards and below Generic Site Condition Standards in a Potable Groundwater Condition.

Table 5-1: Groundwater Quality

Parameter	Background Site Condition Standards [1]	Generic Site Condition Standards [2]	Count	25th	Average	75th	95th
pH Field	*6.5 to 8.5* [3]		506	7.22	7.52	7.86	8.29
Hardness (as $CaCO_3$)	-	-	451	160	247	263	417
Alkalinity, Total (as $CaCO_3$)	-	-	452	163	222	263	353
Acidity (as $CaCO_3$)	-	-	292	1.0	11.8	13.8	36.6
Total Dissolved Solids	-	-	452	192	246	304	391
Chloride	790	790	124	0.595	1.62	1.83	4.0
Cyanide (CN), Free	-	-	439	0.001	0.00228	0.001	0.0025
Cyanide (CN), Total	0.005	0.066	439	0.001	0.0019	0.001	0.005
Fluoride	-	-	375	0.025	0.0417	0.025	0.13
Sulphate	*218* [3]		451	6.96	14.7	14.2	49.5
Ammonia, Total (as N)	*0.9* [3]		452	0.01	0.10	0.05	0.50
Nitrate (as N)	*3* [3]		375	0.025	0.121	0.025	0.436
Nitrite (as N)	*0.06* [3]		375	0.01	0.0156	0.025	0.025
Ammonia-N, Un-ionized	*0.02* [3]		29	0.0005	0.00245	0.002	0.0124
Aluminum	*0.075* [3]		451	0.005	0.0692	0.0285	0.154
Antimony	0.0015	0.006	437	0.0005	0.000649	0.0005	0.00144
Arsenic	0.013	0.025	451	0.0005	0.00396	0.003	0.018
Beryllium	0.0005	0.004	437	0.00025	0.000212	0.00025	0.00025
Boron	1.7 [4]	5 [4]	437	0.005	0.0227	0.022	0.0942
Cadmium	0.0005	0.0027	451	0.00005	0.0000439	0.00005	0.00005
Chromium	0.025	0.025	437	0.0015	0.00145	0.0015	0.0015
Cobalt	0.0038	0.0038	437	0.00025	0.00072	0.00025	0.00502
Copper	0.005	0.087	451	0.0005	0.0019	0.002	0.0072
Iron	*0.3* [3]		451	0.0125	0.961	0.329	4.43
Lead	0.0019	0.01	451	0.00025	0.000309	0.00025	0.0005
Mercury	0.0001	0.00029	369	0.00005	0.0000486	0.00005	0.00005
Molybdenum	0.023	0.07	451	0.001	0.00496	0.005	0.013
Nickel	0.014	0.1	451	0.0005	0.00148	0.0015	0.005
Phosphorus	*0.03* [3]		58	0.0015	0.0216	0.01	0.114
Selenium	0.005	0.01	437	0.0005	0.000905	0.002	0.002
Silver	0.0003	0.0015	437	0.00005	0.0000513	0.00005	0.0001
Strontium	*2.5* [3]		334	0.118	0.252	0.268	0.635
Thallium	0.0005	0.002	437	0.00015	0.000125	0.00015	0.00015
Uranium	0.0089	0.02	437	0.00025	0.00112	0.001	0.0051
Vanadium	0.0039	0.0062	437	0.001	0.00123	0.001	0.003
Zinc	0.16	1.1	451	0.0025	0.00923	0.003	0.0125

Notes:
All units are mg/L (unless otherwise indicated).
All reported groundwater quality concentrations are dissolved.
- indicates data not available.
1 Table 1: Full Depth Background Site Condition Standards.
2 Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition.
3 Water Quality Guidelines for the Protection of Aquatic Life (WQG PAL) were used where Soil, Ground Water and Sediment Standards were not available. WQG PAL are not directly applicable to groundwater quality and are used here to support discussion only.
4 Soil, Ground Water, and Sediment Standards used here are for total boron.
Grey highlighted values are greater than identified Soil, Groundwater, and Sediment Standards (or WQG PAL where applicable).

6.0 SUMMARY OF MAIN FINDINGS

This cumulative water quality baseline report describes existing water quality conditions of surface waters and groundwater in the area around the proposed Project.

Surface water quality is typical of what would be expected of lakes and rivers in northern Ontario, including circumneutral to slightly acidic pH, low concentrations of nitrogen species (ammonia, nitrate and nitrite), low concentrations of major anions (sulphate, chloride), and sporadically elevated concentrations of some metal concentrations. However, some parameters were consistently above guidelines; those parameters with total concentrations greater than guidelines in at least 10% of samples were:

— Total aluminum

— Total copper

— Total iron

— Total phosphorus.

Low-level detection results indicate that total mercury and total methylmercury concentrations are low at most monitoring stations but were greater than WQG PAL in about 2.5% and 2.8% of observations, respectively, in unnamed streams, as well as station at V3 on Victoria Creek.

Groundwater quality in the area is of good quality and concentrations of dissolved metals are low, with most parameters at or below analytical detection limits, or below Soil, Ground Water, and Sediment Standards and WQG PAL where groundwater guidelines were not available. However, some parameters were consistently above guidelines; those parameters with concentrations greater than guidelines in at least 10% of samples were:

— Dissolved aluminum

— Dissolved iron

— Dissolved phosphorus.

The occurrence of naturally elevated concentrations in surface water and groundwater is commonly observed in regions of planned / proposed mining activities in Ontario. In such regions, naturally elevated concentrations of certain water quality parameters generally occur where exposure of rock or other geologic materials to water results in natural weathering processes and subsequent transport of metals and other parameters to groundwater and surface water. Elevated concentrations of some parameters in the baseline study area for the Project are also likely related to historical mining activities, in particular, elevated concentrations observed in Victoria Creek.

The baseline water quality monitoring program is ongoing, with the objective to supplement the existing database and support long-term record development for surface water quality conditions in the Project Area.

7.0 REFERENCES

Canadian Council of Ministers of the Environment (CCME). 2016. Water Quality Guidelines for the Protection of Aquatic Life. Summary table accessed at: Canadian Council of Ministers of the Environment | Le Conseil canadien des ministres de l'environment (ccme.ca) [accessed February 28, 2023].

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Story Environmental. 2018. Agnico Eagle Miens limited, Upper Beaver Zone Advance Exploration Project - 2018 Baseline Aquatic Studies Report.

Story Environmental Inc. (Story). 2021. 2020 Fish and Fish Habitat Baseline Report for the Upper Beaver Zone Project. April 2021.

APPENDIX A

Bathymetric Survey and In Situ Water Quality Monitoring Results

589000 590000 591000 592000 593000 594000 595000 596000 597000 598000

5339000 5338000 5337000 5336000 5335000

X:\CA\CAOAK300-OAK\MIS-FS1-ProjectF\2020\Projects\OMEMA2008Z_Agnico_Upper_Beaver_IA\11_GIS\Aquatics\Baseline_2022\MXD\Onsite_SW_Sampling_Locs_3.mxd

VC-S01
Victoria Creek
VC-P01
VC-S02
50 m

UNS7-P01
Unnamed Stream 7
50 m

BHL-N
Unnamed Stream 8
UNS8-P02
UNS8-S01
UNS8-P01
100 m

Unnamed Stream 4
Unnamed Stream 3
Unnamed Stream 2
Unnamed Stream 6
UNS6-S01
UNS6-P01
UNS6-P02
Unnamed Stream 7
Beaverhouse Lake
UNSBP-03
UNSBP-02
UNSBP-01
Unnamed Stream 1
BHL-SW
BHL-MID
Sourdough Lake
VC-S03
Victoria Creek
Ava Lake
York Lake
Coate Lake
Spectacle Lakes
Misema River

Ava Lake
York Lake
AL
YL
VC-S04
VC-P02
Victoria Creek
MR-EXP
VC-S06
VC-S05
Misema River
MR-EXP
200 m

LEGEND

- Aquatic Study Area
- Watercourse
- Waterbody
- Flow Direction

Surface Water Sampling Location (By Season)
- Spring
- Summer
- Fall

Water Profile Sampling Location (By Season)
- Spring
- Summer
- Fall

NOTES:
- Waterbodies and watercourse extracted from LIO, MNRF and modified to match site plan layout provided by Agnico Eagle; to be field confirmed.
- Aerial imagery extracted from Google Earth Pro, 2019.

0 0.5 1 2 3 4 5 Kilometres

Datum: NAD83
Projection: UTM Zone 17N

N W E S

AGNICO EAGLE
UPPER BEAVER PROJECT

wsp

UPPER BEAVER PROJECT

Surface Water and Profiles Sampling Locations (2022)

PROJECT N°: OMEMA2008	**FIGURE: A1**
SCALE: 1:22,500	DATE: November 2023

Table A1-1: In-Field Surface Water Measurements (2021) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Waterbody	ID	Date (dd/mm/yyyy)	Season	UTM Coordinates (Easting, Northing)		Time (Military)	YSI Depth (m)	Water Temperature (°C)	pH	Conductivity (mS/cm)	Conductivity (uS/cm)	DO (%)	DO (mg/L)
Ava Lake	AL	17/06/2021	Spring	592,157	5,335,660	18:15	1.0	21.4	n/a	n/a	58.7	n/a	8.7
	AL	18/08/2021	Summer	592,220	5,335,582	14:40	0.0	23.3	8.0	0.060	n/a	100.2	8.5
	AL	24/08/2021	Summer	592,157	5,335,660	11:45	0.0	24.8	7.7	n/a	61.8	n/a	7.9
	AL	2021-03-10	Fall	592,157	5,335,660	13:00	0.0	13.8	7.5	0.064	n/a	90.9	9.4
	AL	2021-09-11	Fall	592,157	5,335,660	10:23	0.0	6.6	7.3	n/a	66.2	n/a	9.9
Beaverhouse Lake	BL-SW	17/06/2021	Spring	593,078	5,335,988	10:30	1.0	19.5	n/a	n/a	58.2	n/a	8.9
	BL-MID	17/06/2021	Spring	594,561	5,336,072	15:30	1.0	19.8	n/a	n/a	57.9	n/a	9.0
	BL-SW	15/08/2021	Summer	593,069	5,336,008	14:43	0.0	21.4	7.6	0.059	n/a	94.7	8.4
	BL-07-GN1	16/08/2021	Summer	593,313	5,336,265	16:10	0.5	23.9	7.4	0.059	n/a	106.1	8.9
	BL-08-GN1	16/08/2021	Summer	592,793	5,335,891	15:53	0.5	22.0	7.7	0.059	n/a	98.5	8.6
	BL-01-GN1	17/08/2021	Summer	593,805	5,338,296	15:20	0.1	23.1	7.7	0.057	n/a	105.5	9.0
	BL-02-GN1	17/08/2021	Summer	594,760	5,337,750	15:56	0.2	23.7	7.8	0.059	n/a	102.1	8.7
	BL-03-GN1	17/08/2021	Summer	595,462	5,336,556	15:45	0.3	23.6	8.0	0.059	n/a	105.4	9.0
	BL-05-GN1	17/08/2021	Summer	594,708	5,336,278	18:00	0.2	23.1	7.8	0.059	n/a	100.4	8.6
	BL-MID	18/08/2021	Summer	594,547	5,336,079	9:40	0.0	22.5	7.8	0.059	n/a	99.2	8.6
	BL-04-GN1	18/08/2021	Summer	594,588	5,337,100	11:02	0.1	23.1	7.7	0.059	n/a	97.9	8.4
	BL-06-GN1	18/08/2021	Summer	594,149	5,336,333	11:19	0.5	22.7	7.7	0.059	n/a	98.8	8.5
	BL-MID	22/08/2021	Summer	594,561	5,336,072	11:50	0.0	25.3	7.7	n/a	60.7	n/a	8.3
	BL-SW	23/08/2021	Summer	593,078	5,335,988	15:45	0.0	26.7	7.9	n/a	61.8	n/a	8.4
	BL-SW	2021-08-11	Fall	593,078	5,335,988	11:20	0.0	6.7	7.5	n/a	66.1	n/a	10.3
	BL-MID	2021-08-11	Fall	594,561	5,336,072	15:35	0.0	6.4	7.5	n/a	62.4	n/a	10.9
	BL-MID	29/09/2021	Fall	594,561	5,336,072	14:15	0.0	13.8	7.5	0.062	n/a	90.6	9.4
	BL-SW	29/09/21	Fall	593,078	5,335,988	12:45	0.0	13.9	7.5	0.062	n/a	86.6	8.9

Waterbody	ID	Date (dd/mm/yyyy)	Season	UTM Coordinates (Easting, Northing)		Time (Military)	YSI Depth (m)	Water Temperature (°C)	pH	Conductivity (mS/cm)	Conductivity (uS/cm)	DO (%)	DO (mg/L)
Misema River	MR-EXP	2021-02-10	Fall	592,141	5,335,015	8:10	0.7	12.7	7.6	0.078	n/a	93.8	10.0
Unnamed Stream 6	UNS6-P01	19/08/2021	Summer	n/a	n/a	9:21	0.1	21.2	5.7	0.036	33.0	30.9	2.7
	UNS6-P02	19/08/2021	Summer	593,313	5,336,689	11:22	0.5	21.5	6.9	0.051	n/a	74.4	6.6
Unnamed Stream 7	UNS7-P01	16/08/2021	Summer	593,600	5,337,046	14:13	0.5	23.3	7.8	0.059	n/a	102.9	8.8
	UNS7-P01	24/09/2021	Fall	593,610	5,337,028	14:00	n/a	12.0	7.0	0.033	n/a	55.6	6.0
Unnamed Stream 8	UNS8-P01	19/08/2021	Summer	593,761	5,337,760	14:52	0.5	28.8	7.5	0.026	n/a	118.4	9.1
	UNS8-S01	19/08/2021	Summer	593,671	5,337,782	15:13	0.5	23.7	5.9	0.025	n/a	60.6	5.1
	UNS8-P02	19/08/2021	Summer	593,659	5,337,902	15:38	0.5	22.6	6.1	0.020	n/a	92.5	8.0
Victoria Creek	VCS01	13/08/2021	Summer	590,917	5,336,362	11:15	0.5	21.3	7.7	0.108	n/a	96.3	8.5
	VCP01	13/08/2021	Summer	590,994	5,336,320	10:17	0.5	21.0	7.9	0.108	n/a	98.6	8.8
	VCS02	13/08/2021	Summer	591,028	5,336,252	9:20	0.5	20.9	7.9	0.106	n/a	97.8	8.7
	VCS03	13/08/2021	Summer	591,135	5,335,767	13:02	0.5	21.3	7.9	0.109	n/a	97.8	8.7
	VCS04	13/08/2021	Summer	591,633	5,335,240	14:13	0.5	21.5	7.9	0.110	n/a	96.4	8.5
	VCP02	13/08/2021	Summer	591,679	5,335,234	14:00	0.5	21.6	7.7	0.110	n/a	95.7	8.4
	VCS05	13/08/2021	Summer	591,821	5,335,016	15:23	0.5	21.6	7.9	0.110	n/a	97.5	8.6
	VCS06	13/08/2021	Summer	591,947	5,335,044	15:12	0.5	21.7	7.9	0.110	n/a	96.9	8.5
	VCS06	22/09/2021	Fall	591,957	533,506	17:00	0.5	15.4	8.1	0.115	n/a	97.6	9.8
	VCS02	23/09/2021	Fall	591,028	5,336,263	15:35	0.7	12.6	7.9	0.113	n/a	99.3	10.6
	VCS03	25/09/2021	Fall	591,127	5,335,713	12:30	0.6	11.7	8.2	0.111	n/a	98.4	10.7
York Lake	YL	16/06/2021	Spring	591,926	5,335,406	13:30	1.0	19.7	7.5	n/a	72.4		8.5
	YL	15/08/2021	Summer	591,924	5,335,424	10:30	0.0	20.3	7.6	0.063	n/a	93.8	8.4
	YL	24/08/2021	Summer	591,926	5,335,406	14:30	0.0	24.9	7.7	n/a	66.9		7.8
	YL	2021-09-11	Fall	591,926	5,335,406	13:16	0.0	6.8	7.4	n/a	67.4		10.9
	YL	22/09/2021	Fall	591,926	5,335,406	10:00	0.0	13.9	8.0	0.066	n/a	93.5	9.6

Waterbody	ID	Date (dd/mm/yyyy)	Season	UTM Coordinates (Easting, Northing)		Time (Military)	YSI Depth (m)	Water Temperature (°C)	pH	Conductivity (mS/cm)	Conductivity (uS/cm)	DO (%)	DO (mg/L)
	YL	26/09/2021	Fall	591,942	5,335,561	16:00	1.5	14.3	8.0	0.065	n/a	93.9	9.6

All values expressed as mg/L unless otherwise noted.
PWQO; Provincial Water Quality Objectives
CWQG; Canadian Council of Ministers of the Environment Canadian Water Quality Guidelines for the protection of aquatic life
Dark blue shaded values indicate concentrations that exceed the PWQO PQL
Gray shaded values indicate concentrations that exceed the CCME CWQG

Table A2-1: In-Field Surface Water Measurements (2022) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Location	ID	Date (yyyy/mm/dd)	Season	UTM Coordinates (Easting, Northing)		Time (24-hr)	Water Temperature (°C)	pH	Conductivity (uS/cm)	DO (%)	DO (mg/L)
Ava Lake	AL	2022-05-23	Spring	592,222	5,335,577	9:10	12.9	6.0	45.2	89.9	9.65
	AL	2022-10-16	Fall	592,222	5,335,577	9:45	9.8	7.2	55	85.7	9.73
Beaverhouse Lake	BHL-MID	2022-10-14	Fall	594,561	5,336,072	10:30	10.3	7.3	53	93.0	10.04
	BHL-N	2022-10-16	Fall	593,805	5,338,296	11:45	9.4	7.1	54	88.5	9.47
	BHL-MID	2022-05-21	Spring	594,547	5,336,079	14:00	13.2	6.1	44.1	96.5	10.01
	BHL-MID	2022-10-12	Fall	594,547	5,336,079	13:23	10.4	7.1	54	84.5	9.44
	BHL-SW	2022-05-21	Spring	593,069	5,336,008	14:45	13.5	6.1	45.4	94.5	9.76
	BHL-SW	2022-10-12	Fall	593,069	5,336,008	14:00	10.6	7.1	55	83.0	9.24
Blanche River	BR-REF	2022-10-22	Fall	571,353	5,315,720	12:00	7.5	7.5	118	89.2	10.70
	BR-REF	2022-08-19	Summer	571,130	5,315,678	10:10	22.3	7.5	142	104.5	8.96
Misema River	MR-EXP	2022-10-18	Fall	592,024	5,334,823	9:40	8.7	7.4	69	94.0	10.92
Unnamed Beaver Pond 1	UNSBP-01	2022-10-12	Fall	592,103	5,336,213	9:55	6.5	6.8	79	49.6	6.08
Unnamed Beaver Pond 2	UNSBP-02	2022-10-12	Fall	592,194	5,336,333	10:00	7.4	6.5	53	51.1	6.11
Unnamed Beaver Pond 3	UNSBP-03	2022-10-12	Fall	592,281	5,336,412	10:05	7.1	6.6	85	34.7	4.18
Unnamed Stream 6	UNS6-P01	2022-05-21	Spring	593,287	5,336,872	10:30	13.0	5.7	50.1	56.3	5.89
	UNS6-P02	2022-05-21	Spring	593,313	5,336,689	9:40	12.7	5.9	48.1	58.9	6.19
	UNS6-S01	2022-05-18	Spring	593,221	5,337,072	12:09	10.7	5.4	58.1	85.1	9.34
Unnamed Stream 7	UNS7-P01	2022-05-17	Spring	593,610	5,337,028	11:00	16.4	5.3	25	63.2	6.10
	UNS7-P01	2022-10-12	Fall	593,598	5,337,014	10:15	8.6	6.5	34	69.3	8.00
Unnamed Stream 8	UNS8-P01	2022-05-22	Spring	593,761	5,337,760	10:17	13.6	5.1	23.7	58.4	5.91
	UNS8-P02	2022-05-22	Spring	593,659	5,337,902	10:42	11.7	5.0	20	58.4	6.30
	UNS8-S01	2022-05-22	Spring	593,671	5,337,782	9:40	11.5	5.2	25.4	30.6	3.32
Victoria Creek	VC-P01	2022-05-21	Spring	590,994	5,336,320	12:23	12.6	6.8	85.1	96.3	10.15
	VC-P02	2022-05-19	Spring	591,679	5,335,234	12:15	12.1	6.7	87.1	97.7	10.34
	VC-S01	2022-05-21	Spring	590,917	5,336,362	11:50	12.3	6.2	84.9	98.1	10.36

Waterbody	Location ID	Date (yyyy/mm/dd)	Season	UTM Coordinates (Easting, Northing)		Time (24-hr)	Water Temperature (°C)	pH	Conductivity (uS/cm)	DO (%)	DO (mg/L)
	VC-S02	2022-05-21	Spring	591,028	5,336,252	12:48	12.6	6.7	85	98.5	10.37
	VC-S03	2022-05-19	Spring	591,135	5,335,767	11:17	12.1	6.5	86.9	98.1	10.41
	VC-S04	2022-05-19	Spring	591,633	5,335,240	13:00	12.2	6.7	87.1	100.0	10.55
	VC-S05	2022-05-17	Spring	591,821	5,335,016	17:00	13.3	6.2	89.3	86.5	8.99
	VC-S06	2022-05-18	Spring	591,947	5,335,044	14:00	12.2	6.4	85.2	93.2	9.89
Wawagoshe Creek	WC-REF	2022-10-21	Fall	608,533	5,341,817	10:30	5.3	6.8	47	77.5	9.82
	WC-REF	2022-08-21	Summer	608,527	5,341,820	12:10	21.6	7.4	54	68.0	5.93
York Lake	YL	2022-05-24	Spring	531,918	5,335,434	12:27	13.3	5.9	45.3	98.4	10.39
	YL	2022-10-18	Fall	531,918	5,335,434	10:30	9.4	7.3	56	91.1	10.43

All values expressed as mg/L unless otherwise noted.
PWQO; Provincial Water Quality Objectives
CWQG; Canadian Council of Ministers of the Environment Canadian Water Quality Guidelines for the protection of aquatic life
Dark blue shaded values indicate concentrations that exceed the PWQO PQL
Gray shaded values indicate concentrations that exceed the CCME CWQG

Table A3-1: In-Field Surface Water Measurements (2023) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Waterbody	Location ID	Date (yyyy/mm/dd)	Season	UTM Coordinates (Easting, Northing)		Time (24-hr)	Water Temperature (°C)	pH	Conductivity (us/cm)	DO (%)	DO (mg/L)
York Lake	YL	2023-05-02	Spring	531,918	5,335,434	14:30	4.2	n/a	n/a	115.3	14.3
Ava Lake	AL	2023-05-24	Spring	592,222	5,335,577	10:40	10.6	6.20	n/a	89.8	9.7
Unnamed Stream 1	UNS1	2023-05-21	Spring	592,188	5,336,130	14:00	14.3	6.96	n/a	71.3	7.1
		2023-07-31	Summer	592,188	5,336,130	14:30	21.9	6.53	129	44.0	3.9
	UNS1-BP	2023-05-24	Spring	592,109	5,336,180	9:40	10.6	6.95	n/a	56.1	6.1
Unnamed Stream 2	UNS2	2023-05-19	Spring	591,380	5,336,366	14:45	9.0	7.00	n/a	72.3	8.0
		2023-07-29	Summer	591,380	5,336,366	15:50	10.8	6.80	147	37.9	4.2
Unnamed Stream 3	UNS3	2023-05-19	Spring	591,074	5,336,801	13:00	7.7	6.99	n/a	96.2	11.0
		2023-07-29	Summer	591,074	5,336,801	14:00	15.6	6.66	233	18.5	1.8
Unnamed Stream 4	UNS4-BP	2023-05-20	Spring	591,864	5,337,459	13:00	9.4	5.50	n/a	65.2	7.2
		2023-07-31	Summer	591,864	5,337,459	11:00	15.6	5.81	44	46.1	4.6
	UNS4	2023-05-19	Spring	591,342	5,336,901	10:00	8.7	5.51	n/a	91.6	10.2
		2023-07-29	Summer	591,342	5,336,901	13:15	18.7	6.03	70	11.4	1.1
Unnamed Stream 4 East Tributary	UNS4-ET	2023-07-30	Summer	592,172	5,337,357	13:30	13.7	5.46	68	14.9	1.5
Unnamed Stream 5	UNS5-BP	2023-05-20	Spring	592,353	5,336,804	13:00	11.6	7.69	n/a	69.4	7.3
	UNS5	2023-05-20	Spring	592,406	5,336,818	14:10	8.8	6.58	n/a	74.9	8.4

All values expressed as mg/L unless otherwise noted.
PWQO; Provincial Water Quality Objectives
CWQG; Canadian Council of Ministers of the Environment Canadian Water Quality Guidelines for the protection of aquatic life
Dark blue shaded values indicate concentrations that exceed the PWQO PQL
Gray shaded values indicate concentrations that exceed the CWQG

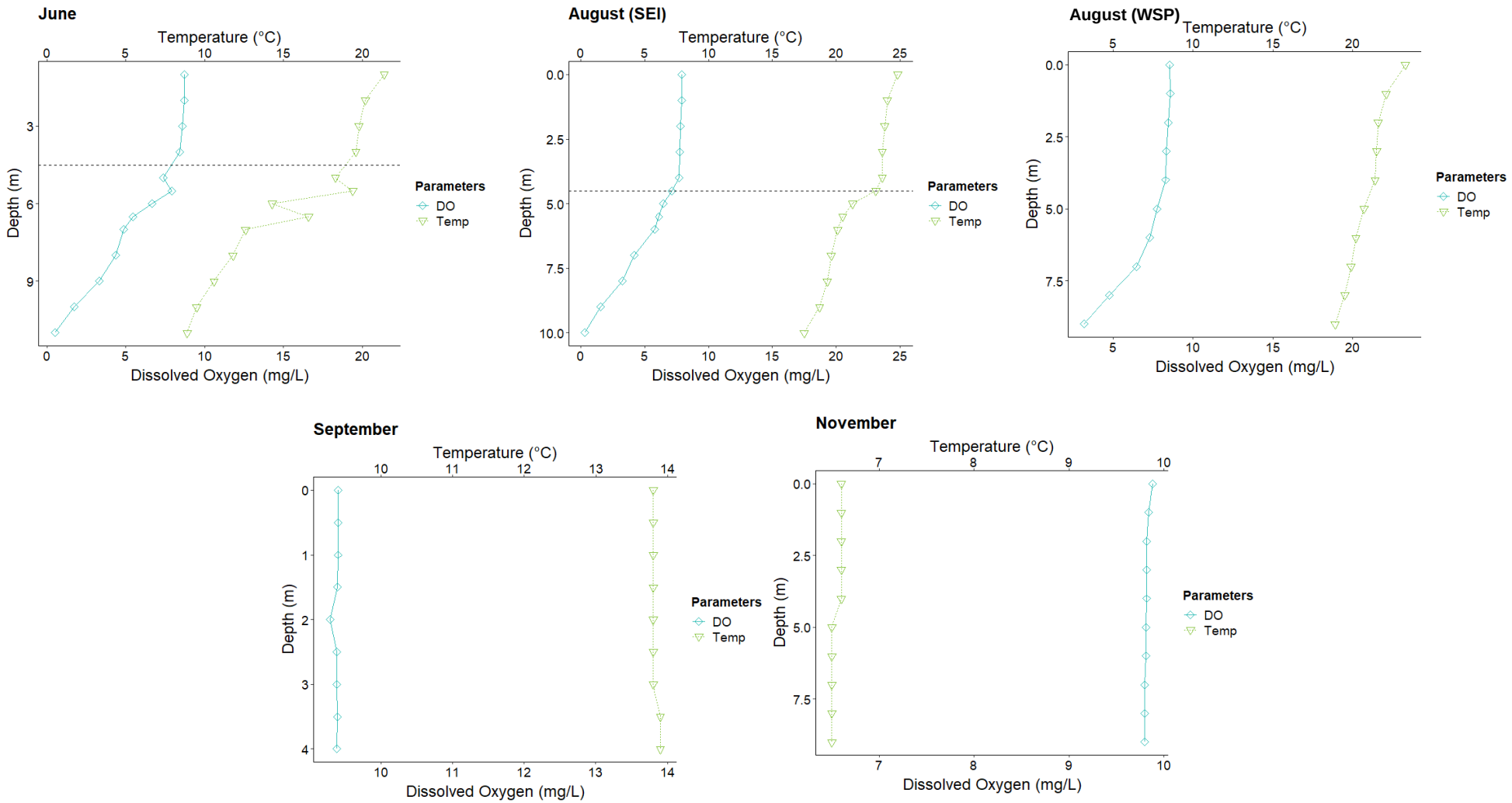


Plate A1-1: Ava Lake Temperature-DO Profiles (2021) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Dashed line represents the thermocline, defined as a change of ≥1°C within 1 m of water depth.

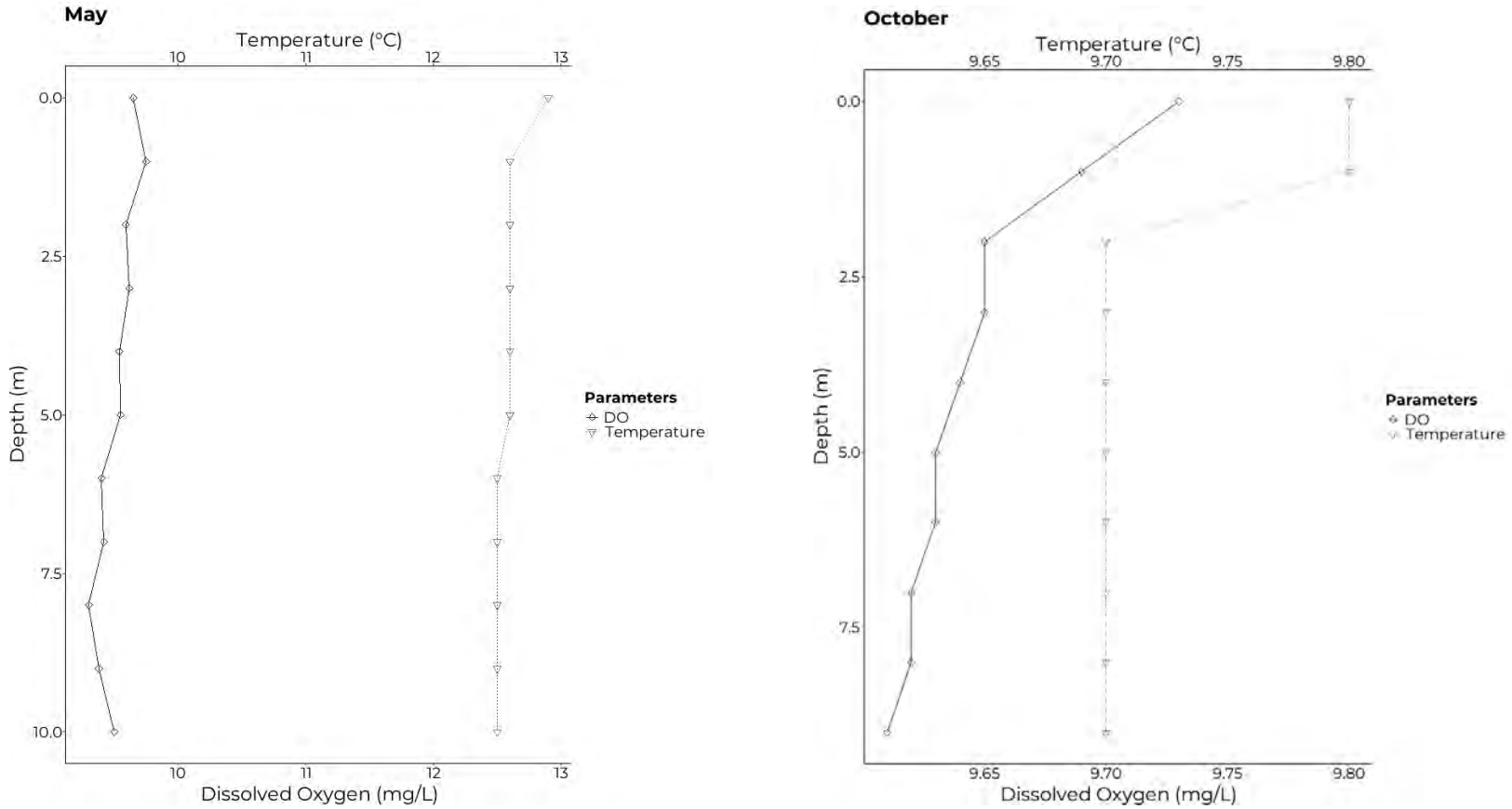


Plate A1-2: Ava Lake Temperature-DO Profiles (2022) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

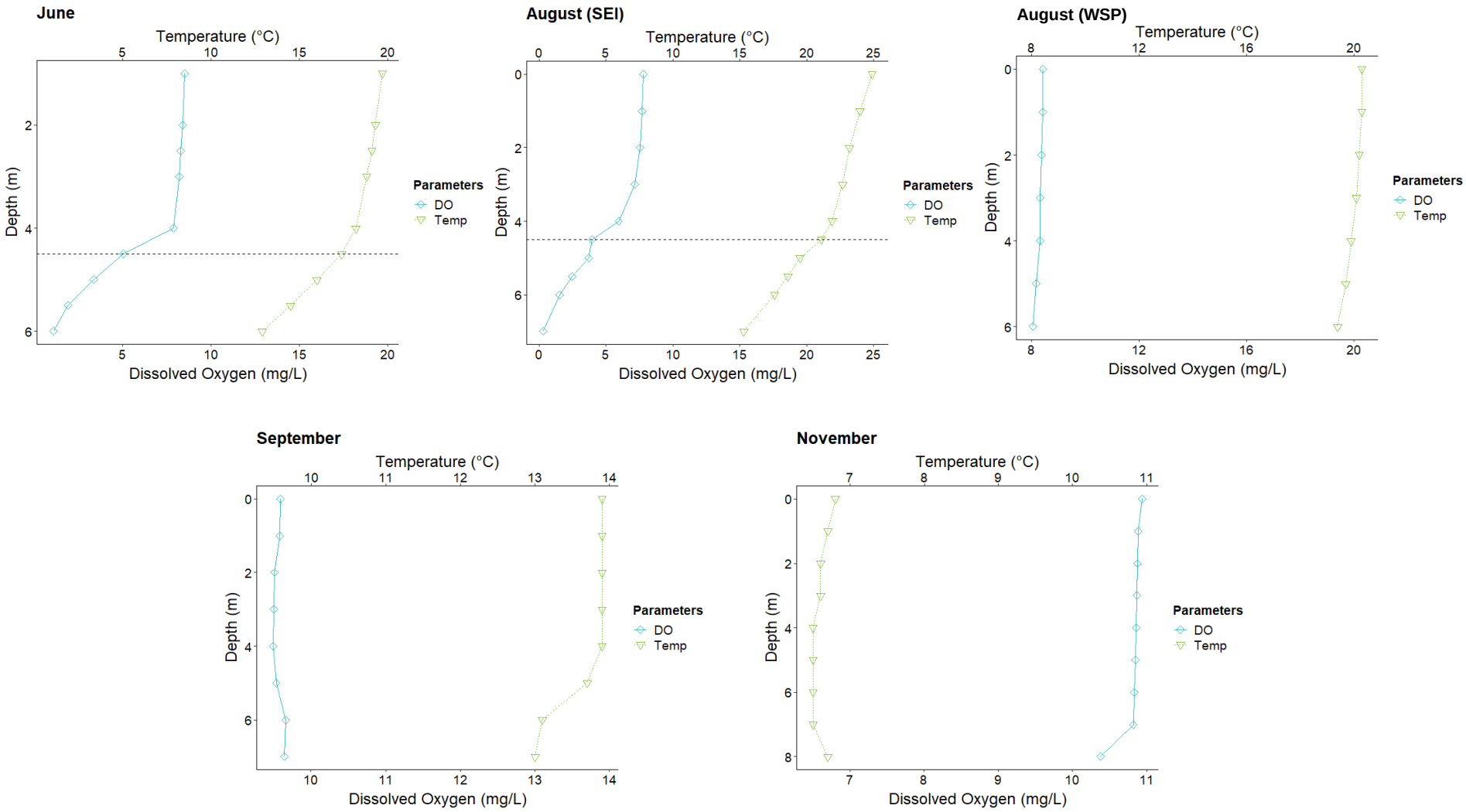


Plate A1-3: York Lake Temperature-DO Profiles (2021) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Dashed line represents the thermocline, defined as a change of ≥1°C within 1 m of water depth.

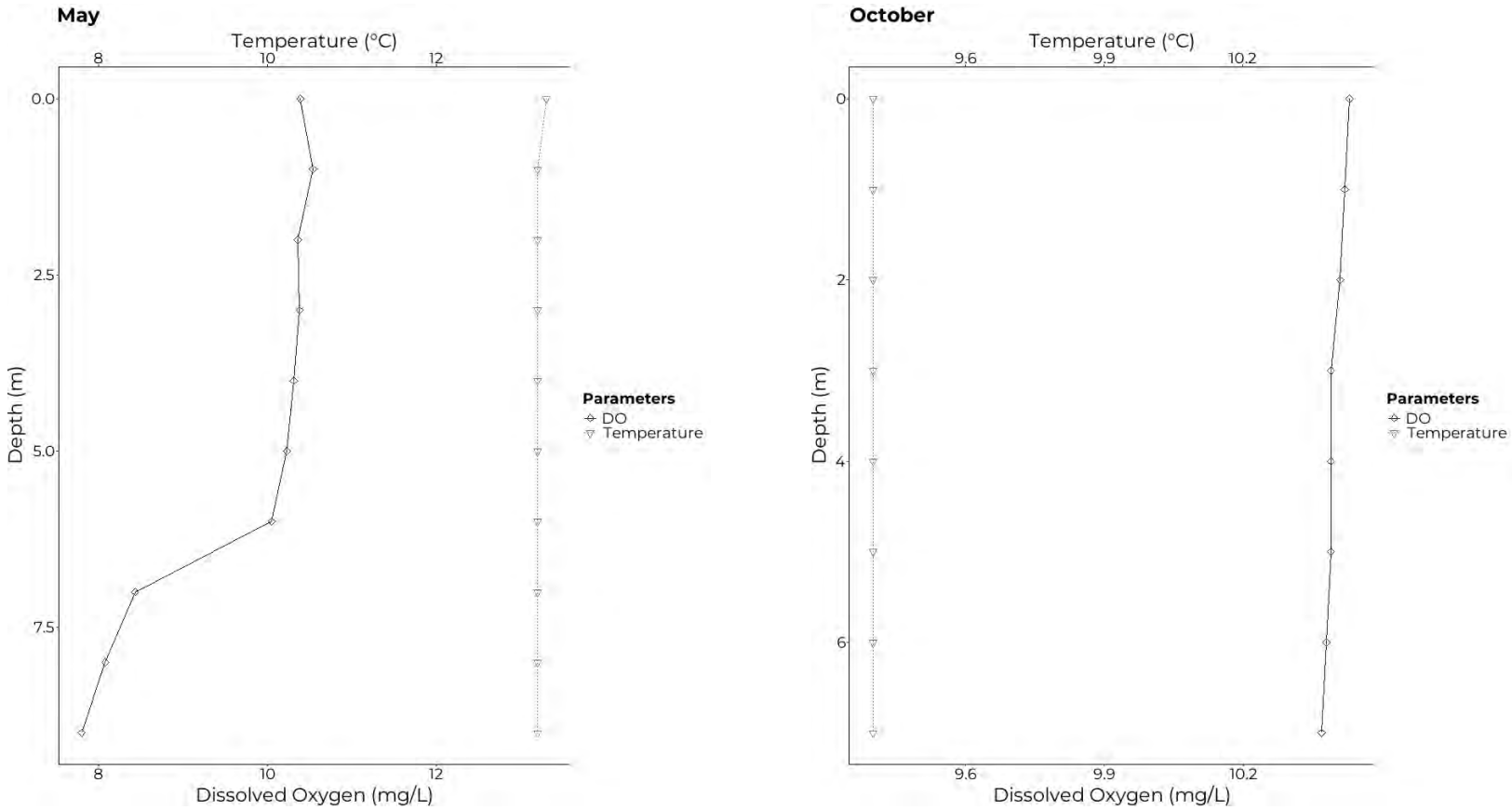


Plate A1-4: York Lake Temperature-DO Profiles (2022) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

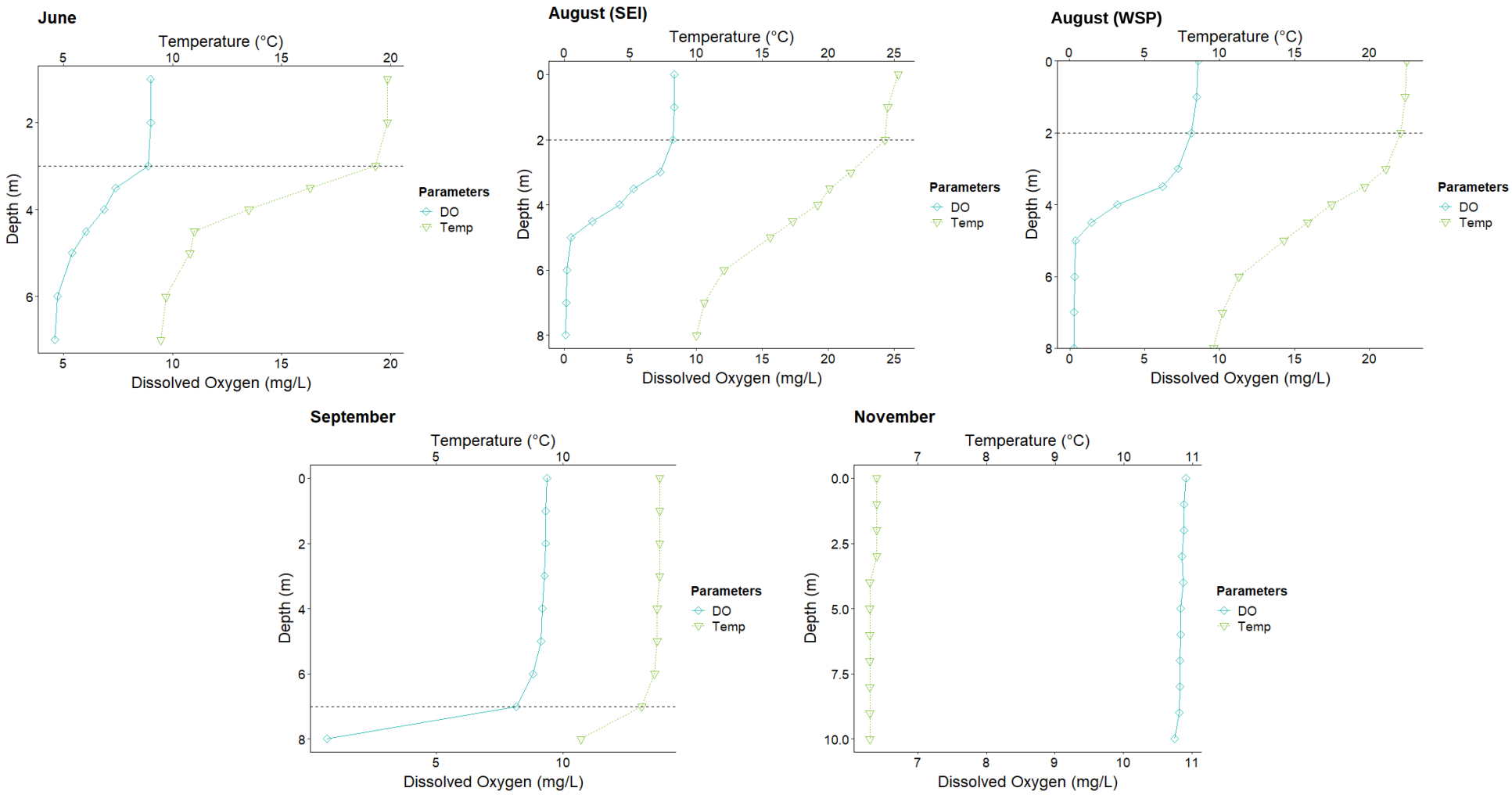


Plate A1-5: Beaverhouse Lake MID Temperature-DO Profiles (2021) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Dashed line represents the thermocline, defined as a change of ≥1°C within 1 m of water depth.

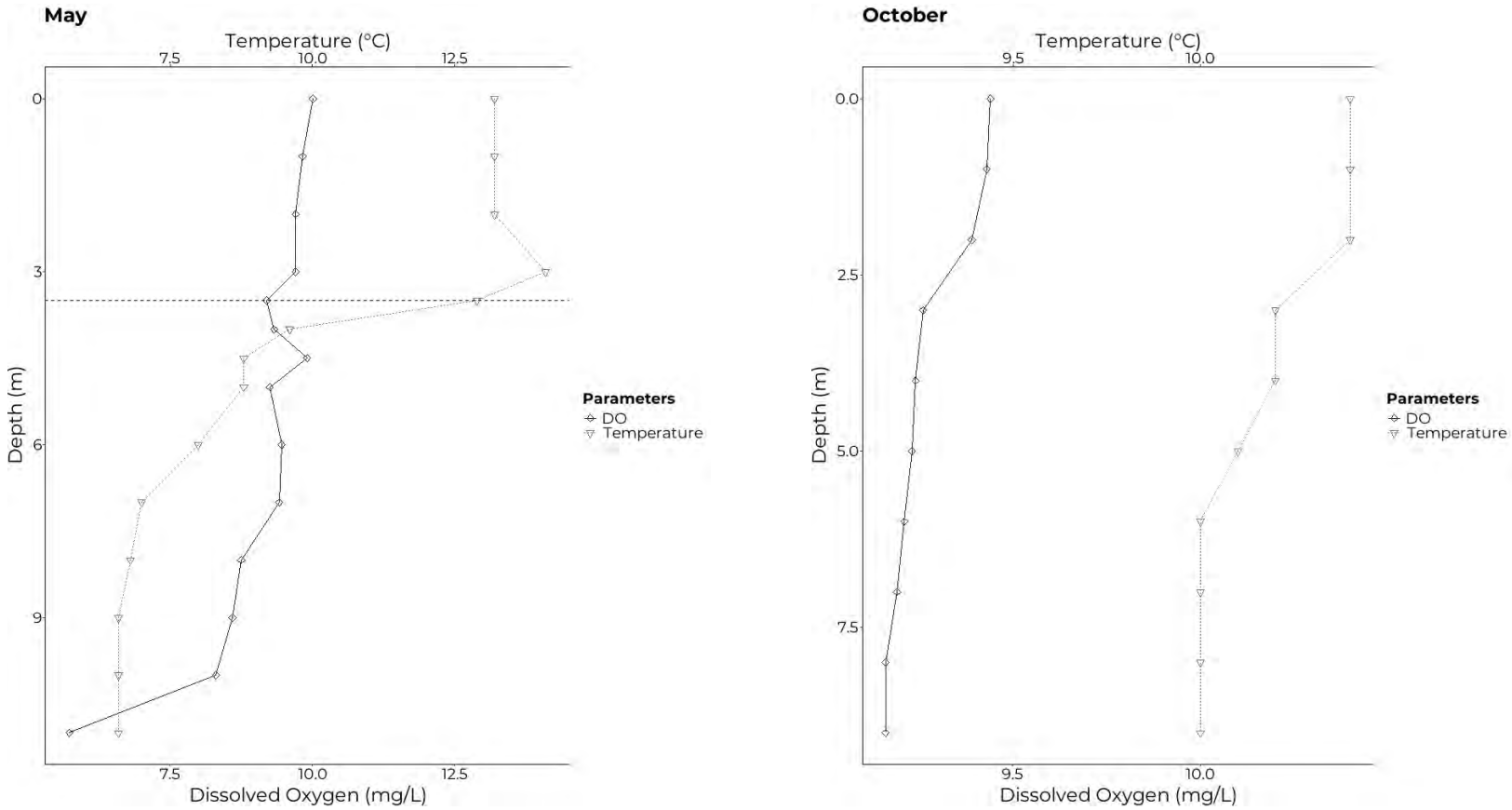


Plate A1-6: Beaverhouse Lake MID Temperature-DO Profiles (2022) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Dashed line represents the thermocline, defined as a change of ≥1°C within 1 m of water depth.

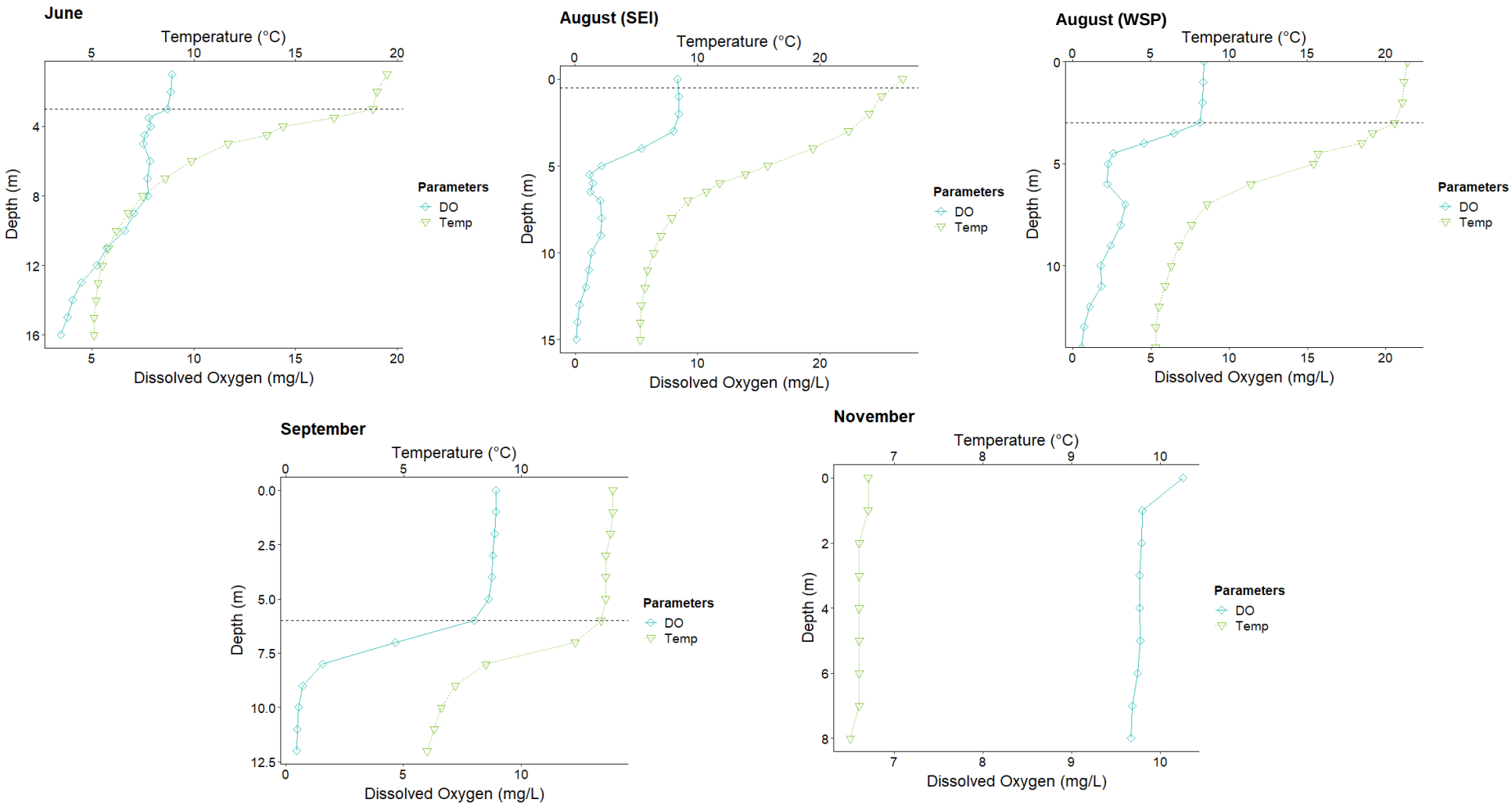


Plate A1-7: Beaverhouse Lake SW Temperature-DO Profiles (2021) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Dashed line represents the thermocline, defined as a change of ≥1°C within 1 m of water depth.

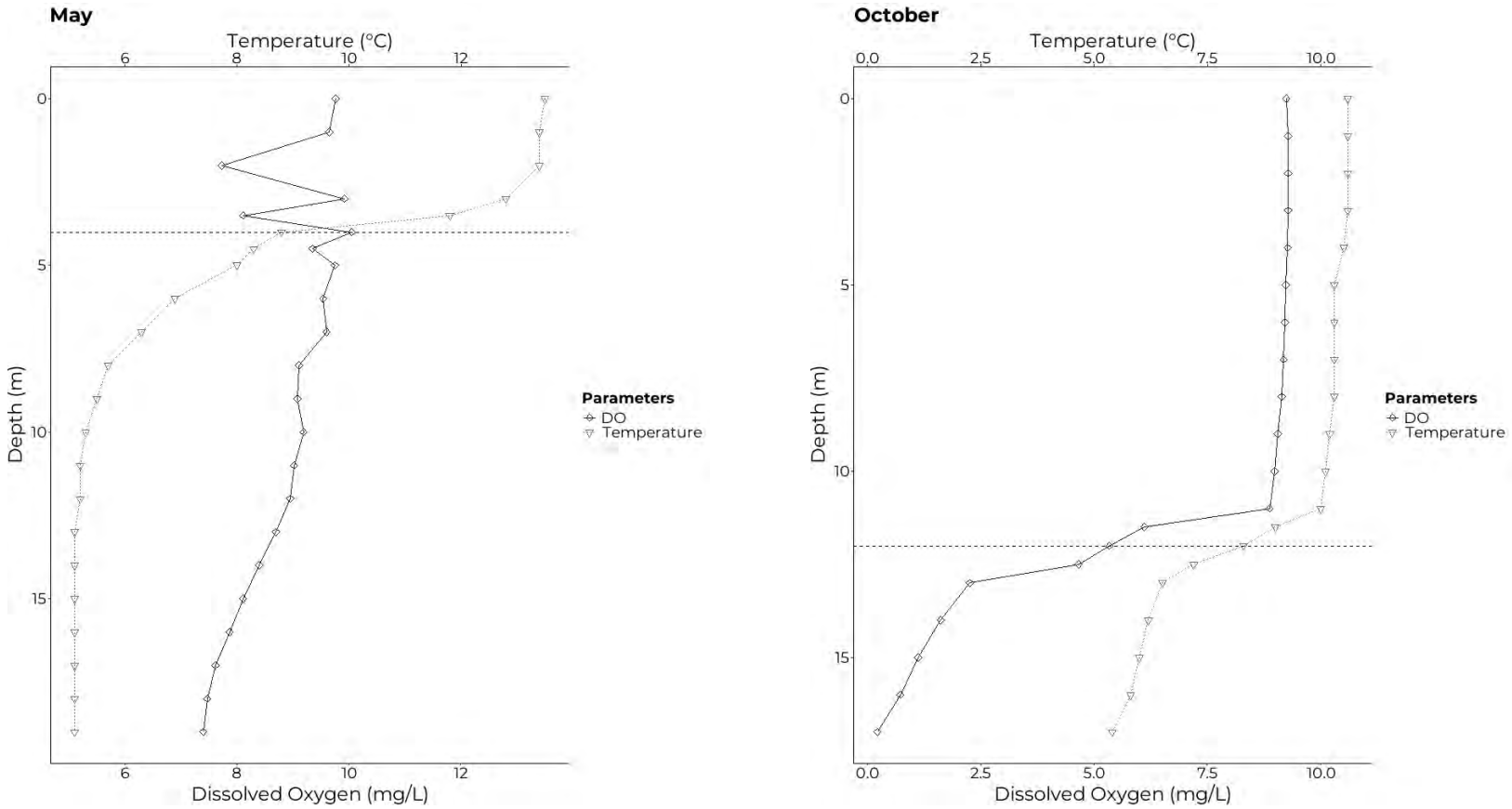
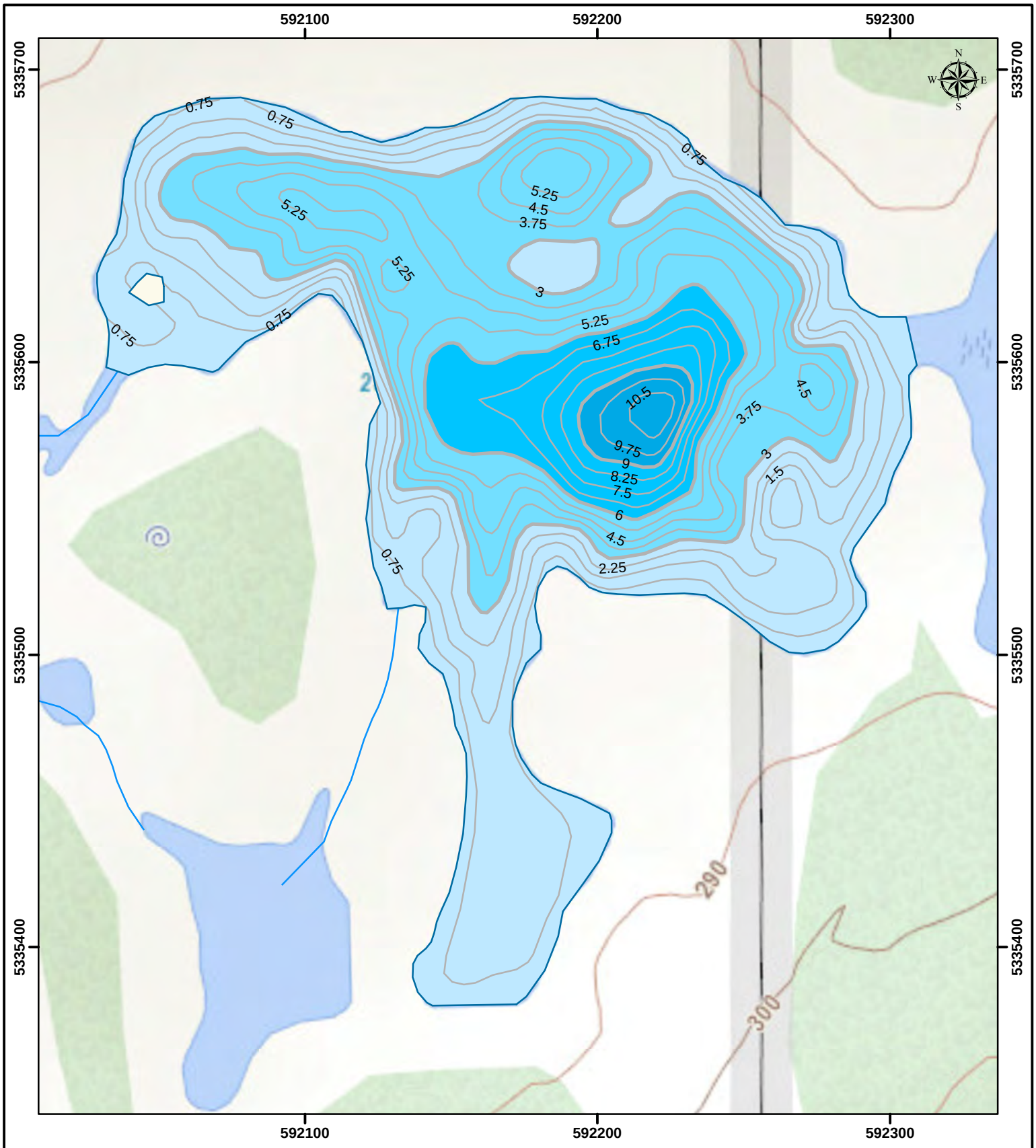


Plate A1-8: Beaverhouse Lake SW Temperature-DO Profiles (2022) from *2021-2023 Fish and Fish Habitat Baseline* (WSP)

Dashed line represents the thermocline, defined as a change of ≥1°C within 1 m of water depth.



Legend

- Shoreline
- Minor Contours (0.75 m interval)
- Major Contours (3 m Interval)

Isobaths

- 0-3 m
- 3-6 m
- 6-9 m
- 9-12 m

UTM NAD83 Zone17N

Metres

0 12.5 25 50

Credits: Bathymetry data obtained in August 2018 with Lowrance Side Sonar. Contour lines generated with Reefmaster. Basemap from Land Information Ontario. Locations are approximate.

STORY environmental

AGNICO EAGLE

Agnico Eagle Mines Ltd.	2018 Aquatic Baseline Studies
Upper Beaver Site	Ava Lake
Drwn by: SEC | Rvw'd by: JSP	Drwg No.: SEI-105-101-14-01-003
Date: 15-May-2019	**Figure A2**

Ava Lake Bathymetry

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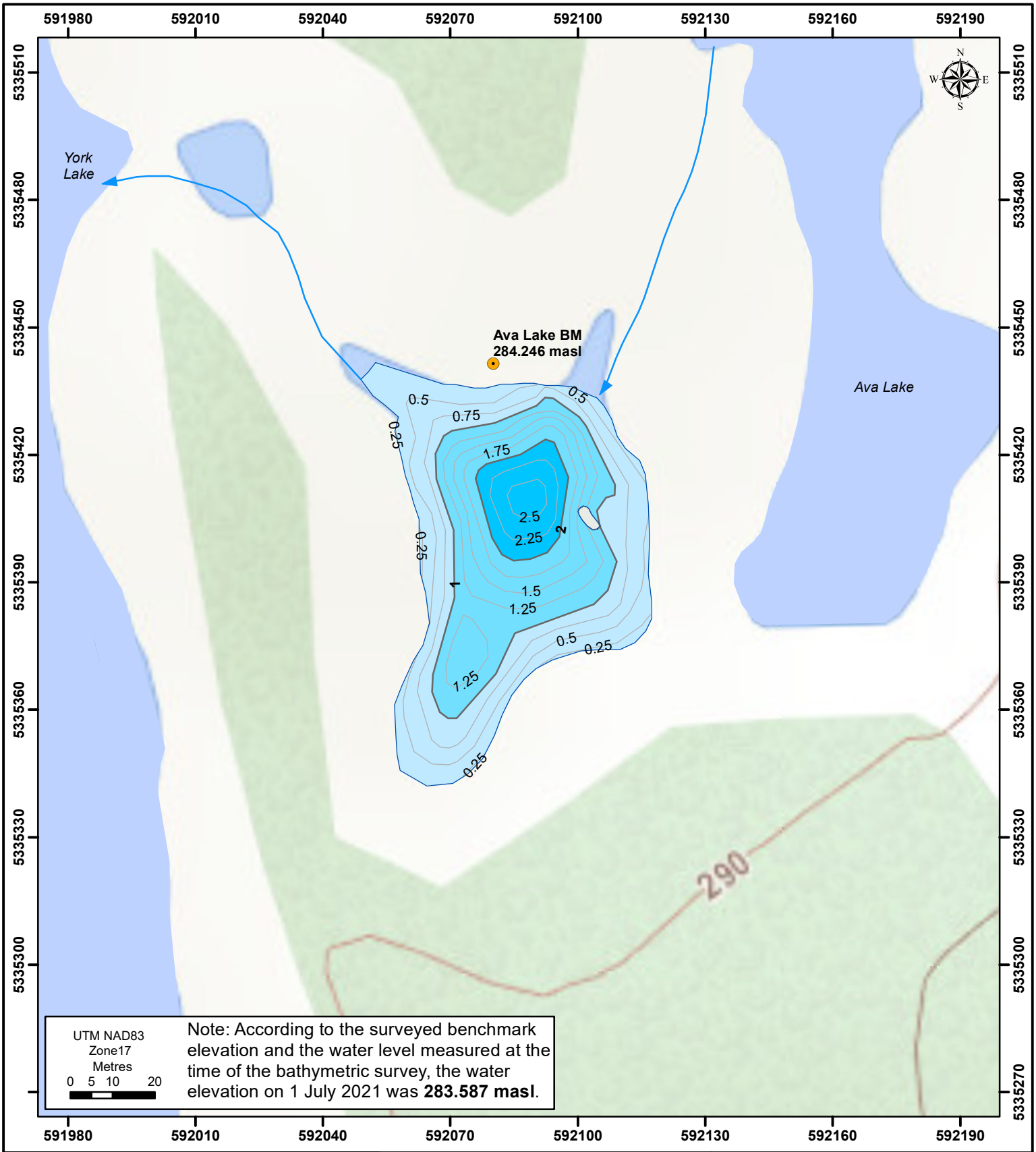


Legend

- Benchmark
- Minor Contours (0.25 m Interval)
- Major Contours (1 m Interval)

Isobaths

- 0-1 m
- 1-2 m
- 2-3 m

Credits: Bathymetry data obtained 1 July 2021 with Lowrance Side Sonar. Contour lines generated with Reefmaster. Basemap from Land Information Ontario. Elevation obtained from benchmark suveyed by AEM in July 2021. The water elevation at the time of the bathymetric survey (1 July 2021) was calculated using the measured water level in relation to the benchmark as observed on 1 July 2021.

STORY environmental

AGNICO EAGLE

Agnico Eagle Mines Limited	Bathymetry Study - 1 July 2021
Upper Beaver Site	Ava Lake
Drwn by: NRM | Rvw'd by: JSP	Proj No. 105-101-00-2021
Date: 24-Aug-2021	Drwg No.: SEI-105-101-14-01-016.5

Ava Lake Bathymetry

Figure A3

Document Path: T:\SEI\105 Agnico\101_102_Dobie Area\Figures\101_Upper Beaver\14_Aquatic and Terrestrial Ecology\01_Aquatic Baseline Studies\2021\SEI-105-101-14-01-016_Ava Lake Bathymetry 8.5x11L.mxd

Legend

- Major Contours (3 m interval)
- Minor Contour (0.75 m interval)
- Shoreline

Isobaths

- 0-3 m
- 3-6 m
- 6-9 m

UTM NAD83 Zone17N

Metres

0 25 50 100

Credits: Bathymetry data obtained in August 2018 with Lowrance Side Sonar. Contour lines generated with Reefmaster. Basemap from Land Information Ontario. Locations are approximate.

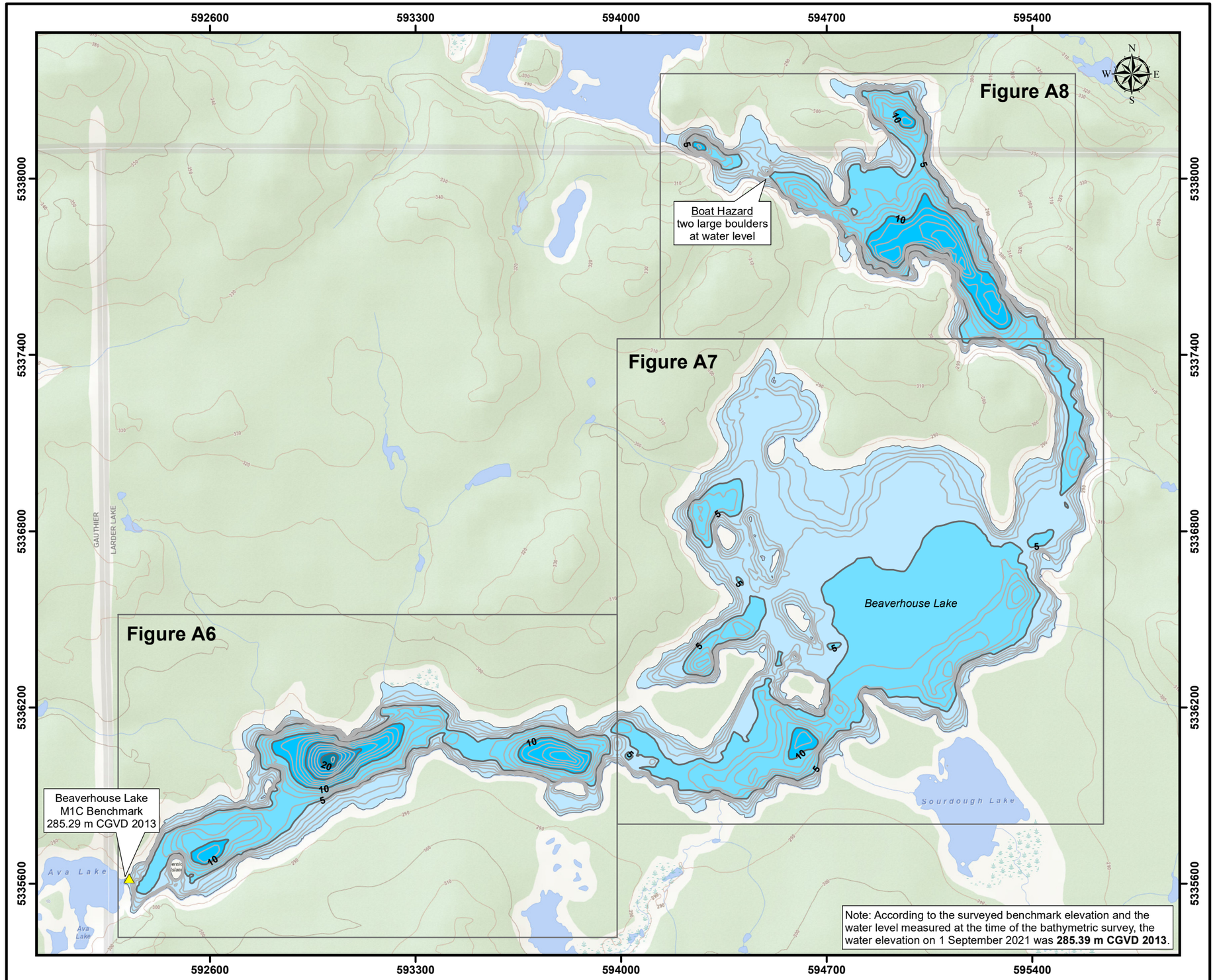
STORY environmental

AGNICO EAGLE

Agnico Eagle Mines Ltd.	2018 Aquatic Baseline Studies
Upper Beaver Site	York Lake and Misema River
Drwn by: SEC | Rvw'd by: JSP	Drawing No.: SEI-105-101-14-01-004
Date: 15-May-2019	**Figure A4**

York Lake and Misema River Bathymetry

Document Path: T:\SEI\105 Agnico\101_102_Dobie Area\Figures\101_Upper Beaver\14_Aquatic and Terrestrial Ecology\01_Aquatic Baseline Studies\SEI-105-101-14-01-004_York Lake Bathymetry 8.5x11L.mxd



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AGNICO EAGLE

Beaverhouse Lake Bathymetry

Legend

Isobaths

- 0-5 m
- 5-10 m
- 10-15 m
- 15-20 m
- 20-25 m

Minor Contours (1 m Interval)

Major Contours (5 m Interval)

Benchmark

Credits: Bathymetry data obtained 1 September 2021 with Lowrance Side Sonar. Contour lines generated with Reefmaster. Basemap from LIO. Depths related to water level measured on 1 September 2021 which was 0.10 m above M1C benchmark.The water elevation at the time of the bathymeric survey was calculated using the measured water level in relation to the benchmark (0.10 m + 285.29 m = 285.39 m), the elevations are related to CGVD 2013.

UTM NAD 83 Zone 17N CGVD 2013
Kilometres

0 0.25 0.5 1

Figure A5

Agnico Eagle Mines Limited

Upper Beaver Site

Bathymetry Study - 1 September 2021

Beaverhouse Lake

Project No: 105-101-14-01

Drawing No.: SEI-105-101-14-01-018

Drawn by: NRM	Rev'd by: JSP	Date: 22-Sep-2021

STORY environmental

592500 592800 593100 593400 593700 594000

5336500 5336200 5335900 5335600 5335300

Beaverhouse Lake
M1C Benchmark
285.29 m CGVD 2013

Bernice Island

L a k e

Note: According to the surveyed benchmark elevation and the water level measured at the time of the bathymetric survey, the water elevation on 1 September 2021 was **285.39 m CGVD 2013**.

Document Path: T:\SEI\105 Agnico\101_102_Dobie Area\Figures\101_Upper Beaver\14_Aquatic and Terrestrial Ecology\01_Aquatic Baseline Studies\2021\SEI-105-101-14-01-019_Beaverhouse Lake Bathymetry West Basin 11x17L.mxd

AGNICO EAGLE

Beaverhouse Lake West Basin

Legend

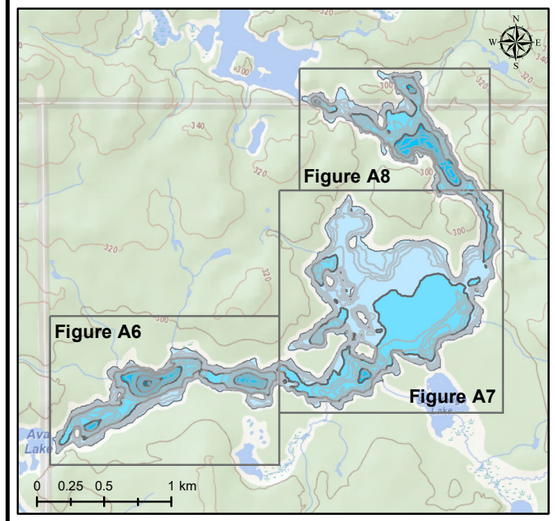
Isobaths

- 0-5 m
- 5-10 m
- 10-15 m
- 15-20 m
- 20-25 m

Minor Contours (1 m Interval)

Major Contours (5 m Interval)

Benchmark



Credits: Bathymetry data obtained 1 September 2021 with Lowrance Side Sonar. Contour lines generated with Reefmaster. Basemap from LIO. Depths related to water level measured on 1 September 2021 which was 0.10 m above M1C benchmark.The water elevation at the time of the bathymeric survey was calculated using the measured water level in relation to the benchmark (0.10 m + 285.29 m = 285.39 m), the elevations are related to CGVD 2013.

UTM NAD 83 Zone 17N CGVD 2013
Kilometres

0 0.125 0.25 0.5

Figure A6

Agnico Eagle Mines Limited

Upper Beaver Site

Bathymetry Study - 1 September 2021

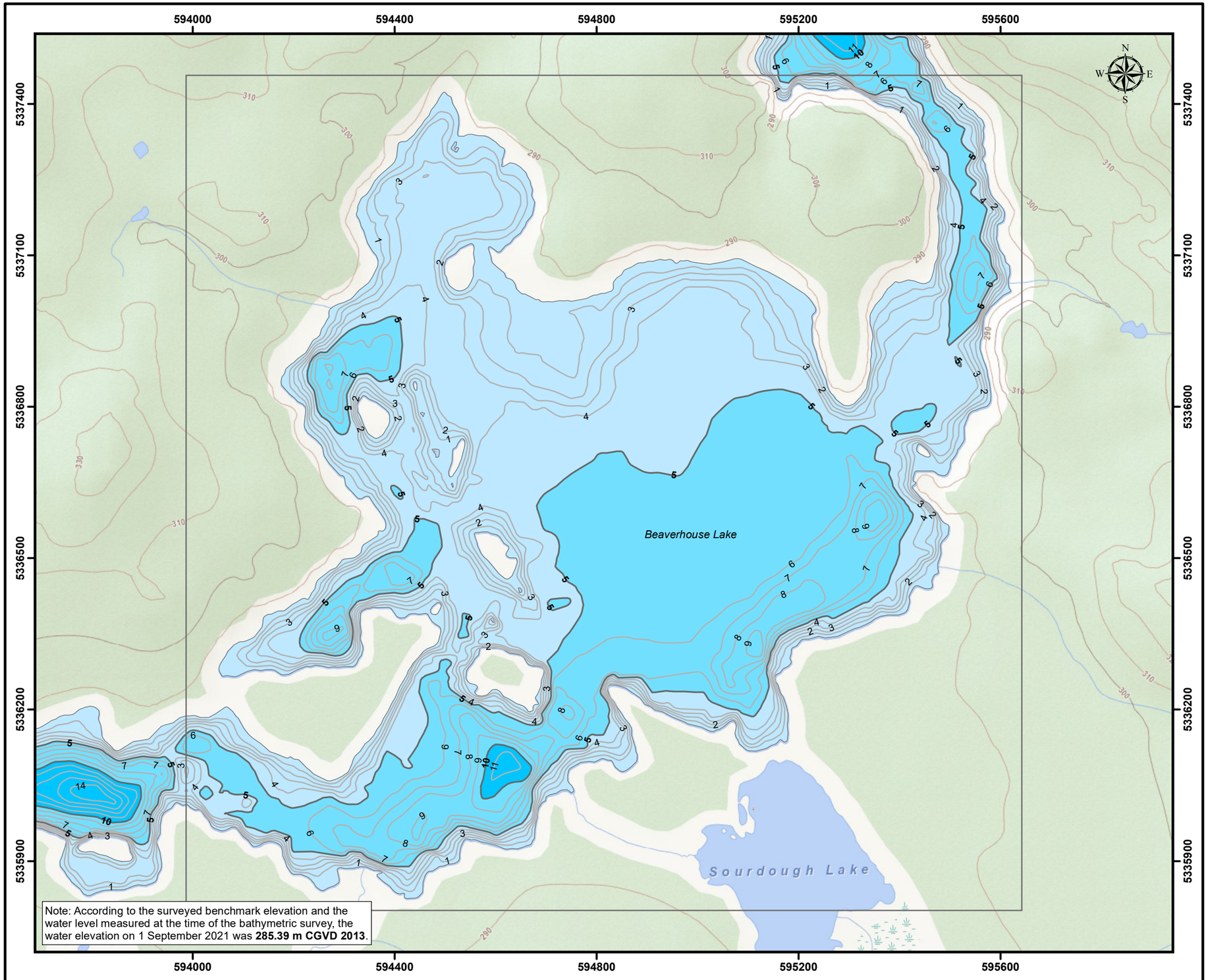
Beaverhouse Lake West Basin

Project No: 105-101-14-01

Drawing No.: SEI-105-101-14-01-019

Drawn by: NRM	Rev'd by: JSP	Date: 22-Sep-2021

STORY environmental



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AGNICO EAGLE

Beaverhouse Lake Mid Basin

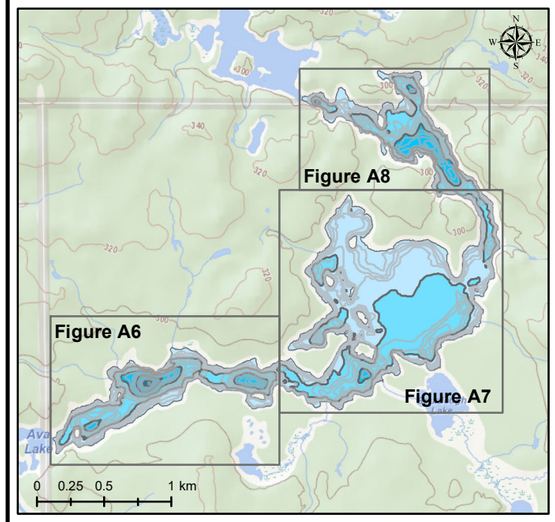
Legend

Isobaths

- 0-5 m
- 5-10 m
- 10-15 m
- 15-20 m
- 20-25 m

Minor Contours (1 m Interval)

Major Contours (5 m Interval)



Credits: Bathymetry data obtained 1 September 2021 with Lowrance Side Sonar. Contour lines generated with Reefmaster. Basemap from LIO. Depths related to water level measured on 1 September 2021 which was 0.10 m above M1C benchmark.The water elevation at the time of the bathymeric survey was calculated using the measured water level in relation to the benchmark (0.10 m + 285.29 m = 285.39 m), the elevations are related to CGVD 2013.

UTM NAD 83 Zone 17N CGVD 2013
Kilometres

0 0.125 0.25 0.5

Figure A7

Agnico Eagle Mines Limited

Upper Beaver Site

Bathymetry Study - 1 September 2021

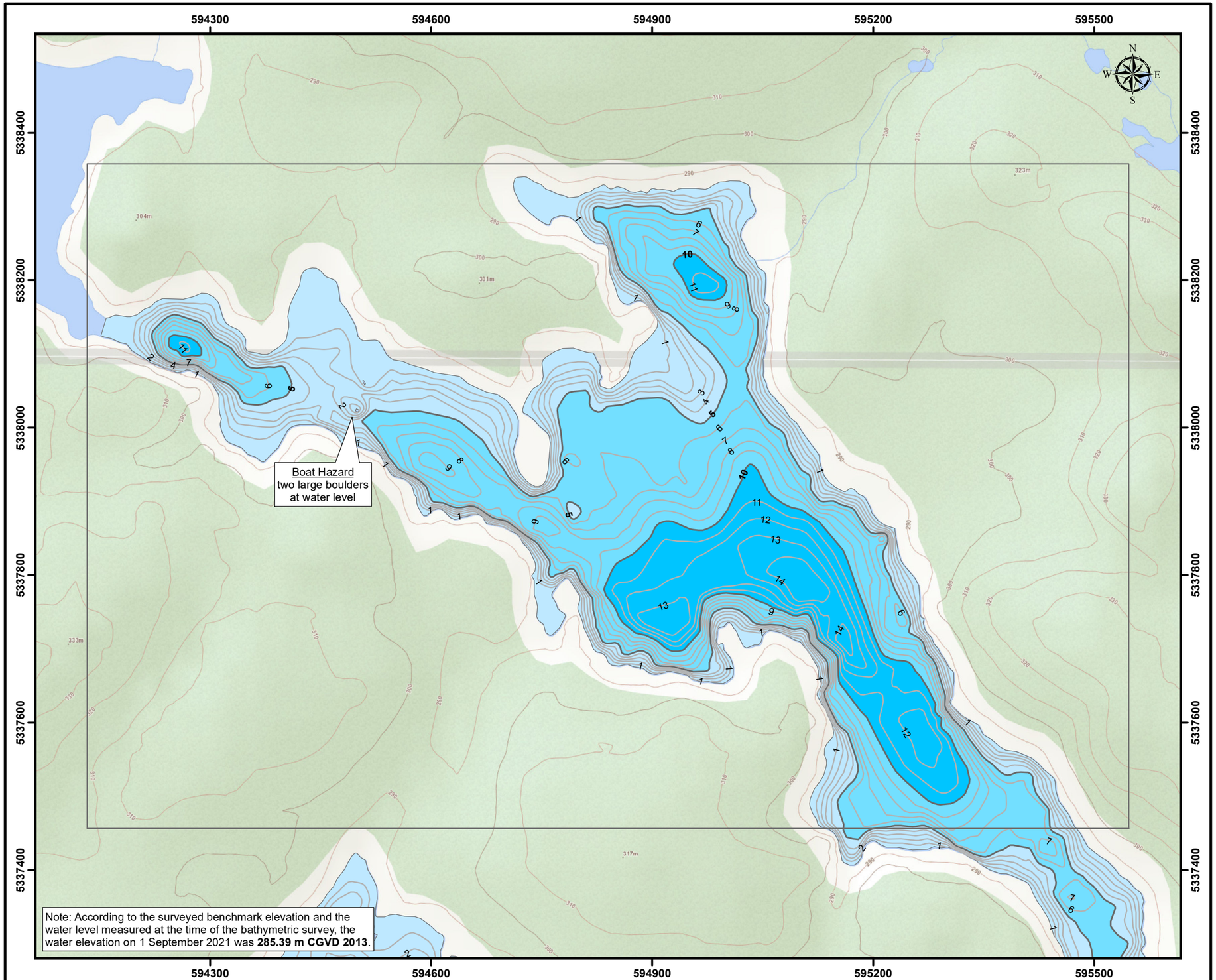
Beaverhouse Lake Mid Basin

Project No: 105-101-14-01

Drawing No.: SEI-105-101-14-01-020

Drawn by: NRM	Rev'd by: JSP	Date: 22-Sep-2021

STORY environmental



Document Path: T:\SEI\105 Agnico\101_102_Dobie Area\Figures\101_Upper Beaver\14_Aquatic and Terrestrial Ecology\01_Aquatic Baseline Studies\2021\SEI-105-101-14-01-021_Beaverhouse Lake Bathymetry North Basin 11x17L.mxd

AGNICO EAGLE

Beaverhouse Lake North Basin

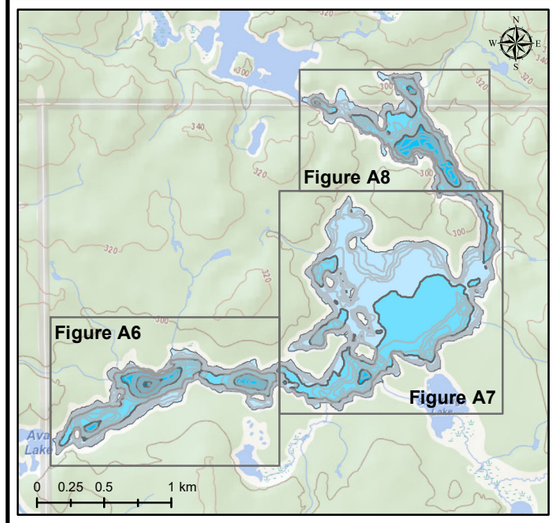
Legend

Isobaths

- 0-5 m
- 5-10 m
- 10-15 m
- 15-20 m
- 20-25 m

Minor Contours (1 m Interval)

Major Contours (5 m Interval)



Credits: Bathymetry data obtained 1 September 2021 with Lowrance Side Sonar. Contour lines generated with Reefmaster. Basemap from LIO. Depths related to water level measured on 1 September 2021 which was 0.10 m above M1C benchmark.The water elevation at the time of the bathymeric survey was calculated using the measured water level in relation to the benchmark (0.10 m + 285.29 m = 285.39 m), the elevations are related to CGVD 2013.

UTM NAD 83 Zone 17N CGVD 2013
Kilometres
0 0.1 0.2 0.4

Figure A8

Agnico Eagle Mines Limited

Upper Beaver Site

Bathymetry Study - 1 September 2021

Beaverhouse Lake North Basin

Project No: 105-101-14-01

Drawing No.: SEI-105-101-14-01-021

Drawn by: NRM	Rev'd by: JSP	Date: 22-Sep-2021

STORY environmental

APPENDIX B

Site Photographs

Site overview facing east (Spring 2023)

Site overview facing east (Spring 2023)

Site overview facing east (Spring 2023)

Site overview facing east (Spring 2023)

Plate B-1: Unnamed Stream 1 (UNS1)

Shallow stream with mucky bottom (Spring 2023)

Pool downstream of culvert on west side of Unnamed Road (Spring 2023)

Sections of stream dry up in Summer (2023)

Shallow stream with dense overhanging canopy (Summer 2023)

Plate B-2: Unnamed Stream 2 (UNS2)

Site overview facing northeast (Spring 2023)

Site overview facing northwest (Spring 2023)

Site overview facing northeast (Summer 2023)

Heavy instream vegetation and deciduous forest line pond edge (Summer 2023)

Plate B-3: Unnamed Stream 3 (UNS3)

Site overview facing west (Spring 2023)

Site overview facing north (Spring 2023)

Site overview facing west (Summer 2023)

Site overview facing west (Summer 2023)

Plate B-4: Unnamed Stream 4 (UNS4)

Site overview of UNS4-BP facing west (Spring 2023)

Site overview of UNS4-BP facing east (Spring 2023)

Site overview of UNS4-ET facing west (Summer 2023)

Site overview of UNS4-ET facing southwest (Summer 2023)

Plate B-5: Unnamed Stream 4 Beaver Pond and Unnamed Stream 4 East Tributary (UNS4-BP and UNS4-ET)

Stream goes underground through dense coniferous forest (Spring 2023)

Shallow stream flows into wetland (Spring 2023)

Stream dries up in Summer (2023)

Small, shallow pools do not provide sufficient fish habitat (Summer 2023)

Plate B-6: Unnamed Stream 5 (UNS5)

Ava Lake rapids flowing into York Lake (May 2 2023)

Ava Lake rapids flowing into York Lake (May 16 2023)

Beaverhouse Lake rapids flowing into Ava Lake (May 3 2023)

Beaverhouse Lake rapids flowing into Ava Lake (May 17 2023)

Plate B-7: York Lake and Ava Lake (YL and AL)

Site overview facing east (Spring 2022)

Site overview facing north (Spring 2022)

Site overview facing north (Fall 2022)

Sediment sample collected Fall 2022

Plate B-8: Misema River

Site overview of Ava Lake facing northeast (Spring 2022)

Site overview of York Lake facing boat launch (southeast) (Spring 2022)

Plate B-9: Ava Lake, York Lake and Beaverhouse Lake

Site overview of UNS6 facing southwest (Spring 2022)

Site overview of VC-P01 facing west (Spring 2022)

Emergent woody debris and vegetation at UNS7-P01 (Fall 2022)

Site overview of BP-S03 facing west (Fall 2022)

Plate B-10: Unnamed Streams, Beaver Ponds and Victoria Creek

Site overview facing east (Spring 2023)

Site overview facing east (Spring 2023)

Site overview facing east (Spring 2023)

Site overview facing east (Spring 2023)

Plate B-11: Unnamed Stream 1 (UNS1)

Shallow stream with mucky bottom (Spring 2023)

Pool downstream of culvert on west side of Unnamed Road (Spring 2023)

Sections of stream dry up in Summer (2023)

Shallow stream with dense overhanging canopy (Summer 2023)

Plate B-12: Unnamed Stream 2 (UNS2)

Site overview facing northeast (Spring 2023)

Site overview facing northwest (Spring 2023)

Site overview facing northeast (Summer 2023)

Heavy instream vegetation and deciduous forest line pond edge (Summer 2023)

Plate B-13: Unnamed Stream 3 (UNS3)

Site overview facing west (Spring 2023)

Site overview facing north (Spring 2023)

Site overview facing west (Summer 2023)

Site overview facing west (Summer 2023)

Plate B-14: Unnamed Stream 4 (UNS4)

Stream goes underground through dense coniferous forest (Spring 2023)

Shallow stream flows into wetland (Spring 2023)

Stream dries up in Summer (2023)

Small, shallow pools do not provide sufficient fish habitat (Summer 2023)

Plate B-15: Unnamed Stream 5 (UNS5)

APPENDIX C

Surface Water Quality Data

STATION		BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S
	Units	7-Jul-11	7-Sep-11	1-Nov-11	10-Jan-12	6-Mar-12	30-Apr-12	26-Jun-12	21-Aug-12	17-Oct-12	12-Feb-13	15-Jul-13	23-Sep-13	6-Oct-15	14-Jun-16	10-Oct-17	11-Jun-18	30-Aug-18	11-Mar-19	18-Jun-19
Field Parameters																				
Temperature	°C	-	17.66	7.35	1.4	-	6.08	20.67	18.16	7.56	1.22	23.64	13.9	13	18.2	14.6	22	19	0	19
pH	s.u.	-	7.85	7.39	9.2	7.43	7.93	6.98	8.16	7.38	6.62	7.26	8.57	7.07	7.48	7.15	6.4	7	7.9	7.2
Conductivity	µS/cm	-	56	64	65	66	60	60	67	66	70	46	46	56.7	45.9	60	44	54.6	70.8	37
Dissolved Oxygen	mg/L	-	8.4	9.78	11.81	9.07	12.45	8.29	7.47	10.14	-	9.29	9.38	8.02	8.5	-	8.56	7.05	9.04	7.02
Dissolved Oxygen %	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76.5	61.6	77.2
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123	125	156
Lab Parameters																				
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	1.9	1.1	2.08	-	-	1.49	1.41
Hardness (as CaCO3)	mg/L	23	27	26	31	32	24	27	28	29	33	25	27	30	26	27.6	-	25.8	32.9	18.5
Alkalinity, Total (as CaCO3)	mg/L	20	-	-	26	25	18	23	27	27	25	17	24	27	17	26	-	23	26	14
Acidity (as CaCO3)	mg/L	< 10	-	-	< 10	< 10	< 10	< 10	< 10	< 10	14	< 10	< 10	< 10	< 10	< 2	-	< 2	< 2	< 2
Total Dissolved Solids	mg/L	34	-	44	50	48	44	38	126	94	54	40	66	36	60	37	-	46	89	15
Total Suspended Solids	mg/L	1	1	1	1	< 1	< 1	1	< 1	2	< 1	< 1	< 1	2	< 10	3	-	2	1	1
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																				
Ammonia, Total (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.051	0.09	< 0.05	0.057	< 0.05	< 0.05	< 0.05	< 0.1	-	< 0.1	< 0.1	< 0.1
Ammonia, Unionized (as N)	mg/L	-	0.000577986	0.0000924	0.003210838	0.0000555	0.000287009	0.0000992	0.002435359	0.000330478	0.00000954	0.000530917	0.002139456	-	-	0.001	-	-	< 0.001	< 0.001
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	-	< 0.005	< 0.005	< 0.005
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.01	< 0.01	< 0.01
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1	< 1	< 3	< 2	-	< 2	< 2	< 2
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.31	0.31	0.25	-	-	< 0.5	< 0.5
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.007	0.008		-	-	-	-
Total Metals																				
Aluminum-T	mg/L	0.094	0.052	0.069	0.13	0.1	0.15	0.1	0.064	0.12	0.15	0.13	0.072	0.075	0.12	0.053	-	0.058	0.143	0.138
Antimony-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004	< 0.0009	< 0.0009
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0005	-	0.0004	0.0004	0.0004
Barium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00425	0.00529	0.00425
Beryllium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	0.000009	0.000019
Bismuth-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.000007	< 0.000007
Boron-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.004	0.005	0.003
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000003	-	0.000009	0.000241	0.000006
Calcium-T	mg/L	7.4	7.7	8.1	9.1	9.5	7.3	7.6	9.2	9.4	9.7	7.1	7.3	8.6	6.7	7.99	-	7.51	9.19	5.39
Chromium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00031	0.00065	0.00047
Cobalt-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000029	0.000083	0.000047
Copper-T	mg/L	0.001	0.001	0.001	0.0019	0.0015	0.0012	0.0017	0.0017	0.0019	0.0016	0.0014	0.0012	0.001	0.0012	0.00089	-	0.00101	0.0094	0.0011
Iron-T	mg/L	< 0.1	< 0.1	0.17	0.19	0.2	0.17	< 0.1	0.12	0.27	0.23	< 0.1	0.19	0.19	0.14	0.098	-	0.071	0.255	0.105
Lead-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00055	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00003	-	0.00008	0.00014	0.00005
Lithium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0003	0.0004	0.0003
Magnesium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1.87	-	1.71	2.43	1.22
Manganese-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0232	0.0152	0.0065
Mercury-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.00001	-	0.00001	< 0.00001	< 0.00001
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0001	-	0.00016	0.00012	0.00009
Nickel-T	mg/L	< 0.001	< 0.001	< 0.001	0.0012	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0002	-	0.0005	0.0009	0.0003

STATION		BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S
	Units	7-Jul-11	7-Sep-11	1-Nov-11	10-Jan-12	6-Mar-12	30-Apr-12	26-Jun-12	21-Aug-12	17-Oct-12	12-Feb-13	15-Jul-13	23-Sep-13	6-Oct-15	14-Jun-16	10-Oct-17	11-Jun-18	30-Aug-18	11-Mar-19	18-Jun-19
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.006	0.008
Potassium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.305	0.333	0.232
Selenium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002	< 0.002	0.00011	-	0.00009	0.0001	0.00007
Silicon-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.71	3.16	1.92
Silver-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.93	1.36	0.62
Strontium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0178	0.0198	0.0128
Thallium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.000005	< 0.000005
Tin-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00004	0.00012	< 0.00006
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00103	0.00216	0.00245
Uranium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000017	0.000017	0.000014
Vanadium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00031	0.0003	0.00031
Zinc-T	mg/L	< 0.005	< 0.005	< 0.005	0.0072	< 0.005	0.0057	< 0.005	< 0.005	0.0059	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	-	< 0.002	0.012	< 0.002
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals																				
Aluminum-D	mg/L	0.059	0.023	0.027	0.084	0.08	0.088	0.058	0.024	0.03	0.11	0.079	0.044	0.044	0.088	0.03	-	0.05	0.112	0.081
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	7.86	-	7.19	-	-
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1.87	-	1.69	-	-
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	mg/L	-	-	-
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	mg/L	-	-	-
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	mg/L	-	-	-
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	mg/L	-	-	-

STATION		BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S
	Units	14-Aug-19	23-Oct-19	1-Sep-20	4-Nov-20	29-Apr-21	17-May-21	17-Jun-21	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	1-Feb-22	15-Feb-22	16-Mar-22	19-May-22	15-Jun-22	19-Jul-22	16-Aug-22
Field Parameters																				
Temperature	°C	20	8.6	18	2.8	12	13	19	23	23	16	17	4.2	0	0.1	0.1	13	21	23	21.5
pH	s.u.	7.2	6.9	7.3	7.6	7.6	7.6	-	7.8	7.8	7.5	7.6	7.3	8.5	8.1	7.3	7.4	7.6	7.5	7.36
Conductivity	µS/cm	46.2	49.1	55.7	54.9	60	56.2	58.3	64.3	60.7	64.4	72.7	65.5	69.2	68.4	90.8	45	44.5	48.2	54.6
Dissolved Oxygen	mg/L	7.89	9.13	8.26	10.9	12.4	10.8	8.88	8.1	8.57	7.78	8.76	11	12.8	12	11.7	10.3	8.73	8.3	7.99
Dissolved Oxygen %	%	87.3	78.2	-	80.5	115	106	96.3	93.3	103	78.9	91.8	84.2	87.3	82	79.8	97.3	98.9	96.3	90.6
Oxidation-Reduction Potential	mV	171	141	-	-	107	158	-	185	91.8	170	155	211	85	128	237	209	122	173	153
Lab Parameters																				
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	0.83	1.65	0.88	1.25	0.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	20.9	23.9	27.8	29.8	28.9	29.4	31.2	30	29.1	34.6	32.9	31.6	38.9	-	41.9	22.6	24.9	25	-
Alkalinity, Total (as CaCO3)	mg/L	16	21	25	24	25	27	33	31	32	27	29	33	31	33	37	15	14	23	-
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-	-	10	5	-	9	-	-	-
Total Dissolved Solids	mg/L	34	54	57	40	69	48	60	54	68	58	64	56	68	82	78	30	36	46	-
Total Suspended Solids	mg/L	1	2	< 1	2	1	< 10	17	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Total Organic Carbon	mg/L	-	-	-	-	11	11.1	10.9	10.9	12.2	12.4	15.5	11.5	14.3	13	17.9	11.6	12.9	15.1	-
Dissolved Organic Carbon	mg/L	-	-	-	-	12	9.9	11	10.7	11.8	11.5	13.8	11.3	12.4	12.8	17.1	11.4	12.1	13.1	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																				
Ammonia, Total (as N)	mg/L	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Ammonia, Unionized (as N)	mg/L	0.002	0.001	< 0.001	< 0.001	< 0.001	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000169	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-
Chloride	mg/L	-	-	-	-	< 1	0.29	0.29	0.3	0.21	0.31	0.26	0.17	0.28	0.31	0.37	0.26	0.21	0.18	-
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	-	-	-	0.08	0.16	0.12	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1	0.11	0.12	0.18	0.08	< 0.05	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	0.08	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	< 2	< 2	5	6	< 2	2.39	2.53	2.31	2.25	2.32	2.2	2.18	2.45	2.5	2.6	1.95	1.78	2.46	-
Total Kjeldahl Nitrogen	mg/L	1.1	0.5	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-														
Total Metals																				
Aluminum-T	mg/L	0.07	0.084	0.073	0.111	0.094	-	0.097	0.072	0.086	0.071	0.064	-	0.062	0.059	0.076	0.17	0.13	0.094	-
Antimony-T	mg/L	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-
Arsenic-T	mg/L	0.0004	0.0004	0.0005	0.0006	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-
Barium-T	mg/L	0.00367	0.00475	0.00476	0.005	0.00458	0.004	0.004	0.004	0.005	0.006	0.005	0.006	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	-
Beryllium-T	mg/L	< 0.000007	< 0.000007	0.000009	< 0.000007	0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	-
Bismuth-T	mg/L	< 0.000007	< 0.000007	< 0.000007	0.000015	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-
Boron-T	mg/L	0.003	0.004	0.005	0.003	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	-
Cadmium-T	mg/L	0.000008	0.000012	0.000007	0.000008	0.000006	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000032	-
Calcium-T	mg/L	5.9	6.99	8.06	8.87	8.46	-	-	-	-	-	-	-	12	9.8	12.1	6.1	7.18	7.4	-
Chromium-T	mg/L	0.00018	0.00041	0.00043	0.0005	0.00041	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0005	< 0.0005	0.0006	0.0006	0.0006	< 0.001	-
Cobalt-T	mg/L	0.000022	0.000058	0.000031	0.000045	0.000048	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0009	< 0.0009	< 0.0009	0.00028	0.00005	0.00004	-
Copper-T	mg/L	0.0011	0.0073	0.0011	0.0011	0.001	< 0.001	0.002	0.001	0.001	< 0.001	0.001	0.001	0.0015	0.0016	0.0018	0.0016	0.0018	< 0.0016	-
Iron-T	mg/L	0.069	0.216	0.082	0.257	0.17	0.155	0.146	0.087	0.096	0.204	0.104	0.381	0.2	0.2	0.3	0.2	0.1	0.1	-
Lead-T	mg/L	0.00005	0.00006	< 0.00001	0.00011	0.00022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	-
Lithium-T	mg/L	0.0003	0.0002	0.0004	< 0.0001	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-
Magnesium-T	mg/L	1.51	1.57	1.86	1.85	1.9	-	-	-	-	-	-	-	2.6	2.4	3.3	1.48	1.5	1.7	-
Manganese-T	mg/L	0.0153	0.0388	0.0189	0.0295	0.0182	0.01	0.01	0.013	0.012	0.045	0.01	0.069	0.005	< 0.005	0.005	0.017	0.007	0.009	-
Mercury-T	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	-	< 0.0001	-	-	-	-	-	-	-	-	-	-	< 0.000005	-	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	0.00000009	0.000000052	0.00000008	0.00000013	0.00000022	0.0000002	0.00000017	0.00000013	0.00000022	0.00000011	0.00000012	-	-
Molybdenum-T	mg/L	< 0.00004	< 0.00004	0.00029	< 0.00004	0.00008	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-
Nickel-T	mg/L	0.0004	0.0004	0.0005	0.0004	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	-

STATION		BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S
	Units	14-Aug-19	23-Oct-19	1-Sep-20	4-Nov-20	29-Apr-21	17-May-21	17-Jun-21	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	1-Feb-22	15-Feb-22	16-Mar-22	19-May-22	15-Jun-22	19-Jul-22	16-Aug-22
Phosphorus-T	mg/L	0.007	0.006	0.004	< 0.003	< 0.003	< 0.02	0.019	0.007	< 0.006	0.016	0.018	< 0.006	0.014	0.01	0.007	0.023	0.008	0.037	-
Potassium-T	mg/L	0.207	0.275	0.468	0.38	0.273	-	-	-	-	-	-	-	-	-	< 0.6	-	< 0.6	-	-
Selenium-T	mg/L	0.00008	0.00007	0.00008	0.00011	0.00006	< 0.002	< 0.002	< 0.002	0.006	< 0.002	< 0.002	0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	-
Silicon-T	mg/L	1.3	1.81	2.13	2.21	2.92	2.85	2.65	1.95	1.87	2.2	1.6	1.74	2	3	3.4	2.3	1.9	1.7	-
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	-
Sodium-T	mg/L	0.85	0.95	2.04	1.11	1.05	-	-	-	-	-	-	-	1.4	1.3	1.8	0.72	0.8	1.1	-
Strontium-T	mg/L	0.0139	0.0176	0.0181	0.0183	0.0181	0.018	0.024	0.022	0.026	0.024	0.022	0.02	0.023	0.022	0.03	0.014	0.015	0.016	-
Thallium-T	mg/L	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	-
Tin-T	mg/L	< 0.00006	< 0.00006	0.00008	0.00013	0.00015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3	-	-	-	-
Titanium-T	mg/L	0.00099	0.00185	0.00074	0.00234	0.00158	0.003	0.004	0.003	0.001	0.001	0.005	0.005	0.001	0.001	0.001	0.004	0.002	0.001	-
Uranium-T	mg/L	0.000012	0.000017	0.00003	0.000016	0.000015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-
Vanadium-T	mg/L	0.00029	0.00034	0.00032	0.00039	0.00027	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-
Zinc-T	mg/L	< 0.002	0.004	< 0.002	0.002	0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.004	0.004	< 0.004	< 0.004	< 0.008	-
Zirconium-T	mg/L	-	-	-	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Dissolved Metals																				
Aluminum-D	mg/L	0.049	0.014	0.073	0.062	0.062	0.071	0.047	0.041	0.034	0.024	0.024	0.029	0.042	0.043	0.053	0.089	0.085	0.075	-
Antimony-D	mg/L	-	-	-	-	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	-	-	-	-	0.0004	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	-	-	-	-	0.00406	0.004	0.002	0.004	0.005	0.005	0.004	0.004	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	-	-	-	-	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	-	-	-	-	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-D	mg/L	-	-	-	-	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	-	-	-	-	0.000011	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	5.67	-	-	-	7.62	-	-	-	-	-	-	-	10.5	9.6	13.7	6.2	6	6.4	-
Chromium-D	mg/L	-	-	-	-	0.00051	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	0.0027	-
Cobalt-D	mg/L	-	-	-	-	0.000046	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0009	< 0.0009	< 0.0009	0.00002	0.00002	0.00007	-
Copper-D	mg/L	-	-	-	-	0.0011	< 0.001	< 0.001	< 0.001	0.002	< 0.001	0.001	< 0.001	0.001	0.0009	0.0012	0.0009	< 0.0008	0.001	-
Iron-D	mg/L	-	-	-	-	0.131	0.117	0.038	0.06	0.055	0.079	0.044	0.182	0.2	0.2	0.2	< 0.1	< 0.1	< 0.1	-
Lead-D	mg/L	-	-	-	-	< 0.00009	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Lithium-D	mg/L	-	-	-	-	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	1.47	-	-	-	1.76	-	-	-	-	-	-	-	2.5	2.3	3.2	1.5	1.5	1.6	-
Manganese-D	mg/L	-	-	-	-	0.013	0.003	< 0.002	0.005	0.004	0.007	< 0.002	0.041	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
Mercury-D	mg/L	-	-	-	-	-	< 0.0001	-	-	-	-	-	-	-	-	-	-	< 0.000005	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	0.0001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	-	-	-	-	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	< 0.003	-	-	-	-	-	-	-	-	-	0.11	-	-	-	-
Potassium-D	mg/L	-	-	-	-	0.243	-	-	-	-	-	-	-	-	-	< 0.6	-	< 0.6	-	-
Selenium-D	mg/L	-	-	-	-	0.00004	< 0.004	0.005	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	-	-	-	-	2.7	2.06	1.58	1.74	1.62	2.1	1.07	1.81	2.51	2	3.6	2.28	1.88	1.83	-
Silver-D	mg/L	-	-	-	-	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	0.97	-	-	-	-	-	-	-	1.6	1.2	1.8	0.9	0.9	1	-
Strontium-D	mg/L	-	-	-	-	0.0165	0.02	0.016	0.017	0.02	0.025	0.02	0.021	0.027	0.022	0.029	0.014	0.016	0.017	-
Thallium-D	mg/L	-	-	-	-	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	-	-	-	-	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	-	-	-	-
Titanium-D	mg/L	-	-	-	-	0.00098	0.013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Uranium-D	mg/L	-	-	-	-	-	0.00001	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	-	-	-	-	-	0.00018	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	-	-	-	-	-	0.003	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-D	mg/L	-	-	-	-	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	0.01	< 0.01	< 0.01	< 0.01

STATION		BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S
	Units	22-Sep-22	19-Oct-22	10-May-23	10-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	26-Feb-24
Field Parameters											
Temperature	°C	12.5	9.1	-	12.2	18.3	22.3	20.8	-	-	1.1
pH	s.u.	7.98	7.6	-	6.84	7.07	7.47	7.54	-	-	7.87
Conductivity	µS/cm	56.1	56.8	-	43.2	42	45.9	44.7	-	-	57.4
Dissolved Oxygen	mg/L	9.01	9.68	-	9.91	8.84	8.33	8.59	-	-	11.26
Dissolved Oxygen %	%	84.6	84.8	-	92.5	93.9	-	95.9	-	-	79.3
Oxidation-Reduction Potential	mV	-	-	-	151.6	-	-	-	-	-	-
Lab Parameters											
pH	s.u.	7.51	7.24	7.16	7.18	6.18	7.2	-	6.57	6.34	-
Turbidity	NTU	-	-	2.4	2.4	3.7	2.2	-	3	3.9	-
Hardness (as CaCO3)	mg/L	-	28.6	-	20.9	21	22.6	-	27.9	30.9	-
Alkalinity, Total (as CaCO3)	mg/L	27.6	27.7	21.7	20.9	21	22.6	-	17.9	20.9	-
Acidity (as CaCO3)	mg/L	-	-	< 5.0	< 5.0	5.1	5.8	-	5.4	6.6	-
Total Dissolved Solids	mg/L	40	54	18	< 10	38	48	-	58	54	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	-
Total Organic Carbon	mg/L	15.8	16.2	12.3	12.3	10.2	11.2	-	8.1	15.1	-
Dissolved Organic Carbon	mg/L	15.3	14.8	12.1	11.4	10	8.8	-	7.8	14.5	-
Oxidation-Reduction Potential	mV	175.1	224	-	151.6	305.6	-	-	-	-	-
Nutrients and Anions											
Ammonia, Total (as N)	mg/L	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Ammonia, Unionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.2	0.19	0.23	0.24	0.85	0.21	-	0.24	0.28	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	0.08	0.19	0.2	0.48	< 0.05	-	< 0.05	0.08	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Sulphate	mg/L	1.63	1.52	-	1.66	2.06	1.55	-	1.66	1.8	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	-	< 0.02	0.12	-
Total Metals											
Aluminum-T	mg/L	0.114	0.094	-	0.202	0.112	0.079	-	0.066	0.162	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-T	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	-
Calcium-T	mg/L	7.9	7.8	6.2	5.9	6.1	6.4	-	8.2	8.9	-
Chromium-T	mg/L	0.0008	0.0006	0.0008	0.0011	< 0.0005	< 0.0005	-	< 0.0005	0.0009	-
Cobalt-T	mg/L	0.00006	0.00042	0.00009	0.00008	0.00004	0.00003	-	0.00005	0.00011	-
Copper-T	mg/L	0.0034	0.0015	0.0014	0.0013	0.0014	0.0015	-	0.0015	0.0018	-
Iron-T	mg/L	0.3	0.3	0.3	0.3	< 0.1	< 0.1	-	0.1	0.4	-
Lead-T	mg/L	0.0001	0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	-	< 0.0001	0.0002	-
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium-T	mg/L	1.9	2	1.5	1.5	1.4	1.6	-	1.8	2.1	-
Manganese-T	mg/L	0.046	0.029	0.024	0.023	0.01	0.01	-	0.043	0.062	-
Mercury-T	mg/L	0.0000028	< 0.0000025	0.0000049	0.0000049	0.0000033	0.000003	-	< 0.0000025	0.000003	-
Methylmercury-T	mg/L	-	-	-	-	-	-	0.00000005	-	0.00000024	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-

STATION		BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S	BH1S
	Units	22-Sep-22	19-Oct-22	10-May-23	10-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	26-Feb-24
Phosphorus-T	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	-	< 0.02	0.12	-
Potassium-T	mg/L	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	-	<0.6	<0.6	-
Selenium-T	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	-	<0.0005	<0.0005	-
Silicon-T	mg/L	1.9	2.4	2.4	2.3	2.1	1.8	-	1.8	2.6	-
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-T	mg/L	1	1	0.9	0.9	0.8	0.9	-	1	1.1	-
Strontium-T	mg/L	0.021	0.019	0.015	0.014	0.014	0.015	-	0.018	0.019	-
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.002	0.002	0.004	0.005	0.002	0.001	-	0.001	0.003	-
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	-
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Dissolved Metals											
Aluminum-D	mg/L	0.07	0.072	-	0.123	0.085	0.058	-	0.032	0.075	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	0.0008	0.0006	< 0.0005	0.0006	< 0.0005	< 0.0005	-	0.0008	< 0.0005	-
Cobalt-D	mg/L	0.00004	0.00004	< 0.00006	< 0.00006	< 0.00006	< 0.00006	-	0.00007	< 0.00006	-
Copper-D	mg/L	0.0028	0.0011	0.0008	0.0008	0.0009	0.0009	-	0.0009	0.001	-
Iron-D	mg/L	0.2	0.2	0.2	0.2	< 0.1	< 0.1	-	< 0.1	0.2	-
Lead-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.025	< 0.005	0.019	0.019	< 0.005	< 0.005	-	0.018	0.037	-
Mercury-D	mg/L	0.0000037	< 0.0000025	0.0000026	< 0.0000025	0.000003	< 0.0000025	-	< 0.0000025	< 0.0000025	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-D	mg/L	1.97	2.4	-	2.91	2.24	1.81	-	1.83	2.61	-
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.02	0.02	-	0.014	0.014	0.014	-	0.019	0.016	-
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	0.001	0.001	-	0.002	< 0.001	< 0.001	-	< 0.001	0.001	-
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	-
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-

STATION		STATION		BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D
	Units		Units	7-Jul-11	7-Sep-11	1-Nov-11	6-Mar-12	30-Apr-12	26-Jun-12	21-Aug-12	17-Oct-12	12-Feb-13	15-Jul-13	23-Sep-13	30-Aug-18	11-Mar-19	18-Jun-19	14-Aug-19
Field Parameters		**Field Parameters**																
Temperature	°C	**Temperature**	°C	13.29	8.65	7.35	3.79	5.47	8.25	10.12	7.52	3.69	19.83	13.92	14	1.9	9.8	20
pH	s.u.	**pH**	s.u.	7.57	7.52	7.58	7.74	7.97	6.15	7.66	7.32	6.65	6.86	7.69	6.6	7.6	7	7.3
Conductivity	µS/cm	**Conductivity**	µS/cm	51	69	64	69	60	60	72	65	73	46	46	60.1	69.7	37.4	46.4
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	5.72	1.4	9.74	7.75	12.09	5.32	0.13	10.2	-	8.14	8.56	3.79	7.42	7.88	7.47
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	-	-	-	-	-	-	-	-	-	-	-	36.1	53.5	70	81.9
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	121	107	148	169
Lab Parameters		**Lab Parameters**																
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	-	-	-	-	-	1.08	1.14	0.89
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	25	27	26	33	25	28	30	29	39	27	28	27	34.7	17.2	20.6
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	21	-	-	28	21	22	27	28	32	17	23	26	30	20	22
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 10	-	-	< 10	< 10	< 10	10	< 10	10	< 10	< 10	< 2	< 2	< 2	< 2
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	38	-	34	52	44	22	52	80	56	42	66	54	69	15	37
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	1	2	< 1	< 1	< 1	2	2	10	< 1	2	2	5	3	1	2
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**																
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.092	< 0.05	0.074	< 0.05	< 0.1	< 0.1	< 0.1	0.1
Ammonia, Unionized (as N)	mg/L	**Ammonia, Unionized (as N)**	mg/L	0.000221334	0.000137923	0.000142781	0.000154669	0.00029942	0.00000573	0.000213097	0.000287056	0.0000125	0.000198384	0.000305131	-	< 0.001	< 0.001	0.001
Chloride	mg/L	**Chloride**	mg/L												-	-	-	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01
Fluoride	mg/L	**Fluoride**	mg/L												-	-	-	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L												-	-	-	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L												-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L												-	-	-	-
Sulphate	mg/L	**Sulphate**	mg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 2	3	< 2	< 2
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L												-	< 0.5	< 0.5	1
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L															
Total Metals		**Total Metals**																
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.13	0.083	0.081	0.094	0.16	0.13	0.12	0.11	0.14	0.14	0.077	0.102	0.132	0.144	0.079
Antimony-T	mg/L	**Antimony-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0003	< 0.0009	< 0.0009	< 0.0009
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0004	0.0005	0.0004	0.0005
Barium-T	mg/L	**Barium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00545	0.00552	0.00381	0.00394
Beryllium-T	mg/L	**Beryllium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	0.000009	0.000009	0.000007
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.000007	< 0.000007	0.00002
Boron-T	mg/L	**Boron-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.004	0.004	0.003	0.003
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000006	0.000014	0.00001	0.000009
Calcium-T	mg/L	**Calcium-T**	mg/L	7.7	8.7	8.3	9.6	7.4	7.8	9.6	9.1	9.6	6.9	7.7	7.83	9.75	5.01	5.77
Chromium-T	mg/L	**Chromium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00041	0.00056	0.00046	0.00026
Cobalt-T	mg/L	**Cobalt-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00008	0.000086	0.000051	0.000043
Copper-T	mg/L	**Copper-T**	mg/L	0.002	0.001	0.001	0.0016	0.0017	0.002	0.0018	0.0015	0.0018	0.0016	0.0015	0.00131	0.0099	0.0014	0.002
Iron-T	mg/L	**Iron-T**	mg/L	0.11	0.12	0.18	0.19	0.19	0.13	0.38	0.26	0.25	0.11	0.21	0.162	0.244	0.117	0.083
Lead-T	mg/L	**Lead-T**	mg/L	0.0054	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00481	0.01192	0.00563	0.00149
Lithium-T	mg/L	**Lithium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0003	0.0004	0.0003	0.0003
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	1.81	2.52	1.15	1.51
Manganese-T	mg/L	**Manganese-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.176	0.0144	0.00911	0.0167
Mercury-T	mg/L	**Mercury-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00013	0.00012	0.00006	< 0.00004
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.001	< 0.001	< 0.001	0.0011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0005	0.0008	0.0003	0.0005

STATION		STATION		BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D
	Units		Units	7-Jul-11	7-Sep-11	1-Nov-11	6-Mar-12	30-Apr-12	26-Jun-12	21-Aug-12	17-Oct-12	12-Feb-13	15-Jul-13	23-Sep-13	30-Aug-18	11-Mar-19	18-Jun-19	14-Aug-19
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.009	0.005	0.008
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.323	0.324	0.215	0.211
Selenium-T	mg/L	**Selenium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00008	0.00012	0.00007	0.00008
Silicon-T	mg/L	**Silicon-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	2.71	2.99	2.16	1.36
Silver-T	mg/L	**Silver-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.92	1.28	0.58	0.82
Strontium-T	mg/L	**Strontium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0181	0.0212	0.0115	0.0137
Thallium-T	mg/L	**Thallium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Tin-T	mg/L	**Tin-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00005	< 0.00006	0.00009	0.00008
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00177	0.00226	0.0023	0.00136
Uranium-T	mg/L	**Uranium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.000034	0.000021	0.000013	0.000016
Vanadium-T	mg/L	**Vanadium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00027	0.00032	0.00031	0.00029
Zinc-T	mg/L	**Zinc-T**	mg/L	0.006	0.0025	0.0025	0.011	0.0058	0.013	0.016	0.0052	0.0082	0.017	0.0066	0.004	0.008	0.004	0.005
Zirconium-T	mg/L	**Zirconium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals		**Dissolved Metals**																
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.078	0.022	0.025	0.051	0.088	0.078	0.05	0.025	0.079	0.08	0.043	0.088	0.095	0.085	0.048
Antimony-D	mg/L	**Antimony-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium-D	mg/L	**Barium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	**Boron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	8.06	-	-	5.66
Chromium-D	mg/L	**Chromium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	**Copper-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron-D	mg/L	**Iron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead-D	mg/L	**Lead-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium-D	mg/L	**Lithium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	1.88	-	-	1.5
Manganese-D	mg/L	**Manganese-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel-D	mg/L	**Nickel-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	**Silicon-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	**Silver-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	**Thallium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	**Tin-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	**Uranium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	**Zinc-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D
	Units	1-Sep-20	4-Nov-20	29-Apr-21	17-May-21	17-Jun-21	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	1-Feb-22	15-Feb-22	16-Mar-22	19-May-22	15-Jun-22	19-Jul-22	16-Aug-22	22-Sep-22	19-Oct-22
Field Parameters																				
Temperature	°C	16	2.5	7.2	7.8	7.1	17	21	12	10	3.4	0.1	0.3	3.6	9.4	16	15	14.2	12.9	8.4
pH	s.u.	7.1	7.7	7.3	7.8	-	7.7	7.3	7.3	7.3	7.5	8.3	8.1	7.4	7.2	7.9	7.3	6.78	7.72	7.6
Conductivity	µS/cm	56.5	55.7	63.5	60	65.2	65.9	64.1	70.5	104	66	22.8	69.1	77.1	47.4	49.6	52.2	60.3	59.3	39.3
Dissolved Oxygen	mg/L	6.33	11.8	11.3	10.2	4.15	4.73	7.37	6.37	2.11	11.8	11.2	13	10.3	10.3	8.72	6.63	5.01	7.44	10.5
Dissolved Oxygen %	%	-	85.1	92.6	88.5	34.2	49.3	85.4	59.6	18.7	88.3	76.8	89.8	76.7	89.8	88.4	65.8	48.7	70.5	89.3
Oxidation-Reduction Potential	mV	-	-	157	150	-	184	95.4	156	48.5	204	96	143	223	198	124	174	101.4	-	-
Lab Parameters																				
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.41	7.12
Turbidity	NTU	1.36	1.42	1.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	27.3	29.1	28.1	30.1	31.9	32.3	33.8	32.9	41.9	33.6	37	-	40	25.4	25.5	25	-	29	28.8
Alkalinity, Total (as CaCO3)	mg/L	25	24	27	29	35	32	33	31	40	33	32	33	38	16	25	22	-	26	28
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	-	-	-	-	-	-	-	10	10	-	9	-	-	-	-	-
Total Dissolved Solids	mg/L	66	15	46	40	66	40	68	58	72	70	60	80	54	50	40	54	-	50	42
Total Suspended Solids	mg/L	2	2	1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10
Total Organic Carbon	mg/L	-	-	11	11	11.4	10.6	12.4	11.6	18.8	11.6	10.6	11.1	11.5	11.1	12.4	12	-	14.9	15
Dissolved Organic Carbon	mg/L	-	-	12	10.7	11.2	10.5	11.8	11	13.5	11.5	10.5	10.4	11.4	10.7	11.6	11.7	-	14.4	14.6
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	190.9	237
Nutrients and Anions																				
Ammonia, Total (as N)	mg/L	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	0.03	0.14	< 0.02	0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	-	0.02	0.03
Ammonia, Unionized (as N)	mg/L	< 0.001	< 0.001	< 0.001	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000148	0.000873	< 0.000002	0.000042	0.000088	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-
Chloride	mg/L	-	-	0.5	0.31	0.32	0.35	0.23	0.32	0.32	0.17	0.29	0.31	0.32	0.26	0.24	0.19	-	0.26	0.2
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002
Fluoride	mg/L	-	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05
Nitrate (as N)	mg/L	-	0.08	0.17	0.15	0.16	0.05	< 0.05	0.06	< 0.05	< 0.05	0.12	0.1	0.13	0.24	0.15	0.18	-	< 0.05	0.07
Nitrate + Nitrite (as N)	mg/L	-	0.08	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02
Sulphate	mg/L	6	6	< 2	2.48	2.72	2.5	2.37	2.7	1.94	2.13	2.33	2.41	2.59	2.01	1.97	2.16	-	1.7	1.5
Total Kjeldahl Nitrogen	mg/L	< 0.5	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L																		< 0.006	0.014
Total Metals																				
Aluminum-T	mg/L	0.113	0.19	0.107	-	0.122	0.112	0.071	0.111	0.132	-	0.106	0.07	0.085	0.163	0.155	0.146	-	0.13	0.098
Antimony-T	mg/L	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001
Arsenic-T	mg/L	0.0005	0.0008	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	0.002	< 0.001
Barium-T	mg/L	0.00507	0.00521	0.00451	0.004	0.005	0.005	0.005	0.008	0.014	0.006	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	-	< 0.05	< 0.05
Beryllium-T	mg/L	0.000008	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	-	< 0.0005	< 0.0005
Bismuth-T	mg/L	< 0.000007	0.000015	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001
Boron-T	mg/L	0.004	0.003	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	-	< 0.01	< 0.01
Cadmium-T	mg/L	0.00001	0.000014	0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000032	-	< 0.000016	< 0.000016
Calcium-T	mg/L	7.97	8.66	8.19	-	-	-	-	-	-	-	11.5	10.1	10.9	7.1	7.28	7.4	-	8.3	7.8
Chromium-T	mg/L	0.00056	0.00055	0.00043	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.007	< 0.0005	< 0.0005	< 0.0005	0.0006	0.0006	< 0.001	-	0.0006	0.0006
Cobalt-T	mg/L	0.000049	0.000091	0.000082	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0009	< 0.0005	< 0.0009	< 0.0009	< 0.0009	0.00009	0.00006	0.00008	-	0.00009	0.00015
Copper-T	mg/L	0.0012	0.0031	0.0009	0.001	0.001	0.002	0.001	< 0.001	0.001	0.001	0.0021	0.0029	0.0015	0.0015	0.0016	< 0.0016	-	0.0021	0.0014
Iron-T	mg/L	0.124	0.263	0.194	0.204	0.259	0.119	0.141	0.486	1.06	0.403	0.5	0.2	0.3	0.2	0.2	0.2	-	0.3	0.3
Lead-T	mg/L	0.00003	0.00701	0.00021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0003	0.0001	0.0001	< 0.0001	< 0.0001	< 0.0002	-	0.0001	0.0001
Lithium-T	mg/L	0.0004	< 0.0001	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001
Magnesium-T	mg/L	1.8	1.81	1.85	-	-	-	-	-	-	-	2.6	2.4	2.5	1.7	1.77	1.7	-	2	1.9
Manganese-T	mg/L	0.048	0.0302	0.0242	0.017	0.029	0.013	0.1	0.79	1.57	0.072	0.335	0.026	0.037	0.025	0.017	0.035	-	0.174	0.03
Mercury-T	mg/L	< 0.00001	< 0.00001	-	< 0.0001	-	-	-	-	-	-	-	-	-	-	< 0.000005	-	-	0.0000032	< 0.0000025
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	0.00000013	0.00000004	0.0000001	0.00000039	0.00000188	0.00000022	0.0000001	0.00000015	0.00000024	0.00000011	0.00000012	-	-	-	-
Molybdenum-T	mg/L	0.00023	< 0.00004	0.00008	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001
Nickel-T	mg/L	0.0005	0.0005	0.0006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	-	< 0.003	< 0.003

STATION		BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D
	Units	1-Sep-20	4-Nov-20	29-Apr-21	17-May-21	17-Jun-21	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	1-Feb-22	15-Feb-22	16-Mar-22	19-May-22	15-Jun-22	19-Jul-22	16-Aug-22	22-Sep-22	19-Oct-22
Phosphorus-T	mg/L	0.011	< 0.003	< 0.003	< 0.02	0.016	0.009	0.019	0.015	0.024	0.013	0.026	0.011	0.007	0.018	0.007	0.052	-	-	-
Potassium-T	mg/L	0.471	0.388	0.255	-	-	-	-	-	-	-	-	-	< 0.6	-	< 0.6	-	-	0.3	0.3
Selenium-T	mg/L	0.0001	0.0001	0.00007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	-	< 0.0005	< 0.0005
Silicon-T	mg/L	2.58	2.23	2.95	3.09	3.25	2.35	1.78	4.19	3.59	1.88	3	3	2.8	2.6	2.4	2.8	-	2.2	2.5
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	-	< 0.00005	< 0.00005
Sodium-T	mg/L	1.9	1.1	1	-	-	-	-	-	-	-	1.2	1.2	1.3	0.9	0.9	1.1	-	1.1	1
Strontium-T	mg/L	0.0175	0.018	0.0177	0.018	0.018	0.02	0.022	0.027	0.026	0.02	0.023	0.024	0.024	0.015	0.016	0.017	-	0.021	0.02
Thallium-T	mg/L	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	-	< 0.0001	< 0.0001
Tin-T	mg/L	0.00008	0.00018	0.0001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Titanium-T	mg/L	0.00216	0.0024	0.00221	< 0.002	< 0.002	< 0.002	0.01	0.003	< 0.01	< 0.01	0.002	0.002	0.002	0.003	0.003	0.003	-	0.003	0.002
Uranium-T	mg/L	0.000029	0.000017	0.000016	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001
Vanadium-T	mg/L	0.00036	0.0004	0.00027	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001
Zinc-T	mg/L	< 0.002	0.01	0.003	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.02	< 0.02	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.008	-	< 0.004	< 0.004
Zirconium-T	mg/L	-	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01
Dissolved Metals																				
Aluminum-D	mg/L	0.113	0.067	0.06	0.058	0.064	0.048	0.036	0.053	0.073	0.031	0.043	0.029	0.037	0.105	0.092	0.091		0.067	0.072
Antimony-D	mg/L	-	-	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Arsenic-D	mg/L	-	-	0.0005	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Barium-D	mg/L	-	-	0.00414	0.004	0.003	0.005	0.005	0.006	0.012	0.004	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05
Beryllium-D	mg/L	-	-	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Bismuth-D	mg/L	-	-	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Boron-D	mg/L	-	-	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01
Cadmium-D	mg/L	-	-	0.000005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016
Calcium-D	mg/L	-	-	8.16	-	-	-	-	-	-	-	9.7	9.7	11.4	6.2	6.3	6.2	-	-	-
Chromium-D	mg/L	-	-	0.00055	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0005	0.0011	< 0.0005	< 0.0005	< 0.0005	0.0029	-	0.001	0.0006
Cobalt-D	mg/L	-	-	0.000057	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0009	< 0.0005	< 0.0009	< 0.0009	< 0.0009	0.00003	0.00002	0.00005	-	0.00008	0.00002
Copper-D	mg/L	-	-	0.0014	0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	0.001	0.0009	0.0009	0.0009	0.0008	0.0008	0.001	-	0.0029	0.0011
Iron-D	mg/L	-	-	0.128	0.128	0.071	0.073	0.106	0.231	0.984	0.182	0.2	0.1	0.2	< 0.1	< 0.1	0.1	-	0.2	0.2
Lead-D	mg/L	-	-	0.00027	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	0.0001	0.0001
Lithium-D	mg/L	-	-	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Magnesium-D	mg/L	-	-	1.88	-	-	-	-	-	-	-	2.4	2.4	2.7	1.6	1.5	1.7	-	-	-
Manganese-D	mg/L	-	-	0.0131	0.003	0.012	0.006	0.088	0.666	1.66	0.04	0.149	< 0.005	0.015	< 0.005	0.005	< 0.005	-	0.137	< 0.005
Mercury-D	mg/L	-	-	-	< 0.0001	-	-	-	-	-	-	-	-	-	-	< 0.000005	-	-	0.0000028	0.00000125
Methylmercury-D	mg/L	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	0.00009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Nickel-D	mg/L	-	-	0.0005	0.005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003
Phosphorus-D	mg/L	-	-	< 0.003	-	-	-	-	-	-	-	-	-	0.11	-	-	-	-	-	-
Potassium-D	mg/L	-	-	0.253	-	-	-	-	-	-	-	-	-	< 0.6	-	< 0.6	-	-	-	-
Selenium-D	mg/L	-	-	0.00006	< 0.004	< 0.004	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Silicon-D	mg/L	-	-	2.62	2.72	2.8	2.5	2.04	3.41	2.99	1.82	2.51	2	2.9	2.54	2.32	2.76	-	2.23	2.49
Silver-D	mg/L	-	-	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005
Sodium-D	mg/L	-	-	1.04	-	-	-	-	-	-	-	1.3	1.2	1.3	0.9	0.9	1	-	-	-
Strontium-D	mg/L	-	-	0.0175	0.009	0.017	0.022	0.021	0.025	0.025	0.021	0.026	0.023	0.024	0.016	0.016	0.017	-	0.019	0.021
Thallium-D	mg/L	-	-	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001
Tin-D	mg/L	-	-	0.00013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-
Titanium-D	mg/L	-	-	0.00102	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Uranium-D	mg/L	-	-	0.000012	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Vanadium-D	mg/L	-	-	0.00019	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Zinc-D	mg/L	-	-	0.004	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.012	-	< 0.004	< 0.004
Zirconium-D	mg/L	-	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01

STATION		BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D
	Units	10-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	26-Feb-24
Field Parameters								
Temperature	°C	6.5	10.9	10.4	12.4	-	-	2
pH	s.u.	6.72	7.12	7.37	6.82	-	-	7.55
Conductivity	µS/cm	42.5	44.8	49.4	50.1	-	-	61.3
Dissolved Oxygen	mg/L	11.25	8.74	9.78	5.36	-	-	12.25
Dissolved Oxygen %	%	91.5	79	85.9	50.2	-	-	88.7
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-
Lab Parameters								
pH	s.u.	7.15	6.54	6.82	-	6.41	6.35	-
Turbidity	NTU	4.4	2.1	2.5	-	3	2.6	-
Hardness (as CaCO3)	mg/L	21.2	22.7	24.1	-	27.9	29.2	-
Alkalinity, Total (as CaCO3)	mg/L	17	23	22	-	28	25	-
Acidity (as CaCO3)	mg/L	5.3	6.2	6.3	-	5.9	5.6	-
Total Dissolved Solids	mg/L	14	44	52	-	48	66	-
Total Suspended Solids	mg/L	29	< 10	< 10	-	< 10	< 10	-
Total Organic Carbon	mg/L	12	10.7	11.6	-	8.8	15.8	-
Dissolved Organic Carbon	mg/L	11.9	10.2	10.6	-	7.2	13.8	-
Oxidation-Reduction Potential	mV	159.3	210.1	-	-	-	-	-
Nutrients and Anions								
Ammonia, Total (as N)	mg/L	0.01	0.02	0.01	-	0.01	0.01	-
Ammonia, Unionized (as N)	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	0.25	0.26	0.25	-	0.23	0.26	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	0.21	0.22	0.13	-	< 0.05	0.06	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Sulphate	mg/L	1.67	1.77	1.74	-	1.67	1.6	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-
Total Phosphorus	mg/L	0.01	< 0.006	< 0.006	-	< 0.02	< 0.02	-
Total Metals								
Aluminum-T	mg/L	0.298	0.17	0.148	-	0.12	0.157	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.000016	< 0.000016	0.000018	-	< 0.000016	< 0.000016	-
Calcium-T	mg/L	6	6.6	6.7	-	8.2	8.4	-
Chromium-T	mg/L	0.001	0.0006	0.0006	-	0.0006	0.0006	-
Cobalt-T	mg/L	0.00013	0.00009	0.00006	-	0.00008	0.0003	-
Copper-T	mg/L	0.002	0.0012	0.0014	-	0.0015	0.0016	-
Iron-T	mg/L	0.4	0.2	0.2	-	0.2	0.3	-
Lead-T	mg/L	0.0003	< 0.0001	0.0001	-	0.0001	0.0002	-
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium-T	mg/L	1.5	1.5	1.8	-	1.8	2	-
Manganese-T	mg/L	0.027	0.015	0.034	-	0.047	0.059	-
Mercury-T	mg/L	0.0000057	0.0000042	0.000004	-	0.0000028	0.0000032	-
Methylmercury-T	mg/L	-	-	-	0.00000012	-	0.0000002	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-

STATION		BH1D	BH1D	BH1D	BH1D	BH1D	BH1D	BH1D
	Units	10-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	26-Feb-24
Phosphorus-T	mg/L	-	-	-	-	-	-	-
Potassium-T	mg/L	0.3	0.3	0.3	-	0.3	0.3	-
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-T	mg/L	2.5	2.8	2.7	-	1.9	2.5	-
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-T	mg/L	0.9	0.8	1	-	1	1	-
Strontium-T	mg/L	0.014	0.014	0.016	-	0.019	0.018	-
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-
Titanium-T	mg/L	0.008	0.003	0.002	-	0.003	0.003	-
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.004	< 0.004	< 0.004	-	< 0.004	0.012	-
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Dissolved Metals								
Aluminum-D	mg/L	0.112	0.102	0.101		0.035	0.077	
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.0005	< 0.0005	0.0007	-	0.0008	< 0.0005	-
Cobalt-D	mg/L	0.00006	< 0.00006	< 0.00006	-	0.00023	0.00008	-
Copper-D	mg/L	< 0.0008	0.0008	0.0009	-	0.0008	0.001	-
Iron-D	mg/L	0.2	0.1	0.1	-	< 0.1	0.2	-
Lead-D	mg/L	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Lithium-D	mg/L	< 0.001	0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	-	-	-	-	-
Manganese-D	mg/L	0.02	< 0.005	0.025	-	0.019	0.038	-
Mercury-D	mg/L	0.0000025	0.0000033	0.0000026	-	0.00000125	0.00000125	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-D	mg/L	2.9	2.82	2.73	-	1.83	2.64	-
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-	-	-
Strontium-D	mg/L	0.013	0.014	0.015	-	0.018	0.016	-
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-
Titanium-D	mg/L	0.001	0.001	0.001	-	< 0.001	0.001	-
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	-
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-

STATION		STATION		BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S
	Units		Units	1-May-12	26-Jun-12	21-Aug-12	17-Oct-12	12-Feb-13	15-Jul-13	23-Sep-13	14-Jun-16	10-Oct-17	11-Jun-18	30-Aug-18	18-Jun-19	14-Aug-19	23-Oct-19	1-Sep-20
Field Parameters		**Field Parameters**																
Temperature	°C	**Temperature**	°C	6.28	20.97	18.47	7.1	0.85	25.34	14.03	18.3	14.8	22	19	20	21	8.6	18
pH	s.u.	**pH**	s.u.	8.11	7.11	7.9	7.76	6.61	7.44	7.85	7.43	7.24	6.4	7.2	7.1	7.2	6.9	7.2
Conductivity	µS/cm	**Conductivity**	µS/cm	57	61	61	64	70	45	44	45.2	59	43	53.4	35.6	46	45.5	55.3
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	12.58	8.19	7.98	10.11	-	9.3	9.2	8.37	-	9.23	7.14	7.31	7.44	9.28	7.64
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	-	-	-	-	-	-	-	-	-	-	76.8	79.8	82.5	79.5	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	118	151	171	139	-
Lab Parameters		**Lab Parameters**																
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	< 0.1	1.52	-	-	1.23	0.78	1.87	0.92
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	23	27	29	29	31	26	26	26	26.4	-	23.1	16.9	20.2	21.5	26
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	16	22	24	26	23	17	22	17	25	-	23	13	17	17	25
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 2	-	< 2	< 2	< 2	< 2	< 2
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	76	12	56	88	46	50	64	48	54	-	49	31	54	43	169
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	2	1	1	1	< 1	2	< 1	< 10	3	-	2	1	1	2	1
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**																
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.05	< 0.05	< 0.05	0.082	< 0.05	0.094	< 0.05	< 0.05	< 0.1	-	< 0.1	< 0.1	0.1	< 0.1	< 0.1
Ammonia, Unionized (as N)	mg/L	**Ammonia, Unionized (as N)**	mg/L	0.000438749	0.000136554	0.000685591	0.000692898	0.00000904	0.001485237	0.000442291	-	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Chloride	mg/L	**Chloride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoride	mg/L	**Fluoride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	**Sulphate**	mg/L	< 1	< 1	1	1	< 1	< 1	< 1	< 1	< 2	-	< 2	< 2	< 2	< 2	5
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	0.28	0.25	-	-	< 0.5	1.1	< 0.5	< 0.5
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-
Total Metals		**Total Metals**																
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.15	0.093	0.058	0.072	0.14	0.13	0.077	0.11	0.046	-	0.047	0.13	0.07	0.086	0.074
Antimony-T	mg/L	**Antimony-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.0004	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0005	-	0.0004	0.0003	0.0004	0.0004	0.0005
Barium-T	mg/L	**Barium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.00402	0.00351	0.00351	0.0108	0.00475
Beryllium-T	mg/L	**Beryllium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.000007	0.000011	< 0.000007	0.000007	0.00001
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.000007	< 0.000007	0.00001	< 0.000007
Boron-T	mg/L	**Boron-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.004	0.003	0.003	0.004	0.005
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000003	-	0.000007	0.000008	0.000007	0.000009	0.000012
Calcium-T	mg/L	**Calcium-T**	mg/L	7.2	7.9	8.3	10	9.2	7.2	7.4	6.5	7.9	-	6.65	4.88	5.67	6.26	7.51
Chromium-T	mg/L	**Chromium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.00027	0.00045	0.00022	0.00045	0.00045
Cobalt-T	mg/L	**Cobalt-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.000031	0.00004	0.000031	0.000055	0.000037
Copper-T	mg/L	**Copper-T**	mg/L	0.0019	0.0019	0.0015	0.0014	0.0017	0.0016	0.0011	0.0013	0.00094	-	0.0009	0.0013	0.001	0.0011	0.001
Iron-T	mg/L	**Iron-T**	mg/L	0.19	< 0.1	0.13	0.17	0.22	< 0.1	0.22	0.13	0.102	-	0.076	0.103	0.078	0.219	0.094
Lead-T	mg/L	**Lead-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00004	-	0.00005	0.00007	0.00006	0.00012	0.00002
Lithium-T	mg/L	**Lithium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0002	0.0004
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	-	-	-	-	-	1.62	-	1.58	1.14	1.46	1.43	1.76
Manganese-T	mg/L	**Manganese-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.0415	0.00597	0.0187	0.0425	0.0403
Mercury-T	mg/L	**Mercury-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	0.00002	-	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00009	-	0.00009	0.00006	< 0.00004	< 0.00004	0.00036
Nickel-T	mg/L	**Nickel-T**	mg/L	0.0012	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0002	-	0.0004	0.0004	0.0004	0.0006	0.0004

STATION		STATION		BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S
	Units		Units	1-May-12	26-Jun-12	21-Aug-12	17-Oct-12	12-Feb-13	15-Jul-13	23-Sep-13	14-Jun-16	10-Oct-17	11-Jun-18	30-Aug-18	18-Jun-19	14-Aug-19	23-Oct-19	1-Sep-20
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.004	0.007	0.004	0.005
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.271	0.208	0.199	0.251	0.468
Selenium-T	mg/L	**Selenium-T**	mg/L	-	-	-	-	-	-	-	< 0.002	0.00009	-	0.00008	0.00007	0.00008	0.00011	0.00009
Silicon-T	mg/L	**Silicon-T**	mg/L	-	-	-	-	-	-	-	-	-	-	1.58	1.89	1.35	1.8	2.12
Silver-T	mg/L	**Silver-T**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.84	0.6	0.85	0.81	2.09
Strontium-T	mg/L	**Strontium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.0166	0.011	0.0131	0.0148	0.0175
Thallium-T	mg/L	**Thallium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Tin-T	mg/L	**Tin-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.00003	0.00014	< 0.00006	0.00007	0.00011
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.0008	0.00167	0.00115	0.00164	0.00083
Uranium-T	mg/L	**Uranium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.000016	0.000014	0.000012	0.000018	0.000034
Vanadium-T	mg/L	**Vanadium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	0.00026	0.00031	0.00256	0.00039	0.00032
Zinc-T	mg/L	**Zinc-T**	mg/L	0.0057	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	-	< 0.002	< 0.002	< 0.002	0.026	< 0.002
Zirconium-T	mg/L	**Zirconium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals		**Dissolved Metals**																
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.09	0.058	0.022	0.022	0.11	0.082	0.048	0.081	0.027	-	0.039	0.082	0.053	0.047	0.074
Antimony-D	mg/L	**Antimony-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium-D	mg/L	**Barium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	**Boron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	-	-	-	-	-	7.61	-	6.94	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	**Copper-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron-D	mg/L	**Iron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead-D	mg/L	**Lead-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium-D	mg/L	**Lithium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	-	-	-	-	-	1.77	-	1.64	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel-D	mg/L	**Nickel-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	**Silicon-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	**Silver-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	**Thallium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	**Tin-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	**Uranium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	**Zinc-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S
	Units	4-Nov-20	29-Apr-21	17-May-21	17-Jun-21	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	19-May-22	15-Jun-22	19-Jul-22	22-Aug-22	22-Sep-22	19-Oct-22	10-May-23	14-Jun-23	12-Jul-23
Field Parameters																			
Temperature	°C	2.6	11	14	19	22	24	16	17	4.1	13	20	24	22	12	8.9	9.6	16.9	23.3
pH	s.u.	7.7	7.4	7.9	-	7.7	7.8	7.6	7.4	7.3	7.1	8	7.4	7.28	7.61	7.5	6.63	6.94	7.26
Conductivity	µS/cm	55	57.1	54.7	57.4	60.4	59.9	61.4	71.4	62.1	43.4	44.2	47.6	54.3	53.5	54.7	41.2	40.6	44.7
Dissolved Oxygen	mg/L	12.2	12.6	11.2	8.95	8	8.47	8.07	8.84	10.9	10.3	8.84	8.17	8.03	9.67	10.3	10.7	9.12	7.31
Dissolved Oxygen %	%	89.6	109	110	97.6	90.7	104	82.3	90	83.2	97.4	96.8	96.6	92.4	89.8	89.2	93.3	94.1	85.7
Oxidation-Reduction Potential	mV	-	136	114	-	180	83.4	167	160	134	205	108	163	115.1	-	-	-	-	-
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	7.37	7.11	7.15	6.68	6.76
Turbidity	NTU	1.05	0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.1	1.8
Hardness (as CaCO3)	mg/L	29.2	25.5	27.5	33.6	30.5	32.1	31.4	32.5	31.7	23.5	22.9	26	-	26.1	25.4	20.7	21	21.4
Alkalinity, Total (as CaCO3)	mg/L	24	22	85	64	28	32	26	28	31	16	14	20	21	24	27	16	17	18
Acidity (as CaCO3)	mg/L	< 2	< 2	-	-	-	-	-	-	-	8	-	-	1.1	-	-	< 5.0	< 5.0	5.4
Total Dissolved Solids	mg/L	15	66	46	56	42	64	56	58	66	46	42	50	52	44	36	5	40	48
Total Suspended Solids	mg/L	2	1	< 10	48	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	-	11	10.9	10.6	10.7	12.6	12.8	15.4	11.9	11.8	13.3	14.1	14	15.3	15.9	12.2	10.3	11.2
Dissolved Organic Carbon	mg/L	-	11	10.1	10.8	10.2	12.3	12.3	12.7	10.8	11.5	12.2	13.8	13.5	14.9	15.2	12.2	9.9	10.7
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	206.8	232	161.6	329.5	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	0.03	0.04	< 0.02	0.08	< 0.02
Ammonia, Unionized (as N)	mg/L	< 0.001	< 0.001	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-
Chloride	mg/L	-	< 1	0.26	0.31	0.29	0.22	0.3	0.25	0.17	0.25	0.15	0.14	0.17	0.18	0.2	0.23	0.22	0.21
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.025	0.025	0.025	0.025	0.025
Nitrate (as N)	mg/L	0.08	0.17	0.11	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.18	0.07	< 0.05	< 0.05	< 0.05	0.07	0.2	0.08	< 0.05
Nitrate + Nitrite (as N)	mg/L	0.08	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	6	< 2	2.34	2.53	2.33	2.21	2.21	2.23	2.09	1.9	1.77	1.68	1.65	1.82	1.48	1.62	1.6	1.51
Total Kjeldahl Nitrogen	mg/L	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.006	0.021	< 0.006	< 0.006	< 0.006
Total Metals																			
Aluminum-T	mg/L	0.104	0.092	-	0.076	0.069	0.093	0.069	0.063	-	0.162	0.135	0.103	-	0.15	0.101	0.216	0.11	0.079
Antimony-T	mg/L	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	0.0006	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.002	< 0.002	0.003	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	0.00462	0.00377	0.004	0.004	0.004	0.005	0.006	0.004	0.005	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	0.000016	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	0.002	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	0.00001	0.000011	< 0.0001	< 0.0001	< 0.0001	0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000032	< 0.000032	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016
Calcium-T	mg/L	8.71	7.39	-	-	-	-	-	-	-	6.1	6.57	7.5	7.1	7.5	7.2	5.8	6.1	6.1
Chromium-T	mg/L	0.00054	0.00075	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0005	0.001	< 0.001	< 0.001	0.0006	0.0005	0.0006	0.0006	0.0005
Cobalt-T	mg/L	0.000047	0.000054	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00007	0.00005	0.00004	0.00005	0.00007	0.0001	0.0001	0.00005	0.00004
Copper-T	mg/L	0.0012	0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	0.002	0.001	0.0015	0.0018	< 0.0016	0.0026	0.0043	0.0017	0.0014	0.0016	0.0015
Iron-T	mg/L	0.264	0.169	0.136	0.132	0.087	0.106	0.186	0.127	0.309	0.2	0.1	0.1	0.2	0.3	0.3	0.3	< 0.1	< 0.1
Lead-T	mg/L	0.00018	0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0001	< 0.0001	< 0.0002	< 0.0002	0.0001	0.0001	0.0001	< 0.0001	< 0.0001
Lithium-T	mg/L	< 0.0001	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.002	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-T	mg/L	1.81	1.71	-	-	-	-	-	-	-	1.5	1.58	1.7	1.8	1.8	1.8	1.5	1.4	1.5
Manganese-T	mg/L	0.03	0.0186	0.01	0.006	0.013	0.027	0.041	0.01	0.024	0.017	0.009	0.009	0.019	0.039	0.03	0.023	0.009	0.011
Mercury-T	mg/L	< 0.00001	-	< 0.0001	-	-	-	-	-	-	-	< 0.000005	-	-	0.0000036	< 0.0000025	0.0000044	0.000004	0.0000028
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	0.00000005	< 0.00000004	0.00000009	0.00000013	0.00000016	0.00000019	0.00000011	0.00000012	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.00004	0.00005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	0.0004	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003

STATION		BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S	BH2S
	Units	4-Nov-20	29-Apr-21	17-May-21	17-Jun-21	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	19-May-22	15-Jun-22	19-Jul-22	22-Aug-22	22-Sep-22	19-Oct-22	10-May-23	14-Jun-23	12-Jul-23
Phosphorus-T	mg/L	< 0.003	< 0.003	< 0.02	0.014	0.009	0.014	0.016	0.022	< 0.006	0.026	0.007	< 0.006	0.016	-	-	-	-	-
Potassium-T	mg/L	0.364	0.248	-	-	-	-	-	-	-	-	< 0.6	-	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Selenium-T	mg/L	0.0001	0.00006	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	2.26	2.64	2.71	2.78	1.67	2.29	2.1	1.59	1.76	2.3	1.9	1.9	2	1.9	2.5	2.3	2.1	1.8
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	1.04	0.96	-	-	-	-	-	-	-	0.78	0.94	1.1	0.6	1	1	0.9	0.8	0.9
Strontium-T	mg/L	0.0177	0.016	0.016	0.018	0.017	0.017	0.026	0.02	0.019	0.014	0.015	0.016	0.017	0.02	0.018	0.014	0.015	0.015
Thallium-T	mg/L	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	0.00016	0.00007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.00182	0.00176	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.01	< 0.01	0.003	0.002	< 0.002	< 0.002	0.002	0.002	0.005	0.002	< 0.001
Uranium-T	mg/L	0.000017	0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	0.00036	0.00024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-T	mg/L	< 0.002	0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	0.01	< 0.004	< 0.008	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-T	mg/L	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals																			
Aluminum-D	mg/L	0.062	0.061	0.074	0.048	0.042	0.037	0.027	0.034	0.031	0.082	0.087	0.079	-	0.066	0.076	0.11	0.083	0.063
Antimony-D	mg/L	-	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	0.0005	0.0005	0.0005	0.0005	0.0005
Arsenic-D	mg/L	-	0.0003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	0.0005	0.0005	0.0005	0.0005	0.0005
Barium-D	mg/L	-	0.00361	0.003	0.003	0.003	0.004	0.004	0.004	0.004	< 0.05	< 0.05	< 0.05	< 0.1	0.025	0.025	0.025	0.025	0.025
Beryllium-D	mg/L	-	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.00025	0.00025	0.00025	0.00025	0.00025
Bismuth-D	mg/L	-	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	0.0005	0.0005	0.0005	0.0005	0.0005
Boron-D	mg/L	-	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	0.005	0.005	0.005	0.005	0.005
Cadmium-D	mg/L	-	0.000006	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000032	0.000008	0.000008	0.000008	0.000008	0.000008
Calcium-D	mg/L	-	7.24	-	-	-	-	-	-	-	5.6	5.9	6.1	7.1	-	-	-	-	-
Chromium-D	mg/L	-	0.00045	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0005	< 0.0005	0.0006	< 0.001	0.0012	0.0006	0.0005	0.00025	0.0008
Cobalt-D	mg/L	-	0.000038	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00002	0.00002	0.00003	0.00004	0.00011	0.00003	0.00007	0.00003	0.00006
Copper-D	mg/L	-	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.0009	0.0009	0.001	< 0.0016	0.0203	0.0024	0.0004	0.0004	0.0008
Iron-D	mg/L	-	0.121	0.086	0.037	0.055	0.066	0.09	0.035	0.139	< 0.1	< 0.1	< 0.1	0.1	0.2	0.2	0.1	0.05	0.05
Lead-D	mg/L	-	< 0.00009	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	0.0004	0.0001	0.00005	0.00005	0.00005
Lithium-D	mg/L	-	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	0.0005	0.0005	0.0005	0.0005	0.0005
Magnesium-D	mg/L	-	1.67	-	-	-	-	-	-	-	1.5	1.4	1.6	1.7	-	-	-	-	-
Manganese-D	mg/L	-	0.0135	0.004	< 0.002	0.003	0.01	0.008	< 0.002	0.004	< 0.005	< 0.005	< 0.005	0.012	0.017	0.0025	0.019	0.0025	0.0025
Mercury-D	mg/L	-	-	< 0.0001	-	-	-	-	-	-	-	< 0.000005	-	-	0.00000125	0.00000125	0.00000125	0.0000032	0.00000125
Methylmercury-D	mg/L	-	-	-	< 0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	0.00005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.002	0.0005	0.0005	0.0005	0.0005	0.0005
Nickel-D	mg/L	-	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	0.0015	0.0015	0.0015	0.0015	0.0015
Phosphorus-D	mg/L	-	< 0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	0.237	-	-	-	-	-	-	-	-	< 0.6	-	< 0.6	-	-	-	-	-
Selenium-D	mg/L	-	0.00008	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	0.002	0.003	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.00025	0.00025	0.00025	0.00025	0.00025
Silicon-D	mg/L	-	2.6	2.4	1.61	1.68	1.7	1.86	1.12	1.75	2.33	1.91	1.85	2.01	2	2.52	2.83	2.24	1.78
Silver-D	mg/L	-	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.0001	0.000025	0.000025	0.000025	0.000025	0.000025
Sodium-D	mg/L	-	0.94	-	-	-	-	-	-	-	0.9	0.8	1	< 0.6	-	-	-	-	-
Strontium-D	mg/L	-	0.0156	0.015	0.012	0.016	0.019	0.022	0.019	0.021	0.014	0.015	0.016	0.018	0.017	0.02	0.013	0.014	0.014
Thallium-D	mg/L	-	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0002	0.00005	0.00005	0.00005	0.00005	0.00005
Tin-D	mg/L	-	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.00025	0.00025	0.00025	0.00025	0.00025
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	0.00095	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.002	0.001	0.001	0.001	0.0005	0.0005
Uranium-D	mg/L	-	0.00001	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.002	0.0005	0.0005	0.0005	0.0005	0.0005
Vanadium-D	mg/L	-	0.00019	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.0005	0.0005	0.0005	0.0005	0.0005
Zinc-D	mg/L	-	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.008	0.008	0.005	0.002	0.002	0.002
Zirconium-D	mg/L	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	0.005	0.005	0.005	0.005	0.005

STATION		BH2S	BH2S	BH2S	BH2S
	Units	17-Aug-23	20-Sep-23	31-Oct-23	26-Feb-24
Field Parameters					
Temperature	°C	20.4	-	-	0
pH	s.u.	7.65	-	-	7.72
Conductivity	µS/cm	43.7	-	-	51.7
Dissolved Oxygen	mg/L	8.5	-	-	12.84
Dissolved Oxygen %	%	94.3	-	-	87.7
Oxidation-Reduction Potential	mV	-	-	-	-
Lab Parameters					
pH	s.u.	-	6.4	6.44	-
Turbidity	NTU	-	1.8	2.4	-
Hardness (as CaCO3)	mg/L	-	25.7	29	-
Alkalinity, Total (as CaCO3)	mg/L	-	28	25	-
Acidity (as CaCO3)	mg/L	-	5.2	7.1	-
Total Dissolved Solids	mg/L	-	46	86	-
Total Suspended Solids	mg/L	-	< 10	< 10	-
Total Organic Carbon	mg/L	-	8.7	13.3	-
Dissolved Organic Carbon	mg/L	-	7.8	12.7	-
Oxidation-Reduction Potential	mV	-	-	-	-
Nutrients and Anions					
Ammonia, Total (as N)	mg/L	-	< 0.02	0.02	-
Ammonia, Unionized (as N)	mg/L	-	-	-	-
Chloride	mg/L	-	0.23	0.26	-
Cyanide (CN), Free	mg/L	-	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	-	< 0.002	< 0.002	-
Fluoride	mg/L	-	0.025	0.025	-
Nitrate (as N)	mg/L	-	< 0.05	0.06	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-
Nitrite (as N)	mg/L	-	< 0.02	< 0.02	-
Sulphate	mg/L	-	1.76	1.76	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-
Total Phosphorus	mg/L	-	< 0.02	< 0.02	-
Total Metals					
Aluminum-T	mg/L	-	0.062	0.15	-
Antimony-T	mg/L	-	< 0.001	< 0.001	-
Arsenic-T	mg/L	-	< 0.001	< 0.001	-
Barium-T	mg/L	-	< 0.05	< 0.05	-
Beryllium-T	mg/L	-	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	-	< 0.001	< 0.001	-
Boron-T	mg/L	-	< 0.01	< 0.01	-
Cadmium-T	mg/L	-	< 0.000016	< 0.000016	-
Calcium-T	mg/L	-	7.5	8.3	-
Chromium-T	mg/L	-	0.0007	0.0006	-
Cobalt-T	mg/L	-	0.00004	0.00011	-
Copper-T	mg/L	-	0.0016	0.0016	-
Iron-T	mg/L	-	0.1	0.3	-
Lead-T	mg/L	-	< 0.0001	0.0001	-
Lithium-T	mg/L	-	< 0.001	< 0.001	-
Magnesium-T	mg/L	-	1.7	2	-
Manganese-T	mg/L	-	0.039	0.045	-
Mercury-T	mg/L	-	< 0.0000025	0.000003	-
Methylmercury-T	mg/L	0.00000005	-	0.00000021	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-
Molybdenum-T	mg/L	-	< 0.001	< 0.001	-
Nickel-T	mg/L	-	< 0.003	< 0.003	-

STATION		BH2S	BH2S	BH2S	BH2S
	Units	17-Aug-23	20-Sep-23	31-Oct-23	26-Feb-24
Phosphorus-T	mg/L	-	-	-	-
Potassium-T	mg/L	-	< 0.6	< 0.6	-
Selenium-T	mg/L	-	< 0.0005	< 0.0005	-
Silicon-T	mg/L	-	1.7	2.5	-
Silver-T	mg/L	-	< 0.00005	< 0.00005	-
Sodium-T	mg/L	-	0.9	1	-
Strontium-T	mg/L	-	0.017	0.018	-
Thallium-T	mg/L	-	< 0.0001	< 0.0001	-
Tin-T	mg/L	-	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-
Titanium-T	mg/L	-	0.001	0.003	-
Uranium-T	mg/L	-	< 0.001	< 0.001	-
Vanadium-T	mg/L	-	< 0.001	< 0.001	-
Zinc-T	mg/L	-	< 0.004	< 0.004	-
Zirconium-T	mg/L	-	< 0.01	< 0.01	-
Dissolved Metals					
Aluminum-D	mg/L	-	0.036	0.077	-
Antimony-D	mg/L	-	0.0005	0.0005	-
Arsenic-D	mg/L	-	0.0005	0.0005	-
Barium-D	mg/L	-	0.025	0.025	-
Beryllium-D	mg/L	-	0.00025	0.00025	-
Bismuth-D	mg/L	-	0.0005	0.0005	-
Boron-D	mg/L	-	0.005	0.005	-
Cadmium-D	mg/L	-	0.000008	0.000008	-
Calcium-D	mg/L	-	-	-	-
Chromium-D	mg/L	-	0.0023	0.00025	-
Cobalt-D	mg/L	-	0.00003	0.00003	-
Copper-D	mg/L	-	0.0008	0.0009	-
Iron-D	mg/L	-	0.05	0.2	-
Lead-D	mg/L	-	0.00005	0.00005	-
Lithium-D	mg/L	-	0.0005	0.0005	-
Magnesium-D	mg/L	-	-	-	-
Manganese-D	mg/L	-	0.02	0.026	-
Mercury-D	mg/L	-	0.00000125	0.00000125	-
Methylmercury-D	mg/L	-	-	-	-
Molybdenum-D	mg/L	-	0.0005	0.0005	-
Nickel-D	mg/L	-	0.0015	0.0015	-
Phosphorus-D	mg/L	-	-	-	-
Potassium-D	mg/L	-	-	-	-
Selenium-D	mg/L	-	0.00025	0.00025	-
Silicon-D	mg/L	-	1.81	2.59	-
Silver-D	mg/L	-	0.000025	0.000025	-
Sodium-D	mg/L	-	-	-	-
Strontium-D	mg/L	-	0.017	0.015	-
Thallium-D	mg/L	-	0.00005	0.00005	-
Tin-D	mg/L	-	0.00025	0.00025	-
Tungsten-D	mg/L	-	-	-	-
Titanium-D	mg/L	-	0.0005	0.001	-
Uranium-D	mg/L	-	0.0005	0.0005	-
Vanadium-D	mg/L	-	0.0005	0.0005	-
Zinc-D	mg/L	-	0.002	0.002	-
Zirconium-D	mg/L	-	0.005	0.005	-

STATION		STATION		BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D
	Units		Units	1-May-12	26-Jun-12	21-Aug-12	17-Oct-12	12-Feb-13	15-Jul-13	23-Sep-13	30-Aug-18	18-Jun-19	14-Aug-19	23-Oct-19	1-Sep-20	4-Nov-20	29-Apr-21	17-May-21	17-Jun-21
Field Parameters		**Field Parameters**																	
Temperature	°C	**Temperature**	°C	6.16	20.61	18.34	7.08	2.28	21.66	13.75	18	14	20	8.4	14	2.5	7.1	10	14
pH	s.u.	**pH**	s.u.	8.29	7.09	7.94	7.7	6.59	7.01	7.62	6.8	6.9	7.1	7	6.8	7.5	7.3	8.3	-
Conductivity	µS/cm	**Conductivity**	µS/cm	57	59	62	63	69	46	44	56	34.7	47.1	45.6	55.3	53.7	57.7	57.2	-
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	12.45	8	7.83	10.67	-	7.85	8.87	5.19	6.52	60.5	9.41	3.2	11.8	12	10.7	7.23
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	-	-	-	-	-	-	-	53.9	62.8	66	80.2	-	86.1	98.8	98.3	70
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	89.3	153	166	134	-	-	144	112	-
Lab Parameters		**Lab Parameters**																	
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	-	1.41	1.3	1.86	1.5	1.38	1.21	-	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	23	27	28	28	32	24	-	24.2	16.3	20.1	21.8	23.6	29.5	25.4	27.2	30.5
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	39	21	24	26	24	17	-	23	11	16	17	23	22	23	26	34
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 10	< 10	< 10	< 10	14	< 10	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	82	28	48	12	54	42	-	46	< 30	46	77	66	49	63	52	58
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	6	< 1	1	1	13	2	-	3	2	5	2	2	2	1	< 10	16
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	11	12	10.6
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	11	10.2	11.2
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**																	
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	0.063	< 0.05	< 0.05	0.082	< 0.05	0.055	-	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02
Ammonia, Unionized (as N)	mg/L	**Ammonia, Unionized (as N)**	mg/L	0.001643	0.000127087	0.000742794	0.000603189	0.00000973	0.000251094	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002	< 0.000002
Chloride	mg/L	**Chloride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	0.65	0.32
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002
Fluoride	mg/L	**Fluoride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.08	0.2	0.17	0.05
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.08	0.2	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 0.03	< 0.03	< 0.05	< 0.05
Sulphate	mg/L	**Sulphate**	mg/L	< 1	< 1	2	1	< 5	< 1	-	< 2	< 2	< 2	2	6	6	< 2	2.36	2.53
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	< 0.5	1.1	< 0.5	< 0.5	< 0.5	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals		**Total Metals**																	
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.19	0.092	0.057	0.071	0.17	0.14	-	0.084	0.14	0.112	0.09	0.065	0.112	0.097	-	0.077
Antimony-T	mg/L	**Antimony-T**	mg/L	-	-	-	-	-	-	-	0.0004	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	0.0005	0.0004	0.0005	0.0005	0.0005	0.0007	0.0004	< 0.003	< 0.003
Barium-T	mg/L	**Barium-T**	mg/L	-	-	-	-	-	-	-	0.00485	0.00369	0.0042	0.00413	0.00466	0.0051	0.00401	0.005	0.004
Beryllium-T	mg/L	**Beryllium-T**	mg/L	-	-	-	-	-	-	-	< 0.000007	0.000011	< 0.000007	< 0.000007	0.000008	0.000007	< 0.000007	< 0.0005	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	-	-	-	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000029	0.000073	< 0.00001	< 0.002	< 0.002
Boron-T	mg/L	**Boron-T**	mg/L	-	-	-	-	-	-	-	0.004	0.003	0.003	0.004	0.005	0.002	0.002	< 0.01	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	0.000011	0.000013	0.000013	0.000016	0.000008	0.000008	0.000008	< 0.0001	< 0.0001
Calcium-T	mg/L	**Calcium-T**	mg/L	7.1	7.7	8.4	9.4	9.4	7.8	-	7.02	4.7	5.6	6.38	6.89	8.74	7.37	-	-
Chromium-T	mg/L	**Chromium-T**	mg/L	-	-	-	-	-	-	-	0.00036	0.00047	0.00049	0.00047	0.00045	0.00057	0.00044	< 0.003	< 0.003
Cobalt-T	mg/L	**Cobalt-T**	mg/L	-	-	-	-	-	-	-	0.000071	0.000051	0.000096	0.000067	0.000034	0.00007	0.000051	< 0.0005	< 0.0005
Copper-T	mg/L	**Copper-T**	mg/L	0.0027	0.0017	0.0016	0.0013	0.0023	0.0015	-	0.00153	0.0014	0.0025	0.0038	0.001	0.0017	0.0008	0.003	0.001
Iron-T	mg/L	**Iron-T**	mg/L	0.31	< 0.1	0.15	0.16	0.26	0.29	-	0.15	0.128	0.155	0.229	0.088	0.286	0.174	0.273	0.107
Lead-T	mg/L	**Lead-T**	mg/L	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	0.00319	0.00142	0.00174	0.00065	0.00002	0.00257	0.0002	< 0.001	< 0.001
Lithium-T	mg/L	**Lithium-T**	mg/L	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0002	0.0004	< 0.0001	0.0002	< 0.01	< 0.01
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	-	-	-	-	1.62	1.1	1.49	1.42	1.56	1.88	1.69	-	-
Manganese-T	mg/L	**Manganese-T**	mg/L	-	-	-	-	-	-	-	0.102	0.0105	0.0419	0.0461	0.0372	0.0313	0.0196	0.019	0.008
Mercury-T	mg/L	**Mercury-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	-	< 0.0001	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00000011
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00069	< 0.0005	-	0.0001	0.00007	< 0.00004	< 0.00004	0.00068	< 0.00004	0.00006	< 0.002	< 0.002
Nickel-T	mg/L	**Nickel-T**	mg/L	0.0013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	0.0005	0.0004	0.0006	0.0004	0.0004	0.0004	0.0005	< 0.003	< 0.003

STATION		STATION		BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D
	Units		Units	1-May-12	26-Jun-12	21-Aug-12	17-Oct-12	12-Feb-13	15-Jul-13	23-Sep-13	30-Aug-18	18-Jun-19	14-Aug-19	23-Oct-19	1-Sep-20	4-Nov-20	29-Apr-21	17-May-21	17-Jun-21
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	-	-	-	-	-	-	-	-	0.004	0.007	0.006	0.006	< 0.003	< 0.003	< 0.02	0.018
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	-	-	-	0.293	0.198	0.206	0.252	0.438	0.369	0.241	-	-
Selenium-T	mg/L	**Selenium-T**	mg/L	-	-	-	-	-	-	-	0.00008	0.00006	0.00008	0.00008	0.00008	0.00012	0.00008	< 0.002	< 0.002
Silicon-T	mg/L	**Silicon-T**	mg/L	-	-	-	-	-	-	-	1.78	2.01	1.44	1.72	1.56	2.29	2.64	3.15	2.8
Silver-T	mg/L	**Silver-T**	mg/L	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	-	-	-	-	0.89	0.58	0.83	0.79	1.95	1.07	0.95	-	-
Strontium-T	mg/L	**Strontium-T**	mg/L	-	-	-	-	-	-	-	0.0175	0.011	0.0141	0.0152	0.016	0.0181	0.0158	0.019	0.02
Thallium-T	mg/L	**Thallium-T**	mg/L	-	-	-	-	-	-	-	0.000005	< 0.000005	< 0.000005	< 0.000005	0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003
Tin-T	mg/L	**Tin-T**	mg/L	-	-	-	-	-	-	-	0.00006	0.0001	< 0.00006	< 0.00006	0.00015	0.00017	< 0.00006	< 0.002	< 0.002
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	-	-	-	-	-	-	-	0.0014	0.00215	0.0024	0.00166	0.00061	0.00197	0.00171	0.007	< 0.002
Uranium-T	mg/L	**Uranium-T**	mg/L	-	-	-	-	-	-	-	0.000018	0.000014	0.000011	0.000017	0.000066	0.000018	0.000011	< 0.002	< 0.002
Vanadium-T	mg/L	**Vanadium-T**	mg/L	-	-	-	-	-	-	-	0.00032	0.00033	0.00036	0.00038	0.00031	0.0004	0.00025	< 0.002	< 0.002
Zinc-T	mg/L	**Zinc-T**	mg/L	0.014	0.014	0.0051	0.0071	0.0081	0.0061	-	0.004	0.004	0.006	0.011	< 0.002	0.005	< 0.002	0.026	< 0.005
Zirconium-T	mg/L	**Zirconium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004
Dissolved Metals		**Dissolved Metals**																	
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.088	0.053	0.026	0.021	0.11	0.082	-	0.052	0.086	0.06	0.049	0.065	0.072	0.058	0.056	0.057
Antimony-D	mg/L	**Antimony-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0009	< 0.001	< 0.001
Arsenic-D	mg/L	**Arsenic-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004	< 0.003	< 0.003
Barium-D	mg/L	**Barium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00384	0.003	0.003
Beryllium-D	mg/L	**Beryllium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.0005	< 0.0005
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00001	< 0.002	< 0.002
Boron-D	mg/L	**Boron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002	< 0.01	< 0.01
Cadmium-D	mg/L	**Cadmium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000005	< 0.0001	< 0.0001
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	-	-	-	-	7.16	-	-	-	-	-	7.33	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00051	< 0.003	< 0.003
Cobalt-D	mg/L	**Cobalt-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000059	< 0.0005	< 0.0005
Copper-D	mg/L	**Copper-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.001	0.001	< 0.001
Iron-D	mg/L	**Iron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.125	0.124	0.056
Lead-D	mg/L	**Lead-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00009	< 0.001	< 0.001
Lithium-D	mg/L	**Lithium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0002	< 0.01	< 0.01
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	-	-	-	-	1.7	-	-	-	-	-	1.68	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0117	0.002	< 0.002
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0001	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00008	< 0.002	< 0.002
Nickel-D	mg/L	**Nickel-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004	< 0.003	< 0.003
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.246	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00006	< 0.004	< 0.004
Silicon-D	mg/L	**Silicon-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	2.67	2.05	1.39
Silver-D	mg/L	**Silver-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.0001	< 0.0001
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.95	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0156	0.018	0.019
Thallium-D	mg/L	**Thallium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.0003	< 0.0003
Tin-D	mg/L	**Tin-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00021	< 0.002	< 0.002
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00107	0.018	0.009
Uranium-D	mg/L	**Uranium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00001	< 0.002	< 0.002
Vanadium-D	mg/L	**Vanadium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0002	< 0.002	< 0.002
Zinc-D	mg/L	**Zinc-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	0.006	< 0.005
Zirconium-D	mg/L	**Zirconium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004

STATION		BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D
	Units	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	19-May-22	15-Jun-22	19-Jul-22	16-Aug-22	22-Sep-22	19-Oct-22	10-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	26-Feb-24
Field Parameters																			
Temperature	°C	19	22	16	14	3.7	13	17	23	-	13.5	8	9.6	17.2	20	20.6	-	-	0
pH	s.u.	7.5	7.3	7.6	7.3	7.4	7.2	7.9	7.6	7.28	7.46	7.5	6.89	6.97	7.38	7.42	-	-	7.71
Conductivity	µS/cm	61.6	59.9	62.1	71.8	62.3	43.4	46.5	48.3	21.5	53.5	54.6	43.1	41.1	45.1	44.5	-	-	13.6
Dissolved Oxygen	mg/L	5.76	7.31	7.67	7.9	11.8	10.3	8.42	8.04	5.69	9.51	11.1	14.42	8.96	5.85	8.22	-	-	13.8
Dissolved Oxygen %	%	62.9	85.5	76.5	76	88.8	97.3	87.5	93.4	64.5	91.2	94	147.5	93	64.2	91.5	-	-	94.3
Oxidation-Reduction Potential	mV	172	8.1	167	162	195	204	123	164	10.5	-	-	-	-	-	-	-	-	-
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	7.34	7.11	7.15	6.68	6.76	-	6.39	6.32	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	2.8	2	2	-	1.7	3.6	-
Hardness (as CaCO3)	mg/L	33.3	32.4	31.5	30.5	33.7	22.9	24.6	26	25	27.1	27	20.9	20.5	21.2	-	26.2	28.7	-
Alkalinity, Total (as CaCO3)	mg/L	32	33	26	29	30	15	21	20	22	24	28	17	18	18	-	27	24	-
Acidity (as CaCO3)	mg/L	-	-	-	-	-	8	-	-	1.2	-	-	< 5.0	5.5	5.8	-	5.4	6.8	-
Total Dissolved Solids	mg/L	54	68	58	62	74	44	40	54	54	50	40	46	48	52	-	56	48	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	-
Total Organic Carbon	mg/L	10.6	13.2	12.6	15.1	12.2	11.1	12.6	14.1	13.8	16.3	16.1	12.1	10.2	11.4	-	8	14.3	-
Dissolved Organic Carbon	mg/L	10.4	12.2	12.2	12.1	10.9	10.8	11.7	14.1	13.5	15.8	15.4	12.1	9.9	9.4	-	7.6	14.1	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	201.6	240	159.1	314	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	0.03	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Ammonia, Unionized (as N)	mg/L	0.000155	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.33	0.22	0.28	0.27	0.17	0.24	0.2	0.18	0.18	0.16	0.26	0.24	0.23	0.21	-	0.22	0.28	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.18	0.13	< 0.05	< 0.05	< 0.05	0.07	0.2	0.09	< 0.05	-	< 0.05	0.06	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Sulphate	mg/L	2.45	2.22	2.11	2.26	2.04	1.9	1.85	1.71	1.69	1.56	1.46	1.63	1.62	1.55	-	1.63	1.75	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	< 0.006	< 0.006	0.032	0.008	< 0.006	-	< 0.02	< 0.02	-
Total Metals																			
Aluminum-T	mg/L	0.081	0.063	0.067	0.071	-	0.169	0.151	0.108	0.105	0.107	0.099	0.206	0.108	0.087	-	0.074	0.152	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.002	< 0.002	0.003	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Barium-T	mg/L	0.005	0.006	0.006	0.004	0.005	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000032	< 0.000032	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	-
Calcium-T	mg/L	-	-	-	-	-	6.61	6.5	7.4	7.2	7.7	7.5	5.9	5.9	6	-	7.7	8.2	-
Chromium-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0005	0.0006	< 0.001	< 0.001	0.0005	0.0006	0.0007	0.0006	0.0006	-	0.0005	0.0011	-
Cobalt-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00009	0.00007	0.00005	0.00005	0.00005	0.00011	0.0001	0.00007	0.00003	-	0.00005	0.00009	-
Copper-T	mg/L	0.001	0.001	< 0.001	0.001	0.001	0.0015	0.0018	0.0016	0.0034	0.0019	0.0012	0.0013	0.0013	0.0012	-	0.0016	0.0019	-
Iron-T	mg/L	0.112	0.139	0.179	0.111	0.317	0.2	0.2	0.1	0.2	0.3	0.3	0.4	< 0.1	< 0.1	-	0.2	0.3	-
Lead-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0001	< 0.0001	< 0.0002	< 0.0002	0.0001	0.0001	0.0001	< 0.0001	< 0.0001	-	< 0.0001	0.0002	-
Lithium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.002	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium-T	mg/L	-	-	-	-	-	1.55	1.5	1.8	1.8	1.9	2	1.5	1.4	1.5	-	1.7	2	-
Manganese-T	mg/L	0.024	0.047	0.042	0.015	0.031	0.017	0.012	0.011	0.032	0.037	0.031	0.024	0.01	0.016	-	0.042	0.045	-
Mercury-T	mg/L	-	-	-	-	-	-	< 0.000005	-	-	0.0000028	< 0.0000025	0.0000042	0.0000038	0.0000029	-	< 0.0000025	0.0000031	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00000009	-	0.00000024	-
Ultra-Low Level Mercury-T	mg/L	0.000000051	0.00000009	0.00000013	0.00000016	0.00000024	0.00000012	0.00000012	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-

STATION		BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D	BH2D
	Units	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	19-May-22	15-Jun-22	19-Jul-22	16-Aug-22	22-Sep-22	19-Oct-22	10-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	26-Feb-24
Phosphorus-T	mg/L	0.008	0.015	0.017	0.027	< 0.006	0.024	0.009	< 0.006	0.014	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	-	-	-	-	-	< 0.6	-	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	-	< 0.6	< 0.6	-
Selenium-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-T	mg/L	2.29	2.59	2.53	1.63	1.96	2.3	2.2	2	2.1	1.9	2.5	2.4	2.1	1.8	-	1.7	2.5	-
Silver-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-T	mg/L	-	-	-	-	-	0.79	0.8	1.1	0.7	1	1.1	0.9	0.8	0.9	-	0.9	1	-
Strontium-T	mg/L	0.025	0.025	0.025	0.02	0.018	0.014	0.015	0.017	0.018	0.019	0.018	0.014	0.014	0.015	-	0.018	0.017	-
Thallium-T	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.002	0.01	0.003	< 0.01	< 0.01	0.003	0.003	< 0.002	< 0.002	0.002	0.002	0.005	0.002	< 0.001	-	0.001	0.003	-
Uranium-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.004	< 0.008	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004	0.005	-
Zirconium-T	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Dissolved Metals																			
Aluminum-D	mg/L	0.043	0.029	0.026	0.032	0.041	0.102	0.097	0.077	0.075	0.072	0.079	0.118	0.085	0.066	-	0.036	0.078	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Barium-D	mg/L	0.004	0.004	0.004	0.004	0.003	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000032	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	-	-	-	5.7	6	6.3	7.2	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0005	0.0007	0.0014	< 0.001	0.0006	0.0005	< 0.0005	< 0.0005	0.0009	-	0.0008	< 0.0005	-
Cobalt-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00003	0.00002	0.00006	0.00003	0.00003	0.00002	0.00007	0.00009	< 0.00006	-	< 0.00006	< 0.00006	-
Copper-D	mg/L	< 0.001	0.001	< 0.001	0.001	< 0.001	0.0009	0.0009	0.0011	< 0.0016	0.003	0.0013	< 0.0008	0.0008	0.0009	-	0.0009	0.001	-
Iron-D	mg/L	0.068	0.112	0.08	0.043	0.138	< 0.1	< 0.1	< 0.1	0.1	0.2	0.2	0.2	< 0.1	< 0.1	-	< 0.1	0.2	-
Lead-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0002	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Lithium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	-	-	-	1.5	1.5	1.6	1.7	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.015	0.026	0.006	0.002	0.004	< 0.005	< 0.005	< 0.005	0.018	0.019	< 0.005	0.021	< 0.005	0.008	-	0.018	0.026	-
Mercury-D	mg/L	-	-	-	-	-	-	< 0.000005	-	-	0.0000042	< 0.0000025	0.0000026	0.0000029	< 0.0000025	-	< 0.0000025	< 0.0000025	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	0.002	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	< 0.6	-	< 0.6	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-D	mg/L	2.31	1.94	2.08	1.17	1.88	2.32	2.12	1.87	2.09	2	2.42	2.95	2.29	1.87	-	1.83	2.66	-
Silver-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-	0.9	0.9	1	< 0.6	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.019	0.019	0.023	0.019	0.02	0.015	0.016	0.016	0.018	0.018	0.02	0.014	0.014	0.014	-	0.018	0.015	-
Thallium-D	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	0.002	< 0.002	< 0.002	< 0.002	0.002	0.001	< 0.001	< 0.001	< 0.002	0.001	0.001	0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Uranium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.005	< 0.005	0.007	0.006	< 0.005	< 0.004	< 0.004	< 0.004	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	-
Zirconium-D	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-

STATION		H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S
	Units	7-Mar-12	2-May-12	27-Jun-12	22-Aug-12	18-Oct-12	14-Feb-13	16-Jul-13	7-Oct-15	14-Jun-16	11-Oct-17	13-Jun-18	30-Aug-18	12-Mar-19	20-Jun-19	14-Aug-19	23-Oct-19	1-Sep-20	16-Nov-20	18-Jun-21
Field Parameters																				
Temperature	°C	0.64	5.41	20.84	18.35	7.84	0.47	25.84	12.7	20.4	14	-	20	0.2	17	20	8.2	18	3.5	19
pH	s.u.	7.82	8.14	7.78	7.56	7.31	6.65	7.2	6.77	7.34	7.53	-	7.4	7.6	7.2	7.2	6.7	7.3	7.2	-
Conductivity	µS/cm	71	63	62	64	65	75	49	51	47.7	61	-	61.9	53.1	39.3	50.5	52	60.3	56	58.7
Dissolved Oxygen	mg/L	11.74	11.94	8.08	7.75	9.3	-	8.78	8.21	8.4	-	-	7.58	9.72	6.68	7.95	8.9	7.73	11.8	8.63
Dissolved Oxygen %	%	-	-	-	-	-	-	-	-	-	-	-	83.1	66.7	69.9	87.9	75.5	-	88.5	92.9
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	126	106	155	174	148	-	108	-
Lab Parameters																				
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	1.5	0.8	2.15	1.63	-	1.16	1.45	1.01	1.37	0.76	1.62	-
Hardness (as CaCO3)	mg/L	34	27	31	33	31	35	27	28	26	32.2	25.8	28.9	31.2	199	23.3	25	29.9	28.7	28.8
Alkalinity, Total (as CaCO3)	mg/L	30	24	25	29	28	28	21	22	21	25	22	25	28	14	24	23	29	25	38
Acidity (as CaCO3)	mg/L	11	11	10	< 10	< 10	15	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Total Dissolved Solids	mg/L	60	72	40	56	50	80	60	70	54	66	83	63	60	46	69	54	63	60	64
Total Suspended Solids	mg/L	< 1	1	2	< 1	1	< 1	< 1	2	< 1	2	2	2	1	2	8	1	< 1	2	< 10
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																				
Ammonia, Total (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	0.082	< 0.05	0.079	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02
Ammonia, Unionized (as N)	mg/L	0.000143295	0.000438251	0.000620394	0.000315338	0.000262185	0.0000096	0.000748799	-	-	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.05
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	0.06
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.03	< 0.05
Sulphate	mg/L	< 1	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	7	< 2	2.46
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	0.38	0.24	< 0.5	< 0.5	-	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	0.013			-	-	-	-	-	-	-	-	-
Total Metals																				
Aluminum-T	mg/L	0.084	0.11	0.082	0.054	0.081	0.14	0.13	0.13	0.11	0.048	0.089	0.04	0.076	0.134	0.071	0.084	0.073	0.118	0.149
Antimony-T	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.0002	0.0004	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0004	0.0005	0.0004	0.0003	0.0005	0.0004	0.0004	0.0006	0.0006	< 0.003
Barium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.0034	0.00335	0.00332	0.00511	0.00291	0.0035	0.00377	0.00396	0.003
Beryllium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.000009	< 0.000007	< 0.000007	0.00001	< 0.000007	< 0.000007	0.000009	0.00001	< 0.0005
Bismuth-T	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000009	< 0.002
Boron-T	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.002	0.004	0.004	0.128	0.003	0.003	0.005	0.005	< 0.01
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000005	0.000009	0.000006	0.000009	0.000008	0.000007	0.000016	0.000006	0.000011	< 0.0001
Calcium-T	mg/L	11	7.5	8.4	8.6	9.4	10	8.3	8.2	6.9	9.25	7.24	8.2	9.06	60.7	6.43	7.19	8.61	8.3	-
Chromium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.0005	0.00033	0.00047	0.0006	0.00026	0.00043	0.00055	0.00055	< 0.003
Cobalt-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.000038	0.000022	0.000048	0.000057	0.000028	0.00003	0.000037	0.000056	< 0.0005
Copper-T	mg/L	< 0.001	0.0012	0.0018	0.0011	0.0016	0.001	0.0016	0.0012	0.0013	0.00095	0.00117	0.00086	0.0076	0.0011	0.001	0.001	0.0012	0.001	< 0.001
Iron-T	mg/L	0.33	0.25	0.18	0.15	0.33	0.4	0.22	0.4	0.2	0.174	0.17	0.123	0.33	0.214	0.185	0.253	0.227	0.468	0.166
Lead-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00004	0.00012	0.00005	0.00004	0.00006	0.00009	0.00002	0.00006	0.00011	< 0.001
Lithium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.0002	0.0003	0.0004	0.147	0.0002	0.0002	0.0004	0.0005	< 0.01
Magnesium-T	mg/L	-	-	-	-	-	-	-	1.9	-	2.2	1.87	2.04	2.08	11.5	1.75	1.72	2.04	1.94	-
Manganese-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.0124	0.00904	0.0152	0.0448	0.00898	0.0295	0.0129	0.0633	0.014
Mercury-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.00001	0.00002	0.00003	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00007	0.00009	0.00009	0.0001	0.00016	< 0.00004	< 0.00004	0.00039	0.00004	< 0.002
Nickel-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0011	< 0.001	< 0.001	0.0004	0.0005	0.0004	0.0005	0.0006	0.0005	0.0005	0.0005	< 0.0001	< 0.003

STATION		H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S
	Units	7-Mar-12	2-May-12	27-Jun-12	22-Aug-12	18-Oct-12	14-Feb-13	16-Jul-13	7-Oct-15	14-Jun-16	11-Oct-17	13-Jun-18	30-Aug-18	12-Mar-19	20-Jun-19	14-Aug-19	23-Oct-19	1-Sep-20	16-Nov-20	18-Jun-21
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.006	0.014	0.007	0.008	0.007	0.009	0.029
Potassium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.279	0.261	0.311	2.15	0.182	0.252	0.467	0.32	-
Selenium-T	mg/L	-	-	-	-	-	-	-	< 0.002	< 0.002	0.00006	0.00007	0.00008	0.00008	0.0002	0.00008	0.00008	0.0001	0.00011	0.004
Silicon-T	mg/L	-	-	-	-	-	-	-	-	-	-	2.12	2.23	4.12	2.67	1.96	2.64	3.19	3.05	2.94
Silver-T	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001
Sodium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.91	1.04	1.4	81.8	1.03	0.95	2.44	1.07	-
Strontium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.0166	0.0181	0.0211	0.974	0.0139	0.0169	0.0183	0.0173	0.016
Thallium-T	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003
Tin-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.00007	0.00003	0.00014	0.00009	0.00008	0.00008	0.00008	0.00011	< 0.002
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.00149	0.00068	0.00123	0.00211	0.00125	0.00136	0.00104	0.00217	0.016
Titanium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.000015	0.000016	0.000016	0.000025	0.00001	0.00001	0.00004	0.000028	< 0.002
Vanadium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.00033	0.00031	0.00033	0.00047	0.00035	0.00031	0.00036	0.00034	< 0.002
Zinc-T	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.005
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.004
Dissolved Metals																				
Aluminum-D	mg/L	0.052	0.072	0.048	0.029	0.043	0.092	0.069	0.098	0.072	0.024	0.05	0.038	0.055	0.073	0.051	0.065	0.073	0.078	0.042
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.001
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0005
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Cadmium-D	mg/L	-	-	-	-	8.85	-	-	7.9	-	7.9	-	-	-	-	-	-	-	-	< 0.0001
Calcium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	8.18	-	-	-	-	-	-	-
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0005
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.001
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.094
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.001
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Magnesium-D	mg/L	-	-	-	-	2.08	-	-	2	-	1.75	-	2	-	-	-	-	-	-	-
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.004
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.18
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0001
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.015
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0003
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.009
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.004

STATION		H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S
	Units	19-Aug-21	18-Nov-21	16-Mar-22	19-May-22	17-Aug-22	24-Mar-23	10-May-23	17-Aug-23	17-Aug-23	15-Oct-23	15-Oct-23	15-Nov-23	27-Feb-24
Field Parameters														
Temperature	°C	26	5	0.3	12	21.1	0.1	8.9	-	19.2	-	-	3.8	0.1
pH	s.u.	7.6	7.1	7.6	8.1	8.1	8.38	6.73	-	7.32	-	-	7.69	7.58
Conductivity	µS/cm	63.9	63.6	85.5	44.2	56	64.6	40.4	-	51.3	-	-	49.4	63.8
Dissolved Oxygen	mg/L	8.37	9.46	12.5	10.1	7.2	12.31	11.46	-	7.66	-	-	10.06	12.13
Dissolved Oxygen %	%	106	74.1	86.9	93.6	79.5	84.4	99	-	83.2	-	-	76.3	83.2
Oxidation-Reduction Potential	mV	5.1	186	195	120	117	-	-	-	-	-	-	-	-
Lab Parameters														
pH	s.u.	-	-	-	-	-	7.3	7.13	6.7	6.7	6.17	6.15	-	-
Turbidity	NTU	-	-	-	-	-	2.7	3.3	3.6	2.6	2	2	-	-
Hardness (as CaCO3)	mg/L	33.6	33.4	42.1	22.7	-	31.5	19.2	28.5	28.2	26.8	24.7	-	-
Alkalinity, Total (as CaCO3)	mg/L	42	32	47	16	-	26	17	29	30	22	20	-	-
Acidity (as CaCO3)	mg/L	-	-	-	8	-	5	< 5.0	5.1	5.5	6.6	7.8	-	-
Total Dissolved Solids	mg/L	114	72	68	46	-	56	48	54	58	54	58	-	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	-	-
Total Organic Carbon	mg/L	14.6	12.6	12.2	11.5	-	11.6	12.4	11.1	10.8	15.2	15.4	-	-
Dissolved Organic Carbon	mg/L	14	12.1	11.9	11.2	-	10.6	11.7	< 0.5	0.6	10.7	11.1	-	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	218.4	66.6	-	-	-	-	-	-
Nutrients and Anions														
Ammonia, Total (as N)	mg/L	0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	0.02	0.03	-	-
Ammonia, Unionized (as N)	mg/L	0.000239	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.33	0.34	0.54	0.31	-	0.49	0.26	0.27	0.28	0.33	0.32	-	-
Cyanide (CN), Free	mg/L	0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	0.18	0.17	-	0.17	0.18	< 0.05	< 0.05	0.1	0.1	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.05	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-
Sulphate	mg/L	1.99	2.02	2.66	1.85	-	2.2	1.56	1.77	1.77	1.64	1.59	-	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	-	-
Total Metals														
Aluminum-T	mg/L	0.14	-	0.058	0.176	-	0.097	0.217	0.07	0.075	0.123	0.139	-	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Arsenic-T	mg/L	< 0.003	< 0.003	< 0.001	< 0.001	-	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Barium-T	mg/L	0.004	0.004	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
Beryllium-T	mg/L	< 0.0005	< 0.001	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Bismuth-T	mg/L	< 0.002	-	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.000032	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	-
Calcium-T	mg/L	-	-	12.2	6.49	-	9	5.4	8.1	8	7.6	7.1	-	-
Chromium-T	mg/L	< 0.003	< 0.003	0.0006	0.0009	-	0.002	0.0007	0.0006	0.0006	0.0006	0.0006	-	-
Cobalt-T	mg/L	< 0.0005	< 0.0005	< 0.0009	0.00011	-	0.00008	0.00011	0.00006	0.00006	0.00008	0.00008	-	-
Copper-T	mg/L	0.001	< 0.001	0.0013	0.0015	-	0.0017	0.0015	0.0018	0.0013	0.0018	0.0017	-	-
Iron-T	mg/L	0.2	0.414	0.4	0.3	-	0.4	0.3	0.2	0.2	0.5	0.5	-	-
Lead-T	mg/L	< 0.001	< 0.001	< 0.0001	0.0001	-	< 0.0001	0.0001	0.0001	< 0.0001	0.0001	< 0.0001	-	-
Lithium-T	mg/L	< 0.01	< 0.01	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Magnesium-T	mg/L	-	-	2.8	1.6	-	2.2	1.4	2	2	1.9	1.7	-	-
Manganese-T	mg/L	0.012	0.076	0.015	0.022	-	0.018	0.03	0.015	0.015	0.113	0.107	-	-
Mercury-T	mg/L	-	-	-	-	-	0.0000032	0.0000053	< 0.0000025	< 0.0000025	0.0000048	0.0000033	-	-
Methylmercury-T	mg/L	-	-	-	-	-	0.00000019	-	0.00000011	0.00000012	0.00000019	0.00000021	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-

STATION		H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S	H1S
	Units	19-Aug-21	18-Nov-21	16-Mar-22	19-May-22	17-Aug-22	24-Mar-23	10-May-23	17-Aug-23	17-Aug-23	15-Oct-23	15-Oct-23	15-Nov-23	27-Feb-24
Phosphorus-T	mg/L	0.043	0.027	0.01	0.025	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	-	< 0.6	-	-	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	-	-
Selenium-T	mg/L	< 0.002	< 0.001	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Silicon-T	mg/L	2.53	2.9	4.3	2.5	-	3.8	2.2	2.2	2.2	3.1	2.9	-	-
Silver-T	mg/L	< 0.0001	< 0.0001	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-
Sodium-T	mg/L	-	-	1.73	0.8	-	1.6	0.8	1.2	1.2	1.5	1.6	-	-
Strontium-T	mg/L	0.015	0.018	0.026	0.013	-	0.021	0.013	0.019	0.018	0.016	0.015	-	-
Thallium-T	mg/L	< 0.0003	< 0.0003	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-
Tin-T	mg/L	< 0.002	< 0.002	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Tungsten-T	mg/L	< 0.002	< 0.01	0.001	0.004	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	1	-	-	0.002	0.005	0.001	0.001	0.002	0.002	-	-
Uranium-T	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Vanadium-T	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Zinc-T	mg/L	< 0.005	< 0.02	< 0.008	< 0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-
Zirconium-T	mg/L	< 0.004	< 0.004	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-
Dissolved Metals														
Aluminum-D	mg/L	0.041	0.05	0.036	0.086	-	0.076	0.103	0.038	0.039	0.1	0.099	-	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Arsenic-D	mg/L	0.008	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Barium-D	mg/L	0.004	0.003	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Bismuth-D	mg/L	< 0.002	-	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-
Cadmium-D	mg/L	0.0003	< 0.0001	< 0.000032	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	-
Calcium-D	mg/L	-	-	12.3	5.6	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.002	< 0.003	< 0.0005	< 0.0005	-	0.0007	< 0.0005	0.0011	0.001	0.0014	< 0.0005	-	-
Cobalt-D	mg/L	< 0.0005	< 0.0005	< 0.0009	0.00002	-	0.00005	< 0.00006	0.00097	0.001	0.00006	< 0.00006	-	-
Copper-D	mg/L	0.001	0.001	< 0.0008	< 0.0008	-	0.001	< 0.0008	< 0.0008	< 0.0008	0.0009	0.0009	-	-
Iron-D	mg/L	0.171	1.9	0.3	< 0.1	-	0.3	0.2	0.1	0.1	0.3	0.3	-	-
Lead-D	mg/L	< 0.0005	< 0.0005	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-
Lithium-D	mg/L	< 0.01	< 0.01	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Magnesium-D	mg/L	-	-	3	1.5	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.003	0.053	0.013	< 0.005	-	0.016	0.028	0.007	0.007	0.086	0.084	-	-
Mercury-D	mg/L	-	-	-	-	-	0.000003	0.0000029	< 0.0000025	< 0.0000025	0.0000033	0.0000032	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Nickel-D	mg/L	< 0.003	< 0.001	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-
Phosphorus-D	mg/L	-	-	0.1	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	< 0.6	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	0.005	< 0.001	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Silicon-D	mg/L	2.8	2.82	4.82	2.49	-	3.73	2.9	2.4	2.42	2.84	2.8	-	-
Silver-D	mg/L	0.0001	< 0.0001	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-
Sodium-D	mg/L	-	-	1.7	1	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.011	0.02	0.024	0.014	-	0.019	0.012	0.017	0.018	0.017	0.018	-	-
Thallium-D	mg/L	< 0.0003	< 0.0003	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-
Tin-D	mg/L	< 0.002	< 0.002	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Tungsten-D	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	1.2	-	-	< 0.001	0.001	< 0.001	< 0.001	0.001	0.001	-	-
Uranium-D	mg/L	< 0.0005	< 0.0005	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Vanadium-D	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Zinc-D	mg/L	< 0.005	< 0.005	< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-
Zirconium-D	mg/L	< 0.004	< 0.004	0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-

STATION		STATION		H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D
	Units		Units	7-Mar-12	2-May-12	27-Jun-12	22-Aug-12	18-Oct-12	14-Feb-13	16-Jul-13	30-Aug-18	12-Mar-19	20-Jun-19	14-Aug-19	23-Oct-19	1-Sep-20	16-Nov-20	18-Jun-21
Field Parameters		**Field Parameters**																
Temperature	°C	**Temperature**	°C	2.72	5.1	16.53	14.22	7.79	0.47	19.43	19	2.7	13	18	8.2	17	2.6	11
pH	s.u.	**pH**	s.u.	8.06	8.28	7.72	7.18	7.25	6.95	6.48	7.3	7.3	7	7.1	6.8	7.2	7.3	-
Conductivity	µS/cm	**Conductivity**	µS/cm	66	63	63	64	66	75	48	62.3	51.6	40.3	50	52	60.7	56.2	54.7
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	10.3	11.73	5.79	3.31	9.18	-	7.47	7.33	6.89	7.93	6.86	8.65	7.76	12	7.96
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	-	-	-	-	-	-	-	78.2	50.9	75.8	72.1	73.1	-	87.3	72.3
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	124	141	-	174	144	-	112	-
Lab Parameters		**Lab Parameters**																
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	-	1.33	2.01	0.9	1.34	0.69	1.77	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	33	25	31	28	31	33	26	28.9	27.6	20.1	22.4	25.6	32.3	28.8	29.5
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	27	22	25	24	29	27	20	28	29	24	22	24	27	29	33
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	10	< 10	11	< 10	< 10	15	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	52	60	54	56	34	56	62	57	83	63	89	54	77	60	58
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 1	2	22	4	2	< 1	< 1	4	2	2	2	2	2	5	< 10
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.1
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.8
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**																
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	0.073	< 0.05	2.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.02
Ammonia, Unionized (as N)	mg/L	**Ammonia, Unionized (as N)**	mg/L	0.000294263	0.000586383	0.000396755	0.0000973	0.000202569	0.0000192	0.002413383	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002
Chloride	mg/L	**Chloride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002
Fluoride	mg/L	**Fluoride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	0.07
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.03	< 0.05
Sulphate	mg/L	**Sulphate**	mg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	7	< 2	2.44
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals		**Total Metals**																
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.091	0.13	0.096	0.19	0.089	0.12	0.14	0.071	0.085	0.135	0.096	0.089	0.073	0.111	0.108
Antimony-T	mg/L	**Antimony-T**	mg/L	-	-	-	-	-	-	-	0.0003	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0005	0.0005	0.0004	0.0004	0.0005	0.0006	0.0007	< 0.003
Barium-T	mg/L	**Barium-T**	mg/L	-	-	-	-	-	-	-	0.00367	0.00328	0.00355	0.00339	0.00363	0.00381	0.00395	0.003
Beryllium-T	mg/L	**Beryllium-T**	mg/L	-	-	-	-	-	-	-	0.000007	0.000009	0.000008	0.000008	< 0.000007	0.000008	0.000007	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	-	-	-	-	-	-	< 0.000007	0.000009	0.000015	< 0.000007	< 0.000007	0.000007	0.000008	< 0.002
Boron-T	mg/L	**Boron-T**	mg/L	-	-	-	-	-	-	-	0.004	0.004	0.005	0.003	0.003	0.006	0.004	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000009	0.000008	0.000016	0.00001	0.000009	0.000006	0.000014	< 0.0001
Calcium-T	mg/L	**Calcium-T**	mg/L	11	8.3	8.3	8.3	9.2	10	8.1	8.23	7.92	5.78	6.2	7.27	9.29	8.33	-
Chromium-T	mg/L	**Chromium-T**	mg/L	-	-	-	-	-	-	-	0.0004	0.00047	0.00061	0.00024	0.00053	0.00051	0.00054	< 0.003
Cobalt-T	mg/L	**Cobalt-T**	mg/L	-	-	-	-	-	-	-	0.000041	0.000041	0.000052	0.000042	0.000049	0.000035	0.000073	< 0.0005
Copper-T	mg/L	**Copper-T**	mg/L	< 0.001	0.0013	0.0017	0.0013	0.0014	0.0011	0.002	0.00129	0.0084	0.0015	0.0013	0.0018	0.0011	0.0017	0.001
Iron-T	mg/L	**Iron-T**	mg/L	0.32	0.3	0.2	0.21	0.37	0.37	0.27	0.186	0.255	0.225	0.212	0.264	0.223	0.448	0.171
Lead-T	mg/L	**Lead-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00616	0.00585	0.00135	0.00156	0.0004	0.00006	0.00188	< 0.001
Lithium-T	mg/L	**Lithium-T**	mg/L	-	-	-	-	-	-	-	0.0003	0.0004	0.001	0.0003	0.0002	0.0004	0.0004	< 0.01
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	-	-	-	-	2.02	1.89	1.37	1.69	1.82	2.2	1.95	-
Manganese-T	mg/L	**Manganese-T**	mg/L	-	-	-	-	-	-	-	0.0214	0.0102	0.0145	0.0149	0.0319	0.0153	0.0611	0.012
Mercury-T	mg/L	**Mercury-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00009	0.00007	0.00006	< 0.00004	< 0.00004	0.00061	0.00006	< 0.002
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.001	< 0.001	0.0011	< 0.001	< 0.001	< 0.001	< 0.001	0.0005	0.0007	0.0005	0.0006	0.0005	0.0005	< 0.0001	< 0.003

STATION		STATION		H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D
	Units		Units	7-Mar-12	2-May-12	27-Jun-12	22-Aug-12	18-Oct-12	14-Feb-13	16-Jul-13	30-Aug-18	12-Mar-19	20-Jun-19	14-Aug-19	23-Oct-19	1-Sep-20	16-Nov-20	18-Jun-21
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	-	-	-	-	-	-	-	-	0.007	0.01	0.007	0.005	0.005	0.009	0.047
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	-	-	-	0.267	0.297	0.234	0.182	0.233	0.514	0.303	-
Selenium-T	mg/L	**Selenium-T**	mg/L	-	-	-	-	-	-	-	0.00007	0.0001	0.00008	0.00008	0.00007	0.0001	0.00009	< 0.002
Silicon-T	mg/L	**Silicon-T**	mg/L	-	-	-	-	-	-	-	2.22	2.92	2.66	2.17	2.72	3.02	3	2.54
Silver-T	mg/L	**Silver-T**	mg/L	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.0001
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	-	-	-	-	1.06	1.13	1.42	0.97	1	2.68	1.28	-
Strontium-T	mg/L	**Strontium-T**	mg/L	-	-	-	-	-	-	-	0.0185	0.018	0.0151	0.0135	0.0168	0.0198	0.0177	0.01
Thallium-T	mg/L	**Thallium-T**	mg/L	-	-	-	-	-	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003
Tin-T	mg/L	**Tin-T**	mg/L	-	-	-	-	-	-	-	0.00004	< 0.00006	0.00012	< 0.00006	< 0.00006	0.00012	0.00021	< 0.002
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	0.00188	0.00134	0.00259	0.00209	0.00172	0.0007	0.002	0.01
Titanium-T	mg/L	**Titanium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-T	mg/L	**Uranium-T**	mg/L	-	-	-	-	-	-	-	0.000016	0.000017	0.000013	0.000012	0.000015	0.000043	0.000017	< 0.002
Vanadium-T	mg/L	**Vanadium-T**	mg/L	-	-	-	-	-	-	-	0.00036	0.00022	0.00039	0.00036	0.00033	0.00039	0.00034	< 0.002
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.005	0.0056	0.016	0.0073	< 0.005	< 0.005	0.0073	0.003	0.007	0.004	0.004	0.007	< 0.002	0.004	< 0.005
Zirconium-T	mg/L	**Zirconium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.004
Dissolved Metals		**Dissolved Metals**																
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.056	0.063	0.046	0.05	0.04	0.097	0.076	0.052	0.072	0.087	0.064	0.052	0.073	0.075	0.04
Antimony-D	mg/L	**Antimony-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.001
Arsenic-D	mg/L	**Arsenic-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003
Barium-D	mg/L	**Barium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002
Beryllium-D	mg/L	**Beryllium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0005
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Boron-D	mg/L	**Boron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Cadmium-D	mg/L	**Cadmium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0001
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	-	8.97	-	-	8.31	-	-	-	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003
Cobalt-D	mg/L	**Cobalt-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0005
Copper-D	mg/L	**Copper-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.001
Iron-D	mg/L	**Iron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11
Lead-D	mg/L	**Lead-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.001
Lithium-D	mg/L	**Lithium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	-	2.11	-	-	2.01	-	-	-	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Nickel-D	mg/L	**Nickel-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.004
Silicon-D	mg/L	**Silicon-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
Silver-D	mg/L	**Silver-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0001
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.018
Thallium-D	mg/L	**Thallium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0003
Tin-D	mg/L	**Tin-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Titanium-D	mg/L	**Titanium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	**Uranium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Vanadium-D	mg/L	**Vanadium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Zinc-D	mg/L	**Zinc-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.005
Zirconium-D	mg/L	**Zirconium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.004

STATION		H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D
	Units	19-Aug-21	18-Nov-21	16-Mar-22	19-May-22	22-Aug-22	24-Mar-23	10-May-23	17-Aug-23	15-Nov-23	27-Feb-24
Field Parameters											
Temperature	°C	23	4.9	1.3	9.5	20.7	3.2	7.5	17.8	3.8	1.5
pH	s.u.	7.4	7.3	7.5	7.4	7.03	8.19	7.12	6.95	7.01	7.28
Conductivity	µS/cm	64	63.7	74.5	46.8	56.5	58.3	41.5	46.3	49.3	55.5
Dissolved Oxygen	mg/L	8.01	10.5	11.8	10.2	5.58	9.92	11.21	6.66	10.14	10.72
Dissolved Oxygen %	%	97.1	81.5	82	89	62.2	74.1	93.7	70.1	76.9	76.6
Oxidation-Reduction Potential	mV	3	176	199	172	126	-	-	-	-	-
Lab Parameters											
pH	s.u.	-	-	-	-	-	7.17	7.13	6.87	6.18	-
Turbidity	NTU	-	-	-	-	-	1.6	3.9	2.1	2.2	-
Hardness (as CaCO3)	mg/L	38.2	32.2	39.3	23.4	-	27.2	19.9	25.8	26.1	-
Alkalinity, Total (as CaCO3)	mg/L	35	45	38	21	-	23	15	26	21	-
Acidity (as CaCO3)	mg/L	-	-	-	8	-	5	5.3	5.2	8.2	-
Total Dissolved Solids	mg/L	76	84	60	52	-	26	28	56	76	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	-
Total Organic Carbon	mg/L	15.4	14.3	11	11.8	-	14.6	12.4	8.3	15.2	-
Dissolved Organic Carbon	mg/L	14.1	12.6	10.4	11.7	-	13.4	12.1	1.7	14.4	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	200.5	76.5	-	-	-
Nutrients and Anions											
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	0.02	-
Ammonia, Unionized (as N)	mg/L	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-
Chloride	mg/L	0.32	0.29	0.45	0.32	-	0.42	0.26	0.28	0.31	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	0.01	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	0.1	0.13	0.18	-	0.15	0.19	0.13	0.09	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.05	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	1.96	2.02	2.3	1.92	-	1.71	1.57	1.73	1.61	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	< 0.006	< 0.006	< 0.02	< 0.02	-
Total Metals											
Aluminum-T	mg/L	0.048	-	0.058	0.171	-	0.098	0.259	0.078	0.143	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.003	< 0.003	< 0.001	< 0.001	-	0.003	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	0.004	0.004	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.001	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.002	-	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-T	mg/L	-	-	11.1	6.65	-	7.6	5.5	7.2	7.3	-
Chromium-T	mg/L	< 0.003	< 0.003	0.0006	0.0006	-	0.0007	0.0008	0.0005	0.0009	-
Cobalt-T	mg/L	< 0.0005	< 0.0005	< 0.0009	0.00011	-	0.00057	0.00016	0.0001	0.00009	-
Copper-T	mg/L	< 0.001	< 0.001	0.0015	0.0016	-	0.0012	0.0027	0.0012	0.0016	-
Iron-T	mg/L	0.24	0.359	0.3	0.3	-	0.3	0.4	0.2	0.5	-
Lead-T	mg/L	< 0.001	< 0.001	0.0001	< 0.0001	-	< 0.0001	0.0002	< 0.0001	0.0002	-
Lithium-T	mg/L	< 0.01	< 0.01	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-T	mg/L	-	-	2.81	1.65	-	2	1.5	1.9	1.9	-
Manganese-T	mg/L	0.019	0.081	0.013	0.025	-	0.013	0.042	0.016	0.112	-
Mercury-T	mg/L	-	-	-	-	-	0.0000036	0.0000047	< 0.0000025	< 0.0000025	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	-

STATION		H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D	H1D
	Units	19-Aug-21	18-Nov-21	16-Mar-22	19-May-22	22-Aug-22	24-Mar-23	10-May-23	17-Aug-23	15-Nov-23	27-Feb-24
Phosphorus-T	mg/L	0.037	< 0.006	0.01	0.026	-	-	-	-	-	-
Potassium-T	mg/L	-	-	< 0.6	-	-	< 0.6	< 0.6	< 0.6	< 0.6	-
Selenium-T	mg/L	< 0.002	< 0.001	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	2.64	2.76	3.6	2.6	-	2.9	2.4	2.3	3	-
Silver-T	mg/L	< 0.0001	< 0.0001	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	-	-	1.4	0.93	-	1.5	0.8	1.1	1.5	-
Strontium-T	mg/L	0.02	0.017	0.021	0.014	-	0.016	0.012	0.016	0.015	-
Thallium-T	mg/L	< 0.0003	< 0.0003	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.002	< 0.002	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	< 0.002	< 0.01	0.001	0.004	-	-	-	-	-	-
Titanium-T	mg/L	-	-	0.9	-	-	0.002	0.007	0.001	0.002	-
Uranium-T	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.005	< 0.02	0.005	0.004	-	0.008	0.004	< 0.004	< 0.004	-
Zirconium-T	mg/L	< 0.004	< 0.004	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-
Dissolved Metals											
Aluminum-D	mg/L	0.023	0.056	0.039	0.093	-	0.084	0.105	0.059	0.101	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	0.002	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	0.004	0.003	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.002	-	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.0001	< 0.0001	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	10.8	5.8	-	-	-	-	-	-
Chromium-D	mg/L	< 0.002	< 0.003	< 0.0005	< 0.0005	-	0.0006	< 0.0005	0.0032	< 0.0005	-
Cobalt-D	mg/L	< 0.0005	< 0.0005	< 0.0009	0.00003	-	0.00013	0.00007	0.00019	0.00007	-
Copper-D	mg/L	0.001	< 0.001	< 0.0008	0.0008	-	0.0009	< 0.0008	< 0.0008	0.0009	-
Iron-D	mg/L	0.16	0.221	0.3	< 0.1	-	0.2	0.2	0.1	0.3	-
Lead-D	mg/L	< 0.0005	< 0.0005	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Lithium-D	mg/L	< 0.01	< 0.01	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	2.6	1.6	-	-	-	-	-	-
Manganese-D	mg/L	0.006	0.049	0.008	< 0.005	-	0.006	0.029	0.008	0.085	-
Mercury-D	mg/L	-	-	-	-	-	0.0000029	0.0000035	< 0.0000025	0.0000058	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.001	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	0.11	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	< 0.6	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.001	< 0.001	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	2.18	2.81	4	2.54	-	2.96	2.93	2.57	2.86	-
Silver-D	mg/L	0.0001	< 0.0001	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	1.5	1	-	-	-	-	-	-
Strontium-D	mg/L	0.019	0.018	0.021	0.015	-	0.017	0.012	0.016	0.018	-
Thallium-D	mg/L	< 0.0003	< 0.0003	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.002	< 0.002	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	0.015	< 0.002	< 0.001	0.001	-	-	-	-	-	-
Titanium-D	mg/L	-	-	1	-	-	0.001	0.001	< 0.001	0.001	-
Uranium-D	mg/L	< 0.0005	< 0.0005	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.005	< 0.005	0.007	0.005	-	< 0.004	0.009	< 0.004	< 0.004	-
Zirconium-D	mg/L	< 0.004	< 0.004	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	20-Dec-10	24-Feb-11	4-May-11	7-Jul-11	7-Sep-11	1-Nov-11	9-Jan-12	6-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	17-Oct-12	10-Dec-12	12-Feb-13	30-Apr-13	15-Jul-13
Field Parameters																	
Temperature	°C	1.1	0.78	2.84	21.56	17.48	7.39	1.21	0.77	7.05	21.91	18.65	7.66	1.83	1.27	1.7	24.13
pH	s.u.	8.03	7.07	7.79	7.66	8.14	7.96	8.24	7.9	8.12	7.83	7.96	7.09	8.44	6.62	7.94	7.33
Conductivity	µS/cm	65.9	69	61	50	56	64	66	66	60	57	66	66	62	68	62.6	46
Dissolved Oxygen	mg/L	10.87	11.23	10.53	8.83	8.18	10	11.02	10.61	12.57	8.74	7.63	9.89	12.91	-	10.96	9.17
Dissolved Oxygen %	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters																	
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	34	32	27	23	27	26	32	32	24	28	29	30	30	32	33	25
Alkalinity, Total (as CaCO3)	mg/L	28	29	23	20	-	-	26	25	17	21	25	27	28	26	26	17
Acidity (as CaCO3)	mg/L	< 10	< 10	< 10	< 10	-	-	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	11	< 10
Total Dissolved Solids	mg/L	40	42	38	34	-	56	46	40	48	48	54	12	58	58	68	38
Total Suspended Solids	mg/L	< 1	< 1	1	3	1	< 1	< 1	< 1	2	2	< 1	2	6	< 1	3	1
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																	
Ammonia, Total (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.11	< 0.05	< 0.05	0.055	0.059
Ammonia, Unionized (as N)	mg/L	0.000240572	0.0000259	0.000160466	0.000498327	0.001088746	0.000340867	0.000391365	0.00017395	0.000476847	0.000748249	0.000794135	0.000209183	-	0.00000958	0.000452896	0.000667243
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	1	< 1	< 1	< 1	< 1
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	0.05	-	-	-	-	-	-	-	-	-
Total Metals																	
Aluminum-T	mg/L	-	0.1	0.22	0.096	0.055	0.079	0.12	0.13	0.16	0.11	0.055	0.14	0.37	0.16	0.21	0.15
Antimony-T	mg/L	-	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-	-	-
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0014	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	-	-	-	-	-	-	0.0034	-	-	-	-	-	-	-	-	-
Beryllium-T	mg/L	-	-	-	-	-	-	0.00025	-	-	-	-	-	-	-	-	-
Bismuth-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium-T	mg/L	10	11	8.9	7.4	7.7	8.3	8.8	9.8	7.7	8.1	9.2	11	11	10	9.4	7.1
Chromium-T	mg/L	-	-	-	-	-	-	< 0.005	-	-	-	-	-	-	-	-	-
Cobalt-T	mg/L	-	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-	-	-
Copper-T	mg/L	0.001	0.001	0.001	0.001	0.002	0.001	0.0016	0.002	0.0014	0.0017	0.003	0.0016	0.025	0.0014	0.002	0.0026
Iron-T	mg/L	0.1	0.19	0.27	< 0.1	< 0.1	0.19	0.35	0.3	0.19	0.11	< 0.1	0.3	0.94	0.25	0.34	0.12
Lead-T	mg/L	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.011	< 0.0005	< 0.0005	< 0.0005
Lithium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-T	mg/L	-	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	-
Manganese-T	mg/L	-	-	-	-	-	-	0.016	-	-	-	-	-	-	-	-	-
Mercury-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Nickel-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0011	< 0.001	< 0.001	< 0.001	< 0.001	0.0018	< 0.001	< 0.001	< 0.001

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	20-Dec-10	24-Feb-11	4-May-11	7-Jul-11	7-Sep-11	1-Nov-11	9-Jan-12	6-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	17-Oct-12	10-Dec-12	12-Feb-13	30-Apr-13	15-Jul-13
Phosphorus-T	mg/L	-	-	-	-	-	-	< 0.1	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	-	-	-	-	-	0.29	-	-	-	-	-	-	-	-	-
Selenium-T	mg/L	-	-	-	-	-	-	< 0.002	-	-	-	-	-	-	-	-	-
Silicon-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-T	mg/L	-	-	-	-	-	-	< 0.0001	-	-	-	-	-	-	-	-	-
Sodium-T	mg/L	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-
Strontium-T	mg/L	-	-	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-
Thallium-T	mg/L	-	-	-	-	-	-	< 0.00005	-	-	-	-	-	-	-	-	-
Tin-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-T	mg/L	-	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-	-	-
Zinc-T	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	0.019	< 0.005	0.011	< 0.005	< 0.005	< 0.005
Zirconium-T	mg/L																
Dissolved Metals																	
Aluminum-D	mg/L	0.049	0.074	0.083	0.058	0.022	0.026	0.084	0.08	0.087	0.057	0.021	0.029	0.069	0.12	0.081	0.08
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-	-	-
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.0001	-	-	-	-	-
Calcium-D	mg/L	-	-	-	-	-	-	9.51	-	-	-	8.4	-	-	-	-	-
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-	-	-
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-	-	-	-
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	0.00025	-	-	-	-	-
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	-	-	-	-	-	-	2.07	-	-	-	2	-	-	-	-	-
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.0005	-	-	-	-	-
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-	-	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	-	-	-	-	-	-	0.000025	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.005	-	-	-	-	-
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	20-Sep-13	12-Nov-14	6-Oct-15	15-Jun-16	10-Oct-17	11-Jun-18	24-Jul-18	28-Aug-18	26-Sep-18	1-Nov-18	13-Nov-18	11-Dec-18	24-Jan-19	26-Feb-19	11-Mar-19	23-Apr-19	28-May-19	18-Jun-19
Field Parameters																			
Temperature	°C	15.65	0.9	12.5	19.8	15.2	21	-	21	14	-	1.9	-	-	-	0.7	3.7	14	18
pH	s.u.	7.51	7.63	7.22	7.63	7.15	6.4	-	7.1	7.5	-	6.8	-	-	-	6.7	8.3	8.5	7.2
Conductivity	µS/cm	46	55.9	56	46.7	60	48	-	55	58.4	-	57.4	-	-	-	62.7	-	50	36.7
Dissolved Oxygen	mg/L	8.66	12.7	6.67	5.87	-	7.86	-	7.07	8.4	-	11.8	-	-	-	11.5	8.65	7.9	8.34
Dissolved Oxygen %	%	-	-	-	-	-	-	-	79.8	81.5	-	85.2	-	-	-	79	-	-	88.6
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	124	103	-	102	-	-	-	104	-	-	156
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	1.6	1.5	1.91	1.1	0.9	-	1.49	2.35	2.22	1	0.8	1	0.86	3.11	2.8	1.22
Hardness (as CaCO3)	mg/L	28	26	29	26	26	23.6	23.6	29.1	28.2	30.2	27.8	28.1	28.8	27.5	29.2	33.6	17.1	17.1
Alkalinity, Total (as CaCO3)	mg/L	23	24	26	20	26	21	21	223	27	24	22	23	28	22	24	30	11	14
Acidity (as CaCO3)	mg/L	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Total Dissolved Solids	mg/L	64	24	44	60	37	< 30	54	46	60	63	37	54	54	40	80	80	43	57
Total Suspended Solids	mg/L	< 1	1	2	< 10	3	2	< 2	< 2	2	2	1	< 2	< 2	< 1	1	3	< 1	1
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	13	15	13	-	9	10
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 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
Ammonia, Unionized (as N)	mg/L	0.000230537	-	-	< 0.00082	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	0.5
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	< 1	< 1	< 1	< 1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Total Kjeldahl Nitrogen	mg/L	-	-	0.29	0.29	< 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
Total Phosphorus	mg/L	-	-	0.008	0.009	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.071	0.13	0.071	0.11	0.051	-	-	-	-	-	-	-	-	-	-	-	-	0.00006
Antimony-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.0004	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003
Barium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.211
Beryllium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00006
Bismuth-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.75
Boron-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00005
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000003	-	-	-	-	-	-	-	-	-	-	-	-	0.59
Calcium-T	mg/L	8.4	7.4	8.4	6.6	7.55	-	-	-	-	-	-	-	-	-	-	-	-	0.0115
Chromium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005
Cobalt-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00006
Copper-T	mg/L	0.0017	0.0005	0.0012	0.0011	0.00096	-	-	-	-	-	-	-	-	-	-	-	-	0.0012
Iron-T	mg/L	0.15	0.3	0.19	0.11	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00005	-	-	-	-	-	-	-	-	-	-	-	-	0.000012
Lithium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00025
Magnesium-T	mg/L	-	-	1.9	1.6	1.75	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Manganese-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-T	mg/L	< 0.0001	< 0.0001	< 0.0001	-	< 0.00001	< 0.00001	0.00001	0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0001	0.00009	0.00013	0.00016	0.00012	0.00005	0.00005	0.00021	0.00007	0.0001	0.00006	0.00018	0.00082	0.00009
Nickel-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.0002	0.0005	0.0005	0.0004	0.0005	0.0006	0.0005	0.0005	0.0007	0.0006	0.0007	0.0005	0.0004	0.0003

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	20-Sep-13	12-Nov-14	6-Oct-15	15-Jun-16	10-Oct-17	11-Jun-18	24-Jul-18	28-Aug-18	26-Sep-18	1-Nov-18	13-Nov-18	11-Dec-18	24-Jan-19	26-Feb-19	11-Mar-19	23-Apr-19	28-May-19	18-Jun-19
Phosphorus-T	mg/L	-	-	0.008	0.009		-	-	-	< 0.03	0.04	0.003	< 0.03	0.03	< 0.03	0.005	< 0.03	0.013	0.003
Potassium-T	mg/L	-	-	-	-		0.299	0.294	0.353	0.311	0.32	0.271	0.287	0.279	0.267	0.263	0.377	0.298	0.218
Selenium-T	mg/L	-	-	< 0.002	< 0.002	0.00009	0.00008	0.00008	0.00007	0.0001	0.0001	0.00011	0.00011	0.00012	0.00007	0.00009	0.00012	0.00009	0.00008
Silicon-T	mg/L	-	-	-	-		2.3	1.53	1.79	2.09	2.28	2.45	2.4	3.07	3.1	3.07	3.07	2.15	1.89
Silver-T	mg/L	-	-	-	-		< 0.00005	< 0.00005	0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	-	-	-	-		0.87	0.9	1.04	0.92	1.03	0.9	1.09	1.03	1.06	1.16	1.34	1.4	0.59
Strontium-T	mg/L	-	-	-	-		0.0148	0.0144	0.0175	0.0205	0.0184	0.0192	0.019	0.016	0.016	0.018	0.051	0.012	0.0119
Thallium-T	mg/L	-	-	-	-		< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Tin-T	mg/L	-	-	-	-		0.00045	0.00007	0.00008	0.00012	0.00017	0.00002	0.00026	0.00009	< 0.00001	< 0.00006	< 0.00006	0.00006	0.00013
Tungsten-T	mg/L	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	-	-		0.00166	0.00105	0.00116	0.00164	0.00268	0.00228	0.00279	0.00199	0.00146	0.00172	0.00379	0.0042	0.00191
Uranium-T	mg/L	-	-	-	-		0.000017	0.000013	0.000016	0.000018	0.000019	0.000012	0.000018	0.000013	0.000015	0.000014	0.000017	0.000015	0.000013
Vanadium-T	mg/L	-	-	-	-		0.00029	0.0003	0.00036	0.0003	0.00039	0.00039	0.00033	0.00031	0.00023	0.0003	0.00032	0.00037	0.00029
Zinc-T	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	0.003	0.006	0.003	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	0.005	0.003	0.003	0.003
Zirconium-T	mg/L						-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals																			
Aluminum-D	mg/L	0.041	0.084	0.043	0.082	0.031	0.085	0.05	0.035	0.066	0.069	0.1	0.136	0.156	0.129	0.105	0.088	0.136	0.079
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0009
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00357
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000009
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000004
Calcium-D	mg/L	-	-	8.4	-	7.89	-	7.12	8.12	-	-	7.71	-	-	-	-	-	-	4.83
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00037
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000033
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0011
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.069
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00001
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0003
Magnesium-D	mg/L	-	-	2	-	1.76	-	1.65	2	-	-	1.81	-	-	-	-	-	-	1.11
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00301
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00006
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.211
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00006
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.75
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00005
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0115
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00006
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0012
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000012
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00025
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	24-Jul-19	14-Aug-19	30-Sep-19	21-Oct-19	19-Nov-19	16-Dec-19	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	3-Nov-20	24-Mar-21	29-Apr-21	17-May-21	15-Jun-21	20-Jul-21	17-Aug-21	15-Sep-21
Field Parameters																			
Temperature	°C	23	20	14	8.8	2.8	1.5	1.1	0.8	2.5	18	3	2	12	13	21	22	22	16
pH	s.u.	7.6	7.2	7.8	7	7.8	6.9	7.7	7.8	6.7	7.3	8.3	6.9	7.3	8.3	7.7	7.8	7.6	7.9
Conductivity	µS/cm	-	46.3	50	51.3	40	53.3	60	78.8	63.6	56	69.1	58.2	59.1	57.5	52.2	65.3	60.2	65.6
Dissolved Oxygen	mg/L	5.67	7.96	6.7	9.18	10.3	9.07	-	10.2	8.96	7.75	11.2	10.8	11.4	11.2	8.93	7.69	8.41	6.89
Dissolved Oxygen %	%	-	88.3	-	79.1	-	64.7	-	-	-	-	84	81.3	106	110	99.4	88.5	98.2	70
Oxidation-Reduction Potential	mV	-	169	-	125	-	169	-	147	166	-	-	156	105	119	100	166	69.6	144
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	1.24	1.38	1.04	1.8	1.14	0.66	0.59	0.66	1.66	1.19	2.5	0.8	0.86	-	-	-	-	-
Hardness (as CaCO3)	mg/L	19.9	20.3	26.3	26.7	25.1	24.5	26.3	30.5	32.8	26.4	29.6	31.5	27.8	28.5	30.2	31.5	30.3	35.2
Alkalinity, Total (as CaCO3)	mg/L	16	17	23	22	24	23	25	25	27	22	26	26	27	27	34	34	34	28
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-
Total Dissolved Solids	mg/L	49	94	34	40	37	< 30	63	60	31	46	40	34	51	54	48	40	56	66
Total Suspended Solids	mg/L	2	1	1	2	1	< 1	< 1	< 1	1	2	2	1	2	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	11	11.8	11	10.8	12.5	12.4
Dissolved Organic Carbon	mg/L	8	9	8	8	7	9	11	10	10	-	12	-	12	10.2	10.2	10.5	12.2	11.8
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	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	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Unionized (as N)	mg/L	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002
Chloride	mg/L	1	0.5	-	0.5	0.5	2	-	0.5	3	-	0.5	0.4	0.5	0.29	0.3	0.24	0.17	0.25
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.2	< 0.2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	0.08	0.2	0.16	0.12	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	0.08	0.2	0.16	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.03	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	5	10	< 2	< 2	2.41	2.51	2.29	2.16	2.29
Total Kjeldahl Nitrogen	mg/L	0.7	1.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.00038	< 0.00004	-	0.00024	0.00034	0.00008	-	0.00006	0.00009	-	0.00014	0.00011	0.00009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Antimony-T	mg/L	0.0004	0.0004	-	0.0004	0.0013	0.0004	-	0.0005	0.0005	-	0.0004	0.0006	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic-T	mg/L	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	-	0.003	< 0.003	-	< 0.003	< 0.003	0.003	-	-	-	-	-
Barium-T	mg/L	0.319	0.198	-	0.275	0.271	0.253	-	0.279	0.322	-	0.38	0.286	0.276	-	-	-	-	-
Beryllium-T	mg/L	0.00007	0.00006	-	0.00018	0.00008	0.00007	-	0.00008	0.00008	-	0.00013	0.00011	0.00007	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
Bismuth-T	mg/L	1.39	1.22	-	1.82	1.78	1.57	-	2.72	3.4	-	2.31	3.27	2.96	2.38	1.87	2.16	1.67	2.1
Boron-T	mg/L	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	-	0.00015	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Cadmium-T	mg/L	0.8	0.79	-	0.88	1.03	0.74	-	0.86	0.94	-	1.07	1.11	1.4	-	-	-	-	-
Calcium-T	mg/L	0.0131	0.0133	-	0.0176	0.0146	0.0185	-	0.0177	0.02	-	0.0179	0.019	0.0171	0.012	0.017	0.022	0.019	0.024
Chromium-T	mg/L	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Cobalt-T	mg/L	< 0.00006	< 0.00006	-	< 0.00006	< 0.00006	< 0.00006	-	0.00014	< 0.00006	-	< 0.00006	0.00022	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Copper-T	mg/L	0.00073	0.00063	-	0.00071	0.00066	0.00073	-	0.00087	0.00194	-	0.001	0.00154	0.00126	0.006	< 0.002	< 0.002	< 0.002	< 0.002
Iron-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead-T	mg/L	0.000083	0.000014	-	0.000018	0.000013	0.000016	-	0.000014	0.000018	-	0.000013	0.000017	0.000013	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium-T	mg/L	0.00017	0.00023	-	0.00028	0.0004	0.00021	-	0.0002	0.00028	-	0.00027	0.00024	0.00017	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Magnesium-T	mg/L	< 0.002	< 0.002	-	< 0.002	0.003	< 0.002	-	< 0.002	0.005	-	0.004	0.003	0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Manganese-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Mercury-T	mg/L	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	-	< 0.0001	-	-	-	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00000008	0.000000054	0.0000001	0.00000012
Molybdenum-T	mg/L	0.0006	< 0.00004	0.00031	0.00032	0.00009	0.00009	0.00005	0.00009	0.00012	< 0.00004	0.00022	0.00012	0.00008	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel-T	mg/L	0.0004	0.0004	0.0006	0.0005	0.0004	0.0005	0.0003	0.0004	0.0005	0.0005	0.0005	0.0006	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	24-Jul-19	14-Aug-19	30-Sep-19	21-Oct-19	19-Nov-19	16-Dec-19	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	3-Nov-20	24-Mar-21	29-Apr-21	17-May-21	15-Jun-21	20-Jul-21	17-Aug-21	15-Sep-21
Phosphorus-T	mg/L	0.015	0.006	0.01	0.005	0.011	0.008	0.004	0.01	0.008	0.004	< 0.003	0.008	< 0.003	< 0.02	0.016	0.008	< 0.006	0.016
Potassium-T	mg/L	0.311	0.2	0.289	0.283	0.367	0.279	0.275	0.294	0.354	0.35	0.407	0.283	0.269	-	-	-	-	-
Selenium-T	mg/L	0.00009	0.00007	0.00007	0.00019	0.0001	0.00013	0.00007	0.00006	0.00007	0.00006	0.00012	0.00011	0.00005	< 0.002	< 0.002	< 0.002	0.005	< 0.002
Silicon-T	mg/L	1.46	1.32	1.58	1.77	1.91	1.59	2.18	2.91	3.65	1.85	2.32	3.42	2.98	2.72	2.54	1.97	1.8	2.55
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00009	< 0.00005	< 0.00005	0.00018	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium-T	mg/L	0.8	0.83	0.89	0.89	1.02	1.24	0.99	1.06	1.12	1.38	1.09	1.16	1.23	-	-	-	-	-
Strontium-T	mg/L	0.0131	0.0134	0.0173	0.0182	0.0151	0.0208	0.0161	0.0193	0.0205	0.0252	0.0182	0.0194	0.0171	0.017	0.014	0.023	0.019	0.027
Thallium-T	mg/L	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin-T	mg/L	0.0002	< 0.00006	< 0.00006	0.00011	0.00006	< 0.00006	0.0001	0.00023	< 0.00006	0.00011	0.0002	< 0.00006	0.00007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.00161	0.00109	0.00113	0.00162	0.0027	0.00123	0.00104	0.00141	0.00429	0.00136	0.00365	0.00246	0.00192	0.005	0.007	0.003	< 0.002	< 0.002
Uranium-T	mg/L	0.000095	0.000011	0.000002	0.000021	0.00001	0.000021	0.000025	0.000018	0.000016	0.000021	0.000018	0.000019	0.000012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium-T	mg/L	0.00025	0.00028	0.00028	0.0004	0.0003	0.00026	0.00024	0.00026	0.00038	0.00037	0.00042	0.00031	0.00024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc-T	mg/L	< 0.002	< 0.002	0.005	0.005	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002	0.002	0.003	0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Dissolved Metals																			
Aluminum-D	mg/L	0.064	0.043	0.06	0.037	0.045	0.048	0.12	0.066	0.107	0.04	0.094	0.098	0.056	0.068	0.058	0.038	0.031	0.03
Antimony-D	mg/L	0.0009	-	-	< 0.0009	0.0015	< 0.0009	-	< 0.0009	< 0.0009	-	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	0.0004	0.0004	-	0.0005	0.0003	0.0005	-	0.0006	0.0004	-	0.0006	0.0005	0.0004	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001
Barium-D	mg/L	0.00327	0.00339	-	0.00379	0.0033	0.00362	-	0.00397	0.00415	-	0.00395	0.00527	0.00423	0.004	0.004	0.004	0.004	0.004
Beryllium-D	mg/L	0.000008	< 0.000007	-	< 0.000007	< 0.000007	< 0.000007	-	0.000008	< 0.000007	-	< 0.000007	0.000012	0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	< 0.000007	0.000009	-	< 0.000007	0.000013	< 0.000007	-	< 0.000007	< 0.000007	-	< 0.000007	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron-D	mg/L	0.006	0.003	-	0.003	0.003	< 0.002	-	0.006	0.003	-	0.003	0.004	0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	0.000005	0.000005	-	< 0.000003	0.000003	< 0.000003	-	< 0.000003	0.000009	-	0.000003	0.00001	0.000011	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium-D	mg/L	5.77	5.58	-	7.54	6.81	7.34	-	8.46	8.99	-	8.54	8.94	8.1	-	-	-	-	-
Chromium-D	mg/L	0.0004	0.00008	-	0.00034	0.00047	0.00041	-	0.00041	0.00053	-	0.00082	0.00052	0.0004	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002
Cobalt-D	mg/L	0.000022	0.000018	-	0.000015	0.000025	0.000024	-	< 0.000004	0.000053	-	0.000081	0.000051	0.000043	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper-D	mg/L	0.0014	0.001	-	0.0011	0.0072	0.0011	-	0.0011	0.0011	-	0.001	0.0023	0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Iron-D	mg/L	0.053	0.051	-	0.138	0.152	0.123	-	0.152	0.17	-	0.154	0.167	0.127	0.095	0.08	0.074	0.075	0.078
Lead-D	mg/L	< 0.00001	0.00002	-	0.00005	< 0.00001	< 0.00001	-	0.00002	< 0.00001	-	0.00001	0.00006	< 0.00009	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium-D	mg/L	0.0003	0.0002	-	0.0003	0.0002	0.0002	-	0.0009	0.0002	-	0.0006	0.0003	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium-D	mg/L	1.34	1.44	-	1.71	1.58	1.45	-	1.92	2.06	-	1.91	2.06	1.81	-	-	-	-	-
Manganese-D	mg/L	0.0027	0.00368	-	0.00854	0.00468	0.00187	-	0.0086	0.0113	-	0.00962	0.0098	0.0125	0.004	0.003	0.007	0.004	0.006
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.00001	-	< 0.0001	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	0.00038	< 0.00004	-	0.00024	0.00034	0.00008	-	0.00006	0.00009	-	0.00014	0.00011	0.00009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel-D	mg/L	0.0004	0.0004	-	0.0004	0.0013	0.0004	-	0.0005	0.0005	-	0.0004	0.0006	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	-	0.003	< 0.003	-	< 0.003	< 0.003	0.003	-	-	-	-	-
Potassium-D	mg/L	0.319	0.198	-	0.275	0.271	0.253	-	0.279	0.322	-	0.38	0.286	0.276	-	-	-	-	-
Selenium-D	mg/L	0.00007	0.00006	-	0.00018	0.00008	0.00007	-	0.00008	0.00008	-	0.00013	0.00011	0.00007	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
Silicon-D	mg/L	1.39	1.22	-	1.82	1.78	1.57	-	2.72	3.4	-	2.31	3.27	2.96	2.38	1.87	2.16	1.67	2.1
Silver-D	mg/L	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	-	0.00015	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium-D	mg/L	0.8	0.79	-	0.88	1.03	0.74	-	0.86	0.94	-	1.07	1.11	1.4	-	-	-	-	-
Strontium-D	mg/L	0.0131	0.0133	-	0.0176	0.0146	0.0185	-	0.0177	0.02	-	0.0179	0.019	0.0171	0.012	0.017	0.022	0.019	0.024
Thallium-D	mg/L	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin-D	mg/L	< 0.00006	< 0.00006	-	< 0.00006	< 0.00006	< 0.00006	-	0.00014	< 0.00006	-	< 0.00006	0.00022	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Tungsten-D	mg/L	0.00073	0.00063	-	0.00071	0.00066	0.00073	-	0.00087	0.00194	-	0.001	0.00154	0.00126	0.006	< 0.002	< 0.002	< 0.002	< 0.002
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	0.000083	0.000014	-	0.000018	0.000013	0.000016	-	0.000014	0.000018	-	0.000013	0.000017	0.000013	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium-D	mg/L	0.00017	0.00023	-	0.00028	0.0004	0.00021	-	0.0002	0.00028	-	0.00027	0.00024	0.00017	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc-D	mg/L	< 0.002	< 0.002	-	< 0.002	0.003	< 0.002	-	< 0.002	0.005	-	0.004	0.003	0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	13-Oct-21	18-Nov-21	16-Dec-21	1-Feb-22	15-Feb-22	16-Mar-22	21-Apr-22	17-May-22	15-Jun-22	20-Jul-22	16-Aug-22	21-Sep-22	19-Oct-22	22-Nov-22	14-Dec-22	25-Jan-23	15-Feb-23
Field Parameters																		
Temperature	°C	17	4.3	0.6	0.2	0.4	0.4	1.6	13	21	24	21.4	16.1	9.1	1.9	1.7	1.2	0.7
pH	s.u.	7.5	7.4	8	8.1	7.1	6.9	7.8	7.2	7.6	7.6	7.62	7.95	7.5	7.56	7.23	6.71	6.53
Conductivity	µS/cm	73.2	66.4	77.3	65.9	35.5	69.9	70.4	45.7	44.3	48.2	54.4	54.7	56.7	55	57.6	52.9	55.6
Dissolved Oxygen	mg/L	9.11	10.8	12.5	11.7	11.4	7.95	12.8	10.4	8.27	8.21	8.49	8.06	9.47	11.9	11.73	10.69	10.95
Dissolved Oxygen %	%	94.6	83.2	87.7	80.6	78.5	54	90.9	99.7	92.6	97.7	96.1	81.8	82.2	86	84	75.7	76.4
Oxidation-Reduction Potential	mV	139	192	154	107	151	222	99	146	100	155	138.5	-	-	-	-	-	-
Lab Parameters																		
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	7.52	7.36	7.07	7.27	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	33.3	34.3	40.6	34.7	-	35.6	35.6	23.4	24.8	24	28	0	36.2	28	29	-	-
Alkalinity, Total (as CaCO3)	mg/L	29	32	38	29	93	35	28	20	15	21	22	26	27	26	30	-	-
Acidity (as CaCO3)	mg/L	-	-	-	10	5	-	6	7	-	-	1	-	-	-	-	-	-
Total Dissolved Solids	mg/L	56	70	72	52	88	58	64	58	38	60	50	42	74	44	54	-	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-
Total Organic Carbon	mg/L	16.6	11.7	13.1	12.7	12.3	12.2	12.6	11.3	13	13.3	15.2	16.5	14.4	16.1	19.6	-	-
Dissolved Organic Carbon	mg/L	14.6	10.5	12.4	12.1	11.1	12	12.3	11.3	12	13	13.6	15.9	13.9	15.4	16.6	-	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	171.2	182	178.7	202.5	251.4	337.3
Nutrients and Anions																		
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	0.03	< 0.02	< 0.02	-	-
Ammonia, Unionized (as N)	mg/L	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-
Chloride	mg/L	0.25	0.17	0.33	0.26	0.28	0.29	0.3	0.24	0.2	0.19	0.18	0.16	0.26	0.22	0.3	-	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	0.17	0.09	0.1	0.12	0.31	0.19	0.07	< 0.05	< 0.05	< 0.05	0.06	0.08	0.14	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-
Sulphate	mg/L	2.2	2.17	3.77	2.18	2.34	2.37	2.47	1.85	1.81	1.72	1.65	1.58	1.5	1.48	1.71	-	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.014	< 0.006	< 0.006	0.016	-	-
Total Metals																		
Aluminum-T	mg/L	< 0.002	< 0.002	0.008	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	0.107	0.092	0.158	0.138	-	-
Antimony-T	mg/L	< 0.003	< 0.001	0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Arsenic-T	mg/L	-	-	-	-	-	0.1	-	-	-	-	-	0.003	< 0.001	< 0.001	< 0.001	-	-
Barium-T	mg/L	-	-	-	-	-	< 0.6	-	-	< 0.6	-	< 0.6	< 0.05	< 0.05	< 0.05	< 0.05	-	-
Beryllium-T	mg/L	< 0.001	< 0.001	0.009	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Bismuth-T	mg/L	1.16	1.85	1.63	2.39	3	2.83	3.11	2.48	1.88	1.75	1.98	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Boron-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00025	< 0.0001	< 0.01	< 0.01	< 0.01	< 0.01	-	-
Cadmium-T	mg/L	-	-	-	1.4	1.2	1.3	1.4	0.9	0.8	0.7	< 0.6	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	-
Calcium-T	mg/L	0.021	0.018	0.029	0.023	0.021	0.023	0.022	0.014	0.016	0.015	0.018	7.7	8.1	8.1	8.3	-	-
Chromium-T	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0002	0.0008	0.0006	0.0019	0.0023	-	-
Cobalt-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.001	0.00005	0.00007	0.00008	0.0001	-	-
Copper-T	mg/L	< 0.002	< 0.002	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	0.0021	0.0015	0.0013	0.0013	-	-
Iron-T	mg/L	-	-	-	-	-	1	-	-	-	-	-	0.2	0.3	0.3	0.3	-	-
Lead-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	0.0001	0.0001	0.0001	< 0.0001	-	-
Lithium-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Magnesium-T	mg/L	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.02	< 0.008	1.8	2	1.9	2	-	-
Manganese-T	mg/L	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.01	0.00016	< 0.01	< 0.01	< 0.01	< 0.01	0.039	0.033	0.022	0.021	-	-
Mercury-T	mg/L	-	-	-	-	-	-	-	-	< 0.000005	-	-	< 0.0000025	0.0000088	0.0000049	0.0000054	-	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	0.00000016	0.0000002	0.00000019	0.00000013	0.00000012	0.00000017	0.00000013	0.00000011	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.002	< 0.002	0.007	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.006	< 0.003	< 0.003	< 0.003	< 0.003	-	-

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	13-Oct-21	18-Nov-21	16-Dec-21	1-Feb-22	15-Feb-22	16-Mar-22	21-Apr-22	17-May-22	15-Jun-22	20-Jul-22	16-Aug-22	21-Sep-22	19-Oct-22	22-Nov-22	14-Dec-22	25-Jan-23	15-Feb-23
Phosphorus-T	mg/L	0.017	0.024	0.006	< 0.006	0.006	0.008	0.016	0.01	0.008	0.044	0.016	-	-	-	-	-	-
Potassium-T	mg/L	-	-	-	-	-	< 0.6	-	-	< 0.6	-	< 0.6	-	< 0.6	< 0.6	< 0.6	-	-
Selenium-T	mg/L	< 0.002	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Silicon-T	mg/L	1.56	1.91	1.58	2	3	2.6	3.28	2.7	1.9	1.8	2.2	1.9	2.5	2.9	3	-	-
Silver-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00025	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-
Sodium-T	mg/L	-	-	-	1.2	1.3	1.2	1.2	0.9	0.96	1	0.7	2	1	1.1	1.1	-	-
Strontium-T	mg/L	0.02	0.021	0.027	0.021	0.021	0.021	0.021	0.015	0.015	0.016	0.019	0.02	0.02	0.018	0.019	-	-
Thallium-T	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-
Tin-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Tungsten-T	mg/L	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	< 0.01	< 0.01	< 0.01	0.002	0.001	0.001	0.007	0.005	0.002	< 0.005	< 0.002	0.002	0.002	0.004	0.003	-	-
Uranium-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Vanadium-T	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.005	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Zinc-T	mg/L	< 0.02	< 0.02	< 0.02	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.02	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	-	-
Zirconium-T	mg/L	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-
Dissolved Metals																		
Aluminum-D	mg/L	0.027	0.028	0.02	0.043	0.043	0.048	0.067	0.1	0.088	0.066	0.07	0.064	0.075	0.1	0.11	-	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Barium-D	mg/L	0.004	0.004	0.006	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Bismuth-D	mg/L	< 0.002	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	-	-
Cadmium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.00008	< 0.000032	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	-
Calcium-D	mg/L	-	-	-	9.5	9.4	10.2	9.95	6.2	6	7	7.4	-	-	-	-	-	-
Chromium-D	mg/L	< 0.002	< 0.003	< 0.003	< 0.0005	0.0007	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0025	< 0.001	0.0011	0.0006	0.0005	0.0005	-	-
Cobalt-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0009	< 0.0009	< 0.0009	< 0.00001	0.00004	0.00001	< 0.00005	0.00003	0.00003	0.00005	0.00003	0.00011	-	-
Copper-D	mg/L	0.001	< 0.001	0.003	0.0008	0.0009	0.0009	0.0013	0.001	0.0008	< 0.004	< 0.0016	0.0012	0.0016	0.001	0.001	-	-
Iron-D	mg/L	0.019	0.176	0.1	0.2	0.2	0.2	0.2	< 0.1	< 0.1	< 0.1	0.1	0.2	0.2	0.2	0.2	-	-
Lead-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-
Lithium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Magnesium-D	mg/L	-	-	-	2.3	2.3	2.4	2.54	1.5	1.4	1.7	1.8	-	-	-	-	-	-
Manganese-D	mg/L	< 0.002	0.038	0.007	< 0.005	< 0.005	< 0.005	0.018	< 0.005	< 0.005	< 0.005	0.009	0.018	< 0.005	< 0.005	0.014	-	-
Mercury-D	mg/L	-	-	-	-	-	-	-	-	< 0.000005	-	-	0.0000045	0.000007	0.0000044	0.0000061	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.002	< 0.002	0.008	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Nickel-D	mg/L	< 0.003	< 0.001	0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-
Phosphorus-D	mg/L	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	< 0.6	-	-	< 0.6	-	< 0.6	-	-	-	-	-	-
Selenium-D	mg/L	< 0.001	< 0.001	0.009	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Silicon-D	mg/L	1.16	1.85	1.63	2.39	3	2.83	3.11	2.48	1.88	1.75	1.98	1.94	2.44	2.47	2.73	-	-
Silver-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00025	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-
Sodium-D	mg/L	-	-	-	1.4	1.2	1.3	1.4	0.9	0.8	0.7	< 0.6	-	-	-	-	-	-
Strontium-D	mg/L	0.021	0.018	0.029	0.023	0.021	0.023	0.022	0.014	0.016	0.015	0.018	0.02	0.02	0.018	0.019	-	-
Thallium-D	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-
Tin-D	mg/L	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-
Tungsten-D	mg/L	< 0.002	< 0.002	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	1	-	-	-	-	-	< 0.001	0.001	0.001	0.002	-	-
Uranium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Vanadium-D	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-
Zinc-D	mg/L	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.02	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	-	-
Zirconium-D	mg/L	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.01	0.00016	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	23-Mar-23	24-Apr-23	9-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	14-Dec-23	15-Jan-24	21-Feb-24
Field Parameters													
Temperature	°C	0.6	2.7	11.6	17.7	22.2	20.4	-	-	-	1.5	1.1	0.9
pH	s.u.	8.42	7.17	6.81	6.77	7.59	7.45	-	-	-	7.49	7.43	7.11
Conductivity	µS/cm	58.5	45.2	43.3	41.6	46.1	45.1	-	-	-	52	64	56
Dissolved Oxygen	mg/L	10.92	10.58	10.36	8.92	8.33	8.58	-	-	-	12.53	11.9	11.38
Dissolved Oxygen %	%	75.9	77.9	95.1	93.6	-	95	-	-	-	89.3	84	79.8
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters													
pH	s.u.	7.3	7.21	7.47	6.74	7.04	6.72	6.4	6.36	6.91	7.68	6.49	-
Turbidity	NTU	2.4	5.5	2.6	3.2	3.9	1.6	2.1	3.8	2.9	4.1	1.7	-
Hardness (as CaCO3)	mg/L	27.1	29.2	20.7	21	24	26.1	26	29.7	28.6	27.8	28.5	-
Alkalinity, Total (as CaCO3)	mg/L	24	25	20	22	23	26	27	26	30	36	26	-
Acidity (as CaCO3)	mg/L	5	8	< 5.0	5.3	5.7	5.2	5.5	5.7	7.4	< 5.0	< 5.0	-
Total Dissolved Solids	mg/L	28	40	5	46	46	52	42	60	46	64	36	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Total Organic Carbon	mg/L	14.7	11.7	6.8	10.7	10.4	11	8.5	14.7	14.6	18.7	16	-
Dissolved Organic Carbon	mg/L	14.2	11.4	11.5	10.2	10.1	10.6	8.3	13.8	13.3	18.1	12.5	-
Oxidation-Reduction Potential	mV	181.6	256.8	136	361.8	-	-	-	-	-	-	-	-
Nutrients and Anions													
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02	0.09	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	-
Ammonia, Unionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.38	0.26	0.24	0.22	0.21	0.18	0.23	0.24	0.29	0.26	0.64	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	0.15	0.22	0.2	0.08	< 0.05	< 0.05	< 0.05	0.06	0.08	0.09	0.11	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	2.04	1.81	1.68	1.64	1.56	1.79	1.67	1.8	1.74	1.74	1.96	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	-
Total Metals													
Aluminum-T	mg/L	0.121	0.214	0.199	0.117	0.112	0.065	0.076	0.149	0.179	0.142	0.158	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	0.000017	0.000019	0.000029	-
Calcium-T	mg/L	7.7	8.4	5.8	6.1	6.8	7.5	7.6	8.6	8.5	8	8.3	-
Chromium-T	mg/L	0.0006	0.0008	0.0007	0.0008	0.0007	< 0.0005	0.0005	0.0014	0.0008	0.0007	0.001	-
Cobalt-T	mg/L	0.00005	0.00012	0.0001	0.00005	0.00008	0.00004	0.00007	0.00009	0.00009	0.00007	0.00009	-
Copper-T	mg/L	0.0017	0.0016	0.0014	0.0014	0.0018	0.0015	0.0015	0.0018	0.0035	0.0029	0.0022	-
Iron-T	mg/L	0.3	0.4	0.3	0.1	0.1	< 0.1	0.2	0.3	0.3	0.3	0.3	-
Lead-T	mg/L	< 0.0001	0.0002	0.0001	0.0003	0.0003	0.0001	< 0.0001	0.0001	0.0002	0.0001	0.0002	-
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-T	mg/L	1.9	2	1.5	1.4	1.7	1.8	1.7	2	1.8	1.9	1.9	-
Manganese-T	mg/L	0.016	0.03	0.019	0.011	0.013	0.011	0.041	0.057	0.026	0.022	0.019	-
Mercury-T	mg/L	0.0000039	0.0000048	0.0000047	0.0000031	0.0000026	< 0.0000025	< 0.0000025	0.000003	< 0.0000025	0.0000053	0.000005	-
Methylmercury-T	mg/L	0.00000016	-	-	-	-	0.00000005	-	0.0000002	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	0.002	0.003	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-

STATION		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
	Units	23-Mar-23	24-Apr-23	9-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	14-Dec-23	15-Jan-24	21-Feb-24
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	0.8	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	-
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	3	3.7	2.3	2.1	2	1.8	1.9	2.4	2.6	3	1.9	-
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	1.4	1.1	0.9	0.8	0.9	1.1	1	1.1	1.6	1.1	1.3	-
Strontium-T	mg/L	0.017	0.018	0.014	0.014	0.016	0.017	0.018	0.018	0.017	0.017	0.018	-
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.002	0.006	0.004	0.002	0.003	0.001	0.002	0.003	0.003	0.002	0.003	-
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Dissolved Metals													
Aluminum-D	mg/L	0.098	0.102	0.108	0.084	0.061	0.042	0.033	0.074	0.109	0.115	0.134	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	0.0006	< 0.0005	0.0005	0.0006	0.0006	-
Cobalt-D	mg/L	0.00004	0.00005	0.00007	< 0.00006	< 0.00006	< 0.00006	0.00022	< 0.00006	< 0.00006	< 0.00006	< 0.00006	-
Copper-D	mg/L	0.001	0.002	< 0.0008	0.0009	0.0009	0.001	0.0009	0.001	0.0011	0.0011	0.0012	-
Iron-D	mg/L	0.2	0.2	0.2	< 0.1	< 0.1	< 0.1	< 0.1	0.2	0.2	0.2	0.2	-
Lead-D	mg/L	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.012	0.028	0.02	< 0.005	< 0.005	< 0.005	0.018	0.029	0.015	0.014	0.013	-
Mercury-D	mg/L	0.0000037	0.0000037	0.00000125	0.0000026	0.00000125	0.00000125	0.00000125	0.00000125	0.0000044	0.0000051	0.0000046	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	3.14	3.37	2.91	2.22	1.8	1.82	1.97	2.59	2.58	2.52	1.95	-
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.018	0.017	0.014	0.014	0.015	0.016	0.019	0.016	0.018	0.017	0.018	-
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	0.001	0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.001	0.001	0.002	-
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-

STATION		STATION		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
	Units		Units	20-Dec-10	22-Feb-11	6-Jul-11	6-Sep-11	31-Oct-11	9-Jan-12	5-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	16-Oct-12	10-Dec-12	12-Feb-13	15-Jul-13	20-Sep-13	14-Nov-14	6-Oct-15
Field Parameters		**Field Parameters**																		
Temperature	°C	**Temperature**	°C	0.5	0.1	22.38	15.8	6.72	0.2	0.03	5.88	19.66	17.73	5.73	0.39	0.35	22.29	15.12	1.3	11.9
pH	s.u.	**pH**	s.u.	8.15	6.95	7.84	8.05	7.88	8.14	8.56	8.62	7.63	8	7.99	8.41	6.82	6.69	7.16	6.94	6.69
Conductivity	µS/cm	**Conductivity**	µS/cm	84.1	94.7	74	103	86	86	62	82	81	97	102	79	97	71	64	69.6	78.4
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	12.7	-	8.72	8.07	11.62	12.8	13.92	13.16	7.38	7.7	11.7	13.18	-	7.85	9.01	13.14	7.75
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92	-
Lab Parameters		**Lab Parameters**																		
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	40	42	33	50	36	41	48	32	40	41	44	37	43	38	38	37	38
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	34	39	30		32	32	36	28	33	36	32	45	34	32	32	30	35
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	50	66	50	68	48	30	70	44	62	66	96	34	56	64	72	16	70
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 1	1	2	4	< 1	< 1	< 1	2	6	2	8	4	1	6	< 1	3	3
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**																		
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.058	0.091	< 0.05	< 0.05	0.091	< 0.05	0.05	< 0.05
Ammonia, Unionized (as N)	mg/L	**Ammonia, Unionized (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	**Chloride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	**Fluoride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	**Sulphate**	mg/L	< 1	< 1	< 1	3	< 1	< 1	2	< 1	< 1	5	8	< 1	< 1	< 1	< 1	< 1	< 1
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	0.05	-	-	-	-	-	-	-	-	-	-	0.013
Total Metals		**Total Metals**																		
Aluminum-T	mg/L	**Aluminum-T**	mg/L	-	0.1	0.13	0.09	0.096	0.11	0.11	0.16	0.22	0.066	0.4	0.16	0.14	0.17	0.085	0.14	0.11
Antimony-T	mg/L	**Antimony-T**	mg/L	-	-	-	-	< 0.0005	< 0.0005	-	-	-	-	-	-	-	-	-	-	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	-	-	-	-	0.009	0.008	-	-	-	-	-	-	-	-	-	-	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	-	-	-	-	< 0.0005	< 0.0005	-	-	-	-	-	-	-	-	-	-	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	-	-	-	< 0.001	-	-	-	-	-	-	-	-	-	-	-	-
Boron-T	mg/L	**Boron-T**	mg/L	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00017	< 0.0001	< 0.0001
Calcium-T	mg/L	**Calcium-T**	mg/L	12	15	10	14	11	11	13	10	11	12	13	12	13	11	11	11	11
Chromium-T	mg/L	**Chromium-T**	mg/L	-	-	-	-	< 0.005	< 0.005	-	-	-	-	-	-	-	-	-	-	-
Cobalt-T	mg/L	**Cobalt-T**	mg/L	-	-	-	-	< 0.0005	< 0.0005	-	-	-	-	-	-	-	-	-	-	-
Copper-T	mg/L	**Copper-T**	mg/L	0.001	0.002	0.002	0.002	0.002	0.0014	0.0014	0.002	0.0029	0.0017	0.0034	0.0047	0.0019	0.0022	0.0019	0.0015	0.0015
Iron-T	mg/L	**Iron-T**	mg/L	0.1	0.23	0.17	0.17	0.18	0.19	0.21	0.23	0.32	< 0.1	0.56	0.38	0.27	0.25	0.2	0.26	0.3
Lead-T	mg/L	**Lead-T**	mg/L	< 0.0005	< 0.0005	0.0048	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00055	0.0017	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium-T	mg/L	**Lithium-T**	mg/L	-	-	-	-	< 0.005	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	-	2.7	2.8	-	-	-	-	-	-	-	-	-	-	2.5
Manganese-T	mg/L	**Manganese-T**	mg/L	-	-	-	-	0.023	0.021	-	-	-	-	-	-	-	-	-	-	-
Mercury-T	mg/L	**Mercury-T**	mg/L	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0014	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

STATION		STATION		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
	Units		Units	20-Dec-10	22-Feb-11	6-Jul-11	6-Sep-11	31-Oct-11	9-Jan-12	5-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	16-Oct-12	10-Dec-12	12-Feb-13	15-Jul-13	20-Sep-13	14-Nov-14	6-Oct-15
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	-	-	-	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	0.4	0.32	-	-	-	-	-	-	-	-	-	-	-
Selenium-T	mg/L	**Selenium-T**	mg/L	-	-	-	-	< 0.002	< 0.002	-	-	-	-	-	-	-	-	-	-	< 0.002
Silicon-T	mg/L	**Silicon-T**	mg/L	-	-	-	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-
Silver-T	mg/L	**Silver-T**	mg/L	-	-	-	-	< 0.0001	< 0.0001	-	-	-	-	-	-	-	-	-	-	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	-	1.7	1.6	-	-	-	-	-	-	-	-	-	-	-
Strontium-T	mg/L	**Strontium-T**	mg/L	-	-	-	-	0.05	0.052	-	-	-	-	-	-	-	-	-	-	-
Thallium-T	mg/L	**Thallium-T**	mg/L	-	-	-	-	< 0.00005	< 0.00005	-	-	-	-	-	-	-	-	-	-	-
Tin-T	mg/L	**Tin-T**	mg/L	-	-	-	-	< 0.001	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	< 0.001	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	-	-	-	-	< 0.005	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-T	mg/L	**Uranium-T**	mg/L	-	-	-	-	0.00005	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	-	-	-	-	< 0.0005	< 0.0005	-	-	-	-	-	-	-	-	-	-	-
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0059	0.0084	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium-T	mg/L	**Zirconium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals																				
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.039	0.047	0.041	0.014	0.031	0.058	0.057	0.074	0.037	0.017	0.1	0.062	0.078	0.051	0.046	0.068	0.046
Antimony-D	mg/L	**Antimony-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-	-	-	-	-
Barium-D	mg/L	**Barium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	**Boron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.0001	-	-	-	-	-	-	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	-	-	12.2	-	-	-	12	-	-	-	-	-	-	11
Chromium-D	mg/L	**Chromium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	**Copper-D**	mg/L	-	-	-	-	-	-	-	-	-	0.0013	-	-	-	-	-	-	-
Iron-D	mg/L	**Iron-D**	mg/L	-	-	-	-	-	-	-	-	-	0.12	-	-	-	-	-	-	-
Lead-D	mg/L	**Lead-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-
Lithium-D	mg/L	**Lithium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	-	-	2.58	-	-	-	2.8	-	-	-	-	-	-	2.6
Manganese-D	mg/L	**Manganese-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-
Nickel-D	mg/L	**Nickel-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-	-	-	-	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	**Silicon-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	**Silver-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	**Thallium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	**Tin-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	**Uranium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	**Zinc-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.005	-	-	-	-	-	-	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
	Units	14-Jun-16	10-Oct-17	11-Jun-18	24-Jul-18	30-Aug-18	26-Sep-18	1-Nov-18	14-Nov-18	11-Dec-18	24-Jan-19	26-Feb-19	11-Mar-19	23-Apr-19	28-May-19	18-Jun-19	24-Jul-19	14-Aug-19	30-Sep-19
Field Parameters																			
Temperature	°C	14.5	13.2	17	-	17	13	-	0.7	-	-	-	0.1	2.2	14	16	19	20	13
pH	s.u.	7.12	6.78	6.3	-	7.2	7.6	-	7.4	-	-	-	7	8	7.9	7.2	6.7	7.4	7.4
Conductivity	µS/cm	61	148	66	-	97.1	77.6	-	77.2	-	-	-	81.8	-	40	52.8	-	65	90
Dissolved Oxygen	mg/L	9		7.5	-	6.73	9.78	-	13.4	-	-	-	12.2	6.8	8.62	8.78	4.4	8.12	6.4
Dissolved Oxygen %	%	-	-	-	-	69.7	93.8	-	93.2	-	-	-	83.9	-	-	88.7	-	89	-
Oxidation-Reduction Potential	mV	-	-	-	-	113	107	-	131	-	-	-	128	-	-	161	-	170	-
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	1.7	3.72	2.12	2.7	-	2.02	2.98	2.14	2	1.48	1	1.26	2.15	2.1	2.12	3.38	1.53	2.08
Hardness (as CaCO3)	mg/L	33	51	33.9	33.4	44.5	38.7	35	35.4	37.7	42.9	37.9	40.4	32.8	17.7	24.2	31.5	28.6	39.7
Alkalinity, Total (as CaCO3)	mg/L	27	41	29	31	42	33	30	30	30	34	36	37	27	11	21	30	26	29
Acidity (as CaCO3)	mg/L	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Total Dissolved Solids	mg/L	50	49	40	51	69	69	60	34	69	43	57	66	71	15	31	66	94	63
Total Suspended Solids	mg/L	< 10	3	3	5	5	3	4	1	< 2	< 2	1	2	2	2	3	4	2	2
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	10	13	13	-	9	11	7	9	8
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.05	< 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
Ammonia, Unionized (as N)	mg/L	-	0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	2	2	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	< 1	1100	< 2	< 2	2	2	< 2	< 2	< 2	< 2	< 2	5	< 2	< 2	< 2	< 2	< 2	< 2
Total Kjeldahl Nitrogen	mg/L	0.28	< 0.5	0.25	0.25	-	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	1.1	1.1	0.25
Total Phosphorus	mg/L	0.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.16	0.101	0.145	0.123	0.1	0.095	0.13	0.142	0.14	0.144	0.085	0.107	0.148	0.202	0.149	0.147	0.096	0.109
Antimony-T	mg/L	-	-	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Arsenic-T	mg/L	< 0.001	0.0006	0.0004	0.0005	0.0005	0.0005	0.0005	0.0004	0.0005	0.0005	0.0004	0.0007	0.0004	0.0003	0.0005	0.0005	0.0004	0.0005
Barium-T	mg/L	-	-	0.0077	0.00686	0.0104	0.00923	0.00812	0.00843	0.0093	0.0097	0.00758	0.00834	0.00623	0.00373	0.0079	0.00728	0.00655	0.00824
Beryllium-T	mg/L	-	-	0.00001	< 0.000007	< 0.000007	0.000007	0.000008	0.000022	0.000009	0.00001	< 0.000007	< 0.000007	0.000009	0.000013	0.00001	0.000008	< 0.000007	< 0.000007
Bismuth-T	mg/L	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000011	0.000008	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Boron-T	mg/L	-	-	0.003	0.003	0.008	0.004	0.003	0.002	0.004	0.004	0.006	0.004	< 0.002	0.003	0.005	0.015	0.003	0.002
Cadmium-T	mg/L	< 0.0001	0.000005	0.000015	0.000016	< 0.000003	0.000003	0.000007	0.000021	0.000006	0.00001	0.000007	0.000008	0.000012	0.000014	0.000012	0.000007	0.000006	0.00001
Calcium-T	mg/L	9	14.6	9.84	9.7	12.9	11.5	10.2	10.3	11	12.7	11.1	11.9	9.57	5.11	7.08	8.98	8.07	11.6
Chromium-T	mg/L	-	-	0.00055	0.00062	0.00037	0.00052	0.00042	0.00048	0.00052	0.00059	0.00035	0.00044	0.0005	0.00053	0.0005	0.00063	0.00017	0.00039
Cobalt-T	mg/L	-	-	0.000067	0.00008	0.000058	0.000072	0.000063	0.00005	0.000043	0.000059	0.000016	0.000103	0.000075	0.000072	0.000072	0.000069	0.000049	0.000064
Copper-T	mg/L	0.0015	0.00369	0.00154	0.00176	0.00157	0.00154	0.00131	0.00133	0.00113	0.00135	0.00102	0.0074	0.0081	0.0075	0.0015	0.0017	0.0012	0.0084
Iron-T	mg/L	0.21	0.268	0.196	0.175	0.142	0.19	0.235	0.211	0.22	0.246	0.145	0.2	0.225	0.157	0.15	0.222	0.136	0.166
Lead-T	mg/L	< 0.0005	0.00027	0.00013	0.0001	0.00007	0.00009	0.00009	0.00008	0.00009	0.00006	< 0.00001	0.00015	0.00012	0.00002	0.00019	0.00008	0.00006	0.00021
Lithium-T	mg/L	-	-	0.0004	0.0004	0.0004	0.0003	0.0003	0.0003	0.0005	0.0011	0.0003	0.0004	0.0001	0.0033	0.0004	0.0004	0.0003	0.0004
Magnesium-T	mg/L	-	3.57	2.26	2.23	2.99	2.44	2.32	2.36	2.49	2.74	2.48	2.61	2.16	1.19	1.58	2.2	2.06	2.6
Manganese-T	mg/L	-	-	0.0201	0.03758	0.0182	0.0329	0.0208	0.018	0.0237	0.0228	0.0131	0.0191	0.0224	0.0155	0.0131	0.0329	0.0168	0.018
Mercury-T	mg/L	-	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00004	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.0005	0.00027	0.0002	0.00019	0.0003	0.00023	< 0.00001	< 0.00001	0.00021	0.00015	0.0002	0.00019	0.00029	0.00028	0.0002	0.00065	< 0.00004	0.00027
Nickel-T	mg/L	< 0.001	0.0003	0.0005	0.0006	0.0004	0.0006	0.0008	0.0007	0.0004	0.0006	0.0004	0.0006	0.0006	0.0004	0.0004	0.0005	0.0004	0.0006

STATION		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
	Units	14-Jun-16	10-Oct-17	11-Jun-18	24-Jul-18	30-Aug-18	26-Sep-18	1-Nov-18	14-Nov-18	11-Dec-18	24-Jan-19	26-Feb-19	11-Mar-19	23-Apr-19	28-May-19	18-Jun-19	24-Jul-19	14-Aug-19	30-Sep-19
Phosphorus-T	mg/L	-	-	-	-	-	< 0.03	< 0.03	0.007	< 0.03	0.03	0.04	0.006	0.012	0.014	0.015	0.093	0.008	0.008
Potassium-T	mg/L	-	-	0.338	0.366	0.374	0.36	0.329	0.349	0.318	0.363	0.327	0.329	0.366	0.288	0.255	0.322	0.215	0.367
Selenium-T	mg/L	< 0.002	0.00009	0.00007	0.00008	0.00007	0.00009	0.0001	0.00009	0.0001	0.00009	0.00007	0.00008	0.00011	0.00009	0.00007	0.0001	0.00008	0.00009
Silicon-T	mg/L	-	-	2.3	1.78	2.36	2.41	2.38	2.72	2.71	3.03	3.17	3.12	3.22	2.14	2.02	1.93	1.73	2.26
Silver-T	mg/L	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	-	-	1.44	1.37	1.68	1.44	1.47	1.82	1.6	1.68	1.68	1.68	1.24	1.1	1.11	1.44	1.48	1.66
Strontium-T	mg/L	-	-	0.0373	0.0299	0.064	0.0638	0.043	0.0368	0.0496	0.051	0.041	0.0438	0.0232	0.012	0.0337	0.0336	0.0321	0.048
Thallium-T	mg/L	-	-	0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Tin-T	mg/L	-	-	0.00037	0.00008	0.00004	0.00011	0.00004	0.00009	0.00018	0.00004	< 0.00001	< 0.00006	< 0.00006	< 0.00006	0.00008	0.00012	< 0.00006	0.00012
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	0.00336	0.00371	0.00318	0.00288	0.00319	0.00377	0.00285	0.00306	0.00129	0.00227	0.00306	0.0036	0.00328	0.00458	0.00273	0.00258
Uranium-T	mg/L	-	-	0.000021	0.000018	0.000023	0.000019	0.000016	< 0.000002	0.000026	0.000018	0.00002	0.000023	0.000016	0.000012	0.00002	0.000432	0.000016	0.000005
Vanadium-T	mg/L	-	-	0.00046	0.00052	0.00045	0.00042	0.00039	0.00038	0.00036	0.0004	0.00027	0.00035	0.00035	0.00035	0.0004	0.00047	0.00037	0.00041
Zinc-T	mg/L	< 0.005	0.004	0.002	0.004	< 0.002	< 0.002	0.003	0.003	0.002	< 0.002	< 0.002	0.002	< 0.002	0.003	0.002	< 0.002	< 0.002	0.006
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals																			
Aluminum-D	mg/L	0.067	0.038	0.058	0.056	0.083	0.095	0.065	0.085	0.094	0.144	0.085	0.085	0.094	0.12	0.068	0.058	0.046	0.044
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0009	< 0.0009	0.0021	-
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0007	0.0006	0.0005	-
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00703	0.00661	0.0057	-
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00001	0.000008	< 0.000007	-
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.000007	< 0.000007	-
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.006	0.012	0.004	-
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000005	0.000051	< 0.000003	-
Calcium-D	mg/L	-	14.2	-	9.81	12.8	-	-	9.61	-	-	-	-	-	-	6.82	8.94	7.91	-
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00041	0.00029	0.00026	-
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000094	0.000037	0.000021	-
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0015	0.0017	0.0011	-
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.087	0.102	0.048	-
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00002	0.00002	0.00002	-
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0005	0.0004	0.0002	-
Magnesium-D	mg/L	-	2.99	-	2.21	3.01	-	-	2.24	-	-	-	-	-	-	1.52	2.19	1.98	-
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0074	0.0191	0.00067	-
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00017	0.0004	0.00046	-
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0005	0.0005	0.0004	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.016	< 0.003	< 0.003	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	0.26	0.25	-
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00008	0.00009	0.00006	-
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.82	1.78	1.66	-
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.04	1.42	1.38	-
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0329	0.0334	0.0314	-
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.000005	< 0.000005	-
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00006	< 0.00006	< 0.00006	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00136	0.00115	0.00042	-
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000016	0.000218	0.000018	-
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0003	0.00032	0.00028	-
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002	0.003	< 0.002	-
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
	Units	21-Oct-19	19-Nov-19	16-Dec-19	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	4-Nov-20	25-Mar-21	30-Apr-21	18-May-21	16-Jun-21	21-Jul-21	20-Aug-21	15-Sep-21	12-Oct-21	15-Nov-21	16-Dec-21
Field Parameters																			
Temperature	°C	7.9	4	0.3	3	0.2	-	16	2	0.8	7.6	14	17	21	22	15	16	3.9	0.2
pH	s.u.	7.2	7.3	7.1	7.3	7.3	-	7.2	7.6	7.7	7.9	7.8	7.2	7.5	7.3	7.5	7.5	7.5	7.7
Conductivity	µS/cm	72.7	180	81.4	140	91.8	-	51.8	73.3	80.7	74.4	75.3	96.5	81.7	81.3	87.7	95.9	86.9	91.6
Dissolved Oxygen	mg/L	10.5	10.3	10.5	8.4	12.6	-	7.64	11.7	13.3	11.9	10.1	7.94	7.5	6.97	8.6	8.09	11.9	12.1
Dissolved Oxygen %	%	88.7	-	72.4	-	-	-	-	85.2	96.7	98.7	101	-	83.8	83	85.1	91.4	90.8	83.1
Oxidation-Reduction Potential	mV	143	-	156	-	136	-	-	-	136	59.2	105	-	170	5	163	132	175	203
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	1.73	1.31	1.13	1.22	1.01	4.06	5.12	1.45	2.64	2.9	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	37.8	35.3	36.5	39.5	43.3	35.9	43.9	33.9	43.4	33.7	36.2	44.5	38.2	51	42.4	39	45.4	43.3
Alkalinity, Total (as CaCO3)	mg/L	29	30	32	36	36	29	38	30	31	32	34	47	52	43	45	38	41	40
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	60	66	57	66	71	60	54	69	71	63	74	54	64	68	102	74	68	74
Total Suspended Solids	mg/L	2	3	1	1	1	5	9	2	4	3	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	11	14	10	11.4	12.4	12.3	15.2	-	13.3
Dissolved Organic Carbon	mg/L	8	6	9	9	9	9	-	-	10	11	13.9	9.7	10.6	11.7	12.2	7.5	-	12.6
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	0.03	0.02	< 0.02	0.04	< 0.02
Ammonia, Unionized (as N)	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002	< 0.000002	< 0.000002	0.000161	0.000109	< 0.000002	0.00027	< 0.000002
Chloride	mg/L	2	2	2	-	2	1	-	-	0.9	2	1.04	1.36	0.95	0.97	1.19	0.87	-	1.22
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.2	< 0.2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	0.03	0.03	0.025	0.025	0.025	0.025	0.025	0.025	-	0.025
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	0.08	0.35	0.11	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	0.08	0.35	0.11	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	< 0.03	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
Sulphate	mg/L	< 2	< 2	4	2	< 2	< 2	5	6	6	< 2	3.21	3.17	3.61	2.76	3.52	4.44	3.53	3.43
Total Kjeldahl Nitrogen	mg/L	0.25	0.25	0.7	0.25	0.25	0.25	0.25	0.25	0.25	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.103	0.072	0.07	0.069	0.072	0.282	0.15	0.072	0.221	0.111	-	0.112	0.131	0.167	0.178	0.113	-	0.082
Antimony-T	mg/L	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	0.0018	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	0.0006	0.0004	0.0007	0.0004	0.0005	0.0005	0.0009	0.0005	0.0005	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Barium-T	mg/L	0.00947	0.00786	0.0106	0.00875	0.00908	0.00899	0.0111	0.00763	0.016	0.00798	0.008	0.01	0.01	0.01	0.011	0.01	0.01	0.009
Beryllium-T	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000011	0.00001	0.000009	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001
Bismuth-T	mg/L	0.000015	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.00003	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-
Boron-T	mg/L	0.004	0.004	< 0.002	0.003	0.008	0.003	0.006	0.004	0.003	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	0.000006	0.000018	0.000004	0.00001	0.000009	0.000006	0.00001	0.000005	0.000017	0.000011	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium-T	mg/L	11	10.3	11	11.4	12.6	10.4	12.7	10.1	12.5	9.86	-	-	-	-	-	-	-	-
Chromium-T	mg/L	0.00055	0.00044	0.00044	0.00037	0.00046	0.00093	0.00072	0.00033	0.0008	0.00047	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt-T	mg/L	0.000056	0.000034	0.000116	0.000041	0.000066	0.000134	0.000097	0.000044	0.00013	0.000062	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper-T	mg/L	0.0015	0.0014	0.0014	0.001	0.0016	0.0019	0.0018	0.0014	0.0018	0.0012	0.012	0.002	0.002	0.002	0.002	0.002	0.001	0.001
Iron-T	mg/L	0.228	0.189	0.173	0.165	0.176	0.302	0.229	0.144	0.43	0.176	0.192	0.215	0.191	0.192	0.267	0.17	0.245	0.186
Lead-T	mg/L	0.00012	< 0.00001	0.0001	0.00004	0.00005	< 0.00001	0.00015	< 0.00001	0.00023	< 0.00009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Lithium-T	mg/L	0.0004	0.0003	0.0003	0.0004	0.0012	0.0004	0.001	0.0005	0.0003	0.0003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium-T	mg/L	2.48	2.34	2.22	2.64	2.86	2.39	2.94	2.12	2.96	2.2	-	-	-	-	-	-	-	-
Manganese-T	mg/L	0.0256	0.0164	0.0164	0.0169	0.016	0.0219	0.035	0.00654	0.0483	0.0184	0.019	0.064	0.024	0.043	0.03	0.014	0.045	0.015
Mercury-T	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	-	-	-	-	-	-	-	< 0.0001	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.00000012	-	-	-	-	-	-	-
Molybdenum-T	mg/L	0.00049	0.00019	0.00022	0.00014	0.00016	0.00025	< 0.00004	0.00033	0.00047	0.00023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel-T	mg/L	0.0005	0.0004	0.0006	0.0003	0.0005	0.0006	0.0003	0.0006	0.0006	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003

STATION		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
	Units	21-Oct-19	19-Nov-19	16-Dec-19	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	4-Nov-20	25-Mar-21	30-Apr-21	18-May-21	16-Jun-21	21-Jul-21	20-Aug-21	15-Sep-21	12-Oct-21	15-Nov-21	16-Dec-21
Phosphorus-T	mg/L	0.008	0.01	0.01	0.005	0.012	0.007	0.012	0.005	0.014	0.005	0.018	0.032	0.012	0.045	0.017	0.029	-	< 0.006
Potassium-T	mg/L	0.342	0.336	0.327	0.347	0.358	0.377	0.425	0.525	0.46	0.297	-	-	-	-	-	-	-	-
Selenium-T	mg/L	0.00019	0.00008	0.00009	0.00006	0.00008	0.00005	0.00005	0.00009	0.00011	0.00006	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.001	< 0.001
Silicon-T	mg/L	2.32	2.17	2.05	2.59	3.59	3.5	2.65	2.46	2.95	2.7	2.34	2.16	1.98	2.62	2.95	2.04	2.41	2.29
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00007	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium-T	mg/L	1.42	1.56	1.8	1.62	1.74	1.28	2.09	2.21	1.36	1.43	-	-	-	-	-	-	-	-
Strontium-T	mg/L	0.0627	0.0449	0.0654	0.0509	0.0506	0.0504	0.0481	0.0455	0.109	0.0408	0.039	0.05	0.056	0.036	0.062	0.066	0.058	0.056
Thallium-T	mg/L	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin-T	mg/L	< 0.00006	< 0.00006	0.0001	0.00026	0.00016	< 0.00006	0.00011	< 0.00006	0.00011	0.00011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.00282	0.00156	0.00176	0.0016	0.00209	0.00854	0.006	0.00151	0.0066	0.00274	0.003	0.007	0.006	0.008	0.008	< 0.01	< 0.01	< 0.01
Uranium-T	mg/L	0.000025	0.000013	0.000022	0.000019	0.000025	0.000024	0.000031	0.000039	0.000028	0.000018	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium-T	mg/L	0.00043	0.00033	0.0003	0.00026	0.0003	0.00059	0.00065	0.00032	0.00053	0.00033	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc-T	mg/L	0.003	0.003	0.003	< 0.002	< 0.002	0.003	< 0.002	< 0.002	0.003	< 0.002	< 0.005	< 0.005	< 0.005	0.018	0.008	< 0.02	< 0.02	< 0.02
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Dissolved Metals																			
Aluminum-D	mg/L	0.036	0.039	0.053	0.07	0.046	0.139	0.071	0.072	0.067	0.045	0.073	0.045	0.033	0.013	0.033	0.03	0.031	0.023
Antimony-D	mg/L	< 0.0009	0.0019	< 0.0009	-	< 0.0009	< 0.0009	-	-	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Arsenic-D	mg/L	0.0005	0.0004	0.0004	-	0.0005	0.0004	-	-	0.0004	0.0004	< 0.003	< 0.001	< 0.001	0.004	< 0.001	< 0.001	-	0.003
Barium-D	mg/L	0.00867	0.00701	0.00918	-	0.00865	0.00736	-	-	0.0122	0.0075	0.007	0.008	0.009	0.008	0.009	0.01	-	0.009
Beryllium-D	mg/L	< 0.000007	< 0.000007	< 0.000007	-	< 0.000007	0.000009	-	-	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Bismuth-D	mg/L	< 0.000007	0.000014	0.000017	-	< 0.000007	< 0.000007	-	-	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-
Boron-D	mg/L	0.003	0.003	< 0.002	-	0.006	0.003	-	-	0.002	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01
Cadmium-D	mg/L	0.000003	0.000014	< 0.000003	-	< 0.000003	0.000003	-	-	0.000008	0.000009	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Calcium-D	mg/L	10.9	9.88	10.1	-	12.3	10.5	-	-	11.5	10.5	-	-	-	-	-	-	-	-
Chromium-D	mg/L	0.00042	0.00047	0.00028	-	0.00033	0.00058	-	-	0.00044	0.00054	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.003
Cobalt-D	mg/L	0.000027	0.000029	0.000034	-	< 0.000004	0.000073	-	-	0.000057	0.000039	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Copper-D	mg/L	0.0014	0.0015	0.0011	-	0.0011	0.0014	-	-	0.0015	0.0011	0.001	0.002	0.001	0.001	0.005	0.002	-	0.005
Iron-D	mg/L	0.141	0.12	0.116	-	0.119	0.171	-	-	0.184	0.116	0.108	0.104	0.1	0.067	0.104	0.053	-	0.122
Lead-D	mg/L	0.00006	< 0.00001	< 0.00001	-	0.00003	0.00001	-	-	0.00007	< 0.00009	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Lithium-D	mg/L	0.0004	0.0003	0.0002	-	0.0009	0.0003	-	-	0.0002	0.0003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01
Magnesium-D	mg/L	2.46	2.18	1.99	-	2.75	2.34	-	-	2.78	2.3	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.00789	0.00569	0.00846	-	0.0121	0.0162	-	-	0.0379	0.012	0.01	0.026	0.019	0.022	0.01	0.006	-	0.009
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0001	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	0.00039	0.00029	0.00019	-	0.00014	0.00021	-	-	0.00037	0.00041	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Nickel-D	mg/L	0.0005	0.0004	0.0004	-	0.0004	0.0005	-	-	0.0004	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.001
Phosphorus-D	mg/L	< 0.003	< 0.003	< 0.003	-	0.003	< 0.003	-	-	< 0.003	< 0.003	-	-	-	-	-	-	-	-
Potassium-D	mg/L	0.331	0.318	0.284	-	0.352	0.346	-	-	0.404	0.309	-	-	-	-	-	-	-	-
Selenium-D	mg/L	0.00013	0.00008	0.00008	-	0.00007	0.00012	-	-	0.0001	0.00007	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	0.001	-	0.003
Silicon-D	mg/L	2.08	2	1.69	-	2.91	3.28	-	-	2.65	2.77	1.87	1.87	1.99	2	2.28	1.42	-	2.22
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	-	0.00005	< 0.00005	-	-	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Sodium-D	mg/L	1.4	1.55	1.2	-	1.61	1.13	-	-	1.3	1.5	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.0624	0.0429	0.0628	-	0.0508	0.05	-	-	0.101	0.042	0.039	0.044	0.063	0.042	0.06	0.068	-	0.061
Thallium-D	mg/L	< 0.000005	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	-	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	< 0.0003
Tin-D	mg/L	< 0.00006	< 0.00006	< 0.00006	-	0.0001	< 0.00006	-	-	< 0.00006	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	0.00109	0.0007	0.00071	-	0.0006	0.00271	-	-	0.0014	0.00091	0.006	< 0.002	< 0.002	< 0.002	0.002	< 0.002	-	0.004
Uranium-D	mg/L	0.000022	0.000016	0.00002	-	0.000021	0.000023	-	-	0.000022	0.000019	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Vanadium-D	mg/L	0.00031	0.00027	0.00022	-	0.0002	0.00034	-	-	0.00028	0.00025	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Zinc-D	mg/L	< 0.002	0.002	< 0.002	-	0.005	0.003	-	-	0.003	0.003	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	0.006
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004

STATION		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
	Units	2-Feb-22	24-Feb-22	15-Mar-22	22-Apr-22	20-May-22	15-Jun-22	21-Jul-22	18-Aug-22	20-Sep-22	20-Oct-22	24-Nov-22	15-Dec-22	25-Jan-23	15-Feb-23	23-Mar-23	25-Apr-23	11-May-23	14-Jun-23
Field Parameters																			
Temperature	°C	0	0.1	0	2.2	12	21	23	23.3	15.5	7.6	2.6	0.5	0.1	0.3	0.2	-	12.2	18.5
pH	s.u.	7.8	7.5	8.2	7	7.1	7.7	7.3	7.36	7.87	7.9	7.38	7.98	7.17	7.71	7.38	-	7.34	7.37
Conductivity	µS/cm	92.9	68.1	94.7	76.9	62.2	59.7	67	76.3	67.9	71.4	74.5	75.7	76.9	81.3	85.3	-	58.7	73.3
Dissolved Oxygen	mg/L	13.1	13.7	14.5	12.1	9.66	7.82	7.46	7.48	9.14	10.8	9.82	11.82	12.88	12.96	12.66	-	9.54	9.16
Dissolved Oxygen %	%	89.3	93.6	98.7	87.6	89.7	88	86.1	87.66	91.6	90.1	72	82	88.4	89.3	87.2	-	88.6	97.7
Oxidation-Reduction Potential	mV	109	144	11.7	285	214	131	170	130.8	-	-	-	-	-	-	-	-	-	-
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	7.49	7.18	7.51	7.23	-	-	7.46	7.24	7.21	6.97
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6.2	4.7	5.1
Hardness (as CaCO3)	mg/L	45.6	-	51.6	38.8	30.3	33.1	34	-	0	35	35.1	34.9	-	-	38.2	30.1	26.9	35.4
Alkalinity, Total (as CaCO3)	mg/L	28	-	47	39	28	29	31	-	32	32	37	33	-	-	32	24	26	35
Acidity (as CaCO3)	mg/L	5	-	5	6	8	-	-	-	-	-	-	-	-	-	2.5	2.5	5.1	2.5
Total Dissolved Solids	mg/L	76	-	66	62	54	44	60	-	54	48	58	74	-	-	52	68	32	56
Total Suspended Solids	mg/L	< 10	-	5	5	5	5	5	-	< 10	< 10	< 10	< 10	-	-	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	11	-	9.7	12.2	11.5	12.3	13	-	21.7	15.3	18.2	14.7	-	-	13	8.4	12.1	9.4
Dissolved Organic Carbon	mg/L	10.5	-	9.7	12.1	11	12.2	12.5	-	18.8	15.3	15.6	13.9	-	-	12.8	7.3	12.6	9.1
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	172	169	121.5	170.8	242.4	327.5	154.8	-	-	290.4
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	0.03	0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Unionized (as N)	mg/L	< 0.000002	-	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	1.13	-	1.27	0.79	1.04	0.82	1.1	-	0.7	0.86	1.02	1.18	-	-	1.27	0.62	1.17	1.36
Cyanide (CN), Free	mg/L	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	0.025	-	0.025	0.025	0.025	0.025	0.025	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	0.08	-	0.1	0.29	0.13	0.06	0.025	-	< 0.05	0.06	0.08	0.09	-	-	0.12	0.19	0.13	0.05
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	-	0.01	0.01	0.01	0.01	0.01	-	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	3.49	-	3.88	3.61	2.61	2.51	2.51	-	2.77	2.58	2.34	2.59	-	-	3.09	2.25	2.32	2.5
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	< 0.006	< 0.006	0.007	0.041	-	-	< 0.006	< 0.006	< 0.02	< 0.006
Total Metals																			
Aluminum-T	mg/L	0.068	-	0.063	0.191	0.17	0.204	0.153	-	0.84	0.121	0.124	0.129	-	-	0.092	0.224	0.187	0.123
Antimony-T	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	0.002	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	-	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000032	-	0.000017	< 0.000016	< 0.000016	< 0.000016	-	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016
Calcium-T	mg/L	14.8	-	13.4	11	8.9	9.41	9.8	-	10.2	9.6	10.1	10	-	-	11	8.6	7.8	10.4
Chromium-T	mg/L	0.0007	-	0.0008	0.0007	0.0009	0.0008	< 0.001	-	0.0027	0.0006	0.0007	0.0006	-	-	0.0011	0.001	0.0007	0.0007
Cobalt-T	mg/L	< 0.0009	-	< 0.0009	< 0.00001	0.0001	0.0001	0.00009	-	0.00037	0.00013	0.00007	0.00009	-	-	0.00006	0.00014	0.0001	0.00006
Copper-T	mg/L	0.0016	-	0.0014	0.002	0.0018	0.0022	0.0021	-	0.0062	0.0016	0.0012	0.0018	-	-	0.0015	0.0017	0.0015	0.0019
Iron-T	mg/L	0.2	-	0.2	0.3	0.2	0.2	0.3	-	0.9	0.3	0.3	0.3	-	-	0.2	0.4	0.3	0.2
Lead-T	mg/L	< 0.0001	-	0.0002	0.0001	0.0001	0.0001	< 0.0002	-	0.0005	0.0001	0.0001	< 0.0001	-	-	< 0.0001	0.0002	0.0001	< 0.0001
Lithium-T	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	0.001	< 0.001	< 0.001
Magnesium-T	mg/L	3.2	-	3.62	2.84	1.97	2.34	2.3	-	2.9	2.4	2.4	2.4	-	-	2.6	2.1	1.8	2.3
Manganese-T	mg/L	0.016	-	0.015	0.021	0.021	0.024	0.032	-	0.047	0.024	0.019	0.021	-	-	0.025	0.026	0.017	0.027
Mercury-T	mg/L	-	-	-	-	-	< 0.000005	-	-	0.0000039	< 0.0000025	0.0000099	0.0000041	-	-	0.0000027	0.0000056	0.0000045	< 0.0000025
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	0.00000014	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	-	< 0.003	< 0.003	< 0.003	< 0.003	-	-	< 0.003	< 0.003	< 0.003	< 0.003

STATION		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
	Units	2-Feb-22	24-Feb-22	15-Mar-22	22-Apr-22	20-May-22	15-Jun-22	21-Jul-22	18-Aug-22	20-Sep-22	20-Oct-22	24-Nov-22	15-Dec-22	25-Jan-23	15-Feb-23	23-Mar-23	25-Apr-23	11-May-23	14-Jun-23
Phosphorus-T	mg/L	0.016	-	0.009	0.014	0.028	0.01	< 0.006	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	-	-	-	-	< 0.6	-	-	-	< 0.6	< 0.6	< 0.6	-	-	< 0.6	< 0.6	< 0.6	< 0.6
Selenium-T	mg/L	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	3	-	2.96	3.28	2.4	2	2.2	-	3.7	2.8	2.7	2.9	-	-	2.9	3.3	2.1	2.2
Silver-T	mg/L	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	-	0.00007	< 0.00005	< 0.00005	< 0.00005	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	1.8	-	1.9	1.3	1.25	1.3	2	-	1.9	1.5	1.5	1.6	-	-	1.9	1.4	1.5	1.5
Strontium-T	mg/L	0.052	-	0.053	0.045	0.037	0.039	0.043	-	0.054	0.047	0.039	0.041	-	-	0.044	0.034	0.037	0.04
Thallium-T	mg/L	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.002	-	0.002	0.005	0.004	0.005	0.004	-	0.027	0.003	0.002	0.003	-	-	0.002	0.006	0.005	0.003
Uranium-T	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	< 0.001	-	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.002	-	0.002	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-T	mg/L	< 0.004	-	< 0.004	< 0.004	0.008	< 0.004	< 0.008	-	< 0.004	< 0.004	< 0.004	< 0.004	-	-	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-T	mg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals																			
Aluminum-D	mg/L	0.029	-	0.032	0.063	0.075	0.072	0.055	-	0.097	0.07	0.079	0.08	-	-	0.066	0.095	0.08	0.051
Antimony-D	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Barium-D	mg/L	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016
Calcium-D	mg/L	12.8	-	13.5	11	8	7.9	8.5	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	-	0.0008	0.0019	< 0.0005	< 0.0005	-	-	0.0007	< 0.0005	< 0.0005	< 0.0005
Cobalt-D	mg/L	< 0.0009	-	< 0.0009	< 0.00001	0.00002	0.00002	0.00004	-	0.00006	0.00005	0.00004	0.00007	-	-	0.00004	0.00007	< 0.00006	< 0.00006
Copper-D	mg/L	0.0009	-	0.0009	0.0012	0.0011	0.0012	0.0013	-	0.0027	0.0012	0.0011	0.0011	-	-	0.0009	0.0011	0.0011	0.001
Iron-D	mg/L	0.1	-	0.1	0.2	< 0.1	< 0.1	0.1	-	0.2	0.2	0.2	0.2	-	-	0.2	0.2	0.2	< 0.1
Lead-D	mg/L	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lithium-D	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	3	-	3.1	2.83	1.9	1.9	2.1	-	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.01	-	0.01	0.011	< 0.005	0.01	< 0.005	-	0.014	< 0.005	0.007	0.016	-	-	0.018	0.019	0.014	0.016
Mercury-D	mg/L	-	-	-	-	-	< 0.000005	-	-	0.0000045	0.00000125	0.0000072	0.0000041	-	-	0.00000125	0.0000042	0.0000028	0.00000125
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	0.001	< 0.001
Nickel-D	mg/L	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	-	-	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	< 0.6	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	2.65	-	2.9	3.02	2.3	1.88	2.03	-	2.29	2.61	2.46	2.72	-	-	2.97	2.96	2.08	2.28
Silver-D	mg/L	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	2.2	-	2.3	1.6	1.4	1.3	1.6	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.058	-	0.056	0.049	0.036	0.04	0.043	-	0.063	0.048	0.041	0.043	-	-	0.045	0.032	0.035	0.04
Thallium-D	mg/L	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	0.001	0.001	< 0.001	0.001	-	-	< 0.001	0.001	< 0.001	< 0.001
Uranium-D	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	< 0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	-	-	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-D	mg/L	< 0.001	-	< 0.01	0.00013	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01

STATION		M2	M2	M2	M2	M2	M2	M2	M2
	Units	12-Jul-23	23-Aug-23	20-Sep-23	30-Oct-23	23-Nov-23	14-Dec-23	16-Jan-24	27-Feb-24
Field Parameters									
Temperature	°C	22.5	18.9	-	-	-	0.5	0.8	0.4
pH	s.u.	7.69	7.65	-	-	-	7.31	7.45	7.91
Conductivity	µS/cm	75.7	90.8	-	-	-	69.4	78.5	84.8
Dissolved Oxygen	mg/L	7.55	7.93	-	-	-	13.38	12.89	12.68
Dissolved Oxygen %	%	84.6	85.4	-	-	-	92.8	90.2	87.7
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-
Lab Parameters									
pH	s.u.	6.95	6.74	6.5	6.32	6.78	6.57	6.45	-
Turbidity	NTU	3.1	5.6	3	3.2	0.25	3.4	2	-
Hardness (as CaCO3)	mg/L	34.4	39.6	36.4	34.2	-	35.4	37.4	-
Alkalinity, Total (as CaCO3)	mg/L	31	40	37	27	33	35	35	-
Acidity (as CaCO3)	mg/L	5.5	5.1	5.7	6.5	7.2	2.5	2.5	-
Total Dissolved Solids	mg/L	60	58	48	58	54	68	58	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Total Organic Carbon	mg/L	10	10.7	7.4	12.6	14.1	16.5	12	-
Dissolved Organic Carbon	mg/L	9.9	10	7.2	12.5	13.7	16.5	12.2	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-
Nutrients and Anions									
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Ammonia, Unionized (as N)	mg/L	-	-	-	-	-	-	-	-
Chloride	mg/L	1.05	1.46	0.96	0.91	0.88	0.91	1.16	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05	0.05	0.07	0.09	0.11	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	2.37	3.12	3.19	2.66	2.71	2.71	3.04	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	< 0.006	0.03	< 0.02	0.04	< 0.02	< 0.02	< 0.02	-
Total Metals									
Aluminum-T	mg/L	0.083	0.086	0.077	0.119	0.146	0.117	0.132	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-T	mg/L	9.8	11.4	10.6	9.9	10.1	10.2	11	-
Chromium-T	mg/L	0.0007	< 0.0005	< 0.0005	< 0.0005	0.0008	0.0007	0.0006	-
Cobalt-T	mg/L	0.00008	0.00017	0.00006	0.00006	0.0001	0.00007	0.00007	-
Copper-T	mg/L	0.0018	0.0019	0.0019	0.0016	0.0022	0.0022	0.0017	-
Iron-T	mg/L	0.2	0.2	0.2	0.2	0.3	0.3	0.3	-
Lead-T	mg/L	< 0.0001	< 0.0001	< 0.0001	0.0001	0.0001	0.0001	< 0.0001	-
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-T	mg/L	2.4	2.7	2.4	2.3	2.2	2.4	2.4	-
Manganese-T	mg/L	0.025	0.031	0.03	0.019	0.021	0.022	0.02	-
Mercury-T	mg/L	0.0000026	< 0.0000025	< 0.0000025	0.0000028	0.0000037	0.0000044	0.0000043	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-

STATION		M2	M2	M2	M2	M2	M2	M2	M2
	Units	12-Jul-23	23-Aug-23	20-Sep-23	30-Oct-23	23-Nov-23	14-Dec-23	16-Jan-24	27-Feb-24
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-
Potassium-T	mg/L	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	-
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	2.1	1.9	2.1	2.5	2.8	3.1	1.9	-
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	1.6	1.9	1.6	1.4	1.3	1.5	1.9	-
Strontium-T	mg/L	0.04	0.051	0.049	0.04	0.038	0.043	0.044	-
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.002	0.002	0.002	0.002	0.003	0.002	0.003	-
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.004	< 0.004	< 0.004	0.011	< 0.004	< 0.004	< 0.004	-
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Dissolved Metals									
Aluminum-D	mg/L	0.062	0.025	0.032	0.083	0.092	0.082	0.089	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.00005	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	-	-	-	-	-	-
Chromium-D	mg/L	0.0013	0.0007	< 0.0005	< 0.0005	0.0006	< 0.0005	0.0005	-
Cobalt-D	mg/L	0.00015	0.00055	0.00008	< 0.00006	< 0.00006	< 0.00006	0.00024	-
Copper-D	mg/L	0.0011	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	-
Iron-D	mg/L	< 0.1	< 0.1	< 0.1	0.2	0.2	0.2	0.2	-
Lead-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.016	0.022	0.012	0.02	0.014	0.016	0.014	-
Mercury-D	mg/L	0.00000125	0.00000125	0.00000125	0.0000037	0.0000036	0.0000042	0.000004	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	1.91	1.97	2.16	2.3	2.76	2.62	1.96	-
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.037	0.05	0.048	0.041	0.038	0.04	0.046	-
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-
Titanium-D	mg/L	< 0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	0.001	-
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-

STATION		STATION		M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
	Units		Units	24-Feb-11	4-May-11	7-Jul-11	6-Sep-11	1-Nov-11	9-Jan-12	6-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	16-Oct-12	10-Dec-12	12-Feb-13	30-Apr-13	15-Jul-13	20-Sep-13	6-Oct-15
Field Parameters		**Field Parameters**																		
Temperature	°C	**Temperature**	°C	0.86	3.48	21.08	18.97	7.41	1.46	1.04	6.51	20.63	18.58	7.83	0.13	1.04	1.6	22.2	15.53	12.2
pH	s.u.	**pH**	s.u.	7.48	7.4	7.7	7.82	8.83	8.06	8.58	8.32	8.01	8.21	8.11	8.09	6.68	8.13	7.17	7.77	7.31
Conductivity	µS/cm	**Conductivity**	µS/cm	69	89	52	88	67	68	69	63	66	79	70	17	82	71.5	51	48	63.2
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	12.81	8.91	8.48	8.5	11.02	13.12	12.44	12.72	8.12	8.45	10.8	13.58	-	11.9	8.75	9.13	7.34
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters		**Lab Parameters**																		
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	34	28	24	42	27	33	33	25	32	35	35	30	32	35	28	30	32
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	29	26	21			26	26	21	26	30	31	31	26	27	21	24	30
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 10	< 10	< 10	-	-	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	44	40	38	56	54	48	64	48	26	74	54	38	56	42	42	56	52
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 1	1	2	2	< 1	< 1	1	2	5	2	4	79	< 1	6	4	< 1	1
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**																		
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.09	< 0.05	0.087	0.063	0.063	< 0.05	< 0.05
Ammonia, Unionized (as N)	mg/L	**Ammonia, Unionized (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	**Chloride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	**Fluoride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	**Sulphate**	mg/L	< 1	< 1	< 1	< 1	< 1	< 1	3	< 1	< 1	3	3	< 1	< 1	< 1	< 1	< 1	< 1
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	0.05	-	-	-	-	-	-	-	-	-	-	0.013
Total Metals		**Total Metals**																		
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.096	0.24	0.12	0.083	0.085	0.12	0.11	0.2	0.11	0.061	0.17	1.1	0.15	0.19	0.14	0.077	0.091
Antimony-T	mg/L	**Antimony-T**	mg/L	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-	-	-	-	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	-	-	-	-	-	0.0043	-	-	-	-	-	-	-	-	-	-	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-	-	-	-	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-T	mg/L	**Boron-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium-T	mg/L	**Calcium-T**	mg/L	11	9.9	7.7	12	8.7	9.2	10	7.6	9.3	11	11	11	9.9	9.4	7.8	8	9.4
Chromium-T	mg/L	**Chromium-T**	mg/L	-	-	-	-	-	< 0.005	-	-	-	-	-	-	-	-	-	-	-
Cobalt-T	mg/L	**Cobalt-T**	mg/L	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-	-	-	-	-
Copper-T	mg/L	**Copper-T**	mg/L	0.002	0.005	0.003	0.003	0.002	0.0017	0.0016	0.0053	0.0029	0.0048	0.0052	0.13	0.0022	0.0021	0.0024	0.0026	0.0016
Iron-T	mg/L	**Iron-T**	mg/L	0.18	0.3	0.13	0.16	0.18	0.17	0.23	0.27	0.15	0.05	0.32	2.3	0.23	0.33	0.13	0.18	0.25
Lead-T	mg/L	**Lead-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium-T	mg/L	**Lithium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	-	-	2.3	-	-	-	-	-	-	-	-	-	-	2.1
Manganese-T	mg/L	**Manganese-T**	mg/L	-	-	-	-	-	0.018	-	-	-	-	-	-	-	-	-	-	-
Mercury-T	mg/L	**Mercury-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00017	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.001	0.001	< 0.001	0.0008	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.011	0.0015	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.005	< 0.001	0.0016	0.0012	< 0.001	< 0.001	< 0.001	0.0042	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

STATION		STATION		M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
	Units		Units	24-Feb-11	4-May-11	7-Jul-11	6-Sep-11	1-Nov-11	9-Jan-12	6-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	16-Oct-12	10-Dec-12	12-Feb-13	30-Apr-13	15-Jul-13	20-Sep-13	6-Oct-15
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	-	-	-	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	-	0.31	-	-	-	-	-	-	-	-	-	-	-
Selenium-T	mg/L	**Selenium-T**	mg/L	-	-	-	-	-	< 0.002	-	-	-	-	-	-	-	-	-	-	0.001
Silicon-T	mg/L	**Silicon-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-T	mg/L	**Silver-T**	mg/L	-	-	-	-	-	< 0.0001	-	-	-	-	-	-	-	-	-	-	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-
Strontium-T	mg/L	**Strontium-T**	mg/L	-	-	-	-	-	0.023	-	-	-	-	-	-	-	-	-	-	-
Thallium-T	mg/L	**Thallium-T**	mg/L	-	-	-	-	-	< 0.00005	-	-	-	-	-	-	-	-	-	-	-
Tin-T	mg/L	**Tin-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-T	mg/L	**Uranium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-	-	-	-	-
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.005	< 0.005	< 0.005	0.006	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.023	< 0.005	0.0082	0.0064	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium-T	mg/L	**Zirconium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals		**Dissolved Metals**																		
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.062	0.085	0.056	0.017	0.025	0.076	0.067	0.086	0.054	0.02	0.03	0.068	0.099	0.078	0.073	0.041	0.044
Antimony-D	mg/L	**Antimony-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-	-	-	-	-
Barium-D	mg/L	**Barium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	**Boron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.0001	-	-	-	-	-	-	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	-	-	9.66	-	-	-	10	-	-	-	-	-	-	9.2
Chromium-D	mg/L	**Chromium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	**Copper-D**	mg/L	-	-	-	-	-	-	-	-	-	0.0016	-	-	-	-	-	-	-
Iron-D	mg/L	**Iron-D**	mg/L	-	-	-	-	-	-	-	-	-	0.11	-	-	-	-	-	-	-
Lead-D	mg/L	**Lead-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-
Lithium-D	mg/L	**Lithium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	-	-	2.07	-	-	-	2.3	-	-	-	-	-	-	2.2
Manganese-D	mg/L	**Manganese-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.0005	-	-	-	-	-	-	-
Nickel-D	mg/L	**Nickel-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-	-	-	-	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	**Silicon-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	**Silver-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	**Thallium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	**Tin-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	**Uranium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	**Zinc-D**	mg/L	-	-	-	-	-	-	-	-	-	< 0.005	-	-	-	-	-	-	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
	Units	15-Jun-16	10-Oct-17	11-Jun-18	24-Jul-18	28-Aug-18	26-Sep-18	1-Nov-18	13-Nov-18	11-Dec-18	24-Jan-19	11-Mar-19	23-Apr-19	28-May-19	18-Jun-19	24-Jul-19	14-Aug-19	30-Sep-19	21-Oct-19
Field Parameters																			
Temperature	°C	17.6	15.1	20	-	21	14	-	1.7	-	-	0.4	4.4	11	17	22	21	14	8.7
pH	s.u.	7.7	7.03	6.3	-	7.5	8.2	-	7.1	-	-	6.9	8.4	8.9	7.2	7.5	7.3	7.8	7.1
Conductivity	µS/cm	46.6	76	44	-	60.2	63.9	-	58	-	-	60.7	-	-	37.9	-	48	60	51.8
Dissolved Oxygen	mg/L	6.61	-	6.48	-	6.98	8.06	-	11.6	-	-	11.7	6.5	6.94	7.92	5.6	7.04	6.8	8.78
Dissolved Oxygen %	%	-	-	-	-	79	78.3	-	83.2	-	-	81.2	-	-	81.2	-	77	-	76.3
Oxidation-Reduction Potential	mV	-	-	-	-	-	96.3	-	114	-	-	132	-	-	160	-	173	-	126
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	1.1	2.47	1.39	1.21	-	1.53	2.4	1.77	1	1.22	0.82	2.34	1.8	1.45	1.26	0.83	1.34	1.7
Hardness (as CaCO3)	mg/L	27	36.1	22.9	32.2	29.9	29	31.3	28.6	29.6	30.3	30.6	32.5	25.9	17.2	23	21.3	28.9	26.5
Alkalinity, Total (as CaCO3)	mg/L	21	29	21	30	26	28	24	24	24	24	33	31	21	27	21	20	22	23
Acidity (as CaCO3)	mg/L	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Total Dissolved Solids	mg/L	50	46	63	49	51	54	83	15	57	51	69	66	51	40	46	46	31	34
Total Suspended Solids	mg/L	< 10	4	2	3	4	< 2	2	1	< 2	< 2	< 1	2	2	1	2	1	1	2
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	14	16	-	8	11	9	11	8	9
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.05	< 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	0.2	< 0.1
Ammonia, Unionized (as N)	mg/L	-	-	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	1	-	< 1
Cyanide (CN), Free	mg/L	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	< 1	2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Total Kjeldahl Nitrogen	mg/L	0.27	0.25	< 0.5	< 0.5	-	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2	0.8	< 0.5	< 0.5
Total Phosphorus	mg/L	0.01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.12	0.064	0.106	0.08	0.051	0.064	0.136	0.158	0.154	0.154	0.121	0.131	0.198	0.137	0.095	0.051	0.096	0.094
Antimony-T	mg/L	-	-	< 0.0002	< 0.0002	0.0004	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Arsenic-T	mg/L	< 0.001	0.0005	0.0003	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005
Barium-T	mg/L	-	-	0.00417	0.00606	0.00621	0.00549	0.00506	0.00501	0.00528	0.00495	0.00459	0.0061	0.00623	0.00455	0.00488	0.00408	0.00568	0.00486
Beryllium-T	mg/L	-	-	0.000009	0.000008	< 0.000007	0.000007	0.000009	0.000009	0.000008	0.000009	0.000008	0.000008	0.00001	0.000011	< 0.000007	0.000007	0.000007	0.000008
Bismuth-T	mg/L	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000017	0.000011	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000021	< 0.000007	0.000013
Boron-T	mg/L	-	-	0.003	0.003	0.003	0.003	0.003	0.003	0.005	0.004	0.003	< 0.002	0.003	0.003	0.008	0.003	< 0.002	0.003
Cadmium-T	mg/L	< 0.0001	< 0.000003	0.000013	0.000009	0.000007	0.000007	0.000008	0.000011	0.000018	0.000023	0.000008	0.000012	0.000006	0.000006	0.000007	0.000007	0.000006	0.000003
Calcium-T	mg/L	6.8	10.4	6.59	9.31	8.63	8.45	9.1	8.22	8.7	8.91	8.92	9.51	7.45	5	6.68	6.05	8.62	7.68
Chromium-T	mg/L	-	-	0.00046	0.00048	0.0003	0.0004	0.00046	0.00063	0.00055	0.00059	0.00097	0.00053	0.00057	0.00046	0.00048	0.00015	0.00047	0.00054
Cobalt-T	mg/L	-	-	0.000034	0.000055	0.000039	0.000054	0.000059	0.000067	0.000035	0.00005	0.000079	0.000072	0.000083	0.000064	0.00004	0.000025	0.000041	0.000072
Copper-T	mg/L	0.0016	0.00142	0.00129	0.00152	0.0021	0.00145	0.00128	0.00167	0.00113	0.00158	0.008	0.0081	0.0076	0.0021	0.002	0.0014	0.0088	0.0033
Iron-T	mg/L	0.13	0.148	0.114	0.119	0.083	0.13	0.278	0.274	0.221	0.223	0.205	0.214	0.181	0.108	0.113	0.057	0.119	0.238
Lead-T	mg/L	< 0.0005	0.00004	0.0001	0.00007	0.00005	0.00008	0.00005	0.00005	0.0001	0.00006	0.00008	0.0001	0.00004	0.00021	0.00006	0.00006	0.00016	0.00016
Lithium-T	mg/L	-	-	0.0002	0.0003	0.0003	0.0003	0.0004	0.0003	0.0004	0.0012	0.0003	0.0002	0.003	0.0003	0.0003	0.0002	0.0003	0.0003
Magnesium-T	mg/L	1.6	2.45	1.56	2.16	2.02	1.93	2.1	1.95	1.91	1.96	2.02	2.14	1.77	1.15	1.53	1.5	1.79	1.78
Manganese-T	mg/L	-	-	0.00897	0.01935	0.0145	0.0565	0.0284	0.0223	0.0223	0.0186	0.0166	0.0214	0.0154	0.0077	0.0225	0.0061	0.015	0.0472
Mercury-T	mg/L	-	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.0005	0.00024	0.00014	0.00015	0.00024	0.00021	< 0.00001	0.00015	0.00018	0.00006	0.00008	0.00015	0.00026	0.0002	0.00076	0.00007	0.00028	0.00037
Nickel-T	mg/L	< 0.001	0.0003	0.0006	0.0005	0.0005	0.0005	0.0007	0.0006	0.0005	0.0007	0.0007	0.0006	0.0004	0.0003	0.0004	0.0004	0.0005	0.0005

STATION		M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
	Units	15-Jun-16	10-Oct-17	11-Jun-18	24-Jul-18	28-Aug-18	26-Sep-18	1-Nov-18	13-Nov-18	11-Dec-18	24-Jan-19	11-Mar-19	23-Apr-19	28-May-19	18-Jun-19	24-Jul-19	14-Aug-19	30-Sep-19	21-Oct-19
Phosphorus-T	mg/L	-	-	-	-	-	< 0.03	< 0.03	0.003	< 0.03	0.03	0.007	0.008	0.01	0.003	0.008	0.004	0.008	0.006
Potassium-T	mg/L	-	-	0.291	0.343	0.314	0.317	0.341	0.287	0.302	0.296	0.28	0.353	0.314	0.215	0.226	0.204	0.307	0.285
Selenium-T	mg/L	0.001	0.00009	0.00008	0.00008	0.00009	0.00008	0.00011	0.00011	0.00011	0.0001	0.0001	0.00009	0.0001	0.00006	0.00008	0.00007	0.0001	0.00019
Silicon-T	mg/L	-	-	2.13	1.7	1.71	2.06	2.37	2.49	2.49	2.87	3.04	3.17	2.24	1.92	1.43	1.34	1.62	1.77
Silver-T	mg/L	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	-	-	0.85	1.36	1.1	0.98	1.06	0.92	1.1	1.05	1.16	1.22	1.5	0.6	0.93	0.88	1.06	0.92
Strontium-T	mg/L	-	-	0.0152	0.0281	0.0303	0.0226	0.0195	0.02	0.0197	0.018	0.0194	0.023	0.0302	0.0126	0.0208	0.0161	0.023	0.0191
Thallium-T	mg/L	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Tin-T	mg/L	-	-	0.00015	0.00008	0.00006	0.00012	0.00008	0.00001	0.0001	0.00016	0.00008	< 0.00006	< 0.00006	0.00013	0.00007	< 0.00006	< 0.00006	< 0.00006
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	0.00182	0.0018	0.00103	0.00148	0.00294	0.00303	0.00288	0.00222	0.00202	0.00325	0.00451	0.00221	0.00194	0.00068	0.00121	0.00181
Uranium-T	mg/L	-	-	0.000015	0.000018	0.000019	0.000015	0.000014	0.000012	0.000022	0.000015	0.000015	0.000018	0.000019	0.000013	0.00011	0.000013	0.000006	0.00002
Vanadium-T	mg/L	-	-	0.00028	0.00129	0.00034	0.0003	0.00042	0.00043	0.00033	0.00031	0.00024	0.00037	0.00041	0.00032	0.0003	0.00025	0.0003	0.00043
Zinc-T	mg/L	< 0.005	< 0.002	< 0.002	0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	0.002	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	0.01	0.004
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals																			
Aluminum-D	mg/L	0.08	0.027	0.072	0.039	0.044	0.064	0.073	0.104	0.123	0.154	0.101	0.092	0.109	0.098	0.057	0.053	0.046	0.036
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0009	0.0012	-	-	< 0.0009
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0004	0.0004	0.0004	-	0.0005
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00392	0.00456	0.00424	-	0.00419
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000009	0.000009	0.000008	-	< 0.000007
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.000007	0.000007	-	0.000007
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	0.007	0.003	-	0.003
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000006	0.000007	0.000004	-	0.000009
Calcium-D	mg/L	-	9.21	-	9.37	8.4	-	-	7.88	-	-	-	-	-	4.93	6.72	5.54	-	7.45
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00039	0.00033	< 0.00008	-	0.00046
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000042	0.000029	0.000057	-	0.000047
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0019	0.0015	0.0016	-	0.0012
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	0.067	0.07	-	0.137
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00001	0.00002	0.00004	-	0.00005
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0003	0.0003	0.0002	-	0.0003
Magnesium-D	mg/L	-	2.12	-	2.13	2.01	-	-	1.83	-	-	-	-	-	1.11	1.6	1.42	-	1.7
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0032	0.00915	0.0152	-	0.00666
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00021	0.00044	0.00004	-	0.00028
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0005	0.0004	0.0004	-	0.0005
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003	< 0.003	0.006	-	< 0.003
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.212	0.254	0.186	-	0.272
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00007	0.00008	0.00008	-	0.00013
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	1.77	1.53	1.97	-	1.72
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56	1.09	0.81	-	0.88
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0124	0.0209	0.0148	-	0.0186
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.000005	< 0.000005	-	< 0.000005
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00006	< 0.00006	< 0.00006	-	< 0.00006
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00119	0.00081	0.00109	-	0.0008
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000011	0.000089	0.000013	-	0.00002
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00026	0.00023	0.00025	-	0.00027
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.002	< 0.002	< 0.002	-	0.003
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
	Units	19-Nov-19	16-Dec-19	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	3-Nov-20	24-Mar-21	29-Apr-21	17-May-21	15-Jun-21	20-Jul-21	17-Aug-21	15-Sep-21	13-Oct-21	17-Nov-21	16-Dec-21	2-Feb-22
Field Parameters																			
Temperature	°C	2.7	1.5	1.8	1	2.9	17	2.8	2.1	9.1	13	19	23	21	16	16	3.6	1	0.6
pH	s.u.	7.8	7.2	7.8	7.5	6.7	7.4	7.5	7.1	7.3	8	7.4	7.9	7.7	7.7	7.6	7.8	8	8.4
Conductivity	µS/cm	60	56.2	70	70.1	64.4	81.7	63.3	61.1	60.1	58	76.1	64.7	86.5	66.4	73.6	67.5	66.6	70.6
Dissolved Oxygen	mg/L	9.47	9.67	9.65	11.4	10.4	7.09	9.73	12.2	11.9	10.5	8.25	6.65	8.35	9.31	8.72	11.5	13.5	13.2
Dissolved Oxygen %	%	-	69	-	-	-	-	72.1	91.5	102	103	89.4	78	97.3	94.7	88.9	87	94.7	91.6
Oxidation-Reduction Potential	mV	-	128	-	137	183	-	-	171	148	125	96.1	190	86.5	175	106	163	138	53.1
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	1.31	1.06	1.33	0.69	1.75	2.03	1.96	1.39	1.22	-	-	-	-	-	-	1.8	-	-
Hardness (as CaCO3)	mg/L	25.8	24.9	26.1	29.6	32.8	39.1	29.2	34.4	31.4	29.4	37	32.9	36.8	36.2	31.8	33.5	33.7	36.8
Alkalinity, Total (as CaCO3)	mg/L	22	24	26	25	25	35	24	25	26	28	43	31	36	30	31	35	33	27
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-	-	-	10
Total Dissolved Solids	mg/L	54	34	54	63	49	49	60	66	63	44	56	50	58	52	44	44	64	62
Total Suspended Solids	mg/L	3	1	1	< 1	1	3	2	1	2	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	11	10.7	10.3	11.2	12.3	12.6	14.9	-	15.5	13.6
Dissolved Organic Carbon	mg/L	7	8	10	10	9	-	9	12	11	10.3	10.1	10.9	11.9	11.6	11.8	-	14	12.9
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.08	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Unionized (as N)	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000272	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002
Chloride	mg/L	1	1	-	< 1	< 1	-	< 1	0.4	1	0.29	1.1	0.32	0.42	0.43	0.26	-	0.21	0.25
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.005	< 0.2	< 0.2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	0.03	0.025	0.025	0.025	0.025	0.025	0.025	-	0.025	0.025
Nitrate (as N)	mg/L	-	-	-	-	-	-	0.08	0.21	0.2	0.12	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.09
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	0.08	0.21	0.2	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	< 0.03	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	< 2	< 2	2	< 2	< 2	5	7	< 2	< 2	2.41	3.03	2.41	2.41	2.65	2.31	2.19	2.13	2.23
Total Kjeldahl Nitrogen	mg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.078	0.064	0.068	0.074	0.17	0.075	0.138	0.14	0.112	-	0.154	0.089	0.131	0.096	0.078	-	0.073	0.068
Antimony-T	mg/L	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	0.0004	0.0005	0.0004	0.0005	0.0005	0.0018	0.0007	0.0005	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001
Barium-T	mg/L	0.00439	0.00423	0.00402	0.00469	0.0052	0.0109	0.00483	0.00613	0.00524	0.004	0.008	0.005	0.008	0.007	0.005	0.005	0.005	< 0.05
Beryllium-T	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	0.000007	0.000011	0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005
Bismuth-T	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000039	< 0.000007	0.000022	0.000021	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001
Boron-T	mg/L	0.004	< 0.002	0.003	0.007	0.003	0.005	0.004	0.004	0.003	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	0.000007	0.000003	0.000004	0.000007	0.000014	0.00001	0.000007	0.000011	0.000009	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016
Calcium-T	mg/L	7.51	7.54	7.46	8.69	9.56	11.6	8.58	10	9.16	-	-	-	-	-	-	-	-	11.3
Chromium-T	mg/L	0.0005	0.00045	0.00034	0.00042	0.00099	0.00049	0.0009	0.00068	0.00053	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0005
Cobalt-T	mg/L	0.000041	0.000055	0.000037	0.000052	0.000084	0.000168	0.000108	0.00007	0.000067	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0009
Copper-T	mg/L	0.0015	0.0013	0.0012	0.0012	0.0017	0.0039	0.0013	0.002	0.0014	0.001	0.002	0.002	0.002	0.001	0.002	0.001	0.001	0.0023
Iron-T	mg/L	0.226	0.17	0.16	0.182	0.251	0.16	0.28	0.213	0.199	0.155	0.146	0.117	0.125	0.165	0.139	0.305	0.237	0.2
Lead-T	mg/L	< 0.00001	0.00006	0.00016	0.00004	< 0.00001	0.00014	0.00009	0.00018	0.0003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0001
Lithium-T	mg/L	0.0003	0.0002	0.0003	0.001	0.0003	0.0008	0.0006	0.0003	0.0003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001
Magnesium-T	mg/L	1.71	1.48	1.82	1.92	2.16	2.46	1.9	2.26	2.08	-	-	-	-	-	-	-	-	2.5
Manganese-T	mg/L	0.0227	0.0116	0.0113	0.0115	0.0168	0.0562	0.0322	0.0164	0.0211	0.01	0.023	0.018	0.022	0.031	0.013	0.07	0.014	0.009
Mercury-T	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	-	< 0.0001	-	-	-	-	-	< 0.0001	-	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	0.00012	0.00013	0.00005	0.00009	0.00018	< 0.00004	0.00021	0.00039	0.00016	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001
Nickel-T	mg/L	0.0004	0.0005	0.0003	0.0005	0.0005	0.0005	0.0005	0.0006	0.0006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003

STATION		M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
	Units	19-Nov-19	16-Dec-19	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	3-Nov-20	24-Mar-21	29-Apr-21	17-May-21	15-Jun-21	20-Jul-21	17-Aug-21	15-Sep-21	13-Oct-21	17-Nov-21	16-Dec-21	2-Feb-22
Phosphorus-T	mg/L	0.012	0.009	0.003	0.011	0.008	0.008	< 0.003	0.009	0.003	0.06	0.014	0.008	< 0.006	0.009	0.025	-	0.02	0.009
Potassium-T	mg/L	0.334	0.265	0.276	0.287	0.337	0.387	0.396	0.335	0.301	-	-	-	-	-	-	-	-	-
Selenium-T	mg/L	0.00009	0.00008	0.00006	0.00008	0.00007	0.00007	0.0001	0.00009	0.00006	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.01	< 0.0005
Silicon-T	mg/L	1.93	1.61	2.19	2.83	3.64	2.25	2.31	3.38	3.11	2.8	1.64	1.91	2.05	2.51	1.63	1.82	1.85	2
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	0.00015	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005
Sodium-T	mg/L	0.97	0.94	0.95	1	1.1	2	1.07	1.18	1.16	-	-	-	-	-	-	-	-	1.2
Strontium-T	mg/L	0.0158	0.0191	0.0159	0.0187	0.0207	0.045	0.0181	0.0231	0.0204	0.019	0.031	0.026	0.031	0.037	0.022	0.022	0.024	0.023
Thallium-T	mg/L	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001
Tin-T	mg/L	0.00007	< 0.00006	< 0.00006	0.00017	< 0.00006	0.00007	< 0.00006	< 0.00006	0.00008	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.00174	0.00127	0.00134	0.0013	0.00378	0.00231	0.00336	0.00284	0.00217	< 0.002	0.007	< 0.002	< 0.002	0.003	< 0.01	< 0.01	< 0.01	0.001
Uranium-T	mg/L	0.00001	0.000017	0.000013	0.000014	0.000017	0.000028	0.000016	0.000018	0.000016	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001
Vanadium-T	mg/L	0.00036	0.00026	0.00024	0.00025	0.00038	0.00047	0.00042	0.00032	0.0003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001
Zinc-T	mg/L	< 0.002	< 0.002	< 0.002	0.005	0.004	< 0.002	< 0.002	0.004	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.02	< 0.004
Zirconium-T	mg/L	-	-	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01
Dissolved Metals																			
Aluminum-D	mg/L	0.045	0.046	0.07	0.061	0.082	0.029	0.069	0.088	0.06	0.066	0.039	0.037	0.029	0.026	0.027	0.026	0.024	0.039
Antimony-D	mg/L	0.0018	< 0.0009	-	< 0.0009	< 0.0009	-	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Arsenic-D	mg/L	0.0003	0.0004	-	0.0005	0.0004	-	0.0008	0.0005	0.0003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	0.002	< 0.001
Barium-D	mg/L	0.0039	0.00399	-	0.00433	0.00437	-	0.00458	0.00545	0.00397	0.004	0.007	0.005	0.013	0.006	0.004	-	0.005	< 0.05
Beryllium-D	mg/L	< 0.000007	< 0.000007	-	< 0.000007	0.000008	-	0.000008	0.00001	0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Bismuth-D	mg/L	< 0.000007	< 0.000007	-	< 0.000007	< 0.000007	-	< 0.000007	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.001
Boron-D	mg/L	0.003	< 0.002	-	0.005	0.003	-	0.003	0.003	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01
Cadmium-D	mg/L	0.000011	< 0.000003	-	< 0.000003	0.000007	-	0.000008	0.000006	0.000004	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.000016
Calcium-D	mg/L	7.15	7.37	-	8.71	9.16	-	8.45	9.4	7.71	-	-	-	-	-	-	-	-	10
Chromium-D	mg/L	0.00048	0.00038	-	0.00041	0.00066	-	0.00036	0.00054	0.00051	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.003	< 0.0005
Cobalt-D	mg/L	0.000051	0.000032	-	< 0.000004	0.000052	-	0.000108	0.000044	0.000037	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0009
Copper-D	mg/L	0.0015	0.0011	-	0.0011	0.0013	-	0.0014	0.0015	0.0011	0.001	0.002	0.001	0.004	< 0.001	0.001	-	< 0.001	0.001
Iron-D	mg/L	0.141	0.12	-	0.146	0.168	-	0.149	0.144	0.121	0.143	0.084	0.064	0.08	0.069	0.038	-	0.13	0.2
Lead-D	mg/L	0.00002	< 0.00001	-	0.00003	< 0.00001	-	0.00004	0.00005	< 0.00009	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0001
Lithium-D	mg/L	0.0003	0.0002	-	0.0008	0.0003	-	0.0006	0.0003	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.001
Magnesium-D	mg/L	1.61	1.47	-	1.9	2.08	-	1.88	2.15	1.79	-	-	-	-	-	-	-	-	2.3
Manganese-D	mg/L	0.00415	0.00223	-	0.00661	0.0108	-	0.00907	0.0102	0.0111	0.003	0.008	0.008	0.006	0.006	0.005	-	< 0.002	< 0.005
Mercury-D	mg/L	-	-	-	-	-	-	-	< 0.00001	-	< 0.0001	-	-	-	-	-	< 0.0001	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	0.00019	0.00011	-	0.00008	0.00015	-	0.00017	0.00029	0.00015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.001
Nickel-D	mg/L	0.0005	0.0004	-	0.0004	0.0005	-	0.0004	0.0005	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	0.001	< 0.003
Phosphorus-D	mg/L	0.007	< 0.003	-	0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	0.378	0.252	-	0.287	0.317	-	0.369	0.303	0.238	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	0.00008	0.00007	-	0.00008	0.00011	-	0.00009	0.00011	< 0.00004	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	0.002	-	0.001	< 0.0005
Silicon-D	mg/L	1.82	1.56	-	2.73	3.39	-	2.21	3.02	2.58	2.41	1.95	1.81	1.77	2.06	0.98	-	1.83	2.17
Silver-D	mg/L	< 0.00005	< 0.00005	-	0.00014	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.00005
Sodium-D	mg/L	1.07	0.84	-	0.85	0.97	-	1.07	1.11	0.99	-	-	-	-	-	-	-	-	1.4
Strontium-D	mg/L	0.0157	0.0209	-	0.0185	0.0204	-	0.0179	0.0218	0.0174	0.019	0.035	0.025	0.027	0.03	0.021	-	0.02	0.025
Thallium-D	mg/L	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	< 0.0003	< 0.0001
Tin-D	mg/L	0.00006	0.00027	-	0.00009	< 0.00006	-	0.00015	< 0.00006	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	0.0007	0.00076	-	0.0009	0.00211	-	0.00082	0.00122	0.00102	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	0.006	< 0.001
Uranium-D	mg/L	0.000013	0.000018	-	0.000015	0.000021	-	0.000015	0.000013	0.000012	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.001
Vanadium-D	mg/L	0.00027	0.00021	-	0.0002	0.00027	-	0.00024	0.00021	0.00019	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.001
Zinc-D	mg/L	0.003	< 0.002	-	0.005	0.006	-	0.004	0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.005	< 0.004
Zirconium-D	mg/L	-	-	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.001

STATION		M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
	Units	18-Feb-22	18-Mar-22	21-Apr-22	17-May-22	15-Jun-22	20-Jul-22	16-Aug-22	21-Sep-22	19-Oct-22	22-Nov-22	14-Dec-22	25-Jan-23	15-Feb-23	23-Mar-23	24-Apr-23	10-May-23	14-Jun-23	12-Jul-23
Field Parameters																			
Temperature	°C	0.1	0	1.7	12	20	23	21.7	16.1	9.2	1	1.4	0.9	1.4	1.2	2.5	8.2	18.2	22.2
pH	s.u.	6.9	8.5	7.6	7.3	7.9	7.6	6.81	7.3	7.5	8.37	7.78	7.02	6.74	8.14	6.81	7.29	7.13	7.36
Conductivity	µS/cm	108	100	70.8	44.2	45.6	49.3	57.6	57.2	58.8	24.4	62.4	53.8	57.3	61.2	44.8	44	49.3	47.6
Dissolved Oxygen	mg/L	11.3	16.8	13.8	10.4	8.48	8.03	8.17	8.58	10.3	13.44	12.88	12.53	12.74	12.63	12.26	12.37	8.81	5.05
Dissolved Oxygen %	%	76.8	114	98.7	96.6	97.2	93.9	93	87.2	89.8	95	92	87.9	90.7	89.3	89.8	104	93.5	58.07
Oxidation-Reduction Potential	mV	130	171	157	156	92.3	177	145.4	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	7.46	7.37	7.11	7.11	-	-	7.34	7.1	7.17	6.9	6.79
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4.2	2.6	4	4.3
Hardness (as CaCO3)	mg/L	36.3	49.3	34.9	24.4	26.2	26	27	29.7	28	29.5	29.9	-	-	30.4	28.5	21.2	23.8	22.6
Alkalinity, Total (as CaCO3)	mg/L	35	40	30	22	23	27	23	27	27	28	26	-	-	26	25	17	25	22
Acidity (as CaCO3)	mg/L	10	15	5	9	-	-	1	-	-	-	-	-	-	2.5	5.4	2.5	2.5	5.6
Total Dissolved Solids	mg/L	5	84	58	64	36	54	50	52	32	64	58	-	-	58	46	36	54	50
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	12.2	16.3	12.1	11.9	11.8	13.3	14	15.6	15.6	15.6	15.8	-	-	14.2	11.2	12.2	10.9	10.2
Dissolved Organic Carbon	mg/L	12.2	14	11.9	10.8	11.8	13.4	13.2	15	15	15.6	15.1	-	-	14	11.3	11.7	10.7	9.8
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	162.3	252	153.1	159.3	287.2	356.9	219.2	266.3	138.9	232.9	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	0.05	0.22	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02	0.04	< 0.02	< 0.02	-	-	< 0.02	0.03	< 0.02	0.08	< 0.02
Ammonia, Unionized (as N)	mg/L	0.00026	0.00101	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.31	0.56	0.29	0.22	0.22	0.15	0.28	0.17	0.2	0.23	0.3	-	-	0.43	0.27	0.24	0.48	0.23
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	0.025	0.025	0.025	0.025	0.025	0.025	0.025	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	0.11	0.53	0.29	0.2	0.08	< 0.05	< 0.05	< 0.05	0.07	0.09	0.11	-	-	0.17	0.23	0.21	0.08	< 0.05
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	2.34	3.64	2.46	1.92	1.84	1.81	1.81	1.87	1.51	1.47	1.73	-	-	2.07	1.83	1.66	1.84	1.63
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	0.017	< 0.006	< 0.006	0.022	-	-	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Total Metals																			
Aluminum-T	mg/L	0.07	0.083	0.127	0.2	0.137	0.172	0.098	0.112	0.105	0.168	0.225	-	-	0.13	0.204	0.195	0.112	0.116
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	0.004	< 0.001	< 0.001	< 0.001	-	-	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	< 0.000032	0.000022	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000032	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	-	0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016
Calcium-T	mg/L	10.7	14.9	10.5	7	6.6	7.3	7.7	8.6	7.9	8.5	8.5	-	-	8.7	8.1	6	6.9	6.4
Chromium-T	mg/L	0.0005	0.0006	0.0011	0.0005	0.0006	0.0008	< 0.001	0.0006	0.0006	0.001	0.0017	-	-	0.0009	0.0007	0.0009	0.0005	0.0007
Cobalt-T	mg/L	< 0.0009	< 0.0009	< 0.00001	0.00009	0.00005	0.00018	0.00005	0.00008	0.00009	0.00015	0.00021	-	-	0.00007	0.0001	0.00009	0.00005	0.00008
Copper-T	mg/L	0.0018	0.0026	0.003	0.0023	0.0017	0.009	0.002	0.0061	0.0021	0.0048	0.0057	-	-	0.002	0.0015	0.0028	0.0016	0.0028
Iron-T	mg/L	0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.3	0.4	0.5	-	-	0.3	0.4	0.3	0.1	0.1
Lead-T	mg/L	0.0001	0.0003	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0002	0.0001	0.0001	0.0002	0.0003	-	-	0.0001	0.0001	0.0001	< 0.0001	< 0.0001
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.007	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-T	mg/L	2.3	3.2	2.63	1.71	1.5	1.8	1.9	2	2	2	2.1	-	-	2.1	2	1.5	1.6	1.6
Manganese-T	mg/L	0.01	0.011	0.02	0.022	0.01	0.017	0.02	0.035	0.031	0.024	0.056	-	-	0.021	0.03	0.023	0.016	0.022
Mercury-T	mg/L	-	-	-	-	< 0.000005	-	-	< 0.0000025	0.0000072	0.000012	0.000015	-	-	0.0000038	0.0000086	0.0000045	0.0000029	0.0000054
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	0.00000013	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	0.002	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.003	< 0.003	< 0.003	< 0.003	-	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003

STATION		M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3	M3
	Units	18-Feb-22	18-Mar-22	21-Apr-22	17-May-22	15-Jun-22	20-Jul-22	16-Aug-22	21-Sep-22	19-Oct-22	22-Nov-22	14-Dec-22	25-Jan-23	15-Feb-23	23-Mar-23	24-Apr-23	10-May-23	14-Jun-23	12-Jul-23
Phosphorus-T	mg/L	< 0.006	0.023	0.013	0.012	0.007	0.039	0.014	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	< 0.6	-	-	< 0.6	-	< 0.6	-	< 0.6	< 0.6	< 0.6	-	-	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Selenium-T	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	2.4	3.2	3.21	2.7	1.9	1.9	2.1	1.9	2.5	2.9	3.1	-	-	3.2	3.6	2.3	2.1	1.9
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	1.3	1.8	1.12	0.82	0.8	0.9	0.7	3.7	1.1	1.1	1.2	-	-	1.6	1	0.9	0.9	0.9
Strontium-T	mg/L	0.02	0.032	0.023	0.015	0.016	0.019	0.021	0.027	0.02	0.019	0.021	-	-	0.024	0.018	0.014	0.02	0.017
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.001	0.002	0.003	0.004	0.002	0.003	0.002	0.002	0.002	0.003	0.005	-	-	0.002	0.006	0.005	0.002	0.002
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-T	mg/L	< 0.008	0.006	< 0.004	< 0.004	< 0.004	< 0.004	< 0.008	< 0.004	< 0.004	< 0.004	0.004	-	-	0.005	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals																			
Aluminum-D	mg/L	0.04	0.044	0.059	0.107	0.084	0.077	0.067	0.062	0.071	0.096	0.099	-	-	0.093	0.107	0.112	0.071	0.07
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	< 0.000016	0.000017	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000032	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016
Calcium-D	mg/L	10.6	13.9	10.5	7.1	6.1	6.6	7.8	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.001	0.0006	0.0009	< 0.0005	0.0008	-	-	0.0007	0.0006	< 0.0005	< 0.0005	0.0007
Cobalt-D	mg/L	< 0.0009	< 0.0009	< 0.00001	0.00005	0.00002	0.00005	0.00004	0.00003	0.00003	0.00002	0.00004	-	-	0.00004	0.00006	< 0.00006	< 0.00006	0.00008
Copper-D	mg/L	0.001	0.0015	0.0018	0.002	0.0011	0.0046	< 0.0016	0.004	0.0019	0.0017	0.0013	-	-	0.0013	0.0011	0.0008	0.0011	0.0015
Iron-D	mg/L	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	0.2	< 0.1	< 0.1
Lead-D	mg/L	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	2.4	3.2	2.54	1.9	1.4	1.6	1.8	-	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	< 0.005	0.008	0.014	< 0.005	< 0.005	< 0.005	0.009	0.017	< 0.005	< 0.005	0.011	-	-	0.015	0.028	0.019	0.005	0.008
Mercury-D	mg/L	-	-	-	-	< 0.000005	-	-	0.0000075	0.0000042	-	0.0000056	-	-	0.0000036	0.0000044	0.00000125	0.0000028	0.00000125
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	0.002	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	-	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	< 0.6	-	-	< 0.6	-	< 0.6	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	2.25	3.3	3.12	2.48	1.89	1.83	2.04	1.93	2.51	2.47	2.75	-	-	3.11	3.32	2.89	2.24	1.79
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	1.4	1.7	1.3	0.9	0.9	1	0.7	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.03	0.036	0.023	0.015	0.017	0.019	0.021	0.026	0.021	0.019	0.02	-	-	0.019	0.018	0.014	0.021	0.021
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-D	mg/L	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	0.001	0.001	-	-	< 0.001	0.002	0.001	< 0.001	< 0.001
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	< 0.004	0.006	< 0.004	< 0.004	< 0.004	< 0.004	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	-	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-D	mg/L	< 0.01	0.01	0.00015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

STATION		M3	M3	M3	M3	M3	M3	M3
	Units	18-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	14-Dec-23	15-Jan-24	21-Feb-24
Field Parameters								
Temperature	°C	18.7	-	-	-	1.9	1.3	1.4
pH	s.u.	7.69	-	-	-	7.93	6.89	7.3
Conductivity	µS/cm	64.9	-	-	-	56.7	54.5	61
Dissolved Oxygen	mg/L	8.45	-	-	-	12.81	12.47	11.94
Dissolved Oxygen %	%	90.6	-	-	-	92.7	88.5	84.8
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-
Lab Parameters								
pH	s.u.	6.81	6.43	6.33	6.18	6.76	6.36	-
Turbidity	NTU	2.8	2.8	3.4	2.9	3.5	1.6	-
Hardness (as CaCO3)	mg/L	33.5	27.1	30.6	29.3	28	28.8	-
Alkalinity, Total (as CaCO3)	mg/L	34	28	26	24	30	26	-
Acidity (as CaCO3)	mg/L	2.5	5.6	7.2	6.2	5.7	2.5	-
Total Dissolved Solids	mg/L	64	36	36	48	78	22	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	10	< 10	-
Total Organic Carbon	mg/L	10.2	8.6	14	14.6	18.2	12.4	-
Dissolved Organic Carbon	mg/L	9.7	7.6	13.5	14.1	17	13.4	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-
Nutrients and Anions								
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Ammonia, Unionized (as N)	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	0.99	0.24	0.31	0.23	0.28	0.27	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	0.07	0.07	0.09	0.12	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	2.56	1.67	1.8	1.75	1.78	1.86	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-
Total Phosphorus	mg/L	< 0.02	< 0.02	0.02	0.02	< 0.02	< 0.02	-
Total Metals								
Aluminum-T	mg/L	0.072	0.06	0.15	0.16	0.232	0.165	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	0.000018	< 0.000016	-
Calcium-T	mg/L	9.8	7.9	8.8	8.6	8.1	8.4	-
Chromium-T	mg/L	< 0.0005	< 0.0005	0.0008	0.0013	0.001	0.0008	-
Cobalt-T	mg/L	0.00007	0.00005	0.00008	0.00008	0.00044	0.00007	-
Copper-T	mg/L	0.0019	0.0016	0.0018	0.0016	0.0111	0.0022	-
Iron-T	mg/L	0.1	0.1	0.3	0.3	0.5	0.3	-
Lead-T	mg/L	< 0.0001	< 0.0001	0.0002	0.0001	0.0003	0.0001	-
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-T	mg/L	2.2	1.8	2.1	1.9	1.9	1.9	-
Manganese-T	mg/L	0.02	0.038	0.05	0.027	0.086	0.024	-
Mercury-T	mg/L	< 0.0000025	< 0.0000025	< 0.0000025	< 0.0000025	0.000025	0.0000053	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-

STATION		M3	M3	M3	M3	M3	M3	M3
	Units	18-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	14-Dec-23	15-Jan-24	21-Feb-24
Phosphorus-T	mg/L	-	-	-	-	-	-	-
Potassium-T	mg/L	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	-
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	2	1.9	2.5	2.7	3.1	1.9	-
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	1.4	1.1	1	1.7	1.1	1.3	-
Strontium-T	mg/L	0.035	0.02	0.019	0.018	0.019	0.018	-
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-
Titanium-T	mg/L	0.002	0.001	0.003	0.003	0.005	0.002	-
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Dissolved Metals								
Aluminum-D	mg/L	0.031	0.033	0.072	0.106	0.109	0.127	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	0.0006	-
Cobalt-D	mg/L	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	-
Copper-D	mg/L	0.0012	0.0012	0.0012	0.0012	0.0015	0.0013	-
Iron-D	mg/L	< 0.1	< 0.1	0.2	0.2	0.2	0.2	-
Lead-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	-	-	-	-	-
Manganese-D	mg/L	< 0.005	0.017	0.028	0.014	0.01	0.011	-
Mercury-D	mg/L	0.00000125	0.00000125	0.00000125	0.00000125	0.000006	0.0000051	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	1.93	1.96	2.56	2.61	2.44	1.87	-
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-	-	-
Strontium-D	mg/L	0.039	0.019	0.017	0.019	0.019	0.018	-
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-
Titanium-D	mg/L	< 0.001	< 0.001	0.001	0.001	0.001	0.002	-
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-

STATION		STATION		MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1
	Units		Units	29-Apr-21	17-May-21	16-Jun-21	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	22-Apr-22	19-May-22	15-Jun-22	19-Jul-22	16-Aug-22	22-Sep-22
Field Parameters		**Field Parameters**															
Temperature	°C	**Temperature**	°C	9.5	14	19	23	24	15	16	2.9	1.3	12	20	22	22.4	14.7
pH	s.u.	**pH**	s.u.	7.3	7.9	7.7	7.9	7.5	7.7	7.6	7.5	7.3	7.3	8	7.6	6.7	7.35
Conductivity	µS/cm	**Conductivity**	µS/cm	72.6	77	81	74.9	68.8	85	93.4	84.7	91.4	60	57.6	65.9	61.4	69
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	11.8	10.4	8.65	8.08	8.21	8.85	8.8	12.6	11.4	10.3	8.41	8.14	7.84	9.39
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	103	102	-	93.7	99.8	88	89.6	93.5	86.6	95.4	92.7	93.4	89.9	92.5
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	148	118	-	190	5.9	170	124	198	213	218	68.1	170	150	228.5
Lab Parameters		**Lab Parameters**															
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	7.44
Turbidity	NTU	**Turbidity**	NTU	1.36	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	34.2	36.8	38.3	33.8	37	46.3	41.7	43.2	46.5	29.5	29.3	34	27	32.7
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	30	33	47	32	36	34	34	40	33	24	23	26	25	28
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 2	-	-	-	-	-	-	-	5	8	-	-	0.9	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	83	48	64	56	68	70	78	76	66	54	44	60	56	56
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	2	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	11	10.3	10.8	11	11.7	13.5	15.2	10.8	12.6	12.1	13.2	13.4	13.6	21.6
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	11	9.8	10.4	10.8	11.5	12.8	14.3	10.4	12.5	11.6	12	13.2	12.2	18.8
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**															
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Unionized (as N)	mg/L	**Ammonia, Unionized (as N)**	mg/L	< 0.001	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000225	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-
Chloride	mg/L	**Chloride**	mg/L	1	1.11	1.22	0.56	0.46	0.93	0.8	0.86	1.43	0.95	0.6	1.08	0.37	0.86
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	**Fluoride**	mg/L	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.16	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.28	0.13	0.06	< 0.05	< 0.05	< 0.05
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	**Sulphate**	mg/L	< 2	3.36	3.2	2.96	2.45	3.89	4.46	3.64	5.04	2.64	2.32	2.49	1.82	2.74
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.006
Total Metals		**Total Metals**															
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.099	-	0.102	0.085	0.089	0.251	0.098	-	0.235	0.163	0.146	0.137	0.097	0.208
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002	0.004
Barium-T	mg/L	**Barium-T**	mg/L	0.00763	0.007	0.008	0.007	0.006	0.012	0.011	0.011	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05
Beryllium-T	mg/L	**Beryllium-T**	mg/L	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001
Boron-T	mg/L	**Boron-T**	mg/L	0.003	0.013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	0.000009	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000032	< 0.000032	< 0.000016
Calcium-T	mg/L	**Calcium-T**	mg/L	10	-	-	-	-	-	-	-	13.8	8.69	7.8	9.7	7.7	9.3
Chromium-T	mg/L	**Chromium-T**	mg/L	0.00058	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0008	0.0006	0.0006	< 0.001	< 0.001	0.0009
Cobalt-T	mg/L	**Cobalt-T**	mg/L	0.000055	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.00001	0.00009	0.00007	0.00009	0.00005	0.00012
Copper-T	mg/L	**Copper-T**	mg/L	0.0011	0.002	0.002	0.002	< 0.001	0.002	0.002	0.001	0.0027	0.0025	0.0024	0.0019	0.0024	0.0034
Iron-T	mg/L	**Iron-T**	mg/L	0.174	0.156	0.147	0.142	0.119	0.249	0.173	0.38	0.3	0.2	0.2	0.2	0.2	0.4
Lead-T	mg/L	**Lead-T**	mg/L	0.00026	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0002	0.0001	< 0.0001	< 0.0002	< 0.0002	0.0002
Lithium-T	mg/L	**Lithium-T**	mg/L	0.0003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.002	0.007	< 0.001
Magnesium-T	mg/L	**Magnesium-T**	mg/L	2.25	-	-	-	-	-	-	-	3.2	1.9	1.8	2.3	1.9	2.3
Manganese-T	mg/L	**Manganese-T**	mg/L	0.018	0.015	0.027	0.017	0.015	0.031	0.013	0.053	0.025	0.018	0.013	0.019	0.02	0.037
Mercury-T	mg/L	**Mercury-T**	mg/L	-	< 0.0001	-	-	-	-	-	-	-	-	< 0.000005	-	-	< 0.0000025
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	0.00000012	0.000000075	0.0000001	0.00000012	0.00000016	0.00000017	0.00000009	0.00000011	0.00000014	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	0.00017	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001
Nickel-T	mg/L	**Nickel-T**	mg/L	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.006	< 0.006	< 0.003

STATION		STATION		MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1
	Units		Units	29-Apr-21	17-May-21	16-Jun-21	20-Jul-21	19-Aug-21	15-Sep-21	13-Oct-21	18-Nov-21	22-Apr-22	19-May-22	15-Jun-22	19-Jul-22	16-Aug-22	22-Sep-22
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	< 0.003	0.02	0.012	0.012	0.024	0.016	0.022	0.007	0.017	0.024	< 0.006	0.036	0.024	-
Potassium-T	mg/L	**Potassium-T**	mg/L	0.294	-	-	-	-	-	-	-	-	-	< 0.6	-	< 0.6	< 0.6
Selenium-T	mg/L	**Selenium-T**	mg/L	0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005
Silicon-T	mg/L	**Silicon-T**	mg/L	2.68	2.57	2.3	1.83	1.76	3.04	1.98	2.27	3.33	2.3	1.9	2.2	2.1	2.4
Silver-T	mg/L	**Silver-T**	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.00005
Sodium-T	mg/L	**Sodium-T**	mg/L	1.42	-	-	-	-	-	-	-	1.8	1.2	1.1	1.7	0.7	1.5
Strontium-T	mg/L	**Strontium-T**	mg/L	0.0394	0.044	0.042	0.041	0.024	0.075	0.074	0.054	0.076	0.034	0.031	0.043	0.022	0.052
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0002	< 0.0001
Tin-T	mg/L	**Tin-T**	mg/L	0.0001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	0.00222	< 0.002	0.008	0.005	< 0.002	0.005	< 0.01	< 0.01	0.007	0.004	0.003	0.004	< 0.002	0.006
Uranium-T	mg/L	**Uranium-T**	mg/L	0.000017	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001
Vanadium-T	mg/L	**Vanadium-T**	mg/L	0.00033	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.0006	< 0.001	< 0.001	< 0.002	< 0.002	< 0.001
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	< 0.004	< 0.004	< 0.008	< 0.008	< 0.004
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals		**Dissolved Metals**															
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.045	0.05	0.031	0.037	0.031	0.03	0.034	0.033	0.065	0.077	0.075	0.06	0.065	0.085
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.0004	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
Barium-D	mg/L	**Barium-D**	mg/L	0.00668	0.007	0.008	0.007	0.005	0.009	0.01	0.008	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05
Beryllium-D	mg/L	**Beryllium-D**	mg/L	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005
Bismuth-D	mg/L	**Bismuth-D**	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	**Boron-D**	mg/L	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01
Cadmium-D	mg/L	**Cadmium-D**	mg/L	0.000006	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000032	< 0.000016
Calcium-D	mg/L	**Calcium-D**	mg/L	9.23	-	-	-	-	-	-	-	12.3	7.9	7.3	8.6	8	-
Chromium-D	mg/L	**Chromium-D**	mg/L	0.00046	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.0008
Cobalt-D	mg/L	**Cobalt-D**	mg/L	0.00004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.00001	0.00003	0.00002	0.00003	0.00003	0.00017
Copper-D	mg/L	**Copper-D**	mg/L	0.0012	0.003	0.001	0.001	0.002	0.001	0.001	0.003	0.0013	0.0011	0.0012	0.0012	< 0.0016	0.0371
Iron-D	mg/L	**Iron-D**	mg/L	0.11	0.164	0.108	0.084	0.077	0.131	0.029	0.149	0.2	< 0.1	< 0.1	< 0.1	0.1	0.2
Lead-D	mg/L	**Lead-D**	mg/L	< 0.00009	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	0.0007
Lithium-D	mg/L	**Lithium-D**	mg/L	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	**Magnesium-D**	mg/L	2.1	-	-	-	-	-	-	-	3.12	1.9	1.7	2.1	1.9	-
Manganese-D	mg/L	**Manganese-D**	mg/L	0.0115	0.01	0.008	0.009	0.005	0.009	0.004	0.027	0.01	< 0.005	< 0.005	< 0.005	0.01	0.014
Mercury-D	mg/L	**Mercury-D**	mg/L	-	< 0.0001	-	-	-	-	-	-	-	-	< 0.000005	-	-	0.0000037
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	0.00019	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	0.001
Nickel-D	mg/L	**Nickel-D**	mg/L	0.0004	0.007	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.003
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	< 0.003	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	0.27	-	-	-	-	-	-	-	-	-	< 0.6	-	< 0.6	-
Selenium-D	mg/L	**Selenium-D**	mg/L	0.00007	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005
Silicon-D	mg/L	**Silicon-D**	mg/L	2.39	2.67	2.43	2	1.77	2.33	1.4	2.08	2.96	2.3	1.89	1.96	2.08	2.37
Silver-D	mg/L	**Silver-D**	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.00005
Sodium-D	mg/L	**Sodium-D**	mg/L	1.34	-	-	-	-	-	-	-	2.1	1.3	1.1	1.7	0.8	-
Strontium-D	mg/L	**Strontium-D**	mg/L	0.0355	0.03	0.039	0.037	0.028	0.069	0.068	0.054	0.082	0.035	0.032	0.042	0.022	0.042
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002	< 0.0001
Tin-D	mg/L	**Tin-D**	mg/L	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.0005
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	0.00068	< 0.002	0.008	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	0.002
Uranium-D	mg/L	**Uranium-D**	mg/L	0.000015	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
Vanadium-D	mg/L	**Vanadium-D**	mg/L	0.00023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	**Zinc-D**	mg/L	0.002	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.008	0.013
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.00013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

STATION		MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1
	Units	19-Oct-22	23-Nov-22	24-Apr-23	10-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	14-Dec-23
Field Parameters												
Temperature	°C	8.5	1.6	2.5	12.1	18.4	21.7	19.6	-	-	-	0.6
pH	s.u.	7.6	7.26	6.84	7.29	7.11	7.37	7.75	-	-	-	7.47
Conductivity	µS/cm	70.1	70.2	47.1	59.3	56.8	61.9	92.4	-	-	-	70.8
Dissolved Oxygen	mg/L	11	13.51	12.17	10.87	8.92	6.8	8.64	-	-	-	13.45
Dissolved Oxygen %	%	93.6	97	89.1	101.6	95.1	77.9	94.3	-	-	-	93.6
Oxidation-Reduction Potential	mV	248	-	-	-	-	-	-	-	-	-	-
Lab Parameters												
pH	s.u.	7.43	7.51	7.14	7.36	7.05	6.87	6.95	6.48	6.37	6.34	6.59
Turbidity	NTU	-	-	5.1	3.2	2	3.2	3.2	3.5	3.6	2.9	1.6
Hardness (as CaCO3)	mg/L	32.2	35.1	30.6	27.6	31.5	29.5	50	33.5	34.4	36.4	35.4
Alkalinity, Total (as CaCO3)	mg/L	29	35	25	26	32	27	49	34	28	30	36
Acidity (as CaCO3)	mg/L	-	-	5.4	< 5.0	< 5.0	5.6	5.1	5.6	6.1	7.2	5
Total Dissolved Solids	mg/L	66	72	52	30	56	58	76	38	52	52	62
Total Suspended Solids	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	15.1	15.5	11.4	11.8	9.7	10.5	9.2	8.1	13.4	13.6	16.6
Dissolved Organic Carbon	mg/L	14.7	14.8	11.3	11.3	8.3	9.4	8.9	7.9	12.4	13.5	16
Oxidation-Reduction Potential	mV	-	245.5	262.1	151.3	320.4	-	-	-	-	-	-
Nutrients and Anions												
Ammonia, Total (as N)	mg/L	0.03	0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.37
Ammonia, Unionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.61	1.03	0.63	1.1	0.95	0.81	2.15	0.68	0.87	0.84	1.03
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	0.06	0.07	0.22	0.13	0.07	< 0.05	< 0.05	< 0.05	0.06	0.08	0.08
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	2.2	2.22	2.23	2.31	2.15	2.13	3.67	2.45	2.58	3.13	2.75
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	< 0.006	0.02	< 0.006	0.024	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Total Metals												
Aluminum-T	mg/L	0.107	0.132	0.256	0.202	0.113	0.101	0.091	0.064	0.147	0.132	0.139
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016
Calcium-T	mg/L	9.1	10.1	8.8	7.9	9	8.5	14.6	9.8	10	10.8	10.4
Chromium-T	mg/L	0.0005	0.0007	0.0011	0.0008	0.0005	0.0005	0.0005	0.0005	0.0008	0.0008	0.0007
Cobalt-T	mg/L	0.00009	0.00006	0.00015	0.00011	0.00006	0.00006	0.00006	0.00007	0.00075	0.00011	0.00008
Copper-T	mg/L	0.0025	0.0014	0.0019	0.0028	0.0016	0.0017	0.0016	0.0016	0.0018	0.0022	0.0023
Iron-T	mg/L	0.3	0.3	0.4	0.3	0.1	0.1	0.2	0.2	0.3	0.3	0.3
Lead-T	mg/L	0.0002	0.0001	0.0002	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	0.0001	0.0001
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-T	mg/L	2.3	2.4	2.1	1.9	2.2	2	3.3	2.2	2.3	2.3	2.3
Manganese-T	mg/L	0.028	0.018	0.03	0.021	0.017	0.019	0.02	0.035	0.038	0.025	0.025
Mercury-T	mg/L	0.0000082	0.0000071	0.0000047	0.0000044	0.0000037	0.0000029	< 0.0000025	< 0.0000025	0.000003	< 0.0000025	0.0000027
Methylmercury-T	mg/L	-	-	-	-	-	-	0.0000001	-	0.00000015	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003

STATION		MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1	MX1
	Units	19-Oct-22	23-Nov-22	24-Apr-23	10-May-23	14-Jun-23	12-Jul-23	17-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	14-Dec-23
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	< 0.6	1	< 0.6	< 0.6	< 0.6	< 0.6	0.8	< 0.6	< 0.6	< 0.6	< 0.6
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	2.7	2.9	3.5	2.2	2.2	2	2.3	2.1	2.5	2.8	3.1
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	1.3	3	1.3	1.4	1.3	1.3	2.6	1.5	1.4	1.9	1.6
Strontium-T	mg/L	0.036	0.039	0.032	0.035	0.03	0.031	0.07	0.04	0.038	0.042	0.044
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.002	0.003	0.008	0.005	0.002	0.002	0.003	0.001	0.003	0.003	0.003
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-T	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals												
Aluminum-D	mg/L	0.076	0.081	0.094	0.081	0.063	0.049	0.02	0.031	0.066	0.093	0.085
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	0.000018	< 0.000016
Calcium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	0.0006	< 0.0005	0.0005	< 0.0005	< 0.0005	0.0013	0.0006	0.0006	< 0.0005	< 0.0005	< 0.0005
Cobalt-D	mg/L	0.00004	0.00003	0.00006	< 0.00006	< 0.00006	0.00026	0.00052	0.00017	< 0.00006	< 0.00006	< 0.00006
Copper-D	mg/L	0.0025	0.001	0.001	< 0.0008	0.0012	0.001	0.001	0.001	0.0011	0.0011	0.0012
Iron-D	mg/L	0.2	0.2	0.2	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	0.2	0.2
Lead-D	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	< 0.005	< 0.005	0.025	0.015	0.006	0.008	0.006	0.013	0.021	0.014	0.014
Mercury-D	mg/L	0.0000044	0.0000053	0.0000036	0.0000027	0.0000027	< 0.0000025	< 0.0000025	< 0.0000025	< 0.0000025	< 0.0000025	< 0.0000025
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	2.66	2.59	3.09	2.71	2.02	1.85	2.2	2.09	2.62	2.77	2.56
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.038	0.04	0.032	0.034	0.029	0.031	0.068	0.038	0.033	0.045	0.046
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	0.001	0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	15-Dec-10	24-Feb-11	4-May-11	7-Jul-11	7-Sep-11	1-Nov-11	10-Jan-12	6-Mar-12	1-May-12	26-Jun-12	21-Aug-12	18-Oct-12	16-Jul-13	23-Sep-13	6-Oct-15	14-Jun-16	10-Oct-17	12-Jun-18	28-Aug-18	14-Nov-18
Field Parameters																				
Temperature	°C	0.1	0.08	4.43	18.96	11.54	4.48	0.17	0.1	7.22	18.27	14.47	6.29	23.77	10.47	10.9	22.7	15.4	19	20	0
pH	s.u.	7.15	6.8	7.71	7.4	7.81	7.41	8.43	7.36	8.19	6.75	7.23	7.95	7.08	7.33	6.74	7.37	7.15	6.3	7.1	6.8
Conductivity	µS/cm	60.2	80	35	75	103	65	19	47	54	90	95	50	79	57	64.2	57.3	86	61	94.6	53.1
Dissolved Oxygen	mg/L	-	10.94	12.58	7.26	5.1	9.38	12.2	11.38	11.36	6.23	1.96	9.35	5.36	7.06	6.66	5.86	-	7.48	6.63	12.6
Dissolved Oxygen %	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73.8	86
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	91.4
Lab Parameters																					
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	3.4	3.24	2.23	-	2.97
Hardness (as CaCO3)	mg/L	30	34	15	38	54	28	32	39	23	47	48	25	45	41	36	36	42.5	33.9	45.3	26.5
Alkalinity, Total (as CaCO3)	mg/L	24	33	11	33			27	33	16	40	42	13	36	30	30	27	40	36	36	21
Acidity (as CaCO3)	mg/L	< 10	12	< 10	< 10	-	-	12	13	< 10	11	17	< 10	10	< 10	< 10	< 10	< 2	< 2	< 2	< 2
Total Dissolved Solids	mg/L	46	48	20	46		86	46	74	58	48	86	78	88	90	82	82	83	80	89	51
Total Suspended Solids	mg/L	1	4	< 1	1	3	< 1	< 1	1	2	< 1	2	14	4	1	< 1	11	4	3	8	1
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																					
Ammonia, Total (as N)	mg/L	< 10	12	< 10	< 10	-	-	12	13	< 10	11	17	< 10	10	< 10	< 10	< 10	< 2	< 0.1	< 0.1	< 0.1
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.001	-	< 0.001
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	290	< 2	8	< 2
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	-	< 0.5
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.013	0.021	-	-	-	-
Total Metals																					
Aluminum-T	mg/L	-	0.23	0.24	0.086	0.034	0.26	0.2	0.16	0.23	0.073	0.043	0.41	0.098	0.13	0.19	0.26	0.109	0.122	0.173	0.322
Antimony-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0002	0.0005	< 0.0002
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0007	0.0007	0.0039	0.0004
Barium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00497	0.00394	0.00645
Beryllium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000008	0.000008	0.000024
Bismuth-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.000007	< 0.000007
Boron-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.004	0.009	0.002
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00019	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000003	0.000009	0.000006	0.000034
Calcium-T	mg/L	10	13	5.4	13	16	9.7	9.6	13	7.2	14	16	8	14	11	11	9.4	12.8	10.2	13.6	8.06
Chromium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00061	0.00055	0.00075

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	15-Dec-10	24-Feb-11	4-May-11	7-Jul-11	7-Sep-11	1-Nov-11	10-Jan-12	6-Mar-12	1-May-12	26-Jun-12	21-Aug-12	18-Oct-12	16-Jul-13	23-Sep-13	6-Oct-15	14-Jun-16	10-Oct-17	12-Jun-18	28-Aug-18	14-Nov-18
Cobalt-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000108	0.000203	0.000089
Copper-T	mg/L	0.001	0.001	0.002	0.001	0.0005	0.002	0.0017	0.0011	0.002	0.0012	0.001	0.0025	0.001	0.0015	0.0016	0.0021	0.00072	0.00143	0.00109	0.00142
Iron-T	mg/L	0.5	0.9	0.18	0.53	0.46	0.33	0.6	0.98	0.22	0.65	0.76	0.5	0.79	0.45	0.37	0.39	0.528	0.263	0.34	0.31
Lead-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00013	0.00011	0.0001	0.0001
Lithium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0002	0.0003	0.0002
Magnesium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	-	2.52	2.05	2.75	1.54
Manganese-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.026	0.0289	0.0148
Mercury-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	0.00001	< 0.00001	0.00001	< 0.00001
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00011	0.00017	0.00006	< 0.00001
Nickel-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0011	0.0005	0.0007	0.0008	0.0008
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.009
Potassium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.354	0.148	0.251
Selenium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.001	0.001	0.0001	0.00013	0.00009	0.00012
Silicon-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.47	1.36	3.77
Silver-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.12	0.79	1.62
Strontium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0178	0.0256	0.012
Thallium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.000005	0.000006
Tin-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00011	0.00005	0.00003
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00388	0.00575	0.00878
Uranium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000031	0.000013	< 0.000002
Vanadium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00051	0.00048	0.00054
Zinc-T	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002	< 0.002	0.002	0.002
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals																					
Aluminum-D	mg/L	0.13	0.084	0.14	0.051	0.011	0.18	0.12	0.084	0.12	0.036	0.027	0.24	0.029	0.092	0.12	0.1	0.058	0.069	0.186	0.234
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.8	7.59
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	15-Dec-10	24-Feb-11	4-May-11	7-Jul-11	7-Sep-11	1-Nov-11	10-Jan-12	6-Mar-12	1-May-12	26-Jun-12	21-Aug-12	18-Oct-12	16-Jul-13	23-Sep-13	6-Oct-15	14-Jun-16	10-Oct-17	12-Jun-18	28-Aug-18	14-Nov-18
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.78	1.47
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	19-Jun-19	14-Aug-19	21-Oct-19	28-Apr-20	2-Sep-20	5-Nov-20	24-Mar-21	30-Apr-21	18-May-21	18-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	15-Dec-21	27-Jan-22
Field Parameters																		
Temperature	°C	17	15	4.8	1.4	15	1.1	0	6.7	14	17	22	19	15	16	1.7	0.1	0.1
pH	s.u.	7.1	7	6.8	6.9	6.9	7.6	6.7	6.9	7.6	7.2	7.2	6.9	7.3	7.4	7.2	8.5	8.7
Conductivity	µS/cm	48.8	72.5	61.2	36.9	106	51.3	48.5	58.2	63.3	127	72.2	92.6	80	77.3	64.9	90.8	44.1
Dissolved Oxygen	mg/L	6.48	8.37	11.4	13.4	7.73	11.8	12.3	12.2	9.43	5.79	7.66	6.8	8.56	8.67	13.4	11.2	12.3
Dissolved Oxygen %	%	72	83.3	88.5	-	-	84.1	87.8	99.2	95.3	59.5	87.3	76	84.8	87.1	95.8	76.2	84.4
Oxidation-Reduction Potential	mV	138	190	164	162	-	-	155	118	118	153	138	114	191	117	155	123	119
Lab Parameters																		
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	2.53	1.67	4.9	2.18	2.82	7.95	6.91	2.45	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	26.3	38.4	34	18.5	54.4	28	24.9	26.6	32.1	59	43.5	50.3	34.9	37.3	33.8	36.1	48.4
Alkalinity, Total (as CaCO3)	mg/L	23	34	23	11	49	22	15	27	34	73	35	53	34	30	32	42	55
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-	-	-	10
Total Dissolved Solids	mg/L	54	83	77	43	83	77	37	43	52	122	90	90	74	94	68	92	106
Total Suspended Solids	mg/L	13	2	8	4	3	5	11	4	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	16	21.1	23.2	25.6	23.3	22.8	27.1	18.7	22	24
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	12	17	21.1	22.2	25.2	23.1	22.1	24.8	18	20.1	21.9
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																		
Ammonia, Total (as N)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	0.24	< 0.02	< 0.02	< 0.02	< 0.02	0.02	0.46	1.86
Ammonia, Un-ionized (as N)	mg/L	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002	0.000826	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000085	0.00192	0.00738
Chloride	mg/L	-	-	-	-	-	-	0.6	1	0.24	0.21	0.34	0.21	0.46	0.79	0.44	0.4	0.65
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.005	< 0.2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	-	-	-	-	-	-	0.49	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.14	0.28	0.24
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	0.49	< 0.06	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	< 2	< 2	< 2	< 2	5	12	< 2	< 2	1.46	0.33	0.85	0.21	2.33	1.37	1.66	3.69	7.15
Total Kjeldahl Nitrogen	mg/L	< 0.5	1.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																		
Aluminum-T	mg/L	0.317	0.119	0.379	0.364	0.078	0.527	0.464	0.177	-	0.148	0.123	0.063	0.149	0.219	-	0.222	0.117
Antimony-T	mg/L	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	0.0006	0.0008	0.0006	0.0003	0.0006	0.0006	0.0004	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001
Barium-T	mg/L	0.00644	0.0039	0.00572	0.00427	0.00444	0.0102	0.0109	0.00634	0.007	0.008	0.006	0.006	0.005	0.007	0.021	< 0.05	0.07
Beryllium-T	mg/L	0.000018	0.000008	0.000011	0.000008	0.000007	0.00003	0.000014	0.000008	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005
Bismuth-T	mg/L	< 0.000007	< 0.000007	0.000008	< 0.000007	< 0.000007	0.000023	0.000017	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.001
Boron-T	mg/L	0.004	0.005	0.003	0.003	0.005	0.01	0.003	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	0.000016	0.000021	0.000014	0.000013	0.000005	0.00001	0.000018	0.000014	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	0.000021
Calcium-T	mg/L	8.02	11.5	10.3	5.45	16.6	8.26	7.29	7.98	-	-	-	-	-	-	-	-	16
Chromium-T	mg/L	0.00091	0.0003	0.00112	0.00085	0.00051	0.00175	0.00116	0.00059	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0012	< 0.0005

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	19-Jun-19	14-Aug-19	21-Oct-19	28-Apr-20	2-Sep-20	5-Nov-20	24-Mar-21	30-Apr-21	18-May-21	18-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	15-Dec-21	27-Jan-22
Cobalt-T	mg/L	0.000192	0.000079	0.000184	0.000161	0.000107	0.00019	0.000275	0.000114	< 0.0005	0.0009	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0009	< 0.0009
Copper-T	mg/L	0.0018	0.0011	0.0019	0.0014	0.0006	0.0036	0.0017	0.0013	0.001	< 0.001	0.002	< 0.001	< 0.001	0.002	0.001	0.002	0.0019
Iron-T	mg/L	0.411	0.359	0.449	0.238	0.332	0.5	0.468	0.254	0.462	1.49	0.585	0.49	0.271	0.258	0.284	0.5	0.9
Lead-T	mg/L	0.00016	0.00011	0.0001	< 0.00001	< 0.00001	0.00011	0.00039	< 0.00009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0002	0.0003
Lithium-T	mg/L	0.0004	0.0002	0.0003	0.0003	0.0003	0.0026	0.0004	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.001
Magnesium-T	mg/L	1.53	2.38	2.03	1.18	3.14	1.8	1.63	1.62	-	-	-	-	-	-	-	-	3
Manganese-T	mg/L	0.0389	0.0103	0.0256	0.0142	0.0438	0.0157	0.0903	0.0423	0.072	0.284	0.025	0.021	0.019	0.011	0.026	0.033	0.119
Mercury-T	mg/L	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	-	-	-	-	-	-	-	-	-	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	0.00000032	0.00000039	0.000000611	0.00000041	0.00000021	0.00000023	0.00000017	0.00000011	0.00000018
Molybdenum-T	mg/L	0.00009	< 0.00004	0.00021	0.00007	0.00015	< 0.00004	0.00011	0.00015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001
Nickel-T	mg/L	0.0007	0.0007	0.0008	0.0007	0.0006	0.0011	0.0008	0.0006	< 0.003	0.29	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-T	mg/L	0.012	0.014	0.018	0.005	0.045	< 0.003	0.023	0.006	0.017	0.046	0.022	0.032	0.015	0.039	0.014	0.02	0.031
Potassium-T	mg/L	0.122	0.089	0.277	0.283	0.785	0.3	0.409	0.254	-	-	-	-	-	-	-	-	-
Selenium-T	mg/L	0.00012	0.00012	0.00017	0.00009	0.00008	0.00006	0.00007	0.00009	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	0.0036	< 0.0005
Silicon-T	mg/L	1.29	1.89	3.01	3.04	1.53	3.59	3.88	0.68	0.45	0.64	1.77	1.75	2.28	2.91	2.75	-	3.9
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005
Sodium-T	mg/L	0.87	1.02	1.28	0.76	2	1.2	1.55	1.73	-	-	-	-	-	-	-	3.7	6.5
Strontium-T	mg/L	0.0143	0.0194	0.0177	0.00908	0.0275	0.0145	0.0133	0.0136	0.018	0.035	0.024	0.025	0.021	0.02	0.018	-	0.034
Thallium-T	mg/L	0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000007	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001
Tin-T	mg/L	0.00019	< 0.00006	0.00007	0.00007	< 0.00006	0.00012	< 0.00006	0.00015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.00849	0.00308	0.00934	0.00812	0.00194	0.0142	0.0149	0.00467	0.005	0.008	0.003	0.015	< 0.002	< 0.01	< 0.01	0.004	0.002
Uranium-T	mg/L	0.000029	0.000015	0.000022	0.000017	0.000013	< 0.000002	0.000023	0.000016	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001
Vanadium-T	mg/L	0.00082	0.00047	0.00068	0.00057	0.00031	0.00099	0.00079	0.00044	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001
Zinc-T	mg/L	0.002	< 0.002	0.004	0.003	< 0.002	0.005	0.003	0.003	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.02	< 0.004	0.009
Zirconium-T	mg/L	-	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.01
Dissolved Metals																		
Aluminum-D	mg/L	0.121	0.052	0.146	0.161	0.078	0.261	0.139	0.079	0.072	0.054	0.091	0.032	0.109	0.138	0.11	0.143	0.102
Antimony-D	mg/L	-	-	-	-	-	-	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	-	-	-	-	-	-	0.0003	0.0004	< 0.003	< 0.003	0.001	< 0.001	0.012	< 0.001	0.007	< 0.001	< 0.001
Barium-D	mg/L	-	-	-	-	-	-	0.00676	0.0062	0.006	0.004	0.006	0.005	0.005	0.006	0.016	< 0.05	0.07
Beryllium-D	mg/L	-	-	-	-	-	-	0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	-	-	-	-	-	-	0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.001
Boron-D	mg/L	-	-	-	-	-	-	0.004	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	-	-	-	-	-	-	0.000009	0.000007	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	0.000018
Calcium-D	mg/L	-	-	-	-	-	-	6.94	8.17	-	-	-	-	-	-	-	-	14.5
Chromium-D	mg/L	-	-	-	-	-	-	0.00053	0.00067	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0005	< 0.0005
Cobalt-D	mg/L	-	-	-	-	-	-	0.000144	0.000088	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0009	< 0.0009
Copper-D	mg/L	-	-	-	-	-	-	0.0013	0.0016	0.001	< 0.001	0.001	< 0.001	< 0.001	0.002	0.001	0.0014	0.0015
Iron-D	mg/L	-	-	-	-	-	-	0.178	0.196	0.296	0.861	0.464	0.396	0.198	0.104	0.204	0.6	0.8
Lead-D	mg/L	-	-	-	-	-	-	0.00009	< 0.00009	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002	0.0002

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	19-Jun-19	14-Aug-19	21-Oct-19	28-Apr-20	2-Sep-20	5-Nov-20	24-Mar-21	30-Apr-21	18-May-21	18-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	15-Dec-21	27-Jan-22
Lithium-D	mg/L	-	-	-	-	-	-	0.0002	0.0001	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.001
Magnesium-D	mg/L	-	-	-	-	-	-	1.52	1.64	-	-	-	-	-	-	-	-	2.7
Manganese-D	mg/L	-	-	-	-	-	-	0.0713	0.0356	0.055	0.192	0.02	0.018	0.008	0.008	0.012	0.038	0.115
Mercury-D	mg/L	-	-	-	-	-	-	< 0.00001	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	< 0.01	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	0.00009	0.00019	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001
Nickel-D	mg/L	-	-	-	-	-	-	0.0005	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003
Phosphorus-D	mg/L	-	-	-	-	-	-	0.003	< 0.003	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	0.367	0.255	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	-	-	-	-	-	-	0.00009	0.00006	< 0.004	< 0.004	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.0005	< 0.0005
Silicon-D	mg/L	-	-	-	-	-	-	3.2	0.61	0.76	0.35	1.73	1.74	2.05	2.12	2.61	-	4.8
Silver-D	mg/L	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005
Sodium-D	mg/L	-	-	-	-	-	-	1.55	1.76	-	-	-	-	-	-	-	3.8	7.1
Strontium-D	mg/L	-	-	-	-	-	-	0.0121	0.014	0.008	0.026	0.022	0.026	0.018	0.018	0.019	-	0.035
Thallium-D	mg/L	-	-	-	-	-	-	0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001
Tin-D	mg/L	-	-	-	-	-	-	0.00008	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	0.00302	0.00183	< 0.002	0.019	0.004	< 0.002	0.006	< 0.002	< 0.002	0.003	0.002
Uranium-D	mg/L	-	-	-	-	-	-	0.000011	0.000014	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001
Vanadium-D	mg/L	-	-	-	-	-	-	0.0004	0.00031	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001
Zinc-D	mg/L	-	-	-	-	-	-	0.002	0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.004
Zirconium-D	mg/L	-	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.01

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	17-Feb-22	15-Mar-22	20-Apr-22	17-May-22	14-Jun-22	18-Jul-22	22-Aug-22	20-Sep-22	18-Oct-22	22-Nov-22	15-Dec-22	22-Mar-23	22-Mar-23	10-May-23	23-Aug-23	23-Aug-23	1-Nov-23
Field Parameters																		
Temperature	°C	0.1	0.1	0.1	13	15	20	15.7	12.3	6.3	0.1	0.3	-	0	17.1	22	-	0.8
pH	s.u.	8.8	7	6.8	6.9	7.8	6.8	7.86	7.62	8	8.6	7.42	-	7.8	8.09	6.96	-	8.11
Conductivity	µS/cm	20.1	142	40.3	52.6	60	72.5	90.9	52	59.6	25.3	61.4	-	73.4	48.5	87.6	-	46.7
Dissolved Oxygen	mg/L	17.8	12.6	14.5	9.31	2.54	4.33	4.13	8.71	10.2	14.31	11.49	-	12.21	10.39	7.18	-	12.26
Dissolved Oxygen %	%	122	-	98.7	87.4	28.9	47.8	41.6	81.4	82.4	98	79	-	92.4	107.7	82.2	-	85.8
Oxidation-Reduction Potential	mV	171	213	221	167	30.3	197	157.2	164.1	151	49.3	285.2	-	98.8	180.1	-	-	-
Lab Parameters																		
pH	s.u.	-	-	-	-	-	-	-	7.07	7.35	6.94	7.14	7.26	7.2	7.29	6.75	6.75	6.18
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	3.6	3.5	2.2	43.2	4.1	23.8
Hardness (as CaCO3)	mg/L	50.3	73.5	21	27.7	32.2	38	-	28.5	30.5	26.3	28.5	-	32.6	23	43.2	-	24.8
Alkalinity, Total (as CaCO3)	mg/L	47	64	16	26	29	34	-	24	33	26	29	32	32	23	-	47	17
Acidity (as CaCO3)	mg/L	15	-	5	8	-	-	-	-	-	-	5	6	6	< 5.0	-	5.9	7.1
Total Dissolved Solids	mg/L	60	100	48	30	64	68	-	62	64	28	56	76	50	96	-	76	52
Total Suspended Solids	mg/L	< 10	70	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	23	32
Total Organic Carbon	mg/L	11	13.3	15.1	16.6	18.4	20.9	-	28.4	18.3	14	11.2	9.3	8.9	13.6	-	22.4	19
Dissolved Organic Carbon	mg/L	10.7	13	14.8	15.8	18.2	7	-	28.4	17.7	13.7	10.8	8.9	9.3	14.4	-	20.7	18.4
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	126.9
Nutrients and Anions																		
Ammonia, Total (as N)	mg/L	0.29	0.28	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	0.05	0.1	0.06	< 0.02	< 0.02	-	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.00132	0.00163	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.42	2.26	0.21	0.2	0.13	0.11	-	0.33	-	0.22	0.19	0.31	0.31	0.14	< 0.10	-	0.25
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05
Nitrate (as N)	mg/L	0.28	0.54	0.21	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	0.12	0.16	0.22	0.22	< 0.05	< 0.05	-	< 0.05
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02
Sulphate	mg/L	3.09	3.84	1.87	1.06	0.46	0.2	-	0.6	0.7	1.26	1.55	-	1.76	1.11	< 0.10	-	1.38
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	< 0.006	< 0.006	< 0.006	0.014	0.029	0.03	0.08	< 0.02	-	0.08
Total Metals																		
Aluminum-T	mg/L	0.07	0.641	0.318	0.183	0.211	0.112	-	0.235	0.157	0.184	0.144	0.107	0.096	0.176	0.048	-	0.385
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	-	< 0.001
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Boron-T	mg/L	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01
Cadmium-T	mg/L	< 0.00008	0.000042	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	0.000018
Calcium-T	mg/L	< 0.05	18.4	6.23	8.43	9.65	11.4	-	8.3	8.9	7.9	8.6	10.3	9.6	6.9	12.5	-	7.3
Chromium-T	mg/L	< 0.0005	0.0017	0.0008	0.0006	0.0012	0.0006	-	0.0013	0.0006	0.001	0.0013	0.0006	0.0043	0.0007	< 0.0005	-	0.0011

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	17-Feb-22	15-Mar-22	20-Apr-22	17-May-22	14-Jun-22	18-Jul-22	22-Aug-22	20-Sep-22	18-Oct-22	22-Nov-22	15-Dec-22	22-Mar-23	22-Mar-23	10-May-23	23-Aug-23	23-Aug-23	1-Nov-23
Cobalt-T	mg/L	< 0.0009	< 0.0009	< 0.0009	0.00013	0.00018	0.0003	-	0.00011	0.00021	0.00009	0.00013	0.00014	0.00016	0.00012	0.00015	-	0.00022
Copper-T	mg/L	0.0011	0.002	0.0018	0.0025	0.0021	0.0019	-	0.0019	0.0019	0.0012	0.0011	0.0015	0.0012	0.0017	0.0011	-	0.002
Iron-T	mg/L	0.8	1.4	0.3	0.3	0.3	0.5	-	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.5	-	0.4
Lead-T	mg/L	< 0.0004	0.0007	0.0001	< 0.0001	0.0001	< 0.0001	-	0.0001	0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	0.0003
Lithium-T	mg/L	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Magnesium-T	mg/L	2.7	5.23	1.41	1.62	1.97	2.3	-	1.9	2	1.6	1.7	2.2	2.1	1.4	2.9	-	1.6
Manganese-T	mg/L	0.14	0.289	0.01	0.033	0.033	0.07	-	0.008	0.017	0.025	0.037	0.067	0.063	0.031	0.051	-	0.048
Mercury-T	mg/L	-	-	-	-	< 0.000005	-	-	0.000005	0.0000042	-	0.0000043	0.0000031	< 0.0000025	0.000004	< 0.0000025	-	0.0000041
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00000011	0.00000012	-	0.00000013	-	0.00000018
Ultra-Low Level Mercury-T	mg/L	0.00000018	0.00000036	0.0000001	0.00000031	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003
Phosphorus-T	mg/L	0.01	0.069	0.01	0.013	0.16	0.041	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	-	-	-	< 0.6	-	-	-	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	-	< 0.6
Selenium-T	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Silicon-T	mg/L	4.5	5.34	3.08	0.9	1.1	1.2	-	2.8	3	3.4	4.1	4.4	4.1	0.6	0.3	-	3.1
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005
Sodium-T	mg/L	2.5	5.16	1.18	1.1	1	1.1	-	1.2	1.1	1	1.1	1.3	1.2	0.9	1.2	-	1.2
Strontium-T	mg/L	0.02	0.032	0.01	0.014	0.017	0.021	-	0.015	0.016	0.013	0.014	0.018	0.016	0.013	0.023	-	0.012
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	< 0.002	0.02	0.007	0.003	0.004	0.003	-	0.004	0.003	0.003	0.002	-	0.001	0.004	0.001	-	0.007
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Vanadium-T	mg/L	< 0.002	0.002	0.0006	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Zinc-T	mg/L	< 0.02	0.011	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004	0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.015	-	0.008
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01
Dissolved Metals																		
Aluminum-D	mg/L	0.05	0.059	0.161	0.133	0.122	0.071	-	0.192	0.121	0.135	0.102	0.063	0.065	0.103	0.02	-	0.202
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01
Cadmium-D	mg/L	< 0.000016	0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.00008	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016
Calcium-D	mg/L	14.2	17.9	5.87	8.7	9.2	9.7	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0025	-	0.0007	0.0006	< 0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	0.0008	-	< 0.0005
Cobalt-D	mg/L	< 0.0009	< 0.0009	< 0.00001	0.00008	0.00005	0.00022	-	0.00008	0.00011	0.00007	0.00009	0.00014	0.00011	0.00009	0.00039	-	0.00008
Copper-D	mg/L	< 0.0008	0.001	0.0013	0.0015	0.0014	< 0.004	-	0.0015	0.0011	0.0009	0.0009	< 0.0008	< 0.0008	0.001	< 0.0008	-	0.0013
Iron-D	mg/L	0.4	0.9	0.1	0.2	0.2	0.3	-	< 1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	-	0.2
Lead-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0005	-	0.0019	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001

STATION		BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2	BG2
	Units	17-Feb-22	15-Mar-22	20-Apr-22	17-May-22	14-Jun-22	18-Jul-22	22-Aug-22	20-Sep-22	18-Oct-22	22-Nov-22	15-Dec-22	22-Mar-23	22-Mar-23	10-May-23	23-Aug-23	23-Aug-23	1-Nov-23
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Magnesium-D	mg/L	2.7	3.8	1.33	1.7	1.6	2	-	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.12	0.267	0.006	< 0.005	0.024	< 0.005	-	< 0.05	< 0.005	0.022	0.034	0.063	0.062	0.028	-	0.015	< 0.005
Mercury-D	mg/L	-	-	-	-	< 0.000005	-	-	0.0000068	0.000003	0.000004	0.0000042	0.0000026	< 0.0000025	0.0000036	-	< 0.0000025	< 0.0000025
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.005	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	< 0.6	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Silicon-D	mg/L	4.34	4.65	2.76	0.853	0.948	1.18	-	< 0.32	2.91	2.94	3.83	4.52	4.51	0.723	0.256	-	2.67
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00025	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005
Sodium-D	mg/L	2.4	4.7	0.9	1.3	0.7	1.1	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.03	0.032	0.01	0.015	0.016	0.019	-	0.031	0.016	0.013	0.014	0.016	0.016	0.012	0.023	-	0.013
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0005	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	< 0.001	0.001	0.001	0.001	0.001	< 0.005	-	0.002	0.002	0.001	0.001	< 0.001	< 0.001	0.001	< 0.001	-	0.002
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Zinc-D	mg/L	0.01	0.005	< 0.004	< 0.004	< 0.004	< 0.02	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.016	-	< 0.004
Zirconium-D	mg/L	< 0.01	< 0.01	0.00015	< 0.01	< 0.01	< 0.01	-	< 0.1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01

STATION		BG2
	Units	21-Feb-24
Field Parameters		
Temperature	°C	1.7
pH	s.u.	7.56
Conductivity	µS/cm	67.2
Dissolved Oxygen	mg/L	11.2
Dissolved Oxygen %	%	80.4
Oxidation-Reduction Potential	mV	-
Lab Parameters		
pH	s.u.	-
Turbidity	NTU	-
Hardness (as CaCO3)	mg/L	-
Alkalinity, Total (as CaCO3)	mg/L	-
Acidity (as CaCO3)	mg/L	-
Total Dissolved Solids	mg/L	-
Total Suspended Solids	mg/L	-
Total Organic Carbon	mg/L	-
Dissolved Organic Carbon	mg/L	-
Oxidation-Reduction Potential	mV	206.6
Nutrients and Anions		
Ammonia, Total (as N)	mg/L	-
Ammonia, Un-ionized (as N)	mg/L	-
Chloride	mg/L	-
Cyanide (CN), Free	mg/L	-
Cyanide (CN), Total	mg/L	-
Fluoride	mg/L	-
Nitrate (as N)	mg/L	-
Nitrate + Nitrite (as N)	mg/L	-
Nitrite (as N)	mg/L	-
Sulphate	mg/L	-
Total Kjeldahl Nitrogen	mg/L	-
Total Phosphorus	mg/L	-
Total Metals		
Aluminum-T	mg/L	-
Antimony-T	mg/L	-
Arsenic-T	mg/L	-
Barium-T	mg/L	-
Beryllium-T	mg/L	-
Bismuth-T	mg/L	-
Boron-T	mg/L	-
Cadmium-T	mg/L	-
Calcium-T	mg/L	-
Chromium-T	mg/L	-

STATION		BG2
	Units	21-Feb-24
Cobalt-T	mg/L	-
Copper-T	mg/L	-
Iron-T	mg/L	-
Lead-T	mg/L	-
Lithium-T	mg/L	-
Magnesium-T	mg/L	-
Manganese-T	mg/L	-
Mercury-T	mg/L	-
Methylmercury-T	mg/L	-
Ultra-Low Level Mercury-T	mg/L	-
Molybdenum-T	mg/L	-
Nickel-T	mg/L	-
Phosphorus-T	mg/L	-
Potassium-T	mg/L	-
Selenium-T	mg/L	-
Silicon-T	mg/L	-
Silver-T	mg/L	-
Sodium-T	mg/L	-
Strontium-T	mg/L	-
Thallium-T	mg/L	-
Tin-T	mg/L	-
Tungsten-T	mg/L	-
Titanium-T	mg/L	-
Uranium-T	mg/L	-
Vanadium-T	mg/L	-
Zinc-T	mg/L	-
Zirconium-T	mg/L	-
Dissolved Metals		
Aluminum-D	mg/L	-
Antimony-D	mg/L	-
Arsenic-D	mg/L	-
Barium-D	mg/L	-
Beryllium-D	mg/L	-
Bismuth-D	mg/L	-
Boron-D	mg/L	-
Cadmium-D	mg/L	-
Calcium-D	mg/L	-
Chromium-D	mg/L	-
Cobalt-D	mg/L	-
Copper-D	mg/L	-
Iron-D	mg/L	-
Lead-D	mg/L	-

STATION		BG2
	Units	21-Feb-24
Lithium-D	mg/L	-
Magnesium-D	mg/L	-
Manganese-D	mg/L	-
Mercury-D	mg/L	-
Methylmercury-D	mg/L	-
Molybdenum-D	mg/L	-
Nickel-D	mg/L	-
Phosphorus-D	mg/L	-
Potassium-D	mg/L	-
Selenium-D	mg/L	-
Silicon-D	mg/L	-
Silver-D	mg/L	-
Sodium-D	mg/L	-
Strontium-D	mg/L	-
Thallium-D	mg/L	-
Tin-D	mg/L	-
Tungsten-D	mg/L	-
Titanium-D	mg/L	-
Uranium-D	mg/L	-
Vanadium-D	mg/L	-
Zinc-D	mg/L	-
Zirconium-D	mg/L	-

STATION		STATION		US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1
	Units		Units	29-Apr-21	17-May-21	18-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	27-Jan-22	15-Feb-22	17-Mar-22	19-Apr-22	16-May-22	15-Jun-22
Field Parameters		**Field Parameters**															
Temperature	°C	**Temperature**	°C	17	13	18	27	19	14	15	1.8	0.1	0	0.1	0.5	19	17
pH	s.u.	**pH**	s.u.	7.1	7.6	7.7	7.2	6.9	7.2	6.8	6.6	7	7.7	7.6	7.5	7.1	7.4
Conductivity	µS/cm	**Conductivity**	µS/cm	135	153	380	161	304	179	157	185	215	233	17.4	74.5	112	150
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	9.05	7.71	6.48	4.9	1.53	3.95	4.25	5.65	9.03	11.7	14.2	11.5	5.19	4.67
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	92.1	74.8	67	60	13.2	38.5	42	39.9	61.7	80.1	96.8	79.5	56	47.2
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	48.7	109	63.6	115	6.7	133	143	143	7.3	113	113	270	284	117
Lab Parameters		**Lab Parameters**															
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	98	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	67.2	77.3	167	98.5	153	81.1	62	104	104	-	3.3	36.5	54	88.4
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	56	65	183	68	203	74	49	77	101	89	< 5	27	51	70
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 2	-	-	-	-	-	-	-	25	25	-	-	10	6
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	125	136	240	152	216	166	168	164	166	188	22	88	102	124
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	96	40	16	14	< 10	17	15	308	12	20	< 10	10	24	19
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	23	32	32.5	44	41	43.3	39.9	50.8	32.7	21.6	2.6	16.2	22.7	34.9
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	21	25.4	30	40.1	39.1	41.2	19.4	40.6	29.3	21.3	2.4	17.5	22.5	31.9
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**															
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	0.1	0.04	< 0.02	0.06	< 0.02	< 0.02	0.08	0.08	0.44	0.69	0.9	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	< 0.001	0.000318	< 0.000002	0.000696	< 0.000002	< 0.000002	0.000844	0.0005	0.00289	0.00354	0.00201	< 0.000002	< 0.000002	< 0.000002
Chloride	mg/L	**Chloride**	mg/L	4	1.41	0.72	1.33	0.4	1.19	1.28	1.9	3.07	7.21	0.34	1	1.24	0.74
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	0.0025	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	0.005	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Fluoride	mg/L	**Fluoride**	mg/L	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.33	0.06	< 0.05	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	0.44	0.63	< 0.05	< 0.05
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	**Sulphate**	mg/L	13	6.34	1.46	5.38	0.52	4.21	4.93	6.44	7.74	12.9	1.22	3.95	2.98	2.06
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals		**Total Metals**															
Aluminum-T	mg/L	**Aluminum-T**	mg/L	3.64	-	0.453	0.839	0.287	0.12	3.83	-	0.232	0.374	0.035	1.65	0.879	2.04
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	0.0011	< 0.003	0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.003
Barium-T	mg/L	**Barium-T**	mg/L	0.0626	0.043	0.029	0.031	0.027	0.02	0.044	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	**Beryllium-T**	mg/L	0.000096	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	0.00003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	**Boron-T**	mg/L	0.02	< 0.01	< 0.01	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	0.000059	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000021	0.000034	0.000021	0.000025	0.000026	0.000027
Calcium-T	mg/L	**Calcium-T**	mg/L	17.8	-	-	-	-	-	-	-	29.3	27.1	1.01	10.7	15.3	23
Chromium-T	mg/L	**Chromium-T**	mg/L	0.00923	0.009	< 0.003	< 0.003	< 0.003	< 0.003	0.009	0.023	0.0013	0.0017	< 0.0005	0.004	0.003	0.0069

STATION		STATION		US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1
	Units		Units	29-Apr-21	17-May-21	18-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	27-Jan-22	15-Feb-22	17-Mar-22	19-Apr-22	16-May-22	15-Jun-22
Cobalt-T	mg/L	**Cobalt-T**	mg/L	0.00189	0.0019	0.0007	0.0007	0.0014	0.0006	0.0016	0.007	0.0033	0.0029	< 0.0009	< 0.00001	0.001	0.00208
Copper-T	mg/L	**Copper-T**	mg/L	0.0174	0.026	0.025	0.033	0.01	0.021	0.014	0.05	0.0039	0.0065	0.0023	0.0119	0.0265	0.0376
Iron-T	mg/L	**Iron-T**	mg/L	3.64	3.65	0.793	1.78	1.52	1.18	3.67	10.2	2.6	3.5	< 0.1	1.5	1.3	3
Lead-T	mg/L	**Lead-T**	mg/L	0.00239	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.002	0.004	0.0002	0.0004	0.0001	0.0006	0.0006	0.0009
Lithium-T	mg/L	**Lithium-T**	mg/L	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.002
Magnesium-T	mg/L	**Magnesium-T**	mg/L	5.52	-	-	-	-	-	-	-	8.3	7.6	0.19	2.88	3.84	5
Manganese-T	mg/L	**Manganese-T**	mg/L	0.179	0.282	0.389	0.298	0.891	0.14	0.147	1.63	2.11	1.72	0.049	0.063	0.18	0.483
Mercury-T	mg/L	**Mercury-T**	mg/L	-	< 0.0001	-	-	-	-	-	-	-	-	-	-	-	0.000109
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	0.00000264	0.0000104	0.00000553	0.0000039	0.00000256	0.0000012	0.00000851	0.00000615	0.00000019	0.00000029	0.00000164	0.00000316
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	0.00136	0.003	0.01	0.008	0.013	0.003	< 0.002	0.002	< 0.001	< 0.001	< 0.001	0.002	0.004	0.009
Nickel-T	mg/L	**Nickel-T**	mg/L	0.006	0.007	< 0.003	0.003	< 0.003	< 0.003	0.006	0.014	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.005
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.07	0.1	0.089	0.024	0.245	0.028	0.348	1.04	0.033	0.034	< 0.006	0.023	0.022	0.071
Potassium-T	mg/L	**Potassium-T**	mg/L	2.01	-	-	-	-	-	-	-	-	-	-	1.7	1.5	1.5
Selenium-T	mg/L	**Selenium-T**	mg/L	0.00017	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	**Silicon-T**	mg/L	9.16	9.63	1.12	4.61	4.27	2.88	9.83	15.5	4.9	5	0.07	5.3	2	5
Silver-T	mg/L	**Silver-T**	mg/L	0.00008	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00006
Sodium-T	mg/L	**Sodium-T**	mg/L	3.99	-	-	-	-	-	-	-	6.4	8.1	0.28	2.24	2.43	2.87
Strontium-T	mg/L	**Strontium-T**	mg/L	0.0653	0.071	0.158	0.085	0.123	0.083	0.07	0.104	0.096	0.097	0.004	0.044	0.056	0.079
Thallium-T	mg/L	**Thallium-T**	mg/L	0.000032	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	**Tin-T**	mg/L	0.00015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	1.4	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	0.127	0.14	0.044	0.029	< 0.002	0.016	0.154	0.29	0.008	0.01	0.001	0.051	0.029	0.075
Uranium-T	mg/L	**Uranium-T**	mg/L	0.000114	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	**Vanadium-T**	mg/L	0.00672	0.007	< 0.002	0.002	0.002	< 0.002	0.006	0.014	0.002	0.002	< 0.001	0.002	0.003	0.005
Zinc-T	mg/L	**Zinc-T**	mg/L	0.01	0.021	< 0.005	0.006	< 0.005	< 0.005	< 0.02	0.044	0.004	< 0.004	< 0.004	0.012	0.01	0.006
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals		**Dissolved Metals**															
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.078	0.143	0.014	0.072	0.045	0.214	0.267	0.211	0.226	0.189	0.006	0.292	0.129	0.231
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.0008	< 0.003	< 0.003	0.002	0.001	0.013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.002
Barium-D	mg/L	**Barium-D**	mg/L	0.028	0.015	0.012	0.018	0.022	0.022	0.016	0.014	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	**Beryllium-D**	mg/L	0.00003	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	**Bismuth-D**	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	**Boron-D**	mg/L	0.008	< 0.01	< 0.01	< 0.01	0.011	0.011	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	**Cadmium-D**	mg/L	0.000015	< 0.0001	< 0.0001	< 0.0001	0.0009	< 0.0001	< 0.0001	< 0.0001	0.000038	0.000016	< 0.000016	0.000018	< 0.000016	< 0.000016
Calcium-D	mg/L	**Calcium-D**	mg/L	16.5	-	-	-	-	-	-	-	26.6	26.2	-	9	16	21.2
Chromium-D	mg/L	**Chromium-D**	mg/L	0.00216	< 0.003	< 0.003	< 0.002	< 0.002	0.002	< 0.002	< 0.003	0.0013	0.001	< 0.0005	0.0009	0.0009	0.0013
Cobalt-D	mg/L	**Cobalt-D**	mg/L	0.000663	< 0.0005	< 0.0005	< 0.0005	0.0012	0.0009	< 0.0005	0.0005	0.0033	0.0026	< 0.0009	< 0.00001	0.00049	0.00012
Copper-D	mg/L	**Copper-D**	mg/L	0.008	0.012	0.01	0.017	0.014	0.029	0.007	0.008	0.0053	0.0034	< 0.0008	0.0082	0.0167	0.0205
Iron-D	mg/L	**Iron-D**	mg/L	0.905	0.9	0.081	0.618	0.63	1.3	0.643	0.953	2.5	2.9	< 0.1	0.6	0.3	0.8
Lead-D	mg/L	**Lead-D**	mg/L	0.00065	< 0.001	< 0.001	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	0.0003	0.0002	< 0.0001	0.0002	0.0001	0.0001

STATION		STATION		US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1
	Units		Units	29-Apr-21	17-May-21	18-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	27-Jan-22	15-Feb-22	17-Mar-22	19-Apr-22	16-May-22	15-Jun-22
Lithium-D	mg/L	**Lithium-D**	mg/L	0.0007	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	**Magnesium-D**	mg/L	4.76	-	-	-	-	-	-	-	7.9	7.4	-	2.5	3.4	4.2
Manganese-D	mg/L	**Manganese-D**	mg/L	0.132	0.178	0.093	0.154	0.788	0.148	0.114	0.311	2.01	1.78	0.03	0.049	0.016	0.434
Mercury-D	mg/L	**Mercury-D**	mg/L	-	< 0.0001	-	-	-	-	-	-	-	-	-	-	-	0.000037
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	< 0.01	-	-	-	-	< 0.01	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	0.00121	0.003	0.009	0.006	0.008	< 0.002	< 0.002	< 0.002	< 0.001	0.001	< 0.001	0.002	0.003	0.008
Nickel-D	mg/L	**Nickel-D**	mg/L	0.0019	< 0.003	< 0.003	< 0.003	< 0.003	0.004	< 0.003	0.002	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	0.021	-	-	-	-	-	-	-	-	-	-	0.14	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	1.51	-	-	-	-	-	-	-	-	-	-	1.3	-	1.4
Selenium-D	mg/L	**Selenium-D**	mg/L	0.00012	< 0.004	< 0.004	< 0.001	0.001	0.001	0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	**Silicon-D**	mg/L	4.03	2.13	0.63	4.11	4.07	2.61	3.07	3.47	5.44	4	0.03	3.36	1.11	2.26
Silver-D	mg/L	**Silver-D**	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	**Sodium-D**	mg/L	3.59	-	-	-	-	-	-	-	7.1	7.8	< 0.6	1.7	2.1	2.3
Strontium-D	mg/L	**Strontium-D**	mg/L	0.0573	0.081	0.092	0.075	0.121	0.08	0.063	0.082	0.103	0.096	0.004	0.042	0.052	0.077
Thallium-D	mg/L	**Thallium-D**	mg/L	0.000012	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	**Tin-D**	mg/L	0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	1.4	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	0.0249	0.012	0.009	0.01	0.02	0.008	0.007	0.005	0.008	0.006	< 0.001	0.006	0.004	0.008
Uranium-D	mg/L	**Uranium-D**	mg/L	0.000066	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	**Vanadium-D**	mg/L	0.00194	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	**Zinc-D**	mg/L	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.016	< 0.005	< 0.005	< 0.004	< 0.004	< 0.004	0.009	0.004	< 0.004
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.00005	< 0.01	< 0.01	< 0.01

STATION		US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1
	Units	20-Jul-22	15-Aug-22	20-Sep-22	17-Oct-22	22-Nov-22	22-Nov-22	13-Dec-22	22-Mar-23	24-Apr-23	8-May-23	14-Jun-23	12-Jul-23	18-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	20-Feb-24
Field Parameters																		
Temperature	°C	23	17.9	15.5	8	1	-	0	0	3.2	14.5	17.6	19.5	15.4	-	-	-	0
pH	s.u.	6.9	6.73	7.88	6.7	7.5	-	7.611	7.08	6.69	6.88	6.83	6.95	6.97	-	-	-	7.22
Conductivity	µS/cm	211	245.8	75.9	100	100.6	-	160.9	228.6	44.1	83.2	288.3	221.7	290.4	-	-	-	9.8
Dissolved Oxygen	mg/L	3.71	0.8	8.07	8.76	11.47	-	8.81	8.04	11.15	7.06	5.01	3.71	0.77	-	-	-	10.55
Dissolved Oxygen %	%	43.2	8.4	80.8	73.9	81	-	60	55.3	83.3	69.3	52.5	40.4	7.7	-	-	-	72.1
Oxidation-Reduction Potential	mV	20.3	80.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters																		
pH	s.u.	-	-	7.24	7.4	7.11	7.01	6.89	7.3	7.03	7.38	7.57	7.28	7.26	-	6.52	6.37	-
Turbidity	NTU	-	-	-	-	-	-	-	56.2	28.6	16.4	15.2	6.6	8.9	-	19.4	19.2	-
Hardness (as CaCO3)	mg/L	105	119	36.9	49.3	47.8	-	80.9	105	29.5	43.6	149	122	164	-	47.1	42.1	-
Alkalinity, Total (as CaCO3)	mg/L	102	117	30	43	45	43	73	101	22	38	148	108	171	-	36	32	-
Acidity (as CaCO3)	mg/L	28.1	3.1	5	-	-	5	16	23	6.1	5.4	23.7	13.8	6.1	-	9.1	8.6	-
Total Dissolved Solids	mg/L	182	188	100	134	80	68	54	154	60	86	192	170	194	-	106	72	-
Total Suspended Solids	mg/L	26	< 10	10	< 10	< 10	< 10	14	76	13	< 10	18	< 10	< 10	-	< 10	27	-
Total Organic Carbon	mg/L	37.9	34.5	40.8	30	27.8	26.1	26.3	25.1	15.4	19.6	19.6	26	23.8	-	28.5	23.6	-
Dissolved Organic Carbon	mg/L	34.9	33.4	37.7	29.1	23.2	24.2	22.5	23.7	14.5	19.2	16.4	25.4	21.9	-	27.5	11.6	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	59.4	-	-	-	103.5
Nutrients and Anions																		
Ammonia, Total (as N)	mg/L	0.03	0.04	0.08	0.07	0.08	0.08	0.2	0.73	0.04	< 0.02	0.12	< 0.02	< 0.02	-	0.05	0.02	-
Ammonia, Un-ionized (as N)	mg/L	0.000351	0.00089	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.91	0.63	0.6	0.79	0.9	0.83	0.9	1.36	0.41	0.36	0.28	0.17	0.73	-	0.46	0.48	-
Cyanide (CN), Free	mg/L	0.001	0.001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	0.001	0.001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05	0.07	< 0.05	0.16	0.12	< 0.05	0.4	0.06	< 0.05	< 0.05	< 0.05	-	< 0.05	0.15	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Sulphate	mg/L	0.73	0.32	2.94	3.11	3.79	3.68	4.1	1.69	2.86	2.72	1.15	1.71	1.18	-	3.78	2.64	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	0.008	0.008	0.067	0.053	0.044	0.1	0.046	0.028	0.01	0.013	< 0.02	-	0.03	0.04	-
Total Metals																		
Aluminum-T	mg/L	0.284	0.111	0.795	1.06	1.32	1.03	1.6	2.3	1.64	1.05	0.33	0.092	0.05	-	1.13	1.38	-
Antimony-T	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.005	0.003	< 0.001	0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	0.001	0.002	0.002	0.001	-	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.00008	< 0.000016	0.000017	0.00002	0.000025	0.000027	0.00003	0.00006	0.000023	0.000023	< 0.000016	< 0.000016	< 0.000016	-	0.000024	0.000025	-
Calcium-T	mg/L	32.5	36.3	10	13.3	13.2	13.2	23	28.2	7.7	12.5	46.5	38.4	52.5	-	13.1	11.6	-
Chromium-T	mg/L	< 0.0025	0.0014	0.0025	0.003	0.0044	0.0042	0.0044	0.008	0.0046	0.0028	0.0017	0.0008	< 0.0005	-	0.0034	0.0041	-

STATION		US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1
	Units	20-Jul-22	15-Aug-22	20-Sep-22	17-Oct-22	22-Nov-22	22-Nov-22	13-Dec-22	22-Mar-23	24-Apr-23	8-May-23	14-Jun-23	12-Jul-23	18-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	20-Feb-24
Cobalt-T	mg/L	0.00493	0.0039	0.00034	0.00082	0.00081	0.00071	0.00198	0.0064	0.00088	0.00066	0.00273	0.00095	0.00214	-	0.00067	0.00062	-
Copper-T	mg/L	0.0118	0.0062	0.0059	0.0101	0.0102	0.0103	0.0128	0.0277	0.0141	0.0183	0.0118	0.0124	0.0038	-	0.0082	0.009	-
Iron-T	mg/L	3.9	3	0.9	1.5	1.6	1.4	3	6.4	1.7	1.1	2.6	1.3	1.7	-	1.2	1.4	-
Lead-T	mg/L	< 0.0005	0.0001	0.0005	0.0005	0.0006	0.0006	0.0008	0.0017	0.0008	0.0005	0.0003	0.0001	< 0.0001	-	0.0005	0.0006	-
Lithium-T	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	0.001	0.001	0.001	0.002	0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	0.001	0.001	-
Magnesium-T	mg/L	5.8	6.8	2.9	3.9	3.6	3.5	5.7	8.5	2.5	3	8.1	6.4	8.1	-	3.5	3.2	-
Manganese-T	mg/L	2.9	2.21	0.045	0.145	0.169	0.166	0.664	1.99	0.07	0.122	1.79	0.444	2.89	-	0.097	0.059	-
Mercury-T	mg/L	-	-	0.0000093	0.000034	0.000016	0.000016	0.000023	0.000021	0.0000175	0.0000155	0.0000135	0.0000156	0.0000062	-	0.0000105	0.000014	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	0.00000662	-	-	-	0.00000247	-	0.00000269	0.00000066	0.00000045	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	0.019	0.01	< 0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.002	0.006	0.006	0.006	-	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.003	0.005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus-T	mg/L	0.106	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	1.4	-	2.1	2.2	2.1	2.3	2.7	1.6	3	1	1.3	1.7	-	1.4	1.2	-
Selenium-T	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-T	mg/L	3.5	3.9	3.5	5.3	5.4	4.8	7	7	5.6	3.3	3.6	2.2	3.4	-	4.8	5.5	-
Silver-T	mg/L	< 0.00025	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-T	mg/L	2.7	3.6	1.9	2.2	2.1	2	2.6	3.1	1.3	1.3	1.9	2.4	2.6	-	1.6	2.8	-
Strontium-T	mg/L	0.111	0.125	0.054	0.06	0.054	0.054	0.083	0.11	0.031	0.045	0.137	0.114	0.146	-	0.051	0.038	-
Thallium-T	mg/L	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.013	0.006	0.025	0.035	0.044	0.033	0.058	0.09	0.06	0.037	0.014	0.004	0.002	-	0.033	0.041	-
Uranium-T	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.005	0.001	0.002	0.002	0.002	0.002	0.003	0.007	0.003	0.002	0.002	< 0.001	< 0.001	-	0.002	0.002	-
Zinc-T	mg/L	< 0.02	< 0.004	< 0.004	0.005	0.004	< 0.004	0.007	0.013	0.005	< 0.004	< 0.004	< 0.004	< 0.004	-	0.004	0.005	-
Zirconium-T	mg/L	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Dissolved Metals																		
Aluminum-D	mg/L	0.08	0.074	0.46	0.266	0.39	0.331	1.16	0.161	0.654	0.193	0.042	0.039	0.021	-	0.309	0.35	-
Antimony-D	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.005	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.002	0.001	0.001	-	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.00008	< 0.000016	< 0.000016	< 0.000016	0.000018	0.000019	0.000019	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	0.00002	< 0.000016	-
Calcium-D	mg/L	33.8	37.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.0025	0.0011	0.002	0.0013	0.0013	0.0014	0.0024	0.0012	0.0016	0.001	0.0008	0.0009	< 0.0005	-	0.0012	0.0018	-
Cobalt-D	mg/L	0.00421	0.00368	0.00029	0.00041	0.00045	0.00042	0.00098	0.00395	0.00032	0.00031	0.00201	0.00083	0.00234	-	0.00028	0.0002	-
Copper-D	mg/L	0.0071	0.0043	0.0075	0.0067	0.0073	0.0071	0.0097	0.0027	0.0109	0.0139	0.0064	0.0095	0.0026	-	0.0059	0.0053	-
Iron-D	mg/L	2.5	1.9	0.6	0.7	0.7	0.7	1.3	3.5	0.6	0.4	1.4	0.7	0.6	-	0.6	0.5	-
Lead-D	mg/L	< 0.0005	< 0.0001	0.0004	0.0002	0.0002	0.0002	0.0005	0.0002	0.0004	0.0002	0.0001	< 0.0001	< 0.0001	-	0.0002	0.0002	-

STATION		US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1	US1
	Units	20-Jul-22	15-Aug-22	20-Sep-22	17-Oct-22	22-Nov-22	22-Nov-22	13-Dec-22	22-Mar-23	24-Apr-23	8-May-23	14-Jun-23	12-Jul-23	18-Aug-23	20-Sep-23	31-Oct-23	20-Nov-23	20-Feb-24
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Magnesium-D	mg/L	6.5	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	2.56	2.02	0.05	0.13	0.153	0.153	0.631	2.03	0.056	0.104	1.49	0.408	2.77	-	0.088	0.046	-
Mercury-D	mg/L	-	-	0.000008	0.000017	0.0000095	0.0000098	0.000016	0.00001	0.0000061	0.0000071	0.000005	0.0000096	0.0000039	-	0.0000041	0.0000085	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	0.017	0.009	0.001	0.001	0.001	0.001	0.002	0.001	0.003	0.002	0.006	0.006	0.006	-	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-D	mg/L	3.27	3.87	3.5	3.61	3.38	3.29	4.07	4.77	3.18	1.93	3.27	2.05	3.36	-	4.1	3.87	-
Silver-D	mg/L	< 0.00025	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-D	mg/L	2.5	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.108	0.123	0.048	0.059	0.053	0.052	0.085	0.101	0.029	0.041	0.131	0.109	0.16	-	0.044	0.038	-
Thallium-D	mg/L	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	0.005	0.005	0.012	0.008	0.01	0.008	0.042	0.008	0.022	0.006	0.002	0.002	0.001	-	0.007	0.008	-
Uranium-D	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-D	mg/L	0.001	0.001	0.001	< 0.001	< 0.001	< 0.001	0.002	0.002	0.001	0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.02	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005	< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	-
Zirconium-D	mg/L	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-

STATION		STATION		US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2
	Units		Units	30-Apr-21	18-May-21	18-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	15-Dec-21	15-Mar-22	20-Apr-22	17-May-22	14-Jun-22	18-Jul-22
Field Parameters		**Field Parameters**															
Temperature	°C	**Temperature**	°C	4.3	9.6	8.6	15	11	12	15	0.9	0.2	0.2	0.1	13	12	13
pH	s.u.	**pH**	s.u.	6.9	7.7	6.8	7.6	6.7	8	7.4	7.2	8	6.8	7.4	7.5	7	6.8
Conductivity	µS/cm	**Conductivity**	µS/cm	99.7	126	236	94.8	277	126	95.6	133	146	323	65.5	63.4	80.5	135
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	12.6	9.51	2.02	8.84	0.68	8.28	8.46	12.3	11.3	5.16	14	9.48	9.73	7.98
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	96.3	85.4	17	89.6	6.4	78.2	84	86.5	77.7	34.3	95.4	90.2	88.2	75.3
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	59.5	76.7	38.3	68.5	-	-	34.7	87.8	170	46.9	50.1	24	58.9	11.1
Lab Parameters		**Lab Parameters**															
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	44.6	61.7	64.8	52.9	73.3	57.9	50.7	71.4	68.8	160	34	37.2	59.6	64
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	43	62	75	44	68	51	41	62	74	159	22	29	41	61
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 2	-	-	-	-	-	-	-	-	45	7	11	10	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	83	110	110	150	108	102	134	100	106	136	76	88	108	94
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	32	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	48	22	< 10	< 10	< 10
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	18	21	8.4	36.5	12	25.6	42.7	16.6	18.6	7.8	24.7	30.3	34.2	14.1
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	18	20.4	7.1	35.5	11.5	25.4	19.8	16	18.7	7.2	23	29.2	32.2	12.7
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**															
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.1	0.05	0.14	0.05	0.13	0.05	0.03	0.08	0.08	0.51	< 0.02	< 0.02	0.03	0.09
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	< 0.001	0.00058	0.000383	0.000378	0.000981	0.000689	0.000211	0.000516	0.000544	0.00394	< 0.000002	< 0.000002	0.000271	0.00157
Chloride	mg/L	**Chloride**	mg/L	2	0.36	0.4	0.3	0.24	0.23	0.54	0.58	0.43	1.07	0.28	0.22	0.13	0.28
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	**Fluoride**	mg/L	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.12	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06	< 0.05	0.95	< 0.05	< 0.05	< 0.05
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	**Sulphate**	mg/L	< 2	2.57	7.94	1.46	7.04	3.4	2.28	3	2.81	1.2	3.01	1.72	1.4	5.4
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals		**Total Metals**															
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.29	-	0.108	0.645	0.112	0.331	0.874	-	0.334	0.483	0.653	0.588	0.665	0.166
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	0.0214	0.022	0.017	0.02	0.015	0.019	0.02	0.016	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	**Beryllium-T**	mg/L	0.00001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	**Boron-T**	mg/L	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	0.000017	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	0.000027	0.000031	0.000033	0.00004	0.000025
Calcium-T	mg/L	**Calcium-T**	mg/L	13.3	-	-	-	-	-	-	-	-	43.8	9.88	10.9	13.6	18.1
Chromium-T	mg/L	**Chromium-T**	mg/L	0.00107	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0013	0.002	0.0016	0.0016	0.0021	0.0014

STATION		STATION		US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2
	Units		Units	30-Apr-21	18-May-21	18-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	15-Dec-21	15-Mar-22	20-Apr-22	17-May-22	14-Jun-22	18-Jul-22
Cobalt-T	mg/L	**Cobalt-T**	mg/L	0.000234	< 0.0005	0.0006	0.0005	0.0007	0.0006	< 0.0005	< 0.0005	< 0.0009	0.0016	< 0.0009	0.00024	0.00036	0.00057
Copper-T	mg/L	**Copper-T**	mg/L	0.0019	0.002	0.001	0.003	< 0.001	0.002	0.003	0.001	0.0016	0.0012	0.0034	0.003	0.0031	0.0015
Iron-T	mg/L	**Iron-T**	mg/L	0.531	0.616	2.75	1.3	1.56	1.67	1.02	1.35	1	14.9	0.6	0.5	0.9	1.4
Lead-T	mg/L	**Lead-T**	mg/L	0.00015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0002	0.0004	0.0002	0.0002	0.0003	< 0.0001
Lithium-T	mg/L	**Lithium-T**	mg/L	0.0003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	0.002	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-T	mg/L	**Magnesium-T**	mg/L	2.8	-	-	-	-	-	-	-	-	11	2.4	2.2	3	4.5
Manganese-T	mg/L	**Manganese-T**	mg/L	0.0539	0.079	0.412	0.088	0.253	0.144	0.04	0.12	0.156	0.582	0.029	0.029	0.057	0.221
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.000008	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	0.00000029	0.00000044	0.000000392	0.00000059	0.00000027	0.00000035	0.00000019	0.00000011	0.00000055	0.00000011	0.00000027	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	0.0003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	**Nickel-T**	mg/L	0.001	< 0.003	< 0.003	0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.017	0.014	0.044	0.04	0.01	0.015	0.073	0.012	0.021	0.036	0.026	0.017	0.137	0.04
Potassium-T	mg/L	**Potassium-T**	mg/L	0.651	-	-	-	-	-	-	-	-	-	-	-	< 0.6	-
Selenium-T	mg/L	**Selenium-T**	mg/L	0.00009	< 0.002	< 0.002	< 0.002	0.004	< 0.002	< 0.002	0.001	0.0047	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	**Silicon-T**	mg/L	1.79	2.2	5.88	4.02	5.69	4.64	6.57	4.31	-	9.1	4.16	2.1	2.9	6.1
Silver-T	mg/L	**Silver-T**	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	**Sodium-T**	mg/L	2.41	-	-	-	-	-	-	-	3.1	2.5	1.56	1.47	1.6	2.3
Strontium-T	mg/L	**Strontium-T**	mg/L	0.0259	0.037	0.088	0.031	0.059	0.036	0.027	0.04	-	0.065	0.017	0.02	0.029	0.061
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	**Tin-T**	mg/L	0.00016	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	0.008	< 0.002	0.015	0.016	0.011	0.004	0.02	< 0.01	0.009	0.019	0.013	0.01	0.012	0.004
Uranium-T	mg/L	**Uranium-T**	mg/L	0.000028	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	**Vanadium-T**	mg/L	0.00078	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	0.002	0.001	0.001	0.001	< 0.001
Zinc-T	mg/L	**Zinc-T**	mg/L	0.008	0.009	0.041	0.014	0.025	0.025	< 0.02	< 0.02	0.01	0.024	0.008	0.006	0.011	0.032
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals		**Dissolved Metals**															
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.155	0.126	0.032	0.386	0.045	0.303	0.5	0.097	0.102	0.046	0.426	0.459	0.524	0.135
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.0004	< 0.003	< 0.003	< 0.001	< 0.001	0.02	< 0.001	0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005
Barium-D	mg/L	**Barium-D**	mg/L	0.0204	0.02	0.013	0.016	0.014	0.017	0.016	0.013	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25
Beryllium-D	mg/L	**Beryllium-D**	mg/L	0.000011	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025
Bismuth-D	mg/L	**Bismuth-D**	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	**Boron-D**	mg/L	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05
Cadmium-D	mg/L	**Cadmium-D**	mg/L	0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	0.000024	0.000033	0.000036	< 0.00008
Calcium-D	mg/L	**Calcium-D**	mg/L	13.2	-	-	-	-	-	-	-	-	39.7	9.37	10.3	13.3	15.7
Chromium-D	mg/L	**Chromium-D**	mg/L	0.001	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0005	0.0008	0.0012	0.0013	0.0017	< 0.0025
Cobalt-D	mg/L	**Cobalt-D**	mg/L	0.000179	< 0.0005	0.0006	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0009	0.0014	< 0.00001	0.0002	0.00021	0.0005
Copper-D	mg/L	**Copper-D**	mg/L	0.002	0.002	< 0.001	0.003	< 0.001	0.002	0.003	0.001	< 0.0008	< 0.0008	0.0021	0.0028	0.0024	< 0.004
Iron-D	mg/L	**Iron-D**	mg/L	0.352	0.473	2.29	0.884	1.13	1.23	0.625	1.13	0.8	14.3	0.4	0.4	0.7	0.7
Lead-D	mg/L	**Lead-D**	mg/L	< 0.00009	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002	< 0.0001	0.0001	0.0002	0.0002	< 0.0005

STATION		STATION		US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2	US2
	Units		Units	30-Apr-21	18-May-21	18-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	15-Dec-21	15-Mar-22	20-Apr-22	17-May-22	14-Jun-22	18-Jul-22
Lithium-D	mg/L	**Lithium-D**	mg/L	0.0003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	**Magnesium-D**	mg/L	2.83	-	-	-	-	-	-	-	-	10.7	2.26	2.3	2.8	4.1
Manganese-D	mg/L	**Manganese-D**	mg/L	0.0495	0.062	0.392	0.077	0.232	0.138	0.034	0.11	0.161	0.593	0.023	0.009	0.054	0.008
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	< 0.01	-	-	-	-	< 0.01	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	0.00028	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005
Nickel-D	mg/L	**Nickel-D**	mg/L	0.0009	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	0.009	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	0.641	-	-	-	-	-	-	-	-	-	-	-	< 0.6	-
Selenium-D	mg/L	**Selenium-D**	mg/L	0.00009	< 0.004	< 0.004	< 0.001	< 0.001	0.003	< 0.001	0.003	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025
Silicon-D	mg/L	**Silicon-D**	mg/L	1.7	2.17	5.63	3.63	6.24	3.6	4.95	3.75	-	8.6	3.78	2.15	2.73	6.11
Silver-D	mg/L	**Silver-D**	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00025
Sodium-D	mg/L	**Sodium-D**	mg/L	2.42	-	-	-	-	-	-	-	3.1	2.7	1.4	1.5	1.1	2.5
Strontium-D	mg/L	**Strontium-D**	mg/L	0.0253	0.043	0.066	0.028	0.068	0.03	0.024	0.032	-	0.067	0.017	0.02	0.028	0.059
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0005
Tin-D	mg/L	**Tin-D**	mg/L	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	0.00358	< 0.002	0.008	0.007	0.003	< 0.002	0.009	< 0.002	0.003	0.001	0.006	0.005	0.008	< 0.005
Uranium-D	mg/L	**Uranium-D**	mg/L	0.000022	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005
Vanadium-D	mg/L	**Vanadium-D**	mg/L	0.00057	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	**Zinc-D**	mg/L	0.007	0.008	0.044	0.013	0.018	0.017	0.007	0.009	0.006	0.021	0.007	0.006	0.009	0.036
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.01	0.00044	< 0.01	< 0.01	< 0.01

STATION		US2	US2	US2	US2	US2	US2	US2	US2	US2
	Units	22-Aug-22	20-Sep-22	18-Oct-22	22-Nov-22	15-Dec-22	10-May-23	21-Aug-23	2-Nov-23	21-Feb-24
Field Parameters										
Temperature	°C	10.7	12.2	6.3	0.1	0.9	13.4	14	1.9	0.4
pH	s.u.	7.46	7.4	7.3	8.09	7.79	7.42	7.62	8.03	6.94
Conductivity	µS/cm	224.3	62.8	90.5	26.7	157.5	71.8	149.7	69.9	148.5
Dissolved Oxygen	mg/L	7.12	9.54	11.1	13.86	11.73	9.33	9.01	12.64	11.37
Dissolved Oxygen %	%	64.2	89	89.4	94	82	89.3	87.4	91.3	78.7
Oxidation-Reduction Potential	mV	54.4	-	-	-	-	-	-	-	-
Lab Parameters										
pH	s.u.	-	6.93	7.37	7.14	7.49	7.66	6.93	6.52	-
Turbidity	NTU	-	-	-	-	-	3.3	6.8	6.2	-
Hardness (as CaCO3)	mg/L	-	38.8	44.5	50.7	72	36.4	-	38.7	-
Alkalinity, Total (as CaCO3)	mg/L	-	26	45	48	69	36	68	32	-
Acidity (as CaCO3)	mg/L	-	6	-	5	8	5.7	5.4	8.7	-
Total Dissolved Solids	mg/L	-	94	100	80	108	840	100	66	-
Total Suspended Solids	mg/L	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Total Organic Carbon	mg/L	-	49.5	28.8	21.2	16	24.6	9.8	24.4	-
Dissolved Organic Carbon	mg/L	-	49.4	28.1	20.6	14	23.8	7.6	23.7	-
Oxidation-Reduction Potential	mV	-	134.5	206	149.9	226.7	205.8	-	-	-
Nutrients and Anions										
Ammonia, Total (as N)	mg/L	-	0.03	< 0.02	0.06	0.2	0.02	0.22	< 0.02	-
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	0.28	-	0.31	0.32	0.19	0.32	0.41	-
Cyanide (CN), Free	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	-	< 0.05	< 0.05	0.11	< 0.05	0.06	< 0.05	< 0.05	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	-	1.51	1.55	2.71	4.32	1.98	3.31	2.42	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	0.01	< 0.006	0.007	0.023	0.04	< 0.02	< 0.02	-
Total Metals										
Aluminum-T	mg/L	-	0.888	0.499	0.849	0.374	0.411	0.075	0.65	-
Antimony-T	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Boron-T	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	-	0.000045	0.000021	0.00003	0.00002	0.000023	< 0.000016	0.00003	-
Calcium-T	mg/L	-	11.1	12.7	14.7	20.1	10.6	-	11.2	-
Chromium-T	mg/L	-	0.0021	0.0015	0.0024	0.0015	0.0013	0.0008	0.0022	-

STATION		US2	US2	US2	US2	US2	US2	US2	US2	US2
	Units	22-Aug-22	20-Sep-22	18-Oct-22	22-Nov-22	15-Dec-22	10-May-23	21-Aug-23	2-Nov-23	21-Feb-24
Cobalt-T	mg/L	-	0.00037	0.00048	0.00052	0.00075	0.00025	0.00071	0.00035	-
Copper-T	mg/L	-	0.0035	0.0023	0.0021	0.0015	0.0025	0.0009	0.0033	-
Iron-T	mg/L	-	0.8	0.7	1.3	1.9	0.5	1.8	0.6	-
Lead-T	mg/L	-	0.0004	0.0002	0.0004	0.0002	0.0002	< 0.0001	0.0004	-
Lithium-T	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Magnesium-T	mg/L	-	2.5	3.1	3.4	5.3	2.4	-	2.6	-
Manganese-T	mg/L	-	0.03	0.031	0.091	0.251	0.036	0.392	0.042	-
Mercury-T	mg/L	-	0.0000078	0.0000042	-	0.0000061	0.0000061	< 0.0000025	0.0000062	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	0.00000014	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-T	mg/L	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	-	1.2	0.6	0.6	0.7	-	0.6	-
Selenium-T	mg/L	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	-	4.2	4.2	6	6.4	1.6	-	3.9	-
Silver-T	mg/L	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	-	1.7	1.6	1.8	2.3	1.4	2.4	1.7	-
Strontium-T	mg/L	-	0.021	0.026	0.031	0.047	0.024	-	0.023	-
Thallium-T	mg/L	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	0.016	0.011	0.024	0.012	0.009	0.002	0.012	-
Uranium-T	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	-	0.001	< 0.001	0.001	0.001	< 0.001	-	< 0.001	-
Zinc-T	mg/L	-	0.006	0.005	0.008	0.015	0.005	0.022	0.006	-
Zirconium-T	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-
Dissolved Metals										
Aluminum-D	mg/L	-	0.727	0.365	0.342	0.133	0.306	0.053	0.465	-
Antimony-D	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Boron-D	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	-	0.000037	0.00002	0.000021	< 0.000016	0.000024	< 0.000016	0.000024	-
Calcium-D	mg/L	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	-	0.0017	0.0012	0.0011	0.0011	0.0011	0.0019	0.0014	-
Cobalt-D	mg/L	-	0.00029	0.00021	0.00031	0.00065	0.00019	0.00064	0.00027	-
Copper-D	mg/L	-	0.0032	0.003	0.0015	0.0008	0.0019	< 0.0008	0.0019	-
Iron-D	mg/L	-	0.6	0.4	0.7	1.5	0.4	1	0.5	-
Lead-D	mg/L	-	0.0004	0.0002	0.0001	< 0.0001	0.0002	< 0.0001	0.0002	-

STATION		US2	US2	US2	US2	US2	US2	US2	US2	US2
	Units	22-Aug-22	20-Sep-22	18-Oct-22	22-Nov-22	15-Dec-22	10-May-23	21-Aug-23	2-Nov-23	21-Feb-24
Lithium-D	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Magnesium-D	mg/L	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	-	0.026	< 0.005	0.082	0.245	0.036	0.371	0.038	-
Mercury-D	mg/L	-	0.0000079	0.0000031	0.00000125	0.0000054	0.0000058	0.00000125	0.0000049	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	-	4.08	4.1	4.34	5.65	1.93	-	4.06	-
Silver-D	mg/L	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	-	0.021	0.026	0.031	0.047	0.025	-	0.021	-
Thallium-D	mg/L	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	0.01	0.006	0.006	0.003	0.005	0.002	0.007	-
Uranium-D	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	-	0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Zinc-D	mg/L	-	0.005	0.007	0.006	0.013	0.005	0.018	< 0.004	-
Zirconium-D	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-

STATION		STATION		US4	US4	US4	US4	US4	US4	US4	US4	US4	US4
	Units		Units	19-Nov-21	17-May-22	22-Aug-22	23-Nov-22	21-Mar-23	8-May-23	9-May-23	17-Aug-23	31-Oct-23	20-Feb-24
Field Parameters		**Field Parameters**											
Temperature	°C	**Temperature**	°C	0.9	13	16.9	0.1	0	13.3	10	15.9	1	0
pH	s.u.	**pH**	s.u.	6.6	6.5	7.29	7.9	7.19	6.51	7.82	7.62	8.25	7.45
Conductivity	µS/cm	**Conductivity**	µS/cm	48.7	41.4	103.8	41.8	53.7	96.3	35.9	62.3	35	6.7
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	10.1	7.34	4.44	13.12	10.67	13.26	8.25	5.09	12.28	10.81
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	70.9	69.7	45.8	90	72.2	125.8	73.2	51	84.8	73.9
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	204	273	190.8	-	-	216.4	220.8	-	-	-
Lab Parameters		**Lab Parameters**											
pH	s.u.	**pH**	s.u.	-	-	-	6.92	6.85	7.43	7.15	6.89	6.24	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	3.6	30.7	0.5	1.8	2.3	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	24.4	22.3	-	20.7	23.7	52.1	17.4	34.6	19.5	-
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	24	21	-	17	25	43	16	36	13	-
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	-	9	-	-	5	< 5.0	< 5.0	7.6	6.9	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	48	28	-	52	50	94	36	66	54	-
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 10	< 10	-	< 10	14	< 10	< 10	< 10	< 10	-
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	13.3	14.5	-	12.4	7.4	14.7	12.3	15.7	15.5	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	12.6	14.6	-	12.2	7.1	14.4	12.1	15	15.4	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	232.9	234.9	121.4
Nutrients and Anions		**Nutrients and Anions**											
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	0.08	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	-
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	0.000127	< 0.000002	-	-	-	-	-	-	-	-
Chloride	mg/L	**Chloride**	mg/L	0.18	0.14	-	0.16	0.23	0.32	0.12	0.14	0.26	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	**Fluoride**	mg/L	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.14	< 0.05	-	0.09	0.22	0.1	< 0.05	< 0.05	< 0.05	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	**Sulphate**	mg/L	1.32	0.8	-	1.18	1.82	1.94	1.06	0.24	1.28	-
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	< 0.006	0.015	0.009	0.007	< 0.02	< 0.02	-
Total Metals		**Total Metals**											
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.134	0.153	-	0.111	0.079	1.1	0.121	0.06	0.155	-
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.003	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	**Barium-T**	mg/L	0.003	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-T	mg/L	**Boron-T**	mg/L	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-T	mg/L	**Calcium-T**	mg/L	-	6.7	-	6.3	7.2	15.1	5.3	10.9	6	-
Chromium-T	mg/L	**Chromium-T**	mg/L	< 0.003	< 0.0005	-	0.0014	0.0014	0.0025	0.0006	< 0.0005	0.0007	-

STATION		STATION		US4	US4	US4	US4	US4	US4	US4	US4	US4	US4
	Units		Units	19-Nov-21	17-May-22	22-Aug-22	23-Nov-22	21-Mar-23	8-May-23	9-May-23	17-Aug-23	31-Oct-23	20-Feb-24
Cobalt-T	mg/L	**Cobalt-T**	mg/L	< 0.0005	0.00017	-	0.00016	0.00032	0.00042	0.0001	0.0005	0.00007	-
Copper-T	mg/L	**Copper-T**	mg/L	0.001	0.0015	-	0.001	0.001	0.0031	0.0018	0.001	0.0015	-
Iron-T	mg/L	**Iron-T**	mg/L	0.338	0.2	-	0.2	0.6	0.9	0.1	0.4	0.1	-
Lead-T	mg/L	**Lead-T**	mg/L	< 0.001	< 0.0001	-	0.0001	0.0002	0.0004	0.0001	0.0002	< 0.0001	-
Lithium-T	mg/L	**Lithium-T**	mg/L	< 0.01	< 0.001	-	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	1.2	-	1.2	1.4	3.5	1	1.8	1.1	-
Manganese-T	mg/L	**Manganese-T**	mg/L	0.04	0.01	-	0.015	0.071	0.026	0.005	0.208	< 0.005	-
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	-	0.0000089	< 0.0000025	0.0000057	0.0000037	< 0.0000025	0.0000034	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	0.00000015	-	-	0.00000019	0.00000014	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	0.00000014	0.00000026	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.021	0.011	-	-	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	< 0.6	< 0.6	2.5	< 0.6	< 0.6	< 0.6	-
Selenium-T	mg/L	**Selenium-T**	mg/L	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	**Silicon-T**	mg/L	2.87	0.8	-	3.2	4	3.9	0.5	2.6	2.7	-
Silver-T	mg/L	**Silver-T**	mg/L	< 0.0001	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	0.9	-	1.5	1.1	1.4	0.9	1.2	0.8	-
Strontium-T	mg/L	**Strontium-T**	mg/L	0.012	0.011	-	0.01	0.012	0.031	0.01	0.019	0.009	-
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.0003	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	**Tin-T**	mg/L	< 0.002	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	< 0.01	0.002	-	0.001	< 0.001	0.037	0.002	< 0.001	0.001	-
Uranium-T	mg/L	**Uranium-T**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	-
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.02	< 0.004	-	< 0.004	< 0.004	< 0.004	0.004	< 0.004	< 0.004	-
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.004	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Dissolved Metals		**Dissolved Metals**											
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.078	0.119	-	0.097	0.054	0.109	0.088	0.042	0.116	-
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	**Barium-D**	mg/L	0.003	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-D	mg/L	**Boron-D**	mg/L	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	< 0.0001	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	6.7	-	-	-	-	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	< 0.003	< 0.0005	-	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005	< 0.0005	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	< 0.0005	0.00019	-	0.00009	0.00007	0.00007	< 0.00006	0.00039	< 0.00006	-
Copper-D	mg/L	**Copper-D**	mg/L	< 0.001	0.0011	-	0.0013	< 0.0008	0.0016	< 0.0008	< 0.0008	0.0009	-
Iron-D	mg/L	**Iron-D**	mg/L	0.045	0.1	-	0.1	< 0.1	0.1	< 0.1	0.2	0.1	-
Lead-D	mg/L	**Lead-D**	mg/L	< 0.0005	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-

STATION		STATION		US4	US4	US4	US4	US4	US4	US4	US4	US4	US4
	Units		Units	19-Nov-21	17-May-22	22-Aug-22	23-Nov-22	21-Mar-23	8-May-23	9-May-23	17-Aug-23	31-Oct-23	20-Feb-24
Lithium-D	mg/L	**Lithium-D**	mg/L	< 0.01	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	1.2	-	-	-	-	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	0.005	< 0.005	-	< 0.005	0.007	0.009	< 0.005	0.186	< 0.005	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	0.0000049	< 0.0000025	0.0000026	0.0000029	< 0.0000025	0.0000027	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	**Nickel-D**	mg/L	< 0.001	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	**Silicon-D**	mg/L	3.02	0.743	-	3	4.33	2.38	0.653	2.72	2.93	-
Silver-D	mg/L	**Silver-D**	mg/L	< 0.0001	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	0.9	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	0.012	0.011	-	0.011	0.013	0.027	0.009	0.017	0.008	-
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.0003	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	**Tin-D**	mg/L	< 0.002	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	-
Uranium-D	mg/L	**Uranium-D**	mg/L	< 0.0005	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-D	mg/L	**Zinc-D**	mg/L	< 0.005	< 0.004	-	0.006	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.004	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-

STATION		STATION		US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5
	Units		Units	30-Apr-21	17-May-21	17-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	14-Dec-21	19-Apr-22	16-May-22	13-Jun-22	20-Jul-22	15-Aug-22
Field Parameters		**Field Parameters**															
Temperature	°C	**Temperature**	°C	7.2	14	18	20	19	14	15	1.5	0.2	0.8	17	17	20	16.4
pH	s.u.	**pH**	s.u.	7.9	7.9	7.8	7.4	7.8	7.8	7.2	7.6	7.3	7	6.9	7.6	7.2	6.63
Conductivity	µS/cm	**Conductivity**	µS/cm	123	137	206	131	169	154	153	171	177	97.7	163	140	172	169.5
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	10.2	9.38	6.34	7.05	6.04	7.99	9.23	13.1	10.4	11.3	8.66	8.86	5.12	4.98
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	84	93.5	65.6	81	64.9	77.1	90.6	93.6	71.4	79.3	90.4	92.7	55.6	50.8
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	139	133	148	158	87.7	176	150	158	122	278	224	87.2	16.8	75.8
Lab Parameters		**Lab Parameters**															
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	148	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	67.6	77.6	109	72.7	89.2	81	81.2	88.9	93.1	57.1	64.9	-	87	89
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	60	70	113	66	91	68	63	84	95	41	72	87	81	80
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 2	-	-	-	-	-	-	-	-	5	8	7	-	0.6
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	125	112	154	112	118	134	132	118	122	64	112	128	124	112
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	24	30	23	16	10	21	42	< 10	< 10	15	< 10	17	17	28
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	14	15	17.5	23.9	23.6	23.2	25.8	14.7	16.2	15.3	15.9	19.4	23.6	18.2
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	13	12.3	16.9	21.8	21.9	21.5	23.4	14	15.6	15.1	13.6	18.8	20.7	18
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**															
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.1	0.09	< 0.02	< 0.02	0.03	0.03	0.03	< 0.02	0.12	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	< 0.001	0.00102	< 0.000002	< 0.000002	0.000477	0.000485	0.000463	< 0.000002	0.00172	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002
Chloride	mg/L	**Chloride**	mg/L	3	0.34	0.31	0.42	0.13	0.27	0.44	0.42	0.44	1.27	5.08	1.08	0.35	0.35
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	**Fluoride**	mg/L	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.24	< 0.05	0.06	< 0.05	0.09	< 0.05	0.13	0.14	0.14	0.95	0.09	0.06	0.08	0.09
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	**Sulphate**	mg/L	5	2.31	1.27	1.39	0.85	2.22	1.81	1.9	2.05	2.43	11.5	1.58	0.62	0.6
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals		**Total Metals**															
Aluminum-T	mg/L	**Aluminum-T**	mg/L	4.21	-	1.47	1.66	0.826	3.51	3.08	-	0.885	4.82	0.589	1.03	0.618	0.672
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	0.0589	0.046	0.021	0.023	0.018	0.036	0.033	0.018	0.018	0.15	0.17	0.41	< 0.25	0.05
Beryllium-T	mg/L	**Beryllium-T**	mg/L	0.000113	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	0.00002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Boron-T	mg/L	**Boron-T**	mg/L	0.005	0.013	< 0.01	0.012	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.05	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	0.000042	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000032	0.000053	0.000022	< 0.00008	< 0.000016
Calcium-T	mg/L	**Calcium-T**	mg/L	18.7	-	-	-	-	-	-	-	-	15.8	21.6	22	26	25.9
Chromium-T	mg/L	**Chromium-T**	mg/L	0.0094	0.01	0.003	0.003	< 0.003	0.007	0.007	< 0.003	< 0.003	0.0098	0.0023	0.0019	< 0.0025	0.0018

STATION		STATION		US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5
	Units		Units	30-Apr-21	17-May-21	17-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	14-Dec-21	19-Apr-22	16-May-22	13-Jun-22	20-Jul-22	15-Aug-22
Cobalt-T	mg/L	**Cobalt-T**	mg/L	0.00157	0.0014	< 0.0005	0.0006	< 0.0005	0.001	0.0012	< 0.0005	< 0.0005	0.0017	< 0.0009	0.00045	0.00028	0.00045
Copper-T	mg/L	**Copper-T**	mg/L	0.0055	0.008	0.002	0.003	0.001	0.004	0.004	0.002	0.001	0.0065	0.0028	0.0032	< 0.004	0.0021
Iron-T	mg/L	**Iron-T**	mg/L	3.49	3.58	1.24	1.27	0.76	2.44	2.68	1.13	1.36	4.6	0.6	1	0.7	0.8
Lead-T	mg/L	**Lead-T**	mg/L	0.00197	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.0011	0.0004	0.0004	< 0.0005	0.0003
Lithium-T	mg/L	**Lithium-T**	mg/L	0.0032	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.003	< 0.001	0.001	< 0.005	< 0.001
Magnesium-T	mg/L	**Magnesium-T**	mg/L	5.08	-	-	-	-	-	-	-	-	4.29	4.4	4.5	5.3	5.8
Manganese-T	mg/L	**Manganese-T**	mg/L	0.0656	0.082	0.091	0.077	0.109	0.079	0.09	0.052	0.125	0.073	0.042	0.041	0.127	0.244
Mercury-T	mg/L	**Mercury-T**	mg/L	-	< 0.0001	-	-	-	-	-	-	-	-	-	< 0.000005	-	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	0.00000042	0.00000038	0.00000033	0.00000033	0.00000032	0.00000017	0.00000036	0.00000015	0.00000033	0.00000035	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	0.0001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Nickel-T	mg/L	**Nickel-T**	mg/L	0.005	0.006	< 0.003	< 0.003	< 0.003	0.005	0.005	< 0.003	< 0.003	0.006	< 0.003	< 0.003	< 0.015	< 0.003
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.052	0.11	0.058	0.013	0.141	0.027	0.02	0.054	0.03	0.064	0.021	< 0.006	0.05	0.019
Potassium-T	mg/L	**Potassium-T**	mg/L	1.52	-	-	-	-	-	-	-	-	1.6	1.2	1	-	0.8
Selenium-T	mg/L	**Selenium-T**	mg/L	0.0001	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Silicon-T	mg/L	**Silicon-T**	mg/L	9.91	11.7	3.71	5.17	3.88	10.2	9.19	5.17	5.35	10.9	2.7	3.8	3.3	3.5
Silver-T	mg/L	**Silver-T**	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00022	< 0.00005	< 0.00005	< 0.00025	< 0.00005
Sodium-T	mg/L	**Sodium-T**	mg/L	1.96	-	-	-	-	-	-	-	-	2.78	6.6	3.5	2.2	2.1
Strontium-T	mg/L	**Strontium-T**	mg/L	0.0393	0.043	0.062	0.039	0.049	0.047	0.043	0.046	0.045	0.037	0.054	0.053	0.055	0.054
Thallium-T	mg/L	**Thallium-T**	mg/L	0.000034	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0001
Tin-T	mg/L	**Tin-T**	mg/L	0.00015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	0.159	0.224	0.046	0.055	0.03	0.146	0.129	0.042	0.035	0.166	0.018	0.031	0.022	0.025
Uranium-T	mg/L	**Uranium-T**	mg/L	0.000111	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Vanadium-T	mg/L	**Vanadium-T**	mg/L	0.00688	0.007	0.003	0.003	< 0.002	0.005	0.005	< 0.002	< 0.002	0.007	0.002	0.002	< 0.005	0.001
Zinc-T	mg/L	**Zinc-T**	mg/L	0.011	0.009	< 0.005	0.005	0.009	0.008	< 0.02	< 0.02	< 0.02	0.011	0.004	0.006	< 0.02	< 0.004
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals		**Dissolved Metals**															
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.041	0.022	0.027	0.13	0.032	0.687	0.129	0.159	0.044	0.19	0.063	0.081	0.025	0.026
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.0004	< 0.003	< 0.003	< 0.001	< 0.001	0.013	< 0.001	0.009	0.005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Barium-D	mg/L	**Barium-D**	mg/L	0.0186	0.013	0.01	0.014	0.01	0.009	0.008	0.02	0.009	0.07	0.16	0.33	< 0.25	< 0.05
Beryllium-D	mg/L	**Beryllium-D**	mg/L	0.000025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Bismuth-D	mg/L	**Bismuth-D**	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	**Boron-D**	mg/L	0.004	< 0.01	< 0.01	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.05	< 0.01
Cadmium-D	mg/L	**Cadmium-D**	mg/L	0.000004	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000024	0.000045	0.000017	< 0.00008	< 0.000016
Calcium-D	mg/L	**Calcium-D**	mg/L	17.2	-	-	-	-	-	-	-	-	13.4	21	21.8	24.9	25.1
Chromium-D	mg/L	**Chromium-D**	mg/L	0.00147	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.003	0.0006	0.0005	0.0009	< 0.0025	< 0.0005
Cobalt-D	mg/L	**Cobalt-D**	mg/L	0.000312	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.00001	0.00017	0.00014	0.00012	0.00017
Copper-D	mg/L	**Copper-D**	mg/L	0.0024	0.004	< 0.001	0.002	0.003	0.001	0.002	< 0.001	< 0.001	0.0017	0.0021	0.0021	< 0.004	0.001
Iron-D	mg/L	**Iron-D**	mg/L	0.564	0.597	0.041	0.479	0.148	0.105	0.153	0.212	0.446	0.4	0.1	0.2	0.3	0.1
Lead-D	mg/L	**Lead-D**	mg/L	0.00045	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0002	0.0002	0.0001	< 0.0005	< 0.0001

STATION		STATION		US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5	US5
	Units		Units	30-Apr-21	17-May-21	17-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	14-Dec-21	19-Apr-22	16-May-22	13-Jun-22	20-Jul-22	15-Aug-22
Lithium-D	mg/L	**Lithium-D**	mg/L	0.0005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	**Magnesium-D**	mg/L	4.04	-	-	-	-	-	-	-	-	2.9	4.4	3.9	5.2	5.4
Manganese-D	mg/L	**Manganese-D**	mg/L	0.0211	0.028	0.048	0.047	0.053	0.031	0.022	0.035	0.092	0.022	< 0.005	0.021	0.098	0.147
Mercury-D	mg/L	**Mercury-D**	mg/L	-	< 0.0001	-	-	-	-	-	-	-	-	-	< 0.000005	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	< 0.01	-	-	-	-	< 0.01	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	0.00009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Nickel-D	mg/L	**Nickel-D**	mg/L	0.0011	< 0.003	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	0.01	-	-	-	-	-	-	-	-	0.12	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	0.861	-	-	-	-	-	-	-	-	0.8	-	0.7	-	0.6
Selenium-D	mg/L	**Selenium-D**	mg/L	0.00007	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Silicon-D	mg/L	**Silicon-D**	mg/L	3.23	1.79	0.77	3.77	2.18	2.42	3.15	3.46	3.74	3.55	2.06	2.22	2.39	2.26
Silver-D	mg/L	**Silver-D**	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00025	< 0.00005
Sodium-D	mg/L	**Sodium-D**	mg/L	1.53	-	-	-	-	-	-	-	-	1.9	6.7	2.6	1.8	1.5
Strontium-D	mg/L	**Strontium-D**	mg/L	0.0305	0.039	0.071	0.039	0.033	0.038	0.036	0.038	0.041	0.028	0.051	0.05	0.05	0.052
Thallium-D	mg/L	**Thallium-D**	mg/L	0.000006	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0001
Tin-D	mg/L	**Tin-D**	mg/L	0.00007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	0.9	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	0.02072	0.007	< 0.002	0.019	< 0.002	< 0.002	0.003	< 0.002	0.008	0.004	0.001	0.002	< 0.005	0.001
Uranium-D	mg/L	**Uranium-D**	mg/L	0.000058	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Vanadium-D	mg/L	**Vanadium-D**	mg/L	0.00177	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	**Zinc-D**	mg/L	0.004	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.004	0.005	< 0.004	< 0.02	< 0.004
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	0.01

STATION		US5	US5	US5	US5	US5	US5
	Units	19-Sep-22	17-Oct-22	21-Nov-22	13-Dec-22	2023-08-16	2023-10-31
Field Parameters							
Temperature	°C	13	6.3	0.1	0	15.6	1.9
pH	s.u.	-	6.9	6.11	6.7	7	7.7
Conductivity	µS/cm	66.1	126	121.4	155.6	201.7	87.8
Dissolved Oxygen	mg/L	9.22	10.9	13.35	12.83	3.58	13.01
Dissolved Oxygen %	%	87.4	88.4	91	88	36	94
Oxidation-Reduction Potential	mV	-	-	-	-	-	-
Lab Parameters							
pH	s.u.	7.46	7.65	7.5	7.23	7.34	6.54
Turbidity	NTU	-	-	-	-	157	19.2
Hardness (as CaCO3)	mg/L	54.1	61.2	59.9	82.7	-	49.2
Alkalinity, Total (as CaCO3)	mg/L	53	55	60	77	108	42
Acidity (as CaCO3)	mg/L	5	-	5	8	10.4	6.2
Total Dissolved Solids	mg/L	92	88	88	92	148	84
Total Suspended Solids	mg/L	20	< 10	32	71	174	< 10
Total Organic Carbon	mg/L	26.2	19.4	19.6	12.8	22	18.6
Dissolved Organic Carbon	mg/L	24.4	18.4	18.4	11.8	17.3	17.8
Oxidation-Reduction Potential	mV	6.96	223	339.9	292.9	-	-
Nutrients and Anions							
Ammonia, Total (as N)	mg/L	< 0.02	0.05	0.08	0.12	0.06	0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-
Chloride	mg/L	0.39	0.89	0.71	0.69	0.19	0.48
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	0.06	0.06	0.14	0.17	0.16	0.07
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	0.82	1.12	1.8	3.18	1.53	1.69
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-
Total Phosphorus	mg/L	0.044	< 0.006	0.008	0.042	0.06	0.1
Total Metals							
Aluminum-T	mg/L	1.41	0.606	1.76	2.2	7.72	1.02
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.004	< 0.001
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	0.11	< 0.05
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Cadmium-T	mg/L	< 0.000016	< 0.000016	0.000029	0.000025	0.000097	< 0.000016
Calcium-T	mg/L	15.4	17.6	18.9	24.7	-	14.6
Chromium-T	mg/L	0.0034	0.0017	0.0041	0.0065	0.0185	0.0022

STATION		US5	US5	US5	US5	US5	US5
	Units	19-Sep-22	17-Oct-22	21-Nov-22	13-Dec-22	2023-08-16	2023-10-31
Cobalt-T	mg/L	0.00056	0.00045	0.00085	0.00112	0.00493	0.00045
Copper-T	mg/L	0.0034	0.0017	0.0027	0.0026	0.0091	0.0022
Iron-T	mg/L	1.2	0.6	1.8	2.6	14	0.9
Lead-T	mg/L	0.0005	0.0002	0.0007	0.0008	0.0035	0.0003
Lithium-T	mg/L	0.001	< 0.001	0.002	0.002	-	0.001
Magnesium-T	mg/L	3.8	4.2	4.2	5.1	-	3.1
Manganese-T	mg/L	0.052	0.036	0.185	0.191	1.77	0.044
Mercury-T	mg/L	0.0000028	0.0000061	0.000015	< 0.0000025	0.0000133	0.000005
Methylmercury-T	mg/L	-	-	-	-	-	0.00000025
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	0.004	0.011	< 0.003
Phosphorus-T	mg/L	-	-	-	-	-	-
Potassium-T	mg/L	-	1.2	1.2	1.1	-	0.8
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	4.8	4.4	6.9	8.7	-	4.9
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	2.7	1.9	1.9	2.3	2.4	1.4
Strontium-T	mg/L	0.035	0.036	0.036	0.043	-	0.027
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-
Titanium-T	mg/L	0.05	0.02	0.06	0.077	0.274	0.034
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	0.002	< 0.001	0.003	0.003	-	0.001
Zinc-T	mg/L	< 0.004	< 0.004	0.007	0.007	0.022	< 0.004
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01
Dissolved Metals							
Aluminum-D	mg/L	0.177	0.073	0.141	0.736	0.021	0.153
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	0.000037	< 0.000016
Calcium-D	mg/L	-	-	-	-	-	-
Chromium-D	mg/L	0.0008	0.0009	0.0006	0.0012	0.0015	0.0006
Cobalt-D	mg/L	0.00013	0.00019	0.00017	0.00022	0.00103	0.00011
Copper-D	mg/L	0.002	0.0012	0.0011	0.0011	0.0009	0.0015
Iron-D	mg/L	0.2	0.2	0.3	0.3	0.6	0.3
Lead-D	mg/L	0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001

STATION		US5	US5	US5	US5	US5	US5
	Units	19-Sep-22	17-Oct-22	21-Nov-22	13-Dec-22	2023-08-16	2023-10-31
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Magnesium-D	mg/L	-	-	-	-	-	-
Manganese-D	mg/L	0.017	0.026	0.092	0.13	0.853	0.032
Mercury-D	mg/L	0.0000035	0.0000054	0.0000054	0.00000125	0.00000125	0.0000026
Methylmercury-D	mg/L	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	2.82	3.3	3.98	4.3	-	3.96
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	-	-	-	-	-	-
Strontium-D	mg/L	0.034	0.037	0.033	0.043	-	0.023
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-
Titanium-D	mg/L	0.006	0.002	0.004	0.025	< 0.001	0.004
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	0.001	-	< 0.001
Zinc-D	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01

STATION		STATION		US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6
	Units		Units	30-Apr-21	18-May-21	17-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	14-Dec-21	27-Jan-22	24-Feb-22	14-Mar-22	19-Apr-22	16-May-22
Field Parameters		**Field Parameters**															
Temperature	°C	**Temperature**	°C	6.9	12	14	19	15	14	15	1.5	0.3	0.1	0.1	0.1	0.3	18
pH	s.u.	**pH**	s.u.	6.7	7.8	6.8	6.4	6.8	7.3	6.5	6.5	6.6	7.3	7.9	6	5.8	6.5
Conductivity	µS/cm	**Conductivity**	µS/cm	53.9	58.5	164	69.9	107	67.9	63.8	61.9	84.3	106	123	104	34.6	49.4
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	10.9	7.15	2.7	3.03	1.37	5	5.51	9.17	6.28	8.9	9.19	14.4	11.1	8.1
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	87.4	68.5	26.3	32.7	13.6	48	54.8	65.4	43.4	61.1	62.7	104	76.4	85.8
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	77.8	57.7	24.1	86.7	74.5	51.4	122	138	112	5.1	39.5	241	220	141
Lab Parameters		**Lab Parameters**															
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	2.21	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	23.8	30.8	82	41	49.9	30.5	31.4	35.6	47.7	49.8	-	56.7	16.2	24.5
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	21	33	87	34	53	23	36	28	44	53	-	46	8	24
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 2	-	-	-	-	-	-	-	-	20	-	5	8	9
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	40	90	134	106	124	96	130	88	90	82	-	106	68	66
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	2	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	155	< 10	< 10
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	16	23.6	20.4	38.3	49	44.8	50.9	33.8	31.6	22.1	-	23	21.4	23.7
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	17	22.8	19.7	38.2	45	39.3	18.4	30.2	31.5	20.9	-	21.9	21	22.8
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**															
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.1	0.02	0.05	0.11	0.26	0.06	0.03	0.09	0.24	0.38	-	0.36	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	< 0.001	0.000115	0.000208	0.000833	0.00171	0.000276	0.000278	0.000245	0.000812	0.00124	-	0.000992	< 0.000002	< 0.000002
Chloride	mg/L	**Chloride**	mg/L	2	0.2	0.32	0.49	0.17	0.15	0.52	0.23	0.22	0.23	-	0.32	0.05	0.18
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	-	0.002	< 0.002	< 0.002
Fluoride	mg/L	**Fluoride**	mg/L	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.18	0.09	0.06	0.06	< 0.05	0.14	0.21	0.15	0.08	0.09	-	0.12	0.97	0.05
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	**Sulphate**	mg/L	< 2	0.93	2.62	0.61	0.8	0.75	0.82	0.69	1.05	1.82	-	1.49	1.14	0.92
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals		**Total Metals**															
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.413	-	0.191	0.654	0.648	0.786	0.797	-	0.527	0.351	-	2.41	0.49	0.51
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	0.0005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	-	0.001	< 0.001	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	0.00607	0.007	0.01	0.01	0.014	0.011	0.009	0.008	0.008	< 0.05	-	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	**Beryllium-T**	mg/L	0.000016	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	**Boron-T**	mg/L	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	0.00003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00003	-	0.000098	0.000048	0.000032
Calcium-T	mg/L	**Calcium-T**	mg/L	6.46	-	-	-	-	-	-	-	-	15.2	-	15.2	4.8	7.3
Chromium-T	mg/L	**Chromium-T**	mg/L	0.00108	< 0.003	< 0.003	< 0.003	0.003	0.003	< 0.003	< 0.003	< 0.003	0.0014	-	0.0053	0.001	0.0019

STATION		STATION		US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6
	Units		Units	30-Apr-21	18-May-21	17-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	14-Dec-21	27-Jan-22	24-Feb-22	14-Mar-22	19-Apr-22	16-May-22
Cobalt-T	mg/L	**Cobalt-T**	mg/L	0.000169	< 0.0005	0.0008	0.0011	0.0039	0.0011	< 0.0005	0.0007	0.0015	0.0014	-	0.0049	< 0.00001	< 0.0009
Copper-T	mg/L	**Copper-T**	mg/L	0.0018	0.003	< 0.001	0.002	0.001	0.002	0.003	0.002	0.002	< 0.0008	-	0.0027	0.0026	0.0033
Iron-T	mg/L	**Iron-T**	mg/L	0.511	0.699	2.9	1.56	4.94	2.61	0.998	1.67	1.41	1.8	-	11.6	0.4	1
Lead-T	mg/L	**Lead-T**	mg/L	0.00013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0001	-	0.0015	0.0003	0.0002
Lithium-T	mg/L	**Lithium-T**	mg/L	0.0003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	-	0.002	< 0.001	< 0.001
Magnesium-T	mg/L	**Magnesium-T**	mg/L	1.87	-	-	-	-	-	-	-	-	4.5	-	4.54	1.23	1.98
Manganese-T	mg/L	**Manganese-T**	mg/L	0.0202	0.053	0.366	0.183	0.853	0.175	0.025	0.095	0.295	0.317	-	1.04	0.033	0.066
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	0.00000061	0.00000037	0.00000072	0.00000068	0.00000045	0.00000035	0.00000036	0.00000087	0.00000148	0.00000221	0.00000235	0.00000011	0.00000074
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.00004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	**Nickel-T**	mg/L	0.0012	< 0.003	< 0.003	< 0.003	0.003	0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	0.004	< 0.003	< 0.003
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.008	0.027	0.045	0.012	0.284	0.027	0.084	0.044	0.04	0.036	-	0.566	0.02	0.044
Potassium-T	mg/L	**Potassium-T**	mg/L	0.587	-	-	-	-	-	-	-	-	-	-	-	0.9	0.7
Selenium-T	mg/L	**Selenium-T**	mg/L	0.00011	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.001	0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	**Silicon-T**	mg/L	1.12	1.44	4.06	2.38	3.69	3.62	4.49	4.08	4.79	4.6	-	7.3	2.9	1.1
Silver-T	mg/L	**Silver-T**	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	**Sodium-T**	mg/L	1.06	-	-	-	-	-	-	-	-	1.8	-	1.9	0.78	1.13
Strontium-T	mg/L	**Strontium-T**	mg/L	0.0146	0.018	0.043	0.022	0.032	0.025	0.02	0.022	0.022	0.028	-	0.028	0.011	0.018
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	**Tin-T**	mg/L	0.00019	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-
Titanium-T	mg/L	**Titanium-T**	mg/L	0.00771	0.01	0.004	0.012	0.02	0.015	0.013	0.013	< 0.01	0.006	-	0.068	0.005	0.01
Uranium-T	mg/L	**Uranium-T**	mg/L	0.000023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	**Vanadium-T**	mg/L	0.0009	< 0.002	< 0.002	< 0.002	0.003	0.003	< 0.002	< 0.002	< 0.002	< 0.001	-	0.007	< 0.001	0.002
Zinc-T	mg/L	**Zinc-T**	mg/L	0.004	0.012	< 0.005	0.006	< 0.005	0.007	< 0.02	< 0.02	< 0.02	0.004	-	0.013	0.009	0.004
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	-	< 0.01	< 0.01	< 0.01
Dissolved Metals		**Dissolved Metals**															
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.296	0.328	0.12	0.232	0.443	0.47	0.631	0.45	0.379	0.309	-	0.298	0.427	0.365
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.0005	< 0.003	< 0.003	0.001	0.001	0.017	< 0.001	0.013	0.002	< 0.001	-	< 0.001	< 0.001	< 0.001
Barium-D	mg/L	**Barium-D**	mg/L	0.00636	0.006	0.008	0.007	0.01	0.007	0.008	0.004	0.005	< 0.05	-	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	**Beryllium-D**	mg/L	0.000017	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	**Bismuth-D**	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	**Boron-D**	mg/L	0.003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	**Cadmium-D**	mg/L	0.00004	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000031	-	0.000023	0.000044	0.000022
Calcium-D	mg/L	**Calcium-D**	mg/L	6.48	-	-	-	-	-	-	-	-	13.6	-	-	4.2	6.8
Chromium-D	mg/L	**Chromium-D**	mg/L	0.00106	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	0.004	< 0.003	< 0.003	0.0011	-	0.0011	0.0008	0.0018
Cobalt-D	mg/L	**Cobalt-D**	mg/L	0.000156	< 0.0005	0.0005	0.0009	0.0011	< 0.0005	< 0.0005	< 0.0005	0.0011	0.0013	-	0.0023	< 0.00001	0.0006
Copper-D	mg/L	**Copper-D**	mg/L	0.0022	0.003	< 0.001	0.002	0.002	0.002	0.003	0.001	< 0.001	0.001	-	0.0009	0.0016	0.0025
Iron-D	mg/L	**Iron-D**	mg/L	0.46	0.402	2.16	1.09	3.14	1.21	0.734	0.787	0.876	1.7	-	1.8	0.3	0.5
Lead-D	mg/L	**Lead-D**	mg/L	< 0.00009	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0001	-	0.0001	0.0002	0.0002

STATION		STATION		US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6
	Units		Units	30-Apr-21	18-May-21	17-Jun-21	19-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	16-Nov-21	14-Dec-21	27-Jan-22	24-Feb-22	14-Mar-22	19-Apr-22	16-May-22
Lithium-D	mg/L	**Lithium-D**	mg/L	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	-	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	**Magnesium-D**	mg/L	1.94	-	-	-	-	-	-	-	-	4	-	-	1.3	2
Manganese-D	mg/L	**Manganese-D**	mg/L	0.0193	0.039	0.32	0.138	0.191	0.048	0.019	0.055	0.242	0.306	-	0.022	0.03	< 0.005
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	< 0.01	-	-	-	-	< 0.01	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	0.00005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001
Nickel-D	mg/L	**Nickel-D**	mg/L	0.0011	< 0.003	< 0.003	0.003	< 0.003	< 0.003	0.003	< 0.001	0.001	< 0.003	-	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	0.014	-	-	-	-	-	-	-	-	-	-	-	0.13	-
Potassium-D	mg/L	**Potassium-D**	mg/L	0.595	-	-	-	-	-	-	-	-	-	-	-	0.7	-
Selenium-D	mg/L	**Selenium-D**	mg/L	0.00007	< 0.004	< 0.004	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	**Silicon-D**	mg/L	1.06	1.06	3.96	2.21	3.29	2.66	3.67	3.48	4.25	5.39	-	5	2.42	0.954
Silver-D	mg/L	**Silver-D**	mg/L	< 0.00005	0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	**Sodium-D**	mg/L	1.12	-	-	-	-	-	-	-	-	1.8	-	1.4	0.7	1.1
Strontium-D	mg/L	**Strontium-D**	mg/L	0.0146	0.012	0.036	0.019	0.027	0.018	0.019	0.011	0.02	0.031	-	0.026	0.012	0.017
Thallium-D	mg/L	**Thallium-D**	mg/L	0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	**Tin-D**	mg/L	0.00011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.6	-
Titanium-D	mg/L	**Titanium-D**	mg/L	0.00551	0.014	0.01	0.007	< 0.002	0.004	0.008	0.003	0.005	0.005	-	0.004	0.003	0.005
Uranium-D	mg/L	**Uranium-D**	mg/L	0.000025	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	-	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	**Vanadium-D**	mg/L	0.00086	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	**Zinc-D**	mg/L	0.004	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.008	< 0.005	< 0.005	0.006	-	< 0.004	0.008	0.004
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	-	0.0004	< 0.01	< 0.01

STATION		US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6
	Units	13-Jun-22	19-Jul-22	15-Aug-22	19-Sep-22	17-Oct-22	21-Nov-22	13-Dec-22	20-Mar-23	24-Apr-23	8-May-23	14-Jun-23	12-Jul-23	16-Aug-23	20-Sep-23	30-Oct-23	20-Nov-23	20-Feb-24
Field Parameters																		
Temperature	°C	18	15	16	12.4	6.8	0.7	0.5	0	1.9	12.7	18.5	21.9	15.4	-	3.5	-	0.5
pH	s.u.	7.1	6.9	6.18	6.08	6.2	6.14	6.3	7.2	8.3	6.38	6.67	6.74	6.37	-	5.84	-	7.63
Conductivity	µS/cm	51.1	211	85.1	37.7	41.4	38	57.2	255.3	23.9	36.5	80.1	62.2	77.1	-	31.6	-	106.6
Dissolved Oxygen	mg/L	5.86	3.03	1.46	9	9.36	11.22	8.88	11.11	11.53	6.97	6.31	6.06	3.86	-	12.6	-	10.78
Dissolved Oxygen %	%	60.4	29.9	14.4	84.2	76.8	78	62	77.2	83.4	65.3	67.4	69.67	38.6	-	94.8	-	74.9
Oxidation-Reduction Potential	mV	68.8	-	38.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters																		
pH	s.u.	-	-	-	6.57	6.75	6.47	6.45	-	6.61	6.84	7.12	6.85	6.75	-	5.86	6.05	-
Turbidity	NTU	-	-	-	-	-	-	-	-	3.9	3.2	15.3	3.6	14.1	-	2.1	3	-
Hardness (as CaCO3)	mg/L	28	50	36	22.6	24	21	29.6	-	14.7	18.9	41.7	32.1	-	-	19.7	20.7	-
Alkalinity, Total (as CaCO3)	mg/L	28	43	31	11	15	14	25	-	8	12	44	29	40	-	7	11	-
Acidity (as CaCO3)	mg/L	11	8.2	7.4	7	5	10	19	-	8.3	7.4	8	9.4	12.5	-	12.9	12.9	-
Total Dissolved Solids	mg/L	104	154	88	90	104	70	46	-	50	62	90	90	110	-	80	78	-
Total Suspended Solids	mg/L	17	29	16	< 10	< 10	< 10	< 10	-	< 10	< 10	28	< 10	16	-	< 10	< 10	-
Total Organic Carbon	mg/L	38.8	63.1	46.1	53.6	38.8	36.2	29.2	-	17.3	23.9	24.1	29.6	27.3	-	34.3	25.9	-
Dissolved Organic Carbon	mg/L	36.1	51.6	45.6	50.8	38.6	34.6	28.4	-	15.7	22.5	23.9	27.7	24.1	-	31.3	29.8	-
Oxidation-Reduction Potential	mV	-	-	-	256.9	216	252.1	192.7	70	71.2	150.6	302.3	-	-	-	-	-	-
Nutrients and Anions																		
Ammonia, Total (as N)	mg/L	< 0.02	0.4	0.48	0.03	0.07	0.09	0.26	-	0.03	< 0.02	0.2	< 0.02	0.27	-	0.04	0.02	-
Ammonia, Un-ionized (as N)	mg/L	< 0.000002	0.00267	0.00203	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	0.2	0.27	0.44	0.25	0.36	0.24	0.23	-	0.21	0.17	0.34	0.12	0.2	-	0.25	0.22	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	0.002	0.003	0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05	0.25	0.06	0.24	0.08	-	0.55	< 0.05	< 0.05	< 0.05	< 0.05	-	0.11	0.25	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	-
Sulphate	mg/L	0.32	0.45	0.58	0.42	0.35	0.69	0.88	-	0.83	0.74	0.85	0.25	0.35	-	0.56	0.78	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	0.027	0.003	0.003	0.039	-	0.029	0.016	0.008	0.003	0.05	-	0.01	0.03	-
Total Metals																		
Aluminum-T	mg/L	0.826	0.714	0.709	0.779	0.836	0.913	0.812	-	0.425	0.527	0.377	0.237	0.329	-	0.857	0.754	-
Antimony-T	mg/L	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-T	mg/L	0.002	0.004	0.003	< 0.001	0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	0.001	0.001	0.002	-	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-T	mg/L	0.000069	0.000079	0.000064	0.000049	0.000056	0.000054	0.000062	-	0.000031	0.000041	0.000051	0.000023	0.000038	-	0.00005	0.000048	-
Calcium-T	mg/L	7.7	13.8	9.8	6.1	6.3	5.6	7.9	-	3.9	5.1	11.6	8.4	-	-	5.4	5.8	-
Chromium-T	mg/L	0.0022	0.0028	0.0025	0.0016	0.0021	0.0021	0.0025	-	0.0011	0.0015	0.0018	0.0013	0.0017	-	0.0015	0.0018	-

STATION		US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6
	Units	13-Jun-22	19-Jul-22	15-Aug-22	19-Sep-22	17-Oct-22	21-Nov-22	13-Dec-22	20-Mar-23	24-Apr-23	8-May-23	14-Jun-23	12-Jul-23	16-Aug-23	20-Sep-23	30-Oct-23	20-Nov-23	20-Feb-24
Cobalt-T	mg/L	0.00126	0.00625	0.0035	0.0003	0.00082	0.00054	0.00142	-	0.00038	0.00028	0.00123	0.00069	0.0023	-	0.00031	0.00047	-
Copper-T	mg/L	0.0041	0.0024	0.0035	0.0029	0.0031	0.0025	0.0021	-	0.0021	0.0036	0.0016	0.0015	0.0019	-	0.0025	0.0031	-
Iron-T	mg/L	1.4	9.2	4.3	0.9	1.4	1.2	1.9	-	0.5	0.8	3.3	1.6	2.9	-	0.9	0.9	-
Lead-T	mg/L	0.0004	0.0006	0.0005	0.0004	0.0004	0.0004	0.0004	-	0.0003	0.0003	0.0003	0.0002	0.0002	-	0.0003	0.0004	-
Lithium-T	mg/L	< 0.001	< 0.002	0.024	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	-
Magnesium-T	mg/L	2.1	3.8	2.9	1.8	2	1.7	2.4	-	1.2	1.5	3.1	2.7	-	-	1.5	1.5	-
Manganese-T	mg/L	0.164	1.42	0.568	0.027	0.091	0.07	0.274	-	0.04	0.031	0.224	0.108	0.458	-	0.037	0.055	-
Mercury-T	mg/L	0.000007	-	-	0.0000061	0.000012	0.000011	0.000021	-	0.000009	0.0000089	0.000005	0.000005	0.0000054	-	0.0000092	0.0000087	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	0.00000239	-	-	-	0.00000046	-	0.0000008	0.00000032	0.00000028	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.006	0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus-T	mg/L	< 0.006	0.052	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	0.7	-	1.1	0.9	0.9	0.8	0.7	-	0.7	2	1	1	-	-	0.7	< 0.6	-
Selenium-T	mg/L	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-T	mg/L	2	3.5	3.3	3.3	3.9	3.9	4.9	-	2.4	1.1	1.8	1	-	-	3.2	3.8	-
Silver-T	mg/L	< 0.00005	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-T	mg/L	0.9	1.3	0.8	1	1.1	1	1.4	-	0.7	0.7	1.3	1.4	1.5	-	1	1.6	-
Strontium-T	mg/L	0.021	0.034	0.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-T	mg/L	< 0.0001	< 0.0002	< 0.0001	0.016	0.017	0.015	0.019	-	0.009	0.012	0.027	0.021	-	-	0.013	0.013	-
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tungsten-T	mg/L	-	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	-
Titanium-T	mg/L	0.014	0.019	0.017	0.01	0.014	0.016	0.018	-	0.007	0.01	0.011	0.006	0.01	-	0.009	0.009	-
Uranium-T	mg/L	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-T	mg/L	0.002	0.005	0.004	0.001	0.001	0.001	0.002	-	< 0.001	0.001	0.002	0.001	-	-	0.001	0.001	-
Zinc-T	mg/L	0.011	0.012	0.011	0.009	0.012	0.008	0.009	-	0.005	0.005	0.006	< 0.004	0.005	-	0.009	0.009	-
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	-
Dissolved Metals																		
Aluminum-D	mg/L	0.655	0.613	0.628	0.748	0.712	0.683	0.642	-	0.347	0.419	0.198	0.183	0.27	-	0.822	0.695	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Arsenic-D	mg/L	0.001	0.003	0.003	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	0.001	< 0.001	0.002	-	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	-
Cadmium-D	mg/L	0.000053	0.000036	0.000042	0.000039	0.000044	0.000053	0.00003	-	0.000028	0.000038	0.000021	0.00002	0.000032	-	0.000051	0.000044	-
Calcium-D	mg/L	7.8	12.5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	0.0017	0.0076	0.0021	0.0015	0.0019	0.0014	0.0016	-	0.0008	0.0012	0.0014	0.0012	0.0016	-	0.0015	0.0017	-
Cobalt-D	mg/L	0.00081	0.00581	0.00352	0.00027	0.00056	0.00044	0.00063	-	0.00027	0.0002	0.00107	0.0006	0.00236	-	0.00035	0.00041	-
Copper-D	mg/L	0.0023	0.0013	0.0013	0.0021	0.0024	0.0019	0.0015	-	0.0015	0.0023	0.001	0.0011	0.001	-	0.0021	0.0017	-
Iron-D	mg/L	1	4.6	2.8	0.8	1	0.9	1.4	-	0.4	0.7	2.3	1	1.9	-	0.7	0.7	-
Lead-D	mg/L	0.0002	0.0004	0.0004	0.0003	0.0003	0.0004	0.0002	-	0.0002	0.0002	0.0002	0.0001	0.0002	-	0.0002	0.0002	-

STATION		US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6	US6
	Units	13-Jun-22	19-Jul-22	15-Aug-22	19-Sep-22	17-Oct-22	21-Nov-22	13-Dec-22	20-Mar-23	24-Apr-23	8-May-23	14-Jun-23	12-Jul-23	16-Aug-23	20-Sep-23	30-Oct-23	20-Nov-23	20-Feb-24
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	-
Magnesium-D	mg/L	1.9	3.7	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.152	< 0.005	0.59	0.023	0.08	0.067	0.261	-	0.037	0.03	0.203	0.092	0.444	-	0.035	0.053	-
Mercury-D	mg/L	0.000006	-	-	0.000008	0.0000095	0.00001	0.00001	-	0.0000074	0.0000042	0.0000036	0.0000035	0.0000038	-	0.000007	0.0000075	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	0.005	0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	< 0.6	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	-
Silicon-D	mg/L	1.71	3.41	3.33	3.22	3.45	3.74	4.16	-	2.12	0.906	1.66	0.969	-	-	3.07	3.63	-
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	-
Sodium-D	mg/L	0.7	1.3	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.02	0.036	0.028	0.016	0.017	0.014	0.018	-	0.009	0.013	0.025	0.021	-	-	0.014	0.014	-
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	0.007	0.014	0.014	0.007	0.008	0.008	0.012	-	0.003	0.005	0.005	0.004	0.007	-	0.008	0.007	-
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	-
Vanadium-D	mg/L	0.001	0.004	0.003	0.001	0.001	< 0.001	0.001	-	< 0.001	0.001	0.001	< 0.001	-	-	< 0.001	< 0.001	-
Zinc-D	mg/L	0.009	0.009	0.012	0.007	0.009	0.007	0.005	-	0.004	0.005	0.005	0.004	0.005	-	0.009	0.007	-
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	-

STATION		STATION		US7	US7	US7	US7	US7	US7	US7	US7	US7
	Units		Units	16-Nov-21	14-Mar-22	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	30-Oct-23
Field Parameters		**Field Parameters**										
Temperature	°C	**Temperature**	°C	0.6	0.1	16	9.3	0.1	0.9	9.7	9.8	4.1
pH	s.u.	**pH**	s.u.	6.2	6.1	6.1	5.38	5.8	6.1	6.03	5.67	5.94
Conductivity	µS/cm	**Conductivity**	µS/cm	32.7	58	24.8	33.1	33.5	36.5	26	32.3	31.8
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	7.1	8.11	8.3	1.04	11.85	8.8	8.71	1.24	12.27
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	49.3	53.6	83.7	9.2	80	39.9	76.8	10.9	93.8
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	192	179	219	184.9	-	-	-	-	-
Lab Parameters		**Lab Parameters**										
pH	s.u.	**pH**	s.u.	-	-	-	-	6.5	-	6.86	6.1	5.9
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	1.6	6.3	1.9
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	16.8	13.8	11.7	14	16.9	-	13	-	18.9
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	12	10	7	11	11	-	9	11	7
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	-	5	9	6.2	7	-	6	11.8	9.7
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	48	44	42	54	52	-	50	44	202
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 10	24	< 10	25	< 10	-	< 10	< 10	16
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	23.2	17.6	17.5	20.8	30.7	-	20.9	6.3	29.2
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	21.7	16.4	16.5	19.7	30.3	-	19.5	5.7	27.5
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	319	11.5	126.4	-	-
Nutrients and Anions		**Nutrients and Anions**										
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.02	0.09	< 0.02	0.05	0.04	-	< 0.02	< 0.02	0.05
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	< 0.000002	0.000087	< 0.000002	0.000093	-	-	-	-	-
Chloride	mg/L	**Chloride**	mg/L	0.18	0.41	0.15	0.27	0.32	-	0.18	0.22	0.27
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	**Fluoride**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.23	< 0.05	< 0.05	< 0.05	0.15	-	0.08	0.07	0.07
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	**Sulphate**	mg/L	0.6	0.93	0.78	0.71	0.57	-	0.81	1.86	0.68
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	< 0.006	-	0.026	< 0.02	< 0.02
Total Metals		**Total Metals**										
Aluminum-T	mg/L	**Aluminum-T**	mg/L	-	0.695	0.373	0.804	0.521	-	0.425	0.201	0.721
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	0.006	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	**Beryllium-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001
Boron-T	mg/L	**Boron-T**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.000016	0.000021	0.000026	0.000021	-	0.000025	< 0.000016	0.000029
Calcium-T	mg/L	**Calcium-T**	mg/L	-	3.46	3.4	3.6	4.3	-	3.4	-	5.1
Chromium-T	mg/L	**Chromium-T**	mg/L	< 0.003	0.0024	0.0013	0.0025	0.0014	-	0.0012	0.0009	0.0014

STATION		STATION		US7	US7	US7	US7	US7	US7	US7	US7	US7
	Units		Units	16-Nov-21	14-Mar-22	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	30-Oct-23
Cobalt-T	mg/L	**Cobalt-T**	mg/L	< 0.0005	< 0.0009	< 0.0009	0.00139	0.0002	-	0.00016	0.00062	0.0002
Copper-T	mg/L	**Copper-T**	mg/L	0.001	0.0032	0.0028	0.0038	0.0017	-	0.0029	0.0014	0.0025
Iron-T	mg/L	**Iron-T**	mg/L	0.436	1.8	0.4	1.8	0.7	-	0.4	0.5	0.7
Lead-T	mg/L	**Lead-T**	mg/L	< 0.001	0.0003	0.0001	0.0002	0.0001	-	0.0002	0.0001	0.0001
Lithium-T	mg/L	**Lithium-T**	mg/L	< 0.01	< 0.001	< 0.001	0.022	< 0.001	-	< 0.001	-	< 0.001
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	1.25	0.96	1.2	1.5	-	1.1	-	1.5
Manganese-T	mg/L	**Manganese-T**	mg/L	0.044	0.06	0.012	0.202	0.018	-	0.016	0.078	0.014
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	-	-	0.0000079	-	0.0000079	0.0000027	0.0000074
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	< 0.01	-	-	-	-	0.00000105	-	0.00000036	0.00000029
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	0.00000035	0.00000104	0.00000029	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.056	0.048	0.033	0.069	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	0.6	0.9	1	-	2.1	-	0.8
Selenium-T	mg/L	**Selenium-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	**Silicon-T**	mg/L	2.06	3.28	0.7	3.6	2.7	-	1.5	-	3.1
Silver-T	mg/L	**Silver-T**	mg/L	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	**Sodium-T**	mg/L	-	1.2	0.8	0.7	0.9	-	0.6	1.3	0.9
Strontium-T	mg/L	**Strontium-T**	mg/L	0.015	0.015	0.012	0.017	0.014	-	0.011	-	0.014
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	**Tin-T**	mg/L	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-	< 0.0005
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	< 0.01	0.011	0.005	0.012	0.006	-	0.007	0.003	0.008
Uranium-T	mg/L	**Uranium-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	**Vanadium-T**	mg/L	< 0.002	0.004	0.001	0.004	< 0.001	-	0.001	-	< 0.001
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.02	0.007	< 0.004	< 0.004	0.005	-	< 0.004	< 0.004	0.005
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01
Dissolved Metals		**Dissolved Metals**										
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.406	0.472	0.37	0.637	0.501	-	0.383	0.137	0.685
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.008	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	0.001	< 0.001
Barium-D	mg/L	**Barium-D**	mg/L	0.004	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	**Beryllium-D**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001
Boron-D	mg/L	**Boron-D**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	**Cadmium-D**	mg/L	< 0.0001	< 0.000016	0.000022	0.000019	0.000018	-	0.000022	< 0.000016	0.000024
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	3.2	3.4	-	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	< 0.003	0.0017	0.0011	0.0021	0.0013	-	0.001	0.0011	0.0014
Cobalt-D	mg/L	**Cobalt-D**	mg/L	< 0.0005	< 0.0009	0.00013	0.00115	0.00019	-	0.00012	0.00067	0.0002
Copper-D	mg/L	**Copper-D**	mg/L	< 0.001	0.0014	0.0016	0.0022	0.0012	-	0.0016	< 0.0008	0.0021
Iron-D	mg/L	**Iron-D**	mg/L	0.261	0.4	0.2	0.9	0.6	-	0.3	0.2	0.5
Lead-D	mg/L	**Lead-D**	mg/L	< 0.0005	< 0.0001	0.0001	0.0001	0.0001	-	0.0001	< 0.0001	0.0001

STATION		STATION		US7	US7	US7	US7	US7	US7	US7	US7	US7
	Units		Units	16-Nov-21	14-Mar-22	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	30-Oct-23
Lithium-D	mg/L	**Lithium-D**	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	1	1.1	-	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	0.005	0.019	< 0.005	0.153	0.017	-	0.015	0.054	0.014
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	0.0000077	-	0.0000067	< 0.0000025	0.0000058
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	< 0.01	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Nickel-D	mg/L	**Nickel-D**	mg/L	0.001	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	0.9	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	**Silicon-D**	mg/L	1.81	3	0.657	3.48	2.81	-	1.47	-	2.88
Silver-D	mg/L	**Silver-D**	mg/L	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	**Sodium-D**	mg/L	-	0.9	0.7	0.6	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	0.012	0.015	0.011	0.017	0.014	-	0.011	-	0.014
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	**Tin-D**	mg/L	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-	< 0.0005
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	0.006	0.004	0.004	0.008	0.005	-	0.005	0.001	0.006
Uranium-D	mg/L	**Uranium-D**	mg/L	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	**Vanadium-D**	mg/L	< 0.002	0.002	< 0.001	0.003	< 0.001	-	0.001	-	< 0.001
Zinc-D	mg/L	**Zinc-D**	mg/L	< 0.005	< 0.004	< 0.004	< 0.004	0.004	-	< 0.004	< 0.004	0.006
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.004	0.00048	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01

STATION		STATION		US8	US8	US8	US8	US8	US8	US8	US8	US8
	Units		Units	16-Nov-21	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	1-Nov-23	20-Feb-24
Field Parameters		**Field Parameters**										
Temperature	°C	**Temperature**	°C	4.3	19	15.2	1.3	0.5	8.8	12.9	4.6	0.1
pH	s.u.	**pH**	s.u.	6	5.9	4.94	5.29	6.81	5.79	5.65	5.69	7.22
Conductivity	µS/cm	**Conductivity**	µS/cm	33	25.8	31.6	22.3	45.9	23	32.9	27.5	26.6
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	3.7	7.17	1.39	8.87	14.35	4.94	3.3	3.95	9.37
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	28.4	77.6	13.7	61	103.3	42.1	31.3	30.7	64.2
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	21.9	137	111.2	-	-	-	-	-	-
Lab Parameters		**Lab Parameters**										
pH	s.u.	**pH**	s.u.	-	-	-	6.24	-	6.36	6.19	5.7	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	1.2	12.9	2.9	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	12.4	9	13	9.9	-	9.1	-	12	-
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	13	7	< 5	7	-	7	7	10	-
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	-	8	4.5	9	-	7.6	6.2	10.6	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	40	28	54	34	-	32	60	28	-
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 10	< 10	< 10	< 10	-	< 10	15	< 10	-
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	14	12.7	19.1	17.9	-	12.2	14.2	12.2	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	13.1	11.7	19.2	17.6	-	12	12.9	12.5	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	259.5	58.3	130.6	-	-	-
Nutrients and Anions		**Nutrients and Anions**										
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	0.4	< 0.02	0.14	0.13	-	0.13	< 0.02	0.35	-
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	0.000329	< 0.000002	0.000136	-	-	-	-	-	-
Chloride	mg/L	**Chloride**	mg/L	0.15	0.13	0.12	0.13	-	0.14	0.05	0.21	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	**Fluoride**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.08	< 0.05	< 0.05	< 0.05	-	0.06	< 0.05	0.06	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	**Sulphate**	mg/L	1.1	1.18	0.36	0.76	-	0.62	0.13	0.34	-
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	< 0.006	-	0.013	0.04	< 0.02	-
Total Metals		**Total Metals**										
Aluminum-T	mg/L	**Aluminum-T**	mg/L	-	0.146	0.275	0.195	-	0.182	0.167	0.21	-
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.003	< 0.001	0.003	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	**Barium-T**	mg/L	0.005	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Boron-T	mg/L	**Boron-T**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.000016	0.00002	0.000016	-	0.000018	< 0.000016	0.000027	-
Calcium-T	mg/L	**Calcium-T**	mg/L	-	3.5	4.3	3.3	-	3	-	3.8	-
Chromium-T	mg/L	**Chromium-T**	mg/L	< 0.003	< 0.0005	0.0008	0.0007	-	0.0009	0.0007	0.0008	-

STATION		STATION		US8	US8	US8	US8	US8	US8	US8	US8	US8
	Units		Units	16-Nov-21	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	1-Nov-23	20-Feb-24
Cobalt-T	mg/L	**Cobalt-T**	mg/L	< 0.0005	< 0.0009	0.00128	0.00021	-	0.0003	0.0002	0.00046	-
Copper-T	mg/L	**Copper-T**	mg/L	< 0.001	0.0016	0.0014	0.0009	-	0.0013	0.0016	0.0015	-
Iron-T	mg/L	**Iron-T**	mg/L	0.77	0.2	0.7	0.4	-	0.4	0.5	0.9	-
Lead-T	mg/L	**Lead-T**	mg/L	< 0.001	0.0002	0.0003	0.0002	-	0.0002	0.0002	0.0002	-
Lithium-T	mg/L	**Lithium-T**	mg/L	< 0.01	< 0.001	0.016	< 0.001	-	< 0.001	-	< 0.001	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	0.3	0.5	0.4	-	0.4	-	0.6	-
Manganese-T	mg/L	**Manganese-T**	mg/L	0.028	0.01	0.034	0.02	-	0.023	0.014	0.032	-
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	-	0.0000053	-	0.0000037	0.000003	< 0.0000025	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	< 0.01	-	-	-	0.00000043	-	0.00000024	0.00000031	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	0.00000043	0.00000025	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	0.002	-
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	-
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.017	0.016	0.021	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	< 0.6	< 0.6	< 0.6	-	1.6	-	< 0.6	-
Selenium-T	mg/L	**Selenium-T**	mg/L	0.001	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	**Silicon-T**	mg/L	1.97	0.4	1.3	1.6	-	1.5	-	2	-
Silver-T	mg/L	**Silver-T**	mg/L	< 0.0001	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	< 0.6	< 0.6	< 0.6	-	< 0.6	< 0.6	0.9	-
Strontium-T	mg/L	**Strontium-T**	mg/L	0.009	0.005	0.008	0.005	-	0.006	-	0.008	-
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.0003	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	**Tin-T**	mg/L	< 0.002	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-	< 0.0005	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	< 0.01	0.001	0.004	0.003	-	0.003	0.006	0.003	-
Uranium-T	mg/L	**Uranium-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.02	< 0.004	< 0.004	0.004	-	< 0.004	< 0.004	0.004	-
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.004	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-
Dissolved Metals		**Dissolved Metals**										
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.155	0.123	0.226	0.163	-	0.17	0.116	0.223	-
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.014	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	**Barium-D**	mg/L	0.004	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Boron-D	mg/L	**Boron-D**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	< 0.0001	< 0.000016	0.000016	< 0.000016	-	0.000021	< 0.000016	0.000017	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	3.2	3.8	-	-	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	< 0.003	< 0.0005	0.0007	0.0005	-	0.0006	0.0007	0.0006	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	< 0.0005	0.00008	0.00046	0.00021	-	0.00028	0.00014	0.00045	-
Copper-D	mg/L	**Copper-D**	mg/L	< 0.001	0.0019	< 0.0008	< 0.0008	-	< 0.0008	< 0.0008	< 0.0008	-
Iron-D	mg/L	**Iron-D**	mg/L	0.602	< 0.1	0.4	0.3	-	0.4	0.2	0.8	-
Lead-D	mg/L	**Lead-D**	mg/L	< 0.0005	0.0001	0.0002	0.0001	-	0.0001	< 0.0001	0.0001	-

STATION		STATION		US8	US8	US8	US8	US8	US8	US8	US8	US8
	Units		Units	16-Nov-21	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	1-Nov-23	20-Feb-24
Lithium-D	mg/L	**Lithium-D**	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	0.3	0.5	-	-	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	0.022	< 0.005	0.024	0.019	-	0.023	0.01	0.033	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	0.0000032	-	0.00000125	0.00000125	0.00000125	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	< 0.01	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	**Nickel-D**	mg/L	0.001	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	< 0.6	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	**Silicon-D**	mg/L	1.43	0.406	1.15	1.53	-	1.58	-	2.09	-
Silver-D	mg/L	**Silver-D**	mg/L	< 0.0001	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	< 0.6	< 0.6	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	0.008	0.005	0.008	0.006	-	0.006	-	0.009	-
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.0003	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	**Tin-D**	mg/L	< 0.002	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-	< 0.0005	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	< 0.002	< 0.001	0.003	0.001	-	0.002	0.001	0.003	-
Uranium-D	mg/L	**Uranium-D**	mg/L	< 0.0005	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Zinc-D	mg/L	**Zinc-D**	mg/L	< 0.005	< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.004	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-

STATION		STATION		US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond
	Units		Units	16-Nov-21	14-Mar-22	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	1-Nov-23	20-Feb-24
Field Parameters		**Field Parameters**											
Temperature	°C	**Temperature**	°C	3.2	0.1	20	21.7	1.5	0.2	13.5	20.8	4.3	0
pH	s.u.	**pH**	s.u.	6.7	6	6.5	6.4	6.99	6.19	6.18	6.34	6.36	7.37
Conductivity	µS/cm	**Conductivity**	µS/cm	26.7	43.6	20.5	23	23.8	33.1	19.8	17.3	22.6	29.3
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	11.5	6.3	9.01	7.89	12	1.6	9.13	8.59	11.9	8
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	86.2	39.2	99.4	89.3	86	11.2	86.6	95.8	84.3	55.7
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	131	235	174	62.5	-	-	-	-	-	-
Lab Parameters		**Lab Parameters**											
pH	s.u.	**pH**	s.u.	-	-	-	-	6.6	-	6.65	6.13	5.84	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	1.4	7.4	4.5	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	16.1	21.6	9.3	12	11.9	-	9.7	-	12.5	-
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	12	27	7	8	8	-	6	6	7	-
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	-	5	7	3.6	-	-	< 5.0	5.4	6.5	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	14	68	24	48	22	-	24	60	30	-
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 10	16	< 10	< 10	< 10	-	14	14	< 10	-
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	17.4	19.7	11.8	15.9	17.5	-	11.6	21.8	18	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	16.9	17.4	11.4	15.3	17	-	11.9	14.7	17	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	165	52.9	132.1	-	-	-
Nutrients and Anions		**Nutrients and Anions**											
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	0.04	0.42	< 0.02	< 0.02	0.1	-	< 0.02	< 0.02	0.04	-
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	0.000061	0.00157	< 0.000002	< 0.000002	-	-	-	-	-	-
Chloride	mg/L	**Chloride**	mg/L	< 0.1	0.32	0.13	< 0.1	0.12	-	0.13	0.05	0.12	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	**Fluoride**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	< 0.05	0.06	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	**Sulphate**	mg/L	1.14	1.18	1.22	0.79	0.93	-	0.91	0.49	0.68	-
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	< 0.006	-	< 0.006	< 0.02	< 0.02	-
Total Metals		**Total Metals**											
Aluminum-T	mg/L	**Aluminum-T**	mg/L	-	0.191	0.15	0.119	0.151	-	0.141	0.078	0.14	-
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	**Barium-T**	mg/L	0.004	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Boron-T	mg/L	**Boron-T**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	0.000026	-
Calcium-T	mg/L	**Calcium-T**	mg/L	-	7.61	3.8	3.9	4.1	-	3.4	-	4.2	-
Chromium-T	mg/L	**Chromium-T**	mg/L	< 0.003	0.0008	0.0006	< 0.0005	0.0006	-	0.0007	< 0.0005	< 0.0005	-

STATION		STATION		US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond
	Units		Units	16-Nov-21	14-Mar-22	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	1-Nov-23	20-Feb-24
Cobalt-T	mg/L	**Cobalt-T**	mg/L	< 0.0005	< 0.0009	0.00017	0.00023	0.00009	-	0.00019	0.00011	0.00011	-
Copper-T	mg/L	**Copper-T**	mg/L	0.001	0.0014	0.0014	0.0014	0.0013	-	0.0016	0.0011	0.0017	-
Iron-T	mg/L	**Iron-T**	mg/L	0.11	0.4	0.1	0.2	0.1	-	0.2	0.2	0.2	-
Lead-T	mg/L	**Lead-T**	mg/L	< 0.001	0.0002	0.0002	0.0002	0.0001	-	< 0.0001	0.0001	0.0002	-
Lithium-T	mg/L	**Lithium-T**	mg/L	< 0.01	< 0.001	< 0.001	0.019	< 0.001	-	< 0.001	-	< 0.001	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	0.64	0.3	0.5	0.4	-	0.3	-	0.5	-
Manganese-T	mg/L	**Manganese-T**	mg/L	0.011	0.077	0.017	0.016	0.006	-	0.018	0.012	0.01	-
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	-	-	0.0000042	-	0.0000042	< 0.0000025	< 0.0000025	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	< 0.01	-	-	-	-	0.00000051	-	0.00000021	0.00000023	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	0.00000026	0.00000053	0.00000019	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	0.003	-
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	-
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.026	0.01	0.016	0.027	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	< 0.6	< 0.6	-	1.4	-	< 0.6	-
Selenium-T	mg/L	**Selenium-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	**Silicon-T**	mg/L	0.75	1.23	0.5	0.7	1.3	-	0.8	-	1.3	-
Silver-T	mg/L	**Silver-T**	mg/L	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	0.7	0.35	< 0.6	< 0.6	-	< 0.6	< 0.6	1	-
Strontium-T	mg/L	**Strontium-T**	mg/L	0.006	0.009	0.005	0.005	0.006	-	0.005	-	0.005	-
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	**Tin-T**	mg/L	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-	< 0.0005	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	< 0.01	< 0.001	0.001	< 0.001	< 0.001	-	0.001	< 0.001	< 0.001	-
Uranium-T	mg/L	**Uranium-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.02	0.008	< 0.004	< 0.004	< 0.004	-	0.004	< 0.004	< 0.004	-
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-
Dissolved Metals		**Dissolved Metals**											
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.068	0.109	0.123	0.089	0.138	-	0.13	0.06	0.129	-
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.015	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	**Barium-D**	mg/L	0.003	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Boron-D	mg/L	**Boron-D**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	< 0.0001	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	3.4	3.8	-	-	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	< 0.003	< 0.0005	0.0007	< 0.0005	0.0009	-	< 0.0005	< 0.0005	< 0.0005	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	< 0.0005	< 0.0009	0.00008	0.00007	0.00005	-	0.00015	< 0.00006	0.00007	-
Copper-D	mg/L	**Copper-D**	mg/L	< 0.001	< 0.0008	0.0009	< 0.0008	0.0022	-	0.0008	< 0.0008	< 0.0008	-
Iron-D	mg/L	**Iron-D**	mg/L	0.079	0.2	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	0.1	-
Lead-D	mg/L	**Lead-D**	mg/L	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	-

STATION		STATION		US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond	US8 Pond
	Units		Units	16-Nov-21	14-Mar-22	16-May-22	15-Aug-22	21-Nov-22	20-Mar-23	8-May-23	16-Aug-23	1-Nov-23	20-Feb-24
Lithium-D	mg/L	**Lithium-D**	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	0.3	0.4	-	-	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	0.006	0.044	< 0.005	< 0.005	< 0.005	-	0.016	< 0.005	0.005	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	0.0000037	-	0.0000026	< 0.0000025	< 0.0000025	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	< 0.01	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	**Nickel-D**	mg/L	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	< 0.6	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	**Silicon-D**	mg/L	0.66	1.23	0.5	0.76	1.28	-	0.843	-	1.24	-
Silver-D	mg/L	**Silver-D**	mg/L	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	0.6	< 0.6	< 0.6	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	0.007	0.01	0.005	0.005	0.007	-	0.005	-	0.006	-
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	**Tin-D**	mg/L	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-	< 0.0005	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Uranium-D	mg/L	**Uranium-D**	mg/L	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-
Zinc-D	mg/L	**Zinc-D**	mg/L	< 0.005	0.004	< 0.004	< 0.004	0.006	-	< 0.004	< 0.004	< 0.004	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.004	0.00005	< 0.01	< 0.01	< 0.01	-	< 0.01	-	< 0.01	-

STATION		STATION		US9	US9	US9	US9	US9
	Units		Units	19-Nov-21	16-May-22	21-Nov-22	8-May-23	1-Nov-23
Field Parameters		**Field Parameters**						
Temperature	°C	**Temperature**	°C	0.4	15	0.1	14.3	0.26
pH	s.u.	**pH**	s.u.	5.6	5.5	6.14	5.59	5.26
Conductivity	µS/cm	**Conductivity**	µS/cm	20.1	17.6	19.3	17.6	18.6
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	6.49	8.06	12.06	7.39	10.12
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	45	80.4	82	72.1	69.8
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	130	246	-	-	-
Lab Parameters		**Lab Parameters**						
pH	s.u.	**pH**	s.u.	-	-	6.06	6.16	6.04
Turbidity	NTU	**Turbidity**	NTU	-	-	-	0.7	2
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	10.2	8.5	9.7	8.3	10.4
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	10	< 5	< 5	< 5	6
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	-	10	7	6.1	8.2
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	62	42	26	36	38
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 10	< 10	< 10	< 10	< 10
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	18.2	20.7	19	16.6	17.9
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	16.9	20.3	17.4	16.2	17.4
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	304.6	193.5	-
Nutrients and Anions		**Nutrients and Anions**						
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	< 0.000002	< 0.000002	-	-	-
Chloride	mg/L	**Chloride**	mg/L	0.17	0.13	0.18	0.12	0.23
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	**Fluoride**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.35	< 0.05	0.18	< 0.05	0.11
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	**Sulphate**	mg/L	1.6	0.82	1.2	1.39	1.48
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	0.007	< 0.006	0.03
Total Metals		**Total Metals**						
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.323	0.407	0.268	0.251	0.326
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	0.003	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	**Beryllium-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	**Boron-T**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	0.000026	0.000027	0.000026	0.000043
Calcium-T	mg/L	**Calcium-T**	mg/L	-	2.9	2.9	2.5	3
Chromium-T	mg/L	**Chromium-T**	mg/L	< 0.003	0.001	0.0013	0.0047	0.0014

STATION		STATION		US9	US9	US9	US9	US9
	Units		Units	19-Nov-21	16-May-22	21-Nov-22	8-May-23	1-Nov-23
Cobalt-T	mg/L	**Cobalt-T**	mg/L	< 0.0005	< 0.0009	0.00019	0.00018	0.00013
Copper-T	mg/L	**Copper-T**	mg/L	0.001	0.0022	0.0012	0.0019	0.0015
Iron-T	mg/L	**Iron-T**	mg/L	0.268	0.3	0.4	0.2	0.3
Lead-T	mg/L	**Lead-T**	mg/L	< 0.001	0.0004	0.0003	0.0003	0.0003
Lithium-T	mg/L	**Lithium-T**	mg/L	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	0.48	0.6	0.5	0.7
Manganese-T	mg/L	**Manganese-T**	mg/L	0.005	0.007	0.012	0.007	0.006
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	0.0000076	0.0000065	0.0000053
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	0.00000011
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	0.00000007	0.00000013	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.011	0.017	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	< 0.6	< 0.6	1.4	< 0.6
Selenium-T	mg/L	**Selenium-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	**Silicon-T**	mg/L	4.33	1.3	3.8	1.3	3.3
Silver-T	mg/L	**Silver-T**	mg/L	< 0.0001	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	**Sodium-T**	mg/L	-	0.71	0.7	0.7	1
Strontium-T	mg/L	**Strontium-T**	mg/L	0.007	0.007	0.006	0.006	0.005
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.0003	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	**Tin-T**	mg/L	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	< 0.01	0.003	0.003	0.002	0.003
Uranium-T	mg/L	**Uranium-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	**Vanadium-T**	mg/L	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-T	mg/L	**Zinc-T**	mg/L	0.197	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals		**Dissolved Metals**						
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.255	0.422	0.274	0.257	0.322
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.001	< 0.001	0.0005	0.0005	0.0005
Arsenic-D	mg/L	**Arsenic-D**	mg/L	< 0.001	< 0.001	0.0005	0.0005	0.0005
Barium-D	mg/L	**Barium-D**	mg/L	0.003	< 0.05	0.025	0.025	0.025
Beryllium-D	mg/L	**Beryllium-D**	mg/L	< 0.0005	< 0.0005	0.00025	0.00025	0.00025
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	< 0.001	0.0005	0.0005	0.0005
Boron-D	mg/L	**Boron-D**	mg/L	< 0.01	< 0.01	0.005	0.005	0.005
Cadmium-D	mg/L	**Cadmium-D**	mg/L	< 0.0001	0.000027	0.000017	0.000026	0.000018
Calcium-D	mg/L	**Calcium-D**	mg/L	-	2.7	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	< 0.003	0.0013	0.0008	0.0009	0.0007
Cobalt-D	mg/L	**Cobalt-D**	mg/L	< 0.0005	0.00014	0.0001	0.00013	0.0001
Copper-D	mg/L	**Copper-D**	mg/L	0.001	0.0019	0.0008	0.0012	0.0011
Iron-D	mg/L	**Iron-D**	mg/L	0.186	0.2	0.3	0.2	0.2
Lead-D	mg/L	**Lead-D**	mg/L	< 0.0005	0.0004	0.0002	0.0003	0.0002

STATION		STATION		US9	US9	US9	US9	US9
	Units		Units	19-Nov-21	16-May-22	21-Nov-22	8-May-23	1-Nov-23
Lithium-D	mg/L	**Lithium-D**	mg/L	< 0.01	< 0.001	0.0005	0.0005	0.0005
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	0.5	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	0.005	0.006	0.0025	0.006	0.0025
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	0.000006	0.000006	0.0000039
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	< 0.002	< 0.001	0.0005	0.0005	0.0005
Nickel-D	mg/L	**Nickel-D**	mg/L	0.001	< 0.003	0.0015	0.0015	0.0015
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	< 0.001	< 0.0005	0.00025	0.00025	0.00025
Silicon-D	mg/L	**Silicon-D**	mg/L	4.4	1.33	4.01	1.37	3.26
Silver-D	mg/L	**Silver-D**	mg/L	< 0.0001	< 0.00005	0.000025	0.000025	0.000025
Sodium-D	mg/L	**Sodium-D**	mg/L	-	0.7	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	0.006	0.006	0.006	0.006	0.006
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.0003	< 0.0001	0.00005	0.00005	0.00005
Tin-D	mg/L	**Tin-D**	mg/L	< 0.002	< 0.0005	0.00025	0.00025	0.00025
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	0.002	0.003	0.002	0.002	0.002
Uranium-D	mg/L	**Uranium-D**	mg/L	< 0.0005	< 0.001	0.0005	0.0005	0.0005
Vanadium-D	mg/L	**Vanadium-D**	mg/L	< 0.002	< 0.001	0.0005	0.0005	0.0005
Zinc-D	mg/L	**Zinc-D**	mg/L	< 0.005	< 0.004	0.002	0.002	0.002
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.004	< 0.01	0.005	0.005	0.005

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	15-Dec-10	25-Feb-11	3-May-11	8-Jul-11	7-Sep-11	2-Nov-11	11-Jan-12	7-Mar-12	1-May-12	27-Jun-12	22-Aug-12	18-Oct-12	11-Dec-12	14-Feb-13	30-Apr-13	16-Jul-13
Field Parameters																	
Temperature	°C	0.8	1.15	4.42	22.26	18.66	6.54	0.81	1.48	7.04	20.4	18.9	7.04	1.27	1.09	2.3	26.84
pH	s.u.	8.11	7.4	7.09	8.01	8.14	8.05	8.15	8.08	7.99	8.11	9	7.89	8.55	6.82	8.1	7.77
Conductivity	µS/cm	106.2	112	72	101	107	115	36	109	109	105	119	105	99	111	89	93
Dissolved Oxygen	mg/L	12.77	12.72	11.75	9.01	9.93	11.44	12.78	12.07	12.91	8.21	8.71	11.2	13.32	-	11.89	8.93
Dissolved Oxygen %	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters																	
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	47	51	33	44	48	46	49	51	44	50	50	46	44	50	45	43
Alkalinity, Total (as CaCO3)	mg/L	41	45	27	38	-	-	40	44	40	41	44	47	40	44	35	36
Acidity (as CaCO3)	mg/L	< 10	< 10	< 10	< 10	-	-	< 10	12	< 10	12	< 10	< 10	15	14	12	< 10
Total Dissolved Solids	mg/L	72	68	44	64	-	62	76	80	104	74	62	58	50	88	66	78
Total Suspended Solids	mg/L	2	1	1	3	1	2	< 1	< 1	2	2	3	2	2	< 1	< 1	2
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																	
Ammonia, Total (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.066	< 0.05	< 0.05	0.063	0.055
Ammonia, Un-ionized (as N)	mg/L	0.000281597	0.0000571	0.0000366	0.001142575	0.00118351	0.000390966	0.000308685	0.000278198	0.000354964	0.001251316	0.006704019	0.00074655	-	0.000015	0.000784786	0.002020271
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	1	< 1	< 1	1	4	< 1	< 1	< 1	< 1	< 1	4	1	< 1	< 1	< 1	< 1
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																	
Aluminum-T	mg/L	-	0.041	0.093	0.058	0.055	0.085	0.076	0.051	0.086	0.097	0.2	0.094	0.09	0.061	0.074	0.098
Antimony-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium-T	mg/L	15	16	9.9	14	14	16	14	16	13	13	14	14	14	15	13	15
Chromium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	15-Dec-10	25-Feb-11	3-May-11	8-Jul-11	7-Sep-11	2-Nov-11	11-Jan-12	7-Mar-12	1-May-12	27-Jun-12	22-Aug-12	18-Oct-12	11-Dec-12	14-Feb-13	30-Apr-13	16-Jul-13
Cobalt-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-T	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	0.0012	0.0013	0.0017	0.0014	0.0023	0.001	0.0012	0.0015
Iron-T	mg/L	< 0.1	< 0.1	0.11	< 0.1	< 0.1	0.15	0.17	0.11	0.13	0.16	0.26	0.14	0.16	0.13	0.15	0.17
Lead-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00059	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Nickel-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-T	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium-T	mg/L																
Dissolved Metals																	
Aluminum-D	mg/L	0.017	0.024	0.054	0.021	0.013	0.027	0.05	0.029	0.032	0.02	0.015	0.024	0.034	0.044	0.04	0.025
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium-D	mg/L	-	-	9.64	-	-	-	-	-	-	-	-	13.7	-	-	-	-
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	15-Dec-10	25-Feb-11	3-May-11	8-Jul-11	7-Sep-11	2-Nov-11	11-Jan-12	7-Mar-12	1-May-12	27-Jun-12	22-Aug-12	18-Oct-12	11-Dec-12	14-Feb-13	30-Apr-13	16-Jul-13
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	-	-	2.04	-	-	-	-	-	-	-	-	2.94	-	-	-	-
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	24-Sep-13	12-Nov-14	7-Oct-15	11-Oct-17	12-Jun-18	29-Aug-18	14-Nov-18	11-Mar-19	19-Jun-19	14-Aug-19	22-Oct-19	29-Apr-20	2-Sep-20	5-Nov-20	25-Mar-21	18-Jun-21	19-Aug-21	17-Nov-21
Field Parameters																			
Temperature	°C	12.93	1.5	12.7	13.1	20	19	1.7	0.6	19	21	8.1	2.8	17	2.5	2.2	20	24	2.9
pH	s.u.	8.03	7.75	7.51	8.02	7.6	7.5	7.3	6.7	7.6	7.7	7.2	6.7	7.6	7.7	7.3	-	8	7.8
Conductivity	µS/cm	83	90.9	84.2	106	84	105	102	61.6	75.1	92	92.6	89.2	105	98	96.7	101	103	109
Dissolved Oxygen	mg/L	10.07	12.6	7.83	-	84.8	6.79	12.4	12.5	5.89	7.77	9.58	13.1	6.89	12	12.2	8.28	8.72	12.3
Dissolved Oxygen %	%	-	-	-	-	-	72	89.4	86.8	64.3	86.8	81	-	-	87.8	92	91.7	108	91.1
Oxidation-Reduction Potential	mV	-	-	-	-	-	113	133	66	153	167	128	167	-	-	141	-	4.3	192
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	2.2	2.81	1.7	1.83	1.87	0.54	1.74	1.09	1.49	0.64	1.2	1.5	0.72	-	-	-
Hardness (as CaCO3)	mg/L	47	43	40	50.8	42	45.5	45.6	52.5	33.8	40	41.6	44.1	50.3	51.5	48.9	45.5	59.8	49.4
Alkalinity, Total (as CaCO3)	mg/L	40	40	36	46	38	42	39	46	31	37	38	37	41	42	42	51	50	50
Acidity (as CaCO3)	mg/L	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-
Total Dissolved Solids	mg/L	86	52	76	69	74	77	89	86	49	106	57	71	66	86	60	78	78	66
Total Suspended Solids	mg/L	< 2	1	2	2	3	3	1	1	2	2	2	1	1	2	1	< 10	< 10	< 10
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	11.4	9.1
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	4.8	10.4	9.1
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.000611185	0.000131115	0.000184514	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002	< 0.000002	< 0.000002
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	3.18	3.06	2.13
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.2	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08	< 0.05	< 0.05	< 0.05
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.03	< 0.05	< 0.05	< 0.02
Sulphate	mg/L	< 1	< 1	< 1	3	< 2	3	< 2	< 2	< 2	2	< 2	< 2	5	6	< 2	3.93	3.65	3.57
Total Kjeldahl Nitrogen	mg/L	-	-	0.35	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-
Total Phosphorus	mg/L	-	-	0.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.08	0.11	0.1	0.051	0.069	0.058	0.079	0.044	0.066	0.047	0.068	0.077	0.059	0.07	0.043	0.061	0.12	-
Antimony-T	mg/L	-	-	-	-	< 0.0002	< 0.0002	< 0.0002	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	< 0.001	0.0013	< 0.001	0.0005	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0007	0.0006	0.0005	< 0.003	< 0.003	< 0.003
Barium-T	mg/L	-	-	-	-	0.013	0.0131	0.0132	0.0127	0.0102	0.0109	0.012	0.00984	0.0136	0.0128	0.015	0.015	0.015	0.012
Beryllium-T	mg/L	-	-	-	-	< 0.000007	0.000007	0.000015	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.001
Bismuth-T	mg/L	-	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000034	< 0.000007	< 0.002	< 0.002	-
Boron-T	mg/L	-	-	-	-	0.005	0.004	< 0.002	0.006	0.003	0.003	0.003	0.003	0.005	0.003	0.03	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	0.000006	0.000007	0.000007	0.000016	0.000004	0.000015	0.000008	0.000003	0.000005	0.000005	0.000006	< 0.000003	< 0.0001	< 0.0001	0.0003
Calcium-T	mg/L	14	12	12	15.3	12.6	13.3	13.4	14.8	9.79	11.5	12.3	13.2	14.9	15.4	14.6	-	-	-
Chromium-T	mg/L	-	-	-	-	0.00039	0.00037	0.00029	0.00036	0.0003	< 0.00008	0.00039	0.00045	0.00037	0.00041	0.00036	< 0.003	< 0.003	< 0.003

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	24-Sep-13	12-Nov-14	7-Oct-15	11-Oct-17	12-Jun-18	29-Aug-18	14-Nov-18	11-Mar-19	19-Jun-19	14-Aug-19	22-Oct-19	29-Apr-20	2-Sep-20	5-Nov-20	25-Mar-21	18-Jun-21	19-Aug-21	17-Nov-21
Cobalt-T	mg/L	-	-	-	-	0.000044	0.000052	0.000026	0.000031	0.000034	0.000027	0.000032	0.000076	0.000031	0.00004	0.000043	< 0.0005	< 0.0005	< 0.0005
Copper-T	mg/L	< 0.001	< 0.001	< 0.001	0.00095	0.00082	0.00084	0.00142	0.0082	0.0007	0.0006	0.0008	0.0009	0.0008	0.0008	0.0005	< 0.001	< 0.001	< 0.001
Iron-T	mg/L	0.17	0.19	0.25	0.106	0.133	0.097	0.09	0.104	0.119	0.073	0.103	0.19	0.105	0.124	0.105	0.112	0.117	0.089
Lead-T	mg/L	< 0.0005	< 0.0005	< 0.0005	0.00011	0.00027	0.0001	0.00005	0.00003	0.00003	0.00006	< 0.00001	< 0.00001	0.00001	0.00011	0.00009	< 0.001	< 0.001	< 0.001
Lithium-T	mg/L	-	-	-	-	0.0004	0.0004	0.0004	0.0006	0.0004	0.0004	0.0004	0.0005	0.0005	0.0002	0.0004	< 0.01	< 0.01	< 0.01
Magnesium-T	mg/L	-	-	2.5	3.07	2.54	3.01	2.93	3.77	2.28	2.74	2.65	2.72	3.18	3.13	3.02	-	-	-
Manganese-T	mg/L	-	-	-	-	0.0114	0.0176	0.0122	0.00717	0.00752	0.00988	0.0103	0.0212	0.0165	0.0583	0.00956	0.02	0.013	0.012
Mercury-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.00001	< 0.00001	0.00001	0.00007	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	-	-	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.0005	< 0.0005	< 0.0005	0.00024	0.00022	0.00025	< 0.00001	0.00026	0.00015	0.00005	0.00014	0.00022	0.0004	0.00014	0.00026	< 0.002	< 0.002	< 0.002
Nickel-T	mg/L	< 0.001	0.001	< 0.001	0.0003	0.0004	0.0003	0.0005	0.0004	0.0002	0.0003	0.0003	0.0004	0.0003	0.0002	< 0.0001	< 0.003	< 0.003	< 0.003
Phosphorus-T	mg/L	-	-	-	-	-	-	0.014	0.003	0.008	0.009	0.008	< 0.003	0.01	< 0.003	0.005	0.021	0.029	0.016
Potassium-T	mg/L	-	-	-	-	0.373	0.364	0.365	0.397	0.251	0.258	0.336	0.406	0.512	0.482	0.431	-	-	-
Selenium-T	mg/L	-	-	< 0.002	0.00009	0.00009	0.00008	0.00007	0.0001	0.00008	0.00007	0.00008	0.00008	0.00008	0.00008	0.00012	0.003	< 0.002	< 0.001
Silicon-T	mg/L	-	-	-	-	2.37	2.16	2.65	2.86	1.95	1.91	2.26	2.94	2.76	3.34	2.76	1.85	2.64	2.62
Silver-T	mg/L	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001
Sodium-T	mg/L	-	-	-	-	2.41	2.66	2.67	2.8	1.88	2.58	2.37	2.05	3.51	2.84	2.85	-	-	-
Strontium-T	mg/L	-	-	-	-	0.0618	0.0657	0.0554	0.0612	0.0464	0.0551	0.0585	0.0465	0.0669	0.0614	0.0708	0.071	0.064	0.064
Thallium-T	mg/L	-	-	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003
Tin-T	mg/L	-	-	-	-	0.00023	0.00011	0.00009	< 0.00006	0.0001	< 0.00006	< 0.00006	< 0.00006	0.00011	0.00015	< 0.00006	< 0.002	< 0.002	< 0.002
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	-	-	0.00208	0.00139	0.00195	0.00051	0.00133	0.0012	0.00146	0.00134	0.00103	0.00151	0.00094	< 0.002	< 0.002	< 0.01
Uranium-T	mg/L	-	-	-	-	0.000021	0.000022	< 0.000002	0.000029	0.000017	0.00002	0.000022	0.000026	0.000029	0.000021	0.000025	< 0.002	< 0.002	< 0.002
Vanadium-T	mg/L	-	-	-	-	0.00034	0.00043	0.00031	0.00031	0.00032	0.00038	0.00032	0.00036	0.00041	0.00031	0.0003	< 0.002	< 0.002	< 0.002
Zinc-T	mg/L	< 0.005	0.011	< 0.005	0.003	0.003	0.003	0.003	< 0.002	< 0.002	< 0.002	0.007	0.003	< 0.002	0.003	< 0.002	< 0.005	< 0.005	< 0.02
Zirconium-T	mg/L					-	-	-	-	-	-	-	-	-	-	-	< 0.004	< 0.004	< 0.004
Dissolved Metals																			
Aluminum-D	mg/L	0.027	0.054	0.047	0.011	0.024	0.026	0.042	0.034	0.034	0.023	0.004	0.07	0.059	0.031	0.031	0.016	0.023	0.017
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0009	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0005	< 0.003	< 0.001	< 0.001
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0146	0.007	0.013	0.011
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.002	< 0.002	-
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000003	< 0.0001	< 0.0001	< 0.0001
Calcium-D	mg/L	-	-	12	12.9	-	12.9	12.7	-	-	-	-	-	-	-	13.9	-	-	-
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00037	< 0.003	< 0.002	< 0.003
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000029	< 0.0005	< 0.0005	< 0.0005
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0003	< 0.001	0.002	< 0.001
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08	0.026	0.097	0.048
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00004	< 0.001	< 0.0005	< 0.0005

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	24-Sep-13	12-Nov-14	7-Oct-15	11-Oct-17	12-Jun-18	29-Aug-18	14-Nov-18	11-Mar-19	19-Jun-19	14-Aug-19	22-Oct-19	29-Apr-20	2-Sep-20	5-Nov-20	25-Mar-21	18-Jun-21	19-Aug-21	17-Nov-21
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0003	< 0.01	< 0.01	< 0.01
Magnesium-D	mg/L	-	-	2.7	2.53	-	2.91	2.76	-	-	-	-	-	-	-	3	-	-	-
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00633	0.004	0.004	0.004
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	< 0.01
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0002	< 0.002	< 0.002	< 0.002
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.0001	< 0.003	< 0.003	< 0.001
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.003	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.374	-	-	-
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00008	< 0.004	0.004	< 0.001
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.74	1.19	2.21	2.67
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.0001	< 0.0001	< 0.0001
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6	-	-	-
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0684	0.042	0.068	0.063
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.0003	< 0.0003	< 0.0003
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.00006	< 0.002	< 0.002	< 0.002
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00056	< 0.002	< 0.002	< 0.002
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000023	< 0.002	< 0.0005	< 0.0005
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00025	< 0.002	< 0.002	< 0.002
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	< 0.005	< 0.005	< 0.005
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.004	< 0.004	< 0.004

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	16-Mar-22	19-May-22	17-Aug-22	23-Nov-22	24-Mar-23	10-May-23	17-Aug-23	15-Nov-23	27-Feb-24
Field Parameters										
Temperature	°C	0.9	12	21.4	1.7	1.5	10.1	20.7	3.3	1.1
pH	s.u.	7.7	7.4	7.15	7.23	8.1	7.22	7.92	7.05	7.21
Conductivity	µS/cm	118	86.4	91.2	92.2	102.6	77.8	89.4	90	98.7
Dissolved Oxygen	mg/L	13.4	10.3	6.67	12.49	12.33	10.59	8.82	11.98	12.43
Dissolved Oxygen %	%	93.5	94.7	79.5	90	87.9	94.1	98.4	89.6	87.6
Oxidation-Reduction Potential	mV	216	204	130.5	-	-	-	-	-	-
Lab Parameters										
pH	s.u.	-	-	-	7.4	7.54	7.44	6.99	6.39	-
Turbidity	NTU	-	-	-	-	1.4	1.3	2.4	1.3	-
Hardness (as CaCO3)	mg/L	56.2	41.7	-	43.9	45.6	34.7	46.6	43	-
Alkalinity, Total (as CaCO3)	mg/L	54	35	-	38	40	32	46	36	-
Acidity (as CaCO3)	mg/L	-	8	-	-	5	< 5.0	< 5.0	8.1	-
Total Dissolved Solids	mg/L	68	64	-	82	60	22	70	86	-
Total Suspended Solids	mg/L	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	-
Total Organic Carbon	mg/L	8.5	10.3	-	13.4	13.8	12.1	9.7	12.1	-
Dissolved Organic Carbon	mg/L	8.2	10	-	12.6	12.5	11.5	9.6	11.6	-
Oxidation-Reduction Potential	mV	-	-	-	208.2	209.3	125.4	-	-	-
Nutrients and Anions										
Ammonia, Total (as N)	mg/L	0.03	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Ammonia, Un-ionized (as N)	mg/L	0.000206	< 0.000002	-	-	-	-	-	-	-
Chloride	mg/L	2.76	3.2	-	2.58	2.82	2.81	2.94	2.31	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	0.08	< 0.05	-	< 0.05	0.08	< 0.05	< 0.05	0.06	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	4.15	3.37	-	2.88	3.37	2.87	3.36	2.94	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	0.017	< 0.006	< 0.006	< 0.02	< 0.02	-
Total Metals										
Aluminum-T	mg/L	0.027	0.071	-	0.076	0.087	0.073	0.051	0.075	-
Antimony-T	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.001	< 0.001	-	< 0.001	0.002	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-T	mg/L	16.6	12.1	-	12.8	13.3	10.1	13.7	12.6	-
Chromium-T	mg/L	< 0.0005	< 0.0005	-	0.0014	0.0006	< 0.0005	< 0.0005	< 0.0005	-

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	16-Mar-22	19-May-22	17-Aug-22	23-Nov-22	24-Mar-23	10-May-23	17-Aug-23	15-Nov-23	27-Feb-24
Cobalt-T	mg/L	< 0.0009	0.00006	-	0.00006	0.00006	0.00007	0.00005	0.00006	-
Copper-T	mg/L	0.0013	0.0011	-	0.0011	0.0012	0.0008	0.0012	0.0017	-
Iron-T	mg/L	< 0.1	0.1	-	0.2	0.2	0.2	< 0.1	0.2	-
Lead-T	mg/L	< 0.0001	< 0.0001	-	0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	-
Lithium-T	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-T	mg/L	3.5	2.5	-	2.9	3	2.3	3	2.8	-
Manganese-T	mg/L	0.006	0.021	-	0.018	0.011	0.022	0.017	0.019	-
Mercury-T	mg/L	-	-	-	0.0000056	0.00000125	0.0000031	0.00000125	0.00000125	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-T	mg/L	0.013	0.029	-	-	-	-	-	-	-
Potassium-T	mg/L	< 0.6	-	-	0.8	< 0.6	< 0.6	0.9	< 0.6	-
Selenium-T	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	3.2	2.3	-	2.6	2.5	1.9	2.1	2.9	-
Silver-T	mg/L	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	2.8	2.29	-	3.6	2.6	2.4	3	2.4	-
Strontium-T	mg/L	0.068	0.06	-	0.062	0.061	0.061	0.067	0.053	-
Thallium-T	mg/L	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	1.6	-	-	-	-	-	-	-	-
Titanium-T	mg/L	< 0.001	0.002	-	0.002	0.001	0.002	0.001	0.001	-
Uranium-T	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-T	mg/L	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Dissolved Metals										
Aluminum-D	mg/L	0.013	0.03	-	0.04	0.039	0.042	0.018	0.044	-
Antimony-D	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	16.9	10.6	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Cobalt-D	mg/L	< 0.0009	0.00001	-	0.00002	0.00003	< 0.00006	0.00014	< 0.00006	-
Copper-D	mg/L	< 0.0008	< 0.0008	-	0.0019	0.0012	< 0.0008	< 0.0008	< 0.0008	-
Iron-D	mg/L	< 0.1	< 0.1	-	0.1	0.1	0.1	< 0.1	0.1	-
Lead-D	mg/L	< 0.0001	< 0.0001	-	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	-

STATION		V1	V1	V1	V1	V1	V1	V1	V1	V1
	Units	16-Mar-22	19-May-22	17-Aug-22	23-Nov-22	24-Mar-23	10-May-23	17-Aug-23	15-Nov-23	27-Feb-24
Lithium-D	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	3.5	2.5	-	-	-	-	-	-	-
Manganese-D	mg/L	< 0.005	< 0.005	-	0.005	0.008	0.014	< 0.005	0.008	-
Mercury-D	mg/L	-	-	-	0.0000051	< 0.0000025	< 0.0000025	< 0.0000025	< 0.0000025	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	0.11	-	-	-	-	-	-	-	-
Potassium-D	mg/L	< 0.6	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	3.31	2.27	-	2.39	2.5	2.43	2.09	2.79	-
Silver-D	mg/L	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	2.8	2.5	-	-	-	-	-	-	-
Strontium-D	mg/L	0.066	0.064	-	0.064	0.061	0.059	0.066	0.058	-
Thallium-D	mg/L	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	1.7	-	-	-	-	-	-	-	-
Titanium-D	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Uranium-D	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-D	mg/L	0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-

STATION		STATION		V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2
	Units		Units	8-Jul-11	7-Sep-11	2-Nov-11	11-Jan-12	7-Mar-12	1-May-12	27-Jun-12	22-Aug-12	18-Oct-12	11-Dec-12	14-Feb-13	24-Sep-13	12-Nov-14
Field Parameters		**Field Parameters**														
Temperature	°C	**Temperature**	°C	22.31	16.14	6.63	0.06	0.17	7.28	17.39	16.54	6.85	0.04	0.17	11.56	1.4
pH	s.u.	**pH**	s.u.	8.04	8.44	8.27	8.41	8.43	8.18	8.15	7.77	7.66	9.03	7	8.17	7.5
Conductivity	µS/cm	**Conductivity**	µS/cm	104	116	118	134	114	110	115	115	105	108	115	85	90.9
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	9.08	10.23	11.29	12.85	12.72	12.87	7.95	8.48	10.97	9.6	-	9.87	11.2
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters		**Lab Parameters**														
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	45	52	47	52	52	46	55	51	47	45	52	52	40
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	40	-	-	42	47	40	47	48	43	43	45	40	38
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 10	-	-	< 10	< 10	< 10	14	< 10	< 10	< 10	15	< 10	< 10
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	68	-	56	78	94	100	48	76	52	42	68	82	48
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 1	2	< 1	< 1	< 1	1	2	< 1	2	38	< 1	< 2	1
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**														
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.086	< 0.05	< 0.05	< 0.05	< 0.05
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	0.001224488	0.003797482	0.000646755	0.000522863	0.00055194	0.00055586	0.001105876	0.000444633	0.000566856	-	0.000021	0.000754588	0.0000733
Chloride	mg/L	**Chloride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	**Fluoride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	**Sulphate**	mg/L	1	5	< 1	< 1	< 1	< 1	< 1	5	1	< 1	< 1	< 1	< 1
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals		**Total Metals**														
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.05	0.039	0.077	0.071	0.054	0.095	0.064	0.06	0.087	0.58	0.074	0.074	0.086
Antimony-T	mg/L	**Antimony-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-T	mg/L	**Boron-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium-T	mg/L	**Calcium-T**	mg/L	14	16	17	15	17	14	15	15	14	15	16	15	12
Chromium-T	mg/L	**Chromium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		STATION		V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2
	Units		Units	8-Jul-11	7-Sep-11	2-Nov-11	11-Jan-12	7-Mar-12	1-May-12	27-Jun-12	22-Aug-12	18-Oct-12	11-Dec-12	14-Feb-13	24-Sep-13	12-Nov-14
Cobalt-T	mg/L	**Cobalt-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-T	mg/L	**Copper-T**	mg/L	< 0.001	0.001	< 0.001	0.0012	0.001	0.0014	0.0032	0.0012	0.0019	0.003	0.001	< 0.001	< 0.001
Iron-T	mg/L	**Iron-T**	mg/L	0.1	0.12	0.21	0.22	0.15	0.15	0.13	0.05	0.13	0.76	0.15	0.19	0.16
Lead-T	mg/L	**Lead-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.001	< 0.0005	< 0.0005	< 0.0005
Lithium-T	mg/L	**Lithium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese-T	mg/L	**Manganese-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-T	mg/L	**Mercury-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0014	< 0.001	< 0.001	< 0.001
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-T	mg/L	**Selenium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-T	mg/L	**Silicon-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-T	mg/L	**Silver-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-T	mg/L	**Strontium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-T	mg/L	**Thallium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-T	mg/L	**Tin-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-T	mg/L	**Uranium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-T	mg/L	**Zinc-T**	mg/L	0.0025	0.0025	0.0025	0.0075	0.0025	0.0025	0.0025	0.0025	0.0025	0.0067	0.0025	0.0025	0.0025
Zirconium-T	mg/L	**Zirconium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals		**Dissolved Metals**														
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.021	0.012	0.028	0.05	0.029	0.033	0.015	0.015	0.029	0.036	0.044	0.032	0.051
Antimony-D	mg/L	**Antimony-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium-D	mg/L	**Barium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	**Boron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	-	-	-	-	-	-	-	-	13.8	-	-	-	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	**Copper-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron-D	mg/L	**Iron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead-D	mg/L	**Lead-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		STATION		V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2
	Units		Units	8-Jul-11	7-Sep-11	2-Nov-11	11-Jan-12	7-Mar-12	1-May-12	27-Jun-12	22-Aug-12	18-Oct-12	11-Dec-12	14-Feb-13	24-Sep-13	12-Nov-14
Lithium-D	mg/L	**Lithium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	-	-	-	-	-	2.95	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel-D	mg/L	**Nickel-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	**Silicon-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	**Silver-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	**Thallium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	**Tin-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	**Uranium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	**Zinc-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2
	Units	7-Oct-15	13-Jun-18	29-Aug-18	19-Jun-19	14-Aug-19	22-Oct-19	29-Apr-20	2-Sep-20	5-Nov-20	26-Mar-21	18-Jun-21	19-Aug-21	22-Nov-21	16-Mar-22	19-May-22	17-Aug-22	23-Nov-22	23-Nov-22
Field Parameters																			
Temperature	°C	11.5	-	17	19	19	8	2.7	16	2.1	1.4	20	26	0.8	0.1	12	20.7	-	1.7
pH	s.u.	7.12	-	7.4	7.6	7.3	7	7	7.5	7.7	7.9	-	8.4	8.3	7.1	7.5	7.14	-	7.61
Conductivity	µS/cm	88.3	-	111	77.4	92.5	93.1	87.4	115	100	98.1	101	117	114	122	87.3	93.8	-	94.4
Dissolved Oxygen	mg/L	8.2	-	7.53	5.78	6.53	9.61	12	6.83	12.3	12.5	8.28	9.24	13.8	12.6	9.99	6.07	-	13.1
Dissolved Oxygen %	%	-	-	78.1	62	71.2	81.1	-	-	88.9	92.2	91.7	117	96.9	85	92.3	67.7	-	94
Oxidation-Reduction Potential	mV	-	-	113	162	147	144	167	-	-	49.4	-	6.7	96.6	156	204	62.9	-	-
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.38	7.4
Turbidity	NTU	2	1.51	1.38	0.96	1.08	1.24	0.64	1.22	1.68	0.82	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	43	40	51.4	35.1	40.7	41.5	43.6	49.3	47.7	48.1	49.4	50.2	45.4	58.8	41.1	-	42.7	42.7
Alkalinity, Total (as CaCO3)	mg/L	38	39	45	33	39	37	34	46	41	41	57	51	51	56	35	-	38	39
Acidity (as CaCO3)	mg/L	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	-	7	-	-	-
Total Dissolved Solids	mg/L	80	91	77	49	100	66	51	94	89	77	86	84	82	56	68	-	80	64
Total Suspended Solids	mg/L	2	6	8	1	1	3	2	2	4	7	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	9.4	11.2	9.1	8.2	10.1	-	13.9	13.6
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	9	10.1	9	8.1	9.8	-	13.2	12.5
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145.2
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.05	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	0.11	< 0.02	-	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002	< 0.000002	< 0.000002	0.000791	< 0.000002	-	-	-
Chloride	mg/L	-	-	-	-	-	-	-	-	-	3.7	3.33	2.72	2.18	2.82	3.17	-	2.67	2.66
Cyanide (CN), Free	mg/L	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.2	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	0.12	< 0.05	< 0.05	0.05	0.08	< 0.05	-	< 0.05	< 0.05
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	0.12	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	< 0.03	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02
Sulphate	mg/L	< 1	< 2	6	< 2	2	< 2	< 2	5	12	< 2	4.16	3.75	3.59	4.23	3.33	-	2.92	2.92
Total Kjeldahl Nitrogen	mg/L	0.37	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.013	< 0.006
Total Metals																			
Aluminum-T	mg/L	0.11	0.064	0.03	0.067	0.046	0.08	0.1	0.04	0.068	0.059	0.012	0.046	0.068	0.043	0.06	-	0.069	0.069
Antimony-T	mg/L	-	0.0001	0.0001	0.00045	0.00045	0.00045	0.00045	0.00045	0.00045	0.00045	0.0005	0.0005	0.0005	0.0005	0.0005	-	< 0.001	< 0.001
Arsenic-T	mg/L	< 0.001	0.0005	0.0005	0.0005	0.0006	0.0004	0.0005	0.0006	0.0008	0.0007	0.0015	0.0015	0.0015	0.0005	0.0005	-	< 0.001	< 0.001
Barium-T	mg/L	-	0.0118	0.0124	0.0111	0.0114	0.0116	0.0105	0.0131	0.0136	0.0141	0.014	0.013	0.012	0.025	0.025	-	< 0.05	< 0.05
Beryllium-T	mg/L	-	0.0000035	0.0000035	0.0000035	0.0000035	0.0000035	0.0000035	0.0000035	0.00001	0.0000035	0.00025	0.00025	0.0005	0.00025	0.00025	-	< 0.0005	< 0.0005
Bismuth-T	mg/L	-	0.0000035	0.0000035	0.0000035	0.0000035	0.0000035	0.0000035	0.0000035	0.000023	0.0000035	0.001	0.001	-	0.0005	0.0005	-	< 0.001	< 0.001
Boron-T	mg/L	-	0.001	0.003	0.004	0.003	0.003	0.003	0.005	0.011	0.002	0.005	0.005	0.005	0.005	0.005	-	< 0.01	< 0.01
Cadmium-T	mg/L	< 0.0001	0.000003	0.000007	0.000008	0.000005	0.000007	0.000008	0.0000015	0.00001	0.000009	0.00005	0.00005	0.00005	0.000008	0.000008	-	< 0.000016	0.000018
Calcium-T	mg/L	12	11.5	15.2	10.1	11.7	12.2	12.9	14.7	14.1	14.5	-	-	-	17.9	12.2	-	12.5	12.5
Chromium-T	mg/L	-	0.00035	0.00031	0.00032	0.00008	0.00047	0.00051	0.00033	0.00038	0.0016	0.0015	0.0015	0.0015	0.0006	0.00025	-	0.0007	< 0.0005

STATION		V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2
	Units	7-Oct-15	13-Jun-18	29-Aug-18	19-Jun-19	14-Aug-19	22-Oct-19	29-Apr-20	2-Sep-20	5-Nov-20	26-Mar-21	18-Jun-21	19-Aug-21	22-Nov-21	16-Mar-22	19-May-22	17-Aug-22	23-Nov-22	23-Nov-22
Cobalt-T	mg/L	-	0.000052	0.000037	0.000051	0.00004	0.000043	0.000067	0.000034	0.00006	0.00022	0.00025	0.00025	0.00025	0.00045	0.00005	-	0.00006	0.00006
Copper-T	mg/L	< 0.001	0.0008	0.00081	0.0008	0.0007	0.0008	0.0009	0.0007	0.001	0.0018	0.001	0.001	0.0005	0.0012	0.0013	-	0.0014	0.0013
Iron-T	mg/L	0.26	0.142	0.118	0.135	0.095	0.118	0.179	0.112	0.13	3.49	0.129	0.088	0.068	0.1	0.1	-	0.2	0.2
Lead-T	mg/L	< 0.0005	0.00007	0.00006	0.00005	0.00007	0.00002	0.000005	0.000005	0.000005	0.00012	0.0005	0.0005	0.0005	0.0003	0.00005	-	< 0.0001	0.0001
Lithium-T	mg/L	-	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0005	0.0025	0.0003	0.005	0.005	0.005	0.0005	0.0005	-	< 0.001	< 0.001
Magnesium-T	mg/L	2.6	2.73	3.24	2.39	2.76	2.68	2.74	3.07	3.03	2.87	-	-	-	3.79	2.59	-	2.8	2.8
Manganese-T	mg/L	-	0.0209	0.0137	0.0134	0.0138	0.0122	0.0179	0.0193	0.0438	0.0489	0.038	0.011	0.014	0.013	0.017	-	0.014	0.014
Mercury-T	mg/L	< 0.0001	0.00003	0.000005	0.000005	0.00001	0.000005	0.000005	0.000005	0.000005	0.000005	-	-	-	-	-	-	0.0000088	0.0000044
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.0005	0.00019	0.00025	0.00017	0.00012	0.00013	0.00019	0.00031	0.00013	0.00029	0.001	0.001	0.001	0.0005	0.0005	-	< 0.001	< 0.001
Nickel-T	mg/L	< 0.001	0.0004	0.0004	0.0002	0.0003	0.0003	0.0004	0.0003	0.0003	0.0008	0.0015	0.0015	0.0015	0.0015	0.0015	-	< 0.003	< 0.003
Phosphorus-T	mg/L	-	-	-	0.007	0.008	0.007	0.0015	0.01	0.0015	0.01	0.09	0.028	0.003	0.008	0.028	-	-	-
Potassium-T	mg/L	-	0.32	0.394	0.255	0.253	0.341	0.381	0.505	0.35	0.375	-	-	-	0.3	-	-	< 0.6	0.7
Selenium-T	mg/L	0.001	0.00005	0.00009	0.00008	0.00007	0.00007	0.00006	0.00007	0.00002	0.00008	0.001	0.004	0.0005	0.00025	0.00025	-	< 0.0005	< 0.0005
Silicon-T	mg/L	-	1.75	2.37	2	2.12	2.27	2.8	2.89	2.73	3.1	2.41	2.02	2.45	3.6	2.2	-	2.6	2.6
Silver-T	mg/L	-	0.000025	0.000025	0.000025	0.000025	0.000025	0.000025	0.000025	0.000025	0.000025	0.00005	0.0002	0.00005	0.000025	0.000025	-	< 0.00005	< 0.00005
Sodium-T	mg/L	-	2.37	2.68	1.96	2.55	2.38	2.19	3.27	2.33	2.37	-	-	-	2.96	2.57	-	3.2	3.4
Strontium-T	mg/L	-	0.0647	0.0656	0.05	0.0539	0.0562	0.0501	0.0611	0.0612	0.0674	0.056	0.062	0.059	0.069	0.062	-	0.062	0.061
Thallium-T	mg/L	-	0.0000025	0.0000025	0.0000025	0.0000025	0.0000025	0.0000025	0.0000025	0.0000025	0.0000025	0.00015	0.00015	0.00015	0.00005	0.00005	-	< 0.0001	< 0.0001
Tin-T	mg/L	-	0.00008	0.00008	0.00007	0.00014	0.00003	0.00003	0.00008	0.0002	0.00012	0.001	0.001	0.001	0.00025	0.00025	-	< 0.0005	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-
Titanium-T	mg/L	-	0.00243	0.00073	0.00136	0.00115	0.00217	0.00215	0.00076	0.00162	0.0013	0.008	0.001	0.005	0.001	0.001	-	0.002	0.002
Uranium-T	mg/L	-	0.00002	0.000021	0.000019	0.000023	0.000023	0.000023	0.000025	0.000001	0.000028	0.001	0.001	0.001	0.0005	0.0005	-	< 0.001	< 0.001
Vanadium-T	mg/L	-	0.00038	0.0004	0.00033	0.0004	0.00034	0.00039	0.0004	0.00043	0.00037	0.001	0.001	0.001	0.0005	0.0005	-	< 0.001	< 0.001
Zinc-T	mg/L	0.0025	0.001	0.004	0.001	0.003	0.005	0.003	0.001	0.004	0.001	0.0025	0.0025	0.01	0.002	0.002	-	0.005	< 0.004
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	-	0.002	0.002	0.002	0.005	0.005	-	< 0.01	< 0.01
Dissolved Metals																			
Aluminum-D	mg/L	0.048	0.021	0.014	0.033	0.019	0.007	0.071	0.04	0.032	0.035	0.015	0.024	0.022	0.013	0.031	-	0.042	0.045
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	0.0005	< 0.003	0.011	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	0.013	0.01	0.012	0.011	< 0.05	< 0.05	-	< 0.05	< 0.05
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.002	< 0.002	-	< 0.001	< 0.001	-	< 0.001	< 0.001
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01
Cadmium-D	mg/L	12	-	-	-	-	-	-	-	-	0.000006	< 0.0001	0.0003	< 0.0001	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016
Calcium-D	mg/L	-	-	14.2	-	-	-	-	-	-	13.7	-	-	-	17.4	10.8	-	-	-
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	0.00041	< 0.003	< 0.002	< 0.003	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	0.000023	< 0.0005	< 0.0005	< 0.0005	< 0.0009	0.00001	-	0.00003	0.00004
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	0.0006	< 0.001	0.001	< 0.001	< 0.0008	< 0.0008	-	< 0.0008	0.002
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	0.101	0.027	0.07	< 0.01	< 0.1	< 0.1	-	0.1	0.1
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	0.00003	< 0.001	< 0.0005	< 0.0005	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001

STATION		V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2	V2
	Units	7-Oct-15	13-Jun-18	29-Aug-18	19-Jun-19	14-Aug-19	22-Oct-19	29-Apr-20	2-Sep-20	5-Nov-20	26-Mar-21	18-Jun-21	19-Aug-21	22-Nov-21	16-Mar-22	19-May-22	17-Aug-22	23-Nov-22	23-Nov-22
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	0.0003	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	-	< 0.001	< 0.001
Magnesium-D	mg/L	2.8	-	3.03	-	-	-	-	-	-	2.78	-	-	-	3.7	2.5	-	-	-
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	0.0208	0.031	0.008	0.007	0.01	< 0.005	-	< 0.005	< 0.005
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0000043	0.0000042
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	0.0002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	0.0002	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003	-	< 0.003	< 0.003
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.003	-	-	-	0.1	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	0.355	-	-	-	< 0.6	-	-	-	-
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	0.00009	< 0.004	0.003	< 0.001	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	2.54	1.91	3.08	2.74	3.42	2.23	-	2.35	2.33
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	2.29	-	-	-	2.8	2.5	-	-	-
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	0.0634	0.065	0.073	0.057	0.066	0.061	-	0.064	0.067
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	0.00069	0.018	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	0.00002	< 0.002	< 0.0005	< 0.0005	< 0.001	< 0.001	-	< 0.001	< 0.001
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	0.00024	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	0.002	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	-	< 0.004	< 0.004
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.004	< 0.004	< 0.004	0.01	< 0.01	-	< 0.01	< 0.01

STATION		V2	V2	V2	V2
	Units	12-May-23	18-Aug-23	15-Nov-23	27-Feb-24
Field Parameters					
Temperature	°C	11	18.7	2.6	0.8
pH	s.u.	7.27	7.66	7.15	7.42
Conductivity	µS/cm	81.1	93.3	83.7	103.1
Dissolved Oxygen	mg/L	8.32	8.13	12.54	12.71
Dissolved Oxygen %	%	75.5	87.2	92	88.9
Oxidation-Reduction Potential	mV	-	-	-	-
Lab Parameters					
pH	s.u.	7.77	7.05	6.41	-
Turbidity	NTU	3.4	1.6	1.2	-
Hardness (as CaCO3)	mg/L	33.8	46.2	43.4	-
Alkalinity, Total (as CaCO3)	mg/L	37	48	36	-
Acidity (as CaCO3)	mg/L	< 5.0	< 5.0	8.1	-
Total Dissolved Solids	mg/L	74	84	86	-
Total Suspended Solids	mg/L	< 10	< 10	< 10	-
Total Organic Carbon	mg/L	11.1	9.2	11.8	-
Dissolved Organic Carbon	mg/L	11.1	9.1	11.6	-
Oxidation-Reduction Potential	mV	110.8	-	-	-
Nutrients and Anions					
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	0.03	-
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-
Chloride	mg/L	3	3.09	2.36	-
Cyanide (CN), Free	mg/L	< 0.002	0.002	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	0.006	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	0.06	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	3	3.39	2.96	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-
Total Phosphorus	mg/L	< 0.02	< 0.02	< 0.02	-
Total Metals					
Aluminum-T	mg/L	0.096	0.042	0.079	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.000016	< 0.000016	< 0.000016	-
Calcium-T	mg/L	9.9	13.7	12.6	-
Chromium-T	mg/L	< 0.0005	< 0.0005	0.0007	-

STATION		V2	V2	V2	V2
	Units	12-May-23	18-Aug-23	15-Nov-23	27-Feb-24
Cobalt-T	mg/L	0.00005	0.00006	0.00006	-
Copper-T	mg/L	0.0011	0.0011	0.0014	-
Iron-T	mg/L	0.2	0.1	0.2	-
Lead-T	mg/L	0.0002	< 0.0001	< 0.0001	-
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	-
Magnesium-T	mg/L	2.2	2.9	2.9	-
Manganese-T	mg/L	0.015	0.016	0.016	-
Mercury-T	mg/L	0.0000034	0.00000125	0.00000125	-
Methylmercury-T	mg/L	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	-
Phosphorus-T	mg/L	-	-	-	-
Potassium-T	mg/L	< 0.6	< 0.6	< 0.6	-
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	1.7	2.2	2.9	-
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	2.5	2.6	2.4	-
Strontium-T	mg/L	0.065	0.062	0.054	-
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-
Titanium-T	mg/L	0.003	0.001	0.001	-
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.004	< 0.004	< 0.004	-
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	-
Dissolved Metals					
Aluminum-D	mg/L	0.041	0.019	0.049	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	-	-
Chromium-D	mg/L	< 0.0005	0.0006	< 0.0005	-
Cobalt-D	mg/L	< 0.00006	< 0.00006	< 0.00006	-
Copper-D	mg/L	< 0.0008	0.0008	< 0.0008	-
Iron-D	mg/L	0.1	< 0.1	0.1	-
Lead-D	mg/L	< 0.0001	< 0.0001	< 0.0001	-

STATION		V2	V2	V2	V2
	Units	12-May-23	18-Aug-23	15-Nov-23	27-Feb-24
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	-	-
Manganese-D	mg/L	0.013	0.008	0.009	-
Mercury-D	mg/L	< 0.0000025	< 0.0000025	< 0.0000025	-
Methylmercury-D	mg/L	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-
Potassium-D	mg/L	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	1.84	2.25	2.74	-
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-
Strontium-D	mg/L	0.061	0.068	0.06	-
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-
Titanium-D	mg/L	< 0.001	< 0.001	< 0.001	-
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.004	0.007	< 0.004	-
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	-

STATION		STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units		Units	14-Dec-10	24-Feb-11	4-May-11	6-Jul-11	6-Sep-11	31-Oct-11	9-Jan-12	5-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	16-Oct-12	10-Dec-12	12-Feb-13
Field Parameters		**Field Parameters**															
Temperature	°C	**Temperature**	°C	0.3	0.05	3.45	22.74	15.78	5.94	0.11	0.14	6.15	19	15.55	4.19	0.17	0.04
pH	s.u.	**pH**	s.u.	-	7.54	7.29	7.86	7.98	7.72	8.16	7.99	8.3	7.9	8.08	7.86	8.61	6.93
Conductivity	µS/cm	**Conductivity**	µS/cm	55.8	128	69	110	130	159	116	95	119	147	188	125	82	141
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	-	14.12	13.43	8.35	9.92	11.58	14.35	14.93	12.89	8.65	9.53	12.86	14.08	-
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Parameters		**Lab Parameters**															
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	55	56	30	49	61	51	53	82	47	61	57	58	56	58
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	44	51	25	43	-	43	43	61	40	51	51	34	47	49
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	72	74	42	66	80	70	42	128	78	84	90	134	58	76
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	3	1	26	3	3	3	< 1	< 1	3	6	4	14	2	< 1
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**															
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.077	0.11	< 0.05	< 0.05
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	-	0.0000718	0.0000536	0.000847632	0.000674736	0.00017577	0.000292574	0.00019806	0.000666237	0.000712143	0.002554979	0.0009249	-	0.0000176
Chloride	mg/L	**Chloride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fluoride	mg/L	**Fluoride**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	**Sulphate**	mg/L	9	8	< 1	< 1	4	2	4	13	3	1	7	20	8	2
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	0.05	-	-	-	-	-	-	-
Total Metals		**Total Metals**															
Aluminum-T	mg/L	**Aluminum-T**	mg/L	-	0.067	0.5	0.18	0.11	0.12	0.09	0.075	0.13	0.21	0.099	0.43	0.12	0.096
Antimony-T	mg/L	**Antimony-T**	mg/L	-	-	-	-	-	< 0.0005	< 0.0005	-	-	-	-	-	-	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	**Barium-T**	mg/L	-	-	-	-	-	0.017	0.015	-	-	-	-	-	-	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	-	-	-	-	-	< 0.0005	< 0.0005	-	-	-	-	-	-	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	-	-	-	-	< 0.001	-	-	-	-	-	-	-	-
Boron-T	mg/L	**Boron-T**	mg/L	-	-	-	-	-	< 0.01	-	-	-	-	-	-	-	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium-T	mg/L	**Calcium-T**	mg/L	14	18	10	16	19	16	16	22	14	18	18	18	16	17
Chromium-T	mg/L	**Chromium-T**	mg/L	-	-	-	-	-	< 0.005	< 0.005	-	-	-	-	-	-	-

STATION		STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units		Units	14-Dec-10	24-Feb-11	4-May-11	6-Jul-11	6-Sep-11	31-Oct-11	9-Jan-12	5-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	16-Oct-12	10-Dec-12	12-Feb-13
Cobalt-T	mg/L	**Cobalt-T**	mg/L	-	-	-	-	-	< 0.0005	< 0.0005	-	-	-	-	-	-	-
Copper-T	mg/L	**Copper-T**	mg/L	0.002	0.001	0.002	0.002	0.001	0.001	0.0051	0.0016	0.0015	0.0018	0.0012	0.0031	0.0018	0.0016
Iron-T	mg/L	**Iron-T**	mg/L	0.1	0.21	0.54	0.25	0.2	0.19	0.2	0.22	0.19	0.35	0.17	0.59	0.22	0.22
Lead-T	mg/L	**Lead-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	0.0009	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium-T	mg/L	**Lithium-T**	mg/L	-	-	-	-	-	< 0.005	-	-	-	-	-	-	-	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	-	-	3.7	3.8	-	-	-	-	-	-	-
Manganese-T	mg/L	**Manganese-T**	mg/L	-	-	-	-	-	0.015	0.025	-	-	-	-	-	-	-
Mercury-T	mg/L	**Mercury-T**	mg/L	< 0.0001	0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.001	< 0.001	0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00082	< 0.0005	< 0.0005
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0012	< 0.001	< 0.001
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	-	-	-	-	-	-	< 0.1	-	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-T	mg/L	**Selenium-T**	mg/L	-	-	-	-	-	< 0.0001	< 0.0001	-	-	-	-	-	-	-
Silicon-T	mg/L	**Silicon-T**	mg/L	-	-	-	-	-	2.6	-	-	-	-	-	-	-	-
Silver-T	mg/L	**Silver-T**	mg/L	-	-	-	-	-	0.00005	0.00005	-	-	-	-	-	-	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	-	-	2.7	2.4	-	-	-	-	-	-	-
Strontium-T	mg/L	**Strontium-T**	mg/L	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	-
Thallium-T	mg/L	**Thallium-T**	mg/L	-	-	-	-	-	< 0.00005	< 0.00005	-	-	-	-	-	-	-
Tin-T	mg/L	**Tin-T**	mg/L	-	-	-	-	-	< 0.001	-	-	-	-	-	-	-	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	< 0.001	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	-	-	-	-	-	< 0.005	-	-	-	-	-	-	-	-
Uranium-T	mg/L	**Uranium-T**	mg/L	-	-	-	-	-	< 0.0001	-	-	-	-	-	-	-	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	-	-	-	-	-	< 0.0005	< 0.0005	-	-	-	-	-	-	-
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.0062	0.0084	< 0.005	< 0.005	< 0.005	0.0064	< 0.005	0.0051
Zirconium-T	mg/L	**Zirconium-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals		**Dissolved Metals**															
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.026	0.027	0.068	0.022	0.012	0.043	0.051	0.025	0.051	0.017	0.015	0.13	0.045	0.039
Antimony-D	mg/L	**Antimony-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-
Barium-D	mg/L	**Barium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron-D	mg/L	**Boron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.0001	-	-	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	-	-	-	15.8	-	-	-	16	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper-D	mg/L	**Copper-D**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-
Iron-D	mg/L	**Iron-D**	mg/L	-	-	-	-	-	-	-	-	-	-	0.19	-	-	-
Lead-D	mg/L	**Lead-D**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.0005	-	-	-

STATION		STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units		Units	14-Dec-10	24-Feb-11	4-May-11	6-Jul-11	6-Sep-11	31-Oct-11	9-Jan-12	5-Mar-12	30-Apr-12	25-Jun-12	20-Aug-12	16-Oct-12	10-Dec-12	12-Feb-13
Lithium-D	mg/L	**Lithium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	-	-	-	3.31	-	-	-	3.9	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.0005	-	-	-
Nickel-D	mg/L	**Nickel-D**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silicon-D	mg/L	**Silicon-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver-D	mg/L	**Silver-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium-D	mg/L	**Thallium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin-D	mg/L	**Tin-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium-D	mg/L	**Uranium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc-D	mg/L	**Zinc-D**	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.005	-	-	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	29-Apr-13	15-Jul-13	20-Sep-13	12-Nov-14	6-Oct-15	15-Jun-16	10-Oct-17	11-Jun-18	28-Aug-18	13-Nov-18	11-Mar-19	18-Jun-19	24-Jul-19	13-Aug-19	30-Sep-19	21-Oct-19	19-Nov-19	16-Dec-19
Field Parameters																			
Temperature	°C	1.24	22.21	14.77	0.1	10.6	16.6	13.6	18	19	0	0	17	21	20	12	6.5	0.7	0
pH	s.u.	7.23	7.44	7.74	7.5	6.75	7.83	6.86	6.2	7.6	8.1	7	7.7	7.1	8	7.6	7.3	7.4	7
Conductivity	µS/cm	81	106	92	100.5	97.6	90.9	126	92	130	103	113	80.8	-	101	110	123	120	114
Dissolved Oxygen	mg/L	-	8.82	9.6	13.4	8.23	6.9		7.89	6.92	12	12.7	8.92	5.55	6.58	8.53	11.2	11.3	11.5
Dissolved Oxygen %	%	-	-	-	-	-	-	-	-	74.1	82	86.3	91.4	-	72.4	-	90.9	-	78.6
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	130	115	127	159	-	177	-	130	-	142
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	-	-	-	-	3.2	2.5	3.24	2.28	-	3.41	1.21	2.96	4.7	2.31	1.88	1.28	3.35	1.32
Hardness (as CaCO3)	mg/L	40	56	53	46	49	47	61.2	47.1	63.1	45.5	64	39.2	47.7	44	52.3	56.9	51.7	49.8
Alkalinity, Total (as CaCO3)	mg/L	26	43	42	40	41	36	46	43	55	37	56	32	43	40	42	43	43	41
Acidity (as CaCO3)	mg/L	< 10	< 10	< 10	< 10	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Total Dissolved Solids	mg/L	78	80	92	50	80	96	100	49	100	63	120	49	89	74	86	69	97	71
Total Suspended Solids	mg/L	48	4	1	6	2	< 10	3	3	8	6	1	6	5	3	2	2	5	1
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	9	7	-	8	-	6	8
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	0.072	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1
Ammonia, Un-ionized (as N)	mg/L	0.000112005	0.000317026	0.000364341	0.0000647		0.0005	0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	0.002	< 0.001	0.002	< 0.001	< 0.001	< 0.001
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	-	3	3
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cyanide (CN), Total	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate	mg/L	5	< 1	< 1	< 1	< 1	< 1	10	< 2	4	< 2	4	< 2	< 2	2	2	7	6	8
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	0.39	0.28	0.25	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1
Total Phosphorus	mg/L	-	-	-	-	0.015	0.011	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.81	0.15	0.089	0.2	0.12	0.13	0.084	0.096	0.12	0.159	0.064	0.134	0.157	0.154	0.08	0.079	0.155	0.06
Antimony-T	mg/L	-	-	-	-	-	-	-	< 0.0002	0.0004	< 0.0002	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.0005	0.0007	0.0005	0.0005	0.0006	0.0007	0.0006	0.0006	0.0005	0.0004	0.0005
Barium-T	mg/L	-	-	-	-	-	-	-	0.0116	0.0164	0.0137	0.0154	0.0139	0.01091	0.0123	0.0119	0.0172	0.0147	0.0186
Beryllium-T	mg/L	-	-	-	-	-	-	-	0.000007	< 0.000007	0.000008	< 0.000007	0.00001	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth-T	mg/L	-	-	-	-	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000007	0.000013	0.000008	< 0.000007	0.000028
Boron-T	mg/L	-	-	-	-	-	-	-	0.004	0.005	0.003	0.005	0.004	0.01	0.005	< 0.002	0.004	0.004	< 0.002
Cadmium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00001	0.000011	< 0.000003	0.000084	0.000004	0.000016	0.000007	0.000006	0.000006	0.000003	0.000007	0.000004
Calcium-T	mg/L	12	15	16	13	13	12	17.7	13.9	18.6	13.2	18.1	11.3	13.6	13	15.3	16.7	15.1	15.1
Chromium-T	mg/L	-	-	-	-	-	-	-	0.00045	0.00044	0.00055	0.00043	0.00047	0.00061	0.00061	0.00035	0.00047	0.00056	0.00038

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	29-Apr-13	15-Jul-13	20-Sep-13	12-Nov-14	6-Oct-15	15-Jun-16	10-Oct-17	11-Jun-18	28-Aug-18	13-Nov-18	11-Mar-19	18-Jun-19	24-Jul-19	13-Aug-19	30-Sep-19	21-Oct-19	19-Nov-19	16-Dec-19
Cobalt-T	mg/L	-	-	-	-	-	-	-	0.00006	0.000079	0.000084	0.000073	0.000089	0.000084	0.00008	0.000054	0.000054	0.000088	0.000055
Copper-T	mg/L	0.0037	0.0014	0.0013	0.0005	0.0012	0.0012	0.00116	0.00093	0.0012	0.00126	0.0085	0.0013	0.0021	0.0011	0.0076	0.0017	0.0017	0.0015
Iron-T	mg/L	0.91	0.29	0.23	0.37	0.37	0.24	0.273	0.195	0.203	0.247	0.206	0.23	0.309	0.217	0.173	0.176	0.241	0.17
Lead-T	mg/L	0.00066	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00009	0.00011	0.00008	0.0001	0.0001	0.00017	0.00013	0.00012	0.00009	0.00007	0.00003	0.00006
Lithium-T	mg/L	-	-	-	-	-	-	-	0.0005	0.0006	0.0005	0.0006	0.0005	0.0005	0.0005	0.0004	0.0004	0.0005	0.0003
Magnesium-T	mg/L	-	-	-	-	3.1	2.7	4.14	3.03	4.07	3.04	4.56	2.69	3.3	2.83	3.44	3.73	3.4	2.93
Manganese-T	mg/L	-	-	-	-	-	-	-	0.0179	0.0192	0.0177	0.01985	0.0185	0.0217	0.0182	0.00925	0.0108	0.0196	0.0179
Mercury-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	0.00069	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	0.00046	0.00023	0.00032	0.00022	0.00033	0.00026	0.00069	< 0.00004	0.00023	0.00058	0.00028	0.00031
Nickel-T	mg/L	0.0021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0003	0.0005	0.0005	0.0005	0.0006	0.0004	0.0006	0.0005	0.0005	0.0003	0.0004	0.0005
Phosphorus-T	mg/L	-	-	-	-	-	-	-	-	-	0.006	0.008	0.012	0.014	0.014	0.007	0.008	0.011	0.006
Potassium-T	mg/L	-	-	-	-	-	-	-	0.365	0.443	0.332	0.467	0.29	0.33	0.334	0.398	0.439	0.488	0.369
Selenium-T	mg/L	-	-	-	-	0.001	0.001	0.0001	0.00007	0.00008	0.00008	0.00008	0.00008	0.00009	0.00007	0.00009	0.00011	0.00007	0.00008
Silicon-T	mg/L	-	-	-	-	-	-	-	2.1	2.94	2.79	3.34	2.17	1.97	2.33	2.76	2.82	2.74	2.41
Silver-T	mg/L	-	-	-	-	-	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	-	-	-	-	-	-	-	2.29	2.66	2.23	3.04	1.99	2.48	2.53	2.56	2.14	2.44	2.23
Strontium-T	mg/L	-	-	-	-	-	-	-	0.0698	0.115	0.0903	0.0875	0.0767	0.064	0.0693	0.0781	0.123	0.0916	0.138
Thallium-T	mg/L	-	-	-	-	-	-	-	< 0.000005	0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
Tin-T	mg/L	-	-	-	-	-	-	-	0.00007	0.00004	0.00004	< 0.00006	0.00007	0.00015	0.0001	0.00012	< 0.00006	< 0.00006	0.00007
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	-	-	-	-	-	-	-	0.00263	0.00434	0.00418	0.00158	0.00439	0.00646	0.00558	0.00226	0.00221	0.00526	0.0017
Uranium-T	mg/L	-	-	-	-	-	-	-	0.000027	0.00003	0.00002	0.000034	0.000021	0.000237	0.000027	0.00001	0.000031	0.000022	0.000027
Vanadium-T	mg/L	-	-	-	-	-	-	-	0.00051	0.0006	0.00047	0.00041	0.00053	0.00057	0.00063	0.00043	0.00036	0.00044	0.00028
Zinc-T	mg/L	0.008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002	< 0.002	0.005	< 0.002	0.004	0.002	0.003	0.002	0.007	0.004	0.003	0.003
Zirconium-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals																			
Aluminum-D	mg/L	0.079	0.026	0.032	0.058	0.045	0.044	0.032	0.037	0.074	0.067	0.034	0.043	0.05	0.03	0.021	0.034	0.03	0.039
Antimony-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.0009	< 0.0009	-	-	-	0.0016	< 0.0009
Arsenic-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0006	0.0006	-	-	-	0.0004	0.0005
Barium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0119	0.00986	-	-	-	0.0137	0.01782
Beryllium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.000007	< 0.000007	-	-	-	< 0.000007	< 0.000007
Bismuth-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.000007	< 0.000007	-	-	-	0.000007	0.000012
Boron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.004	0.009	-	-	-	0.004	< 0.002
Cadmium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.000004	< 0.000003	-	-	-	0.000006	0.000005
Calcium-D	mg/L	-	-	-	-	14	-	16.6	-	17.2	12.7	-	10.4	13.2	-	-	-	15.1	14.6
Chromium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00044	0.00025	-	-	-	0.00049	0.0002
Cobalt-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.000046	0.000032	-	-	-	0.000052	0.000052
Copper-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0012	0.0011	-	-	-	0.0018	0.0011
Iron-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.11	0.124	-	-	-	0.144	0.122
Lead-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00003	0.00002	-	-	-	0.00006	< 0.00001

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	29-Apr-13	15-Jul-13	20-Sep-13	12-Nov-14	6-Oct-15	15-Jun-16	10-Oct-17	11-Jun-18	28-Aug-18	13-Nov-18	11-Mar-19	18-Jun-19	24-Jul-19	13-Aug-19	30-Sep-19	21-Oct-19	19-Nov-19	16-Dec-19
Lithium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0004	0.0004	-	-	-	0.0004	0.0003
Magnesium-D	mg/L	-	-	-	-	3.3		3.55	-	3.8	2.88	-	2.52	3.12	-	-	-	3.2	2.8
Manganese-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0053	0.012	-	-	-	0.01368	0.0129
Mercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00025	0.00052	-	-	-	0.00031	0.00029
Nickel-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0008	0.0003	-	-	-	0.0004	0.0004
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.003	< 0.003	-	-	-	0.004	0.003
Potassium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.25	0.296	-	-	-	0.484	0.358
Selenium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00007	0.00008	-	-	-	0.00006	0.00007
Silicon-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	1.89	1.97	-	-	-	2.46	2.18
Silver-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.00005	< 0.00005	-	-	-	< 0.00005	< 0.00005
Sodium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	1.84	2.41	-	-	-	2.42	2.15
Strontium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.0707	0.062	-	-	-	0.0913	0.132
Thallium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.000005	< 0.000005	-	-	-	< 0.000005	< 0.000005
Tin-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.00006	< 0.00006	-	-	-	< 0.00006	0.00014
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00114	0.00095	-	-	-	0.00187	0.00056
Uranium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00002	0.000141	-	-	-	0.000025	0.000026
Vanadium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.00033	0.00039	-	-	-	0.00034	0.00022
Zinc-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	< 0.002	< 0.002	-	-	-	0.004	0.004
Zirconium-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	3-Nov-20	24-Mar-21	28-Apr-21	18-May-21	15-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	17-Nov-21	16-Dec-21	28-Jan-22	17-Feb-22	16-Mar-22
Field Parameters																			
Temperature	°C	1	0	2.5	14	1.4	0.4	7.2	13	18	21	20	15	15	1.1	0.1	0.1	0.1	0
pH	s.u.	7.5	7.5	7	7.8	7.8	7.4	7.8	7.9	7.8	7.9	7.8	8	7.8	8.1	7.7	7.7	8.7	8.3
Conductivity	µS/cm	170	124	83.4	124	113	96.1	142	105	116	117	119	126	135	122	140	126	3	130
Dissolved Oxygen	mg/L	10.3	13.6	14.2	8.08	12.9	13.9	11.3	10.2	8.7	7.6	8.64	8.24	8.1	13.6	13.5	14	14	14.2
Dissolved Oxygen %	%	-	-	-	-	91	100	93.1	99.4	92.4	83.5	98.4	81.2	80.4	96.2	94.1	95.8	95.5	97.5
Oxidation-Reduction Potential	mV	-	139	165	-	-	142	106	118	104	178	86	118	104	158	134	46.4	248	46.7
Lab Parameters																			
pH	s.u.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTU	1.31	1.1	7.66	2.42	2.64	2.49	1.64	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	57.9	56.8	44.3	57.6	57.2	49.7	52.2	54.9	55.6	58.6	55.3	51.5	61.4	55.8	64.5	57.7	66.2	67.4
Alkalinity, Total (as CaCO3)	mg/L	50	45	31	56	45	41	42	46	62	50	57	47	46	54	54	58	53	60
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-	-	-	5	15	-
Total Dissolved Solids	mg/L	100	71	51	80	71	63	71	80	72	82	84	82	92	74	90	84	70	70
Total Suspended Solids	mg/L	1	1	22	2	3	2	3	< 10	< 10	< 10	< 10	< 10	< 10	< 10	21	< 10	< 10	< 10
Total Organic Carbon	mg/L	-	-	-	-	-	-	-	12	8.9	11.7	11	14.1	18.8	12.3	10.5	8.5	8.9	8.3
Dissolved Organic Carbon	mg/L	9	8	12	-	25	9	-	11.4	8.8	11.2	10.4	13.4	17.1	11.9	10.2	8.4	8.8	8.1
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	0.03	< 0.02	0.07
Ammonia, Un-ionized (as N)	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	0.000182	0.000282	< 0.000002	0.000531
Chloride	mg/L	-	3	2	-	0.5	1.9	2	2.3	2.72	2.42	2.67	2.02	1.87	1.82	3.82	2.56	2.53	2.56
Cyanide (CN), Free	mg/L	< 0.005	< 0.2	< 0.2	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	-	-	-	-	0.1	0.42	0.07	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.15	0.08	0.09	0.13
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	0.1	0.42	0.07	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	-	-	-	-	< 0.03	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	8	6	5	5	8	4	< 2	4.43	4.02	6.3	3.92	4.81	8.46	6.68	4.97	5.7	5.52	6.19
Total Kjeldahl Nitrogen	mg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals																			
Aluminum-T	mg/L	0.054	0.045	0.675	0.078	0.179	0.157	0.135	-	0.064	0.117	0.119	0.1	0.124	-	0.633	0.021	0.05	0.054
Antimony-T	mg/L	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	0.0004	0.0005	0.0005	0.0008	0.0007	0.0005	0.0006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	0.0152	0.0146	0.0163	0.0135	0.0132	0.0145	0.014	0.013	0.014	0.02	0.015	0.014	0.023	0.016	0.02	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	< 0.000007	< 0.000007	0.000012	< 0.000007	< 0.000007	0.000007	0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	< 0.000007	< 0.000007	0.000027	< 0.000007	0.000015	0.000038	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	0.003	0.006	0.003	0.005	0.004	0.003	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	0.000008	< 0.000003	0.00002	0.000003	0.000012	0.000016	0.000011	< 0.0001	< 0.0001	< 0.0001	0.0005	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.000016	< 0.000032	< 0.000016
Calcium-T	mg/L	16.9	16.7	12.8	16.7	16.8	14.1	15.1	-	-	-	-	-	-	-	-	18.7	18.4	19.5
Chromium-T	mg/L	0.00037	0.00034	0.00138	0.00053	0.00119	0.00059	0.00068	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0005	< 0.0005	< 0.0005

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	3-Nov-20	24-Mar-21	28-Apr-21	18-May-21	15-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	17-Nov-21	16-Dec-21	28-Jan-22	17-Feb-22	16-Mar-22
Cobalt-T	mg/L	0.000054	0.000107	0.000328	0.000064	0.000108	0.000107	0.00011	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0009	< 0.0009	< 0.0009
Copper-T	mg/L	0.0012	0.001	0.0023	0.0009	0.0014	0.0016	0.0011	0.003	< 0.001	0.002	0.002	0.001	0.002	0.002	0.002	0.006	0.0013	0.0029
Iron-T	mg/L	0.157	0.148	0.57	0.187	0.265	0.281	0.188	0.223	0.176	0.265	0.193	0.254	0.235	0.201	0.622	0.1	0.1	0.2
Lead-T	mg/L	0.00006	0.00006	< 0.00001	0.0001	0.00015	0.0003	0.00022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0002	< 0.0001	< 0.0001
Lithium-T	mg/L	0.0005	0.0012	0.0007	0.0009	0.0008	0.0004	0.0007	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001
Magnesium-T	mg/L	3.79	3.67	3.02	3.85	3.73	3.54	3.52	-	-	-	-	-	-	-	-	4.2	4	4.54
Manganese-T	mg/L	0.0215	0.0196	0.0373	0.0158	0.0366	0.0431	0.0186	0.024	0.049	0.03	0.025	0.016	0.012	0.013	0.041	0.013	0.01	0.014
Mercury-T	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	0.00022	0.00024	0.00031	< 0.00004	0.00037	0.00024	0.00032	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	0.0003	0.0005	0.0011	0.0004	0.0005	0.0006	0.0004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-T	mg/L	0.006	0.01	0.014	0.012	< 0.003	0.015	0.019	0.018	0.24	0.014	0.037	0.016	0.036	0.015	0.024	0.014	0.01	0.007
Potassium-T	mg/L	0.525	0.449	0.496	0.46	0.532	0.412	0.462	-	-	-	-	-	-	-	-	-	-	< 0.6
Selenium-T	mg/L	0.00007	0.00005	0.00008	0.00007	0.00014	0.00006	0.0001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.0005
Silicon-T	mg/L	2.97	3.2	4.17	2.84	3.94	3.64	3.38	2.03	1.68	2.37	3.09	2.88	2.81	2.63	3.65	2.9	3.1	3.4
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	2.7	2.58	1.69	2.96	2.22	2.13	3.26	-	-	-	-	-	-	-	-	0.003	2.9	2.9
Strontium-T	mg/L	0.103	0.0916	0.102	0.0768	0.083	0.0884	0.081	0.076	0.089	0.138	0.091	0.088	0.171	0.13	0.093	0.102	0.1	0.099
Thallium-T	mg/L	< 0.000005	< 0.000005	0.000007	< 0.000005	< 0.000005	0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	0.00006	0.00017	< 0.00006	0.00008	< 0.00006	0.00007	0.00009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2
Titanium-T	mg/L	0.00173	0.00143	0.0233	0.00327	0.00482	0.00456	0.0039	< 0.002	< 0.002	0.005	< 0.002	0.006	< 0.01	0.01	0.026	< 0.001	0.001	0.002
Uranium-T	mg/L	0.000026	0.00003	0.000041	0.000033	0.000032	0.000027	0.000037	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	0.00033	0.0003	0.00118	0.00054	0.00044	0.00047	0.00053	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001
Zinc-T	mg/L	0.003	0.006	0.005	< 0.002	0.003	0.01	0.003	< 0.005	< 0.005	0.288	< 0.005	< 0.005	< 0.02	< 0.02	< 0.02	0.005	< 0.008	0.012
Zirconium-T	mg/L	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01
Dissolved Metals																			
Aluminum-D	mg/L	0.05	0.026	0.115	0.034	0.085	0.047	0.046	0.026	0.019	0.03	0.017	0.033	0.051	0.037	0.023	0.014	0.01	0.014
Antimony-D	mg/L	-	< 0.0009	< 0.0009	-	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	-	0.0005	0.0005	-	0.0006	0.0004	0.0005	< 0.003	< 0.001	< 0.001	< 0.001	0.008	< 0.001	< 0.001	0.006	< 0.001	< 0.001	< 0.001
Barium-D	mg/L	-	0.014	0.0117	-	0.0115	0.013	0.0112	0.012	0.012	0.019	0.013	0.017	0.021	0.011	0.012	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	-	< 0.000007	< 0.000007	-	< 0.000007	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	-	< 0.000007	< 0.000007	-	< 0.000007	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	-	0.005	0.003	-	0.004	0.003	0.006	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	-	< 0.000003	0.000008	-	0.00001	0.000016	0.000006	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	< 0.000016
Calcium-D	mg/L	-	16.4	11.6	-	16.5	14	14	-	-	-	-	-	-	-	-	17.8	18.1	18.8
Chromium-D	mg/L	-	0.00027	0.00056	-	0.00038	0.00046	0.00045	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.003	< 0.0005	< 0.0005	< 0.0005
Cobalt-D	mg/L	-	< 0.000004	0.000096	-	0.000064	0.000072	0.000053	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0009	< 0.0009	< 0.0009
Copper-D	mg/L	-	0.001	0.0014	-	0.0012	0.0012	0.0009	< 0.001	0.001	0.003	0.001	0.006	0.002	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008
Iron-D	mg/L	-	0.098	0.168	-	0.138	0.166	0.104	0.077	0.089	0.159	0.094	0.244	0.081	0.082	0.062	< 0.1	< 0.1	< 0.1
Lead-D	mg/L	-	0.00004	0.00005	-	0.00005	0.0001	< 0.00009	< 0.001	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0001

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	22-Jan-20	24-Feb-20	28-Apr-20	31-Aug-20	3-Nov-20	24-Mar-21	28-Apr-21	18-May-21	15-Jun-21	20-Jul-21	17-Aug-21	13-Sep-21	12-Oct-21	17-Nov-21	16-Dec-21	28-Jan-22	17-Feb-22	16-Mar-22
Lithium-D	mg/L	-	0.0009	0.0004	-	0.0007	0.0004	0.0005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	-	3.6	2.75	-	3.69	3.45	3.16	-	-	-	-	-	-	-	-	4	3.9	4.3
Manganese-D	mg/L	-	0.017	0.0215	-	0.0283	0.0386	0.0112	0.02	0.03	0.022	0.015	0.012	0.008	0.007	0.019	0.009	0.01	0.012
Mercury-D	mg/L	-	-	-	-	-	< 0.00001	-	-	-	-	-	-	-	-	-	-	-	-
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01	-	-	-	-
Molybdenum-D	mg/L	-	0.0002	0.0003	-	0.00024	0.0002	0.00026	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	0.001	< 0.001
Nickel-D	mg/L	-	0.0003	0.0005	-	0.0004	0.0005	0.0003	< 0.003	< 0.003	< 0.003	< 0.003	0.011	< 0.003	< 0.001	0.001	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	-	0.004	< 0.003	-	< 0.003	0.005	< 0.003	-	-	-	-	-	-	-	-	-	-	0.11
Potassium-D	mg/L	-	0.43	0.375	-	0.499	0.388	0.395	-	-	-	-	-	-	-	-	-	-	< 0.6
Selenium-D	mg/L	-	0.00008	0.00009	-	0.00008	0.00008	0.0001	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.014	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	-	3.1	3.07	-	3.54	3.48	3.02	2.62	1.86	2.41	2.2	2.45	2.08	2.67	2.62	3.25	3.15	3.61
Silver-D	mg/L	-	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	-	2.38	1.45	-	2.13	2.1	2.43	-	-	-	-	-	-	-	-	3.3	2.9	2.9
Strontium-D	mg/L	-	0.0897	0.0947	-	0.0826	0.0857	0.0756	0.059	0.072	0.139	0.081	0.098	0.154	0.088	0.078	0.107	0.1	0.097
Thallium-D	mg/L	-	< 0.000005	< 0.000005	-	< 0.000005	< 0.000005	0.000021	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	-	0.00007	< 0.00006	-	0.0001	< 0.00006	< 0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4
Titanium-D	mg/L	-	0.00045	0.00316	-	0.00089	0.00112	0.0012	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	0.002	< 0.001	< 0.001	< 0.001
Uranium-D	mg/L	-	0.000024	0.000026	-	0.000026	0.000035	0.000029	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	-	0.00022	0.0004	-	0.00028	0.00032	0.00033	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	-	0.003	0.005	-	0.006	0.011	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	0.006
Zirconium-D	mg/L	-	-	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.01	0.01

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	21-Apr-22	20-May-22	15-Jun-22	20-Jul-22	15-Aug-22	21-Sep-22	21-Sep-22	19-Oct-22	22-Nov-22	14-Dec-22	25-Jan-23	15-Feb-23	23-Mar-23	24-Apr-23	9-May-23	14-Jun-23	12-Jul-23	17-Aug-23
Field Parameters																			
Temperature	°C	1.1	12	20	23	19.8	15	-	6.7	1.4	0	0.1	0.3	0	2.8	9.1	16.1	-	19
pH	s.u.	7.4	8.3	7.8	7.5	7.38	8.26	-	7.7	7.42	7.08	6.95	6.73	8	7.01	7.47	7.4	-	7.94
Conductivity	µS/cm	126	194	91.4	98.8	104.2	95.3	-	174	97.1	186.4	87.1	121.1	113.9	54.1	81	97.3	-	115.8
Dissolved Oxygen	mg/L	12.5	10.6	8.79	8.12	6.33	9.57	-	11.3	12.95	13.55	14.33	13.69	13.53	13.45	10.99	9.37	-	8.48
Dissolved Oxygen %	%	88.3	95	96.8	94.3	69.2	94.9	-	92.5	92	93	97.7	94.5	92.7	99.3	96.3	95.3	-	91.5
Oxidation-Reduction Potential	mV	8.6	123	116	191	122.6	146	-	233	206	250.4	312.3	342.6	228.3	283.8	150	308	-	-
Lab Parameters																			
pH	s.u.	-	-	-	-	-	7.56	7.6	7.62	7.32	7.52	-	-	7.62	7.23	7.76	7.16	7.61	7.08
Turbidity	NTU	-	-	-	-	-	-	-	-	-	-	-	-	2.8	11.2	6.4	6.2	5.5	5
Hardness (as CaCO3)	mg/L	52.9	46.4	56.6	45	45	45.1	44	44.6	43.2	79.6	-	-	53	34.1	59.6	46.8	50.4	57.6
Alkalinity, Total (as CaCO3)	mg/L	39	36	39	40	40	36	36	43	40	64	-	-	45	25	57	46	46	56
Acidity (as CaCO3)	mg/L	5	8	-	-	0.7	-	-	-	-	-	-	-	< 5	< 5.0	< 5.0	< 5.0	8.1	< 5.0
Total Dissolved Solids	mg/L	78	72	58	80	76	80	74	90	72	36	-	-	88	70	20	70	76	86
Total Suspended Solids	mg/L	14	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	65	-	-	< 10	23	< 10	13	< 10	< 10
Total Organic Carbon	mg/L	11.5	10.5	14.2	12.6	29.5	21.1	21.2	16.3	13.3	12.2	-	-	12	11.7	10.8	9.9	11.2	9.8
Dissolved Organic Carbon	mg/L	11.5	10.1	13.8	11.9	14.3	20.8	20.4	15.9	12.8	11.3	-	-	11.9	11.6	10.9	9.6	10.2	9.4
Oxidation-Reduction Potential	mV	-	-	-	-	-	146	-	233	206	250.4	312.3	342.6	228.3	283.8	150	308	-	-
Nutrients and Anions																			
Ammonia, Total (as N)	mg/L	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.04	< 0.02	0.03	-	-	0.03	< 0.02	< 0.02	0.07	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.000249	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	2.27	2.49	2.44	3.08	2.86	2.15	2.15	1.93	2.46	2.66	-	-	2.68	1.63	2.13	2.56	2.55	2.76
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	0.34	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05	0.05	0.15	-	-	0.09	0.12	0.12	< 0.05	< 0.05	< 0.05
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphate	mg/L	6.49	4.04	4.09	3.68	3.24	4.97	5	4.19	3.57	4.77	-	-	4.56	3.43	3.74	3.25	3.43	4.14
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	-	-	-	-	-	0.008	0.009	< 0.006	< 0.006	0.041	-	-	< 0.006	0.029	< 0.006	< 0.006	0.024	< 0.02
Total Metals																			
Aluminum-T	mg/L	0.397	0.198	0.144	0.224	0.148	0.431	-	0.138	0.132	1.02	-	-	0.076	0.478	0.272	0.156	0.139	0.078
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	0.005	0.004	< 0.001	< 0.001	< 0.001	-	-	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-T	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.00008	< 0.000016	< 0.000016	0.000044	< 0.000016	< 0.000016	0.000028	-	-	< 0.000016	0.000016	< 0.000016	0.000025	< 0.000016	< 0.000016
Calcium-T	mg/L	15.1	13.3	13.1	13.4	12.8	12.8	12.5	12.4	12.5	22.3	-	-	15.3	9.7	17.1	13.8	14.9	16.8
Chromium-T	mg/L	0.0012	0.0007	0.0006	< 0.0025	0.0009	0.0012	0.0013	0.0006	0.0007	0.0032	-	-	0.0015	0.0014	0.0008	0.0007	0.0006	0.0005

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	21-Apr-22	20-May-22	15-Jun-22	20-Jul-22	15-Aug-22	21-Sep-22	21-Sep-22	19-Oct-22	22-Nov-22	14-Dec-22	25-Jan-23	15-Feb-23	23-Mar-23	24-Apr-23	9-May-23	14-Jun-23	12-Jul-23	17-Aug-23
Cobalt-T	mg/L	< 0.00001	0.00013	0.00009	0.00009	0.0001	0.00023	0.00028	0.00021	0.00009	0.00074	-	-	0.00008	0.00028	0.00013	0.0001	0.0001	0.00006
Copper-T	mg/L	0.0029	0.002	0.0019	< 0.004	0.0028	0.0032	0.0028	0.0023	0.0017	0.0055	-	-	0.0017	0.0019	0.0019	0.0012	0.0015	0.0015
Iron-T	mg/L	0.5	0.3	0.3	0.4	0.3	0.6	0.6	0.3	0.3	1.3	-	-	0.3	0.6	0.3	0.3	0.3	0.2
Lead-T	mg/L	0.0003	0.0002	0.0002	< 0.0005	0.0001	0.0003	0.0004	0.0002	0.0001	0.0008	-	-	0.0001	0.0003	0.0002	0.0001	0.0001	< 0.0001
Lithium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-T	mg/L	3.9	3.2	3	2.9	3.1	3.2	3.1	3.3	2.9	5.8	-	-	3.6	2.4	4.1	3	3.2	3.8
Manganese-T	mg/L	0.031	0.022	0.022	0.028	0.024	0.034	0.033	0.014	0.017	0.172	-	-	0.02	0.03	0.022	0.02	0.025	0.023
Mercury-T	mg/L	-	-	< 0.000005	-	-	< 0.0000025	< 0.0000025	0.0000044	0.000003	0.000051	-	-	< 0.0000025	0.0000045	0.0000029	< 0.0000025	< 0.0000025	< 0.0000025
Methylmercury-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	0.00000019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	0.005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-T	mg/L	0.012	0.026	0.012	0.05	0.058	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-T	mg/L	-	-	< 0.6	-	< 0.6	-	-	< 0.6	< 0.6	< 0.6	-	-	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	0.9
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-T	mg/L	3.58	2.4	2.1	2.4	2.8	3.3	3.2	3.2	2.7	5	-	-	2.8	3.3	2.7	2.5	2.3	2.4
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00025	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-T	mg/L	2.3	2.14	2.83	2.9	2.5	1.8	1.7	2.1	2.4	3.2	-	-	2.9	1.8	2.3	2.3	2.8	3
Strontium-T	mg/L	0.105	0.076	0.09	0.087	0.068	0.12	0.118	0.086	0.074	0.088	-	-	0.085	0.068	0.065	0.066	0.07	0.081
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-T	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	0.013	0.007	0.004	0.009	0.005	0.013	0.014	0.003	0.004	0.039	-	-	0.004	0.018	0.01	0.006	0.005	0.003
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-T	mg/L	0.0009	< 0.001	< 0.001	< 0.005	< 0.001	0.001	0.001	< 0.001	< 0.001	0.002	-	-	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-T	mg/L	0.177	0.013	< 0.004	< 0.02	< 0.004	0.004	0.008	< 0.004	0.005	0.007	-	-	0.011	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dissolved Metals																			
Aluminum-D	mg/L	0.057	0.054	0.043	0.01	0.05	0.104	-	0.068	0.05	0.044	-	-	0.032	0.082	0.045	0.027	0.028	0.016
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.00008	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016	< 0.000016
Calcium-D	mg/L	15.5	12	11.8	13.3	13	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005	0.0006	0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	0.0007
Cobalt-D	mg/L	< 0.00001	0.00002	0.00002	< 0.00005	0.00004	0.00007	0.00008	0.00006	0.00005	0.00009	-	-	0.00004	0.00007	< 0.00006	< 0.00006	0.00023	< 0.00006
Copper-D	mg/L	0.0014	0.0011	0.0011	< 0.004	0.0008	0.0017	0.0019	0.0024	0.0008	0.001	-	-	< 0.0008	0.001	0.0009	< 0.0008	0.001	0.0009
Iron-D	mg/L	0.2	< 0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.1	0.2	-	-	0.2	0.2	0.1	0.1	0.1	< 0.1
Lead-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0001	0.0002	0.0002	0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

STATION		V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3	V3
	Units	21-Apr-22	20-May-22	15-Jun-22	20-Jul-22	15-Aug-22	21-Sep-22	21-Sep-22	19-Oct-22	22-Nov-22	14-Dec-22	25-Jan-23	15-Feb-23	23-Mar-23	24-Apr-23	9-May-23	14-Jun-23	12-Jul-23	17-Aug-23
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Magnesium-D	mg/L	3.82	2.9	2.7	3.1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese-D	mg/L	0.01	< 0.005	0.01	0.014	0.014	0.012	0.012	< 0.005	0.008	0.093	-	-	0.017	0.016	0.02	0.009	0.013	0.01
Mercury-D	mg/L	-	-	< 0.000005	-	-	0.000003	0.0000044	0.0000027	0.000003	0.0000037	-	-	< 0.0000025	0.0000037	< 0.0000025	< 0.0000025	< 0.0000025	< 0.0000025
Methylmercury-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	-	-	< 0.6	-	< 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Silicon-D	mg/L	2.96	2.22	1.93	2.1	2.59	2.85	2.92	3.06	2.28	3.26	-	-	2.82	2.33	3.12	2.38	2.06	2.27
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00025	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Sodium-D	mg/L	2.8	2.2	2.3	2.5	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium-D	mg/L	0.11	0.073	0.094	0.079	0.069	0.111	0.113	0.091	0.074	0.084	-	-	0.083	0.065	0.064	0.063	0.068	0.078
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Tungsten-D	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	< 0.001	0.001	< 0.001	< 0.005	< 0.001	0.002	0.002	0.001	< 0.001	< 0.001	-	-	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zinc-D	mg/L	< 0.004	< 0.004	< 0.004	< 0.02	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-	0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Zirconium-D	mg/L	0.0001	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

STATION		V3	V3	V3	V3	V3
	Units	31-Oct-23	20-Nov-23	14-Dec-23	15-Jan-24	21-Feb-24
Field Parameters						
Temperature	°C	4.2	-	0.8	0	0.1
pH	s.u.	7.36	-	7.43	6.84	7.38
Conductivity	µS/cm	91	-	114.5	104.1	111.4
Dissolved Oxygen	mg/L	13.75	-	13.49	13.3	13.38
Dissolved Oxygen %	%	105.6	-	94.5	90.9	91.8
Oxidation-Reduction Potential	mV	-	-	-	-	-
Lab Parameters						
pH	s.u.	6.47	6.65	6.77	6.56	-
Turbidity	NTU	3.9	2.8	6.6	3.4	-
Hardness (as CaCO3)	mg/L	45.1	53	57.8	52	-
Alkalinity, Total (as CaCO3)	mg/L	34	47	54	47	-
Acidity (as CaCO3)	mg/L	5.8	6.9	< 5.0	< 5.0	-
Total Dissolved Solids	mg/L	72	76	88	42	-
Total Suspended Solids	mg/L	< 10	< 10	30	< 10	-
Total Organic Carbon	mg/L	14.3	12.5	13.5	8.4	-
Dissolved Organic Carbon	mg/L	13.6	12.1	13	9.4	-
Oxidation-Reduction Potential	mV	-	-	-	-	-
Nutrients and Anions						
Ammonia, Total (as N)	mg/L	0.04	< 0.02	< 0.02	< 0.02	-
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-
Chloride	mg/L	2.2	1.8	3.55	2.54	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	0.003	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	< 0.05	0.1	0.1	0.13	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	4.27	5.18	4.77	4.78	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-
Total Phosphorus	mg/L	0.11	0.03	0.02	< 0.02	-
Total Metals						
Aluminum-T	mg/L	0.171	0.175	0.35	0.089	-
Antimony-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-T	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-T	mg/L	13.1	15.6	16.7	15.2	-
Chromium-T	mg/L	0.0008	0.0008	0.0015	0.0006	-

STATION		V3	V3	V3	V3	V3
	Units	31-Oct-23	20-Nov-23	14-Dec-23	15-Jan-24	21-Feb-24
Cobalt-T	mg/L	0.00011	0.00014	0.00026	0.00007	-
Copper-T	mg/L	0.0016	0.0022	0.0023	0.0021	-
Iron-T	mg/L	0.3	0.3	0.5	0.2	-
Lead-T	mg/L	0.0002	0.0002	0.0003	0.0003	-
Lithium-T	mg/L	0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-T	mg/L	3	3.4	3.9	3.4	-
Manganese-T	mg/L	0.017	0.024	0.036	0.018	-
Mercury-T	mg/L	< 0.0000025	< 0.0000025	< 0.0000025	0.0000031	-
Methylmercury-T	mg/L	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	-	-	-	-	-
Molybdenum-T	mg/L	< 0.001	< 0.001	< 0.001	0.003	-
Nickel-T	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-T	mg/L	-	-	-	-	-
Potassium-T	mg/L	< 0.6	< 0.6	< 0.6	< 0.6	-
Selenium-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	2.7	3.3	4	2	-
Silver-T	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-T	mg/L	2.3	2.8	3.6	2.8	-
Strontium-T	mg/L	0.079	0.08	0.086	0.083	-
Thallium-T	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-T	mg/L	-	-	-	-	-
Titanium-T	mg/L	0.004	0.005	0.014	0.002	-
Uranium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-T	mg/L	< 0.004	0.007	0.023	< 0.004	-
Zirconium-T	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-
Dissolved Metals						
Aluminum-D	mg/L	0.055	0.069	0.043	0.03	-
Antimony-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Boron-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-
Calcium-D	mg/L	-	-	-	-	-
Chromium-D	mg/L	< 0.0005	0.0008	< 0.0005	< 0.0005	-
Cobalt-D	mg/L	< 0.00006	< 0.00006	< 0.00006	< 0.00006	-
Copper-D	mg/L	0.0011	0.0011	0.0012	< 0.0008	-
Iron-D	mg/L	0.1	0.2	0.2	0.1	-
Lead-D	mg/L	< 0.0001	0.0005	< 0.0001	< 0.0001	-

STATION		V3	V3	V3	V3	V3
	Units	31-Oct-23	20-Nov-23	14-Dec-23	15-Jan-24	21-Feb-24
Lithium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Magnesium-D	mg/L	-	-	-	-	-
Manganese-D	mg/L	0.01	0.015	0.024	0.015	-
Mercury-D	mg/L	< 0.0000025	< 0.0000025	< 0.0000025	0.0000027	-
Methylmercury-D	mg/L	-	-	-	-	-
Molybdenum-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	-	-	-	-	-
Potassium-D	mg/L	-	-	-	-	-
Selenium-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	2.76	3.19	2.91	2.03	-
Silver-D	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	-	-	-	-	-
Strontium-D	mg/L	0.069	0.086	0.082	0.066	-
Thallium-D	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Tungsten-D	mg/L	-	-	-	-	-
Titanium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Uranium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	-
Zinc-D	mg/L	< 0.004	< 0.004	0.013	< 0.004	-
Zirconium-D	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	-

STATION		STATION		V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F
	Units		Units	18-Jun-21	17-Aug-21	16-Nov-21	15-Mar-22	17-May-22	19-Aug-22	22-Nov-22	22-Mar-23	10-May-23	17-Aug-23	1-Nov-23	1-Nov-23	21-Feb-24
Field Parameters		**Field Parameters**														
Temperature	°C	**Temperature**	°C	18	21	1.8	0.2	13	19.4	0.1	0	10.7	20.2	3.9	-	0.7
pH	s.u.	**pH**	s.u.	7.7	7.6	7.6	7	7.2	7.74	7.47	7.84	7.67	7.81	7.93	-	7.57
Conductivity	µS/cm	**Conductivity**	µS/cm	128	114	115	130	84.7	101.5	92.4	114	78.3	100.6	86.1	-	110.5
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	6.6	7.54	13.2	12.7	9.99	6.56	13.41	12.56	10.81	7.76	12.65	-	12.97
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	69.1	86.4	95.2	87.6	93.7	71.2	92	96.8	97.3	85.7	96.3	-	90.6
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	224	108	167	210	185	126.7	-	-	-	-	-	-	-
Lab Parameters		**Lab Parameters**														
pH	s.u.	**pH**	s.u.	-	-	-	-	-	-	7.28	7.57	7.53	7.07	-	6.35	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	-	-	-	3.4	3	4.7	-	3.7	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	56.5	55.2	57.3	70.2	41	-	42.2	49.2	39.6	55.7	-	42.3	-
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	63	60	45	57	36	-	40	44	34	53	-	32	-
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	-	-	-	-	8	-	-	5	2.5	5	-	6.2	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	82	82	72	82	72	-	48	78	94	80	-	66	-
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	< 10	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10	-	< 10	-
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	9	10.8	10	8.1	11.9	-	12.8	14	11.9	9.2	-	12.3	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	8.7	10.6	10	7.8	11.4	-	12.8	11.4	12	9	-	11.9	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	-	-	-	211.9	136.9	181.9	-	-	-	-
Nutrients and Anions		**Nutrients and Anions**														
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	-
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	< 0.000002	< 0.000002	< 0.000002	< 0.000002	< 0.000002	-	-	-	-	-	-	-	-
Chloride	mg/L	**Chloride**	mg/L	2.96	2.77	1.94	2.55	2.16	-	2.35	2.52	2.12	2.65	-	2.38	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	-
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002	-
Fluoride	mg/L	**Fluoride**	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	< 0.05	< 0.05	< 0.05	0.09	< 0.05	-	< 0.05	0.09	< 0.05	< 0.05	-	< 0.05	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	-
Sulphate	mg/L	**Sulphate**	mg/L	4.13	3.9	6.2	5.83	3.61	-	3.57	4.56	3.13	4.05	-	4	-
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	-	-	-	0.007	0.03	0.04	< 0.02	-	< 0.02	-
Total Metals		**Total Metals**														
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.097	0.209	-	0.039	0.177	-	0.15	0.065	0.998	0.097	-	0.155	-
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	-	< 0.001	0.001	0.001	< 0.001	-	< 0.001	-
Barium-T	mg/L	**Barium-T**	mg/L	0.019	0.016	0.017	< 0.05	< 0.05	-	< 0.05	< 0.05	0.1	< 0.05	-	< 0.05	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	< 0.002	< 0.002	-	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Boron-T	mg/L	**Boron-T**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	0.000082	< 0.000016	-	< 0.000016	-
Calcium-T	mg/L	**Calcium-T**	mg/L	-	-	-	20.4	12.1	-	12.3	14.1	11.4	16.2	-	12	-
Chromium-T	mg/L	**Chromium-T**	mg/L	< 0.003	< 0.003	< 0.003	< 0.0005	0.0006	-	0.0009	0.0005	0.0113	0.0005	-	0.0006	-

STATION		STATION		V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F
	Units		Units	18-Jun-21	17-Aug-21	16-Nov-21	15-Mar-22	17-May-22	19-Aug-22	22-Nov-22	22-Mar-23	10-May-23	17-Aug-23	1-Nov-23	1-Nov-23	21-Feb-24
Cobalt-T	mg/L	**Cobalt-T**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0009	0.0001	-	0.00009	0.00006	0.00117	0.00007	-	0.00011	-
Copper-T	mg/L	**Copper-T**	mg/L	0.001	0.001	0.001	0.0011	0.0018	-	0.0013	0.0012	0.0119	0.0013	-	0.0019	-
Iron-T	mg/L	**Iron-T**	mg/L	0.193	0.205	0.146	0.2	0.3	-	0.3	0.2	1.2	0.2	-	0.3	-
Lead-T	mg/L	**Lead-T**	mg/L	< 0.001	< 0.001	< 0.001	< 0.0001	0.0002	-	0.0002	0.0001	0.0013	< 0.0001	-	0.0002	-
Lithium-T	mg/L	**Lithium-T**	mg/L	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	-	< 0.001	< 0.001	0.031	< 0.001	-	< 0.001	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	-	-	4.1	2.7	-	2.8	3.4	2.7	3.7	-	3	-
Manganese-T	mg/L	**Manganese-T**	mg/L	0.051	0.045	0.014	0.02	0.022	-	0.019	0.024	0.039	0.026	-	0.019	-
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	-	-	-	-	0.0000034	0.0000026	0.0000036	< 0.0000025	-	< 0.0000025	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	< 0.01	-	-	-	-	-	-	-	-	-	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	0.006	< 0.003	-	< 0.003	-
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.028	0.033	0.011	0.01	0.012	-	-	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	-	-	-	< 0.6	< 0.6	0.6	1	-	< 0.6	-
Selenium-T	mg/L	**Selenium-T**	mg/L	< 0.002	< 0.002	< 0.001	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-
Silicon-T	mg/L	**Silicon-T**	mg/L	2.14	2.82	2.74	3.38	2.4	-	2.7	2.9	2.1	2.4	-	2.6	-
Silver-T	mg/L	**Silver-T**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	0.00013	< 0.00005	-	< 0.00005	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	-	-	2.9	2.08	-	2.4	2.6	14	3.1	-	2.8	-
Strontium-T	mg/L	**Strontium-T**	mg/L	0.062	0.086	0.118	0.097	0.071	-	0.074	0.09	0.073	0.082	-	0.081	-
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	-
Tin-T	mg/L	**Tin-T**	mg/L	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	0.0009	< 0.0005	-	< 0.0005	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	0.009	< 0.002	< 0.01	0.001	0.005	-	0.005	0.001	0.013	0.003	-	0.005	-
Uranium-T	mg/L	**Uranium-T**	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	0.005	< 0.001	-	< 0.001	-
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.005	< 0.005	< 0.02	< 0.004	< 0.004	-	< 0.004	< 0.004	0.361	< 0.004	-	< 0.004	-
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-
Dissolved Metals		**Dissolved Metals**														
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.014	0.014	0.026	0.015	0.056	-	0.048	0.035	0.049	0.035	-	0.054	-
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	< 0.003	< 0.001	0.013	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Barium-D	mg/L	**Barium-D**	mg/L	0.011	0.014	0.013	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	< 0.002	< 0.002	-	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Boron-D	mg/L	**Boron-D**	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.000016	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	< 0.000016	-	< 0.000016	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	-	-	17.1	11.5	-	-	-	-	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	< 0.003	< 0.002	< 0.003	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0009	0.00005	-	0.00003	0.00004	< 0.00006	< 0.00006	-	< 0.00006	-
Copper-D	mg/L	**Copper-D**	mg/L	< 0.001	< 0.001	< 0.001	< 0.0008	0.0012	-	0.001	0.0008	< 0.0008	< 0.0008	-	0.001	-
Iron-D	mg/L	**Iron-D**	mg/L	0.096	0.079	0.122	0.1	0.1	-	0.1	0.2	0.1	< 0.1	-	0.2	-
Lead-D	mg/L	**Lead-D**	mg/L	< 0.001	< 0.0005	< 0.0005	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	-

STATION		STATION		V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F	V3F
	Units		Units	18-Jun-21	17-Aug-21	16-Nov-21	15-Mar-22	17-May-22	19-Aug-22	22-Nov-22	22-Mar-23	10-May-23	17-Aug-23	1-Nov-23	1-Nov-23	21-Feb-24
Lithium-D	mg/L	**Lithium-D**	mg/L	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	-	-	3.9	2.6	-	-	-	-	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	0.024	0.024	0.01	0.017	< 0.005	-	0.008	0.023	0.012	0.013	-	0.009	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	-	-	-	< 0.0000025	< 0.0000025	0.0000034	< 0.0000025	-	< 0.0000025	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	< 0.01	-	< 0.01	-	-	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Nickel-D	mg/L	**Nickel-D**	mg/L	< 0.003	< 0.003	< 0.001	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	< 0.004	< 0.001	0.002	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-
Silicon-D	mg/L	**Silicon-D**	mg/L	2.28	2.26	2.42	3.18	2.34	-	2.28	3.14	2.49	2.21	-	2.29	-
Silver-D	mg/L	**Silver-D**	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.00005	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-	< 0.00005	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	-	-	3	2.1	-	-	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	0.058	0.082	0.106	0.099	0.072	-	0.074	0.085	0.061	0.079	-	0.087	-
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	-
Tin-D	mg/L	**Tin-D**	mg/L	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Uranium-D	mg/L	**Uranium-D**	mg/L	< 0.002	< 0.0005	< 0.0005	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-
Zinc-D	mg/L	**Zinc-D**	mg/L	< 0.005	< 0.005	< 0.005	< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-

STATION		STATION		VT1	VT1	VT1	VT1	VT1	VT1	VT1	VT1
	Units		Units	19-Nov-21	20-May-22	18-Aug-22	23-Nov-22	15-May-23	22-Aug-23	16-Oct-23	16-Nov-23
Field Parameters		**Field Parameters**									
Temperature	°C	**Temperature**	°C	1	8.3	13.6	0.9	10	18.6	-	0.4
pH	s.u.	**pH**	s.u.	7.7	7.4	7.68	7.22	7.74	8.08	-	7.83
Conductivity	µS/cm	**Conductivity**	µS/cm	172	110	242.1	93.3	152.1	114.9	-	82.8
Dissolved Oxygen	mg/L	**Dissolved Oxygen**	mg/L	13.4	10.4	9.74	14.12	10.08	9.22	-	13.58
Dissolved Oxygen %	%	**Dissolved Oxygen %**	%	94	88.7	93.3	99	89.4	98.7	-	94
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	206	172	141.9	-	-	-	-	-
Lab Parameters		**Lab Parameters**									
pH	s.u.	**pH**	s.u.	-	-	-	7.38	7.52	7.41	6.54	-
Turbidity	NTU	**Turbidity**	NTU	-	-	-	-	42.6	2.9	4.3	-
Hardness (as CaCO3)	mg/L	**Hardness (as CaCO3)**	mg/L	79.9	65.9	-	43.4	99.9	-	47.1	-
Alkalinity, Total (as CaCO3)	mg/L	**Alkalinity, Total (as CaCO3)**	mg/L	82	51	-	38	78	54	38	-
Acidity (as CaCO3)	mg/L	**Acidity (as CaCO3)**	mg/L	-	8	-	-	6.3	5.4	7.8	-
Total Dissolved Solids	mg/L	**Total Dissolved Solids**	mg/L	136	124	-	78	112	64	94	-
Total Suspended Solids	mg/L	**Total Suspended Solids**	mg/L	10	125	-	< 10	50	< 10	< 10	-
Total Organic Carbon	mg/L	**Total Organic Carbon**	mg/L	21.1	24.9	-	16.6	18.1	8	27	-
Dissolved Organic Carbon	mg/L	**Dissolved Organic Carbon**	mg/L	20	23.4	-	14.1	14.9	7.9	27	-
Oxidation-Reduction Potential	mV	**Oxidation-Reduction Potential**	mV	-	-	-	241.6	195.4	-	-	-
Nutrients and Anions		**Nutrients and Anions**									
Ammonia, Total (as N)	mg/L	**Ammonia, Total (as N)**	mg/L	< 0.02	0.03	-	0.02	< 0.02	< 0.02	< 0.02	-
Ammonia, Un-ionized (as N)	mg/L	**Ammonia, Un-ionized (as N)**	mg/L	< 0.000002	0.000415	-	-	-	-	-	-
Chloride	mg/L	**Chloride**	mg/L	0.2	0.44	-	2.43	0.37	2.76	0.26	-
Cyanide (CN), Free	mg/L	**Cyanide (CN), Free**	mg/L	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	**Cyanide (CN), Total**	mg/L	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002	< 0.002	-
Fluoride	mg/L	**Fluoride**	mg/L	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-
Nitrate (as N)	mg/L	**Nitrate (as N)**	mg/L	0.25	0.29	-	< 0.05	0.16	< 0.05	0.3	-
Nitrate + Nitrite (as N)	mg/L	**Nitrate + Nitrite (as N)**	mg/L	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	**Nitrite (as N)**	mg/L	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	-
Sulphate	mg/L	**Sulphate**	mg/L	3.86	2.56	-	3.55	3.62	4.42	1.98	-
Total Kjeldahl Nitrogen	mg/L	**Total Kjeldahl Nitrogen**	mg/L	-	-	-	-	-	-	-	-
Total Phosphorus	mg/L	**Total Phosphorus**	mg/L	-	-	-	0.007	0.41	< 0.02	< 0.02	-
Total Metals		**Total Metals**									
Aluminum-T	mg/L	**Aluminum-T**	mg/L	0.27	3.52	-	0.105	4.69	0.085	0.516	-
Antimony-T	mg/L	**Antimony-T**	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-T	mg/L	**Arsenic-T**	mg/L	< 0.003	< 0.001	-	< 0.001	0.001	< 0.001	< 0.001	-
Barium-T	mg/L	**Barium-T**	mg/L	0.007	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-T	mg/L	**Beryllium-T**	mg/L	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-T	mg/L	**Bismuth-T**	mg/L	-	< 0.001	-	< 0.001	< 0.001	-	< 0.001	-
Boron-T	mg/L	**Boron-T**	mg/L	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-T	mg/L	**Cadmium-T**	mg/L	< 0.0001	0.000034	-	< 0.000016	0.000064	< 0.000016	0.000028	-
Calcium-T	mg/L	**Calcium-T**	mg/L	-	17.4	-	12.6	25	-	12.6	-
Chromium-T	mg/L	**Chromium-T**	mg/L	< 0.003	0.0092	-	0.0017	0.0129	< 0.0005	0.0019	-

STATION		STATION		VT1	VT1	VT1	VT1	VT1	VT1	VT1	VT1
	Units		Units	19-Nov-21	20-May-22	18-Aug-22	23-Nov-22	15-May-23	22-Aug-23	16-Oct-23	16-Nov-23
Cobalt-T	mg/L	**Cobalt-T**	mg/L	< 0.0005	0.00173	-	0.00008	0.00269	0.00011	0.00017	-
Copper-T	mg/L	**Copper-T**	mg/L	0.001	0.0064	-	0.0015	0.0072	0.0013	0.0029	-
Iron-T	mg/L	**Iron-T**	mg/L	0.463	3.1	-	0.3	5	0.2	0.5	-
Lead-T	mg/L	**Lead-T**	mg/L	< 0.001	0.0013	-	0.0001	0.0021	< 0.0001	0.0004	-
Lithium-T	mg/L	**Lithium-T**	mg/L	< 0.01	0.004	-	< 0.001	0.005	-	< 0.001	-
Magnesium-T	mg/L	**Magnesium-T**	mg/L	-	5.46	-	2.9	9.1	-	3.8	-
Manganese-T	mg/L	**Manganese-T**	mg/L	0.043	0.067	-	0.016	0.148	0.019	0.016	-
Mercury-T	mg/L	**Mercury-T**	mg/L	-	-	-	0.0000045	0.0000042	< 0.0000025	0.0000098	-
Methylmercury-T	mg/L	**Methylmercury-T**	mg/L	-	-	-	-	-	0.00000008	0.0000002	-
Ultra-Low Level Mercury-T	mg/L	**Ultra-Low Level Mercury-T**	mg/L	0.00000014	0.00000019	-	-	-	-	-	-
Molybdenum-T	mg/L	**Molybdenum-T**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-T	mg/L	**Nickel-T**	mg/L	< 0.003	0.006	-	< 0.003	0.008	< 0.003	< 0.003	-
Phosphorus-T	mg/L	**Phosphorus-T**	mg/L	0.061	0.17	-	-	-	-	-	-
Potassium-T	mg/L	**Potassium-T**	mg/L	-	-	-	0.6	1.8	-	0.3	-
Selenium-T	mg/L	**Selenium-T**	mg/L	< 0.001	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-T	mg/L	**Silicon-T**	mg/L	4.26	7.9	-	2.8	10.5	-	4	-
Silver-T	mg/L	**Silver-T**	mg/L	< 0.0001	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	0.00008	-
Sodium-T	mg/L	**Sodium-T**	mg/L	-	1.82	-	3.2	2.6	2.7	0.8	-
Strontium-T	mg/L	**Strontium-T**	mg/L	0.057	0.042	-	0.074	0.06	-	0.027	-
Thallium-T	mg/L	**Thallium-T**	mg/L	< 0.0003	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-T	mg/L	**Tin-T**	mg/L	< 0.002	< 0.0005	-	< 0.0005	< 0.0005	-	< 0.0005	-
Tungsten-T	mg/L	**Tungsten-T**	mg/L	-	-	-	-	-	-	-	-
Titanium-T	mg/L	**Titanium-T**	mg/L	< 0.01	0.125	-	0.003	0.199	0.003	0.009	-
Uranium-T	mg/L	**Uranium-T**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-T	mg/L	**Vanadium-T**	mg/L	< 0.002	0.006	-	< 0.001	0.009	-	< 0.001	-
Zinc-T	mg/L	**Zinc-T**	mg/L	< 0.02	0.007	-	< 0.004	0.014	< 0.004	< 0.004	-
Zirconium-T	mg/L	**Zirconium-T**	mg/L	< 0.004	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-
Dissolved Metals		**Dissolved Metals**									
Aluminum-D	mg/L	**Aluminum-D**	mg/L	0.163	0.227	-	0.056	0.1	0.016	0.382	-
Antimony-D	mg/L	**Antimony-D**	mg/L	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic-D	mg/L	**Arsenic-D**	mg/L	0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Barium-D	mg/L	**Barium-D**	mg/L	0.007	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	-
Beryllium-D	mg/L	**Beryllium-D**	mg/L	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth-D	mg/L	**Bismuth-D**	mg/L	-	< 0.001	-	< 0.001	< 0.001	-	< 0.001	-
Boron-D	mg/L	**Boron-D**	mg/L	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	-
Cadmium-D	mg/L	**Cadmium-D**	mg/L	< 0.0001	< 0.000016	-	< 0.000016	< 0.000016	< 0.000016	0.000024	-
Calcium-D	mg/L	**Calcium-D**	mg/L	-	16.2	-	-	-	-	-	-
Chromium-D	mg/L	**Chromium-D**	mg/L	< 0.003	0.0008	-	< 0.0005	0.0006	0.0009	0.0009	-
Cobalt-D	mg/L	**Cobalt-D**	mg/L	< 0.0005	0.00007	-	0.00003	0.00009	0.00016	0.00011	-
Copper-D	mg/L	**Copper-D**	mg/L	0.001	0.0024	-	0.001	0.0016	0.0008	0.0016	-
Iron-D	mg/L	**Iron-D**	mg/L	0.295	0.3	-	0.2	0.2	< 0.1	0.4	-
Lead-D	mg/L	**Lead-D**	mg/L	< 0.0005	0.0001	-	< 0.0001	< 0.0001	< 0.0001	0.0002	-

STATION		STATION		VT1	VT1	VT1	VT1	VT1	VT1	VT1	VT1
	Units		Units	19-Nov-21	20-May-22	18-Aug-22	23-Nov-22	15-May-23	22-Aug-23	16-Oct-23	16-Nov-23
Lithium-D	mg/L	**Lithium-D**	mg/L	< 0.01	< 0.001	-	< 0.001	< 0.001	-	< 0.001	-
Magnesium-D	mg/L	**Magnesium-D**	mg/L	-	5	-	-	-	-	-	-
Manganese-D	mg/L	**Manganese-D**	mg/L	0.036	< 0.005	-	< 0.005	0.037	0.011	0.013	-
Mercury-D	mg/L	**Mercury-D**	mg/L	-	-	-	0.000004	0.0000033	< 0.0000025	0.0000097	-
Methylmercury-D	mg/L	**Methylmercury-D**	mg/L	-	-	-	-	-	-	-	-
Molybdenum-D	mg/L	**Molybdenum-D**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Nickel-D	mg/L	**Nickel-D**	mg/L	0.001	< 0.003	-	< 0.003	< 0.003	< 0.003	< 0.003	-
Phosphorus-D	mg/L	**Phosphorus-D**	mg/L	-	-	-	-	-	-	-	-
Potassium-D	mg/L	**Potassium-D**	mg/L	-	-	-	-	-	-	-	-
Selenium-D	mg/L	**Selenium-D**	mg/L	0.002	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Silicon-D	mg/L	**Silicon-D**	mg/L	4.9	3.22	-	2.49	3.28	-	3.79	-
Silver-D	mg/L	**Silver-D**	mg/L	< 0.0001	< 0.00005	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	-
Sodium-D	mg/L	**Sodium-D**	mg/L	-	1.5	-	-	-	-	-	-
Strontium-D	mg/L	**Strontium-D**	mg/L	0.053	0.034	-	0.075	0.047	-	0.026	-
Thallium-D	mg/L	**Thallium-D**	mg/L	< 0.0003	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Tin-D	mg/L	**Tin-D**	mg/L	< 0.002	< 0.0005	-	< 0.0005	< 0.0005	-	< 0.0005	-
Tungsten-D	mg/L	**Tungsten-D**	mg/L	-	-	-	-	-	-	-	-
Titanium-D	mg/L	**Titanium-D**	mg/L	0.003	0.004	-	< 0.001	0.002	< 0.001	0.004	-
Uranium-D	mg/L	**Uranium-D**	mg/L	< 0.0005	< 0.001	-	< 0.001	< 0.001	< 0.001	< 0.001	-
Vanadium-D	mg/L	**Vanadium-D**	mg/L	< 0.002	< 0.001	-	< 0.001	< 0.001	-	< 0.001	-
Zinc-D	mg/L	**Zinc-D**	mg/L	< 0.005	< 0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	-
Zirconium-D	mg/L	**Zirconium-D**	mg/L	< 0.004	< 0.01	-	< 0.01	< 0.01	-	< 0.01	-

		BG2	BG2	BG2	BH1S	BH1S	BH1S	H1S	H1S	H1S	H1S	H1S	H1S	M1
	Units	2023-03-22	2023-03-22-1	RPD Calculation	2023-05-10	2023-05-10-01	RPD Calculation	2023-08-17	2023-08-17-01	RPD Calculation	2023-10-15	2023-10-15-01	RPD Calculation	2023-05-09
Sample Type		N	FD		N	FD		N	FD		N	FD		N
Field Measured														
Temperature Field	°C	0	-	-	12.2	-	-	19.2	-	-	-	-	-	11.6
pH Field	s.u.	7.8	-	-	6.84	-	-	7.32	-	-	-	-	-	6.81
Conductivity Field	µS/cm	73.4	-	-	43.2	-	-	51.3	-	-	-	-	-	43.3
Dissolved Oxygen Field	mg/L	12.21	-	-	9.91	-	-	7.66	-	-	-	-	-	10.36
Dissolved Oxygen Field %	%	92.4	-	-	92.5	-	-	83.2	-	-	-	-	-	95.1
Oxidation-Reduction Potential-Field	mV	98.8	-	-	-	-	-	-	-	-	-	-	-	-
Conventional Parameters														
pH	-	7.2	7.26	-1%	7.18	7.16	0%	6.7	6.7	0%	6.15	6.17	0%	7.47
Turbidity	NTU	3.5	3.6	-3%	2.4	2.4	0%	2.6	3.6	-32%	2	2	0%	2.6
Hardness (as CaCO3)	mg/L as CaCO3	32.6	34.8	-7%	20.9	21.7	-4%	28.2	28.5	-1%	24.7	26.8	-8%	20.7
Alkalinity, Total (as CaCO3)	mg/L	32	32	0%	17	18	-6%	30	29	3%	20	22	-10%	20
Acidity (as CaCO3)	mg/L	6	6	0%	2.5	2.5	0%	5.5	5.1	8%	7.8	6.6	17%	2.5
Total Dissolved Solids	mg/L	50	76	-41%	5	18	-113%	58	54	7%	58	54	7%	5
Total Suspended Solids	mg/L	5	5	0%	5	5	0%	5	5	0%	5	5	0%	5
Total Organic Carbon	mg/L	8.9	9.3	-4%	12.3	12.3	0%	10.8	11.1	-3%	15.4	15.2	1%	6.8
Dissolved Organic Carbon	mg/L	9.3	8.9	4%	11.4	12.1	-6%	0.6	0.25	82%	11.1	10.7	4%	11.5
Oxidation-Reduction Potential	mV	-	-	-	151.6	-	-	-	-	-	-	-	-	136
Major Ions														
Chloride	mg/L	0.31	0.31	0%	0.24	0.23	4%	0.28	0.27	4%	0.32	0.33	-3%	0.24
Cyanide (CN), Total	mg/L	0.001	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	0.001
Cyanide (CN), Free	mg/L	0.001	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	0.001
Fluoride	mg/L	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025
Sulphate	mg/L	1.76	1.77	-1%	1.66	1.64	1%	1.77	1.77	0%	1.59	1.64	-3%	1.68
Nutrients														
Ammonia, Total (as N)	mg/L	0.06	0.1	-50%	0.01	0.01	0%	0.01	0.01	0%	0.03	0.02	40%	0.01
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonia, Un-ionized (as N), calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.22	0.22	0%	0.2	0.19	5%	0.025	0.025	0%	0.1	0.1	0%	0.2
Nitrite (as N)	mg/L	0.01	0.01	0%	0.01	0.01	0%	0.01	0.01	0%	0.01	0.01	0%	0.01
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals														
Aluminum - Total	mg/L	0.096	0.107	-11%	0.202	0.204	-1%	0.075	0.07	7%	0.139	0.123	12%	0.199
Antimony - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Arsenic - Total	mg/L	0.001	0.001	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Barium - Total	mg/L	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025
Beryllium - Total	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025
Bismuth - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Boron - Total	mg/L	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005
Cadmium - Total	mg/L	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000008
Calcium - Total	mg/L	9.6	10.3	-7%	5.9	6.2	-5%	8	8.1	-1%	7.1	7.6	-7%	5.8
Chromium - Total	mg/L	0.0043	0.0006	151%	0.0011	0.0008	32%	0.0006	0.0006	0%	0.0006	0.0006	0%	0.0007
Cobalt - Total	mg/L	0.00016	0.00014	13%	0.00008	0.00009	-12%	0.00006	0.00006	0%	0.00008	0.00008	0%	0.0001
Copper - Total	mg/L	0.0012	0.0015	-22%	0.0013	0.0014	-7%	0.0013	0.0018	-32%	0.0017	0.0018	-6%	0.0014
Iron - Total	mg/L	0.3	0.3	0%	0.3	0.3	0%	0.2	0.2	0%	0.5	0.5	0%	0.3

		BG2	BG2	BG2	BH1S	BH1S	BH1S	H1S	H1S	H1S	H1S	H1S	H1S	M1
	Units	2023-03-22	2023-03-22-1	RPD Calculation	2023-05-10	2023-05-10-01	RPD Calculation	2023-08-17	2023-08-17-01	RPD Calculation	2023-10-15	2023-10-15-01	RPD Calculation	2023-05-09
Sample Type		N	FD		N	FD		N	FD		N	FD		N
Lead - Total	mg/L	0.00005	0.00005	0%	0.0001	0.00005	67%	0.00005	0.0001	-67%	0.00005	0.0001	-67%	0.0001
Lithium - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Magnesium - Total	mg/L	2.1	2.2	-5%	1.5	1.5	0%	2	2	0%	1.7	1.9	-11%	1.5
Manganese - Total	mg/L	0.063	0.067	-6%	0.023	0.024	-4%	0.015	0.015	0%	0.107	0.113	-5%	0.019
Mercury - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury, Methyl (Hg) - Total	mg/L	0.00000012	0.00000011	9%	-	-	#VALUE!	0.00000012	0.00000011	9%	0.00000021	0.00000019	10%	-
Mercury, Ultra-low Level (Hg) - Total	mg/L	0.00000125	0.0000031	-85%	0.0000049	0.0000049	0%	0.00000125	0.00000125	0%	0.0000033	0.0000048	-37%	0.0000047
Molybdenum - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Nickel - Total	mg/L	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015
Phosphorus - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Total	mg/L	0.3	0.3	0%	0.3	0.3	0%	0.3	0.3	0%	0.3	0.3	0%	0.3
Selenium - Total	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025
Silicon - Total	mg/L	4.1	4.4	-7%	2.3	2.4	-4%	2.2	2.2	0%	2.9	3.1	-7%	2.3
Silver - Total	mg/L	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025
Sodium - Total	mg/L	1.2	1.3	-8%	0.9	0.9	0%	1.2	1.2	0%	1.6	1.5	6%	0.9
Strontium - Total	mg/L	0.016	0.018	-12%	0.014	0.015	-7%	0.018	0.019	-5%	0.015	0.016	-6%	0.014
Thallium - Total	mg/L	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005
Tin - Total	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025
Tungsten - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium - Total	mg/L	0.001	0.002	-67%	0.005	0.004	22%	0.001	0.001	0%	0.002	0.002	0%	0.004
Uranium - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Vanadium - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Zinc - Total	mg/L	0.002	0.002	0%	0.002	0.002	0%	0.002	0.002	0%	0.002	0.002	0%	0.002
Zirconium - Total	mg/L	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005
Dissolved Metals														
Aluminum (Al), Dissolved (0.2µ)	mg/L	0.065	0.063	3%	0.123	0.118	4%	0.039	0.038	3%	0.099	0.1	-1%	0.108
Antimony - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Arsenic - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Barium - Dissolved	mg/L	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025
Beryllium - Dissolved	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025
Bismuth - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Boron - Dissolved	mg/L	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005
Cadmium - Dissolved	mg/L	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000008
Calcium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium - Dissolved	mg/L	0.00025	0.00025	0%	0.0006	0.00025	82%	0.001	0.0011	-10%	0.00025	0.0014	-139%	0.00025
Cobalt - Dissolved	mg/L	0.00011	0.00014	-24%	0.00003	0.00003	0%	0.001	0.00097	3%	0.00003	0.00006	-67%	0.00007
Copper - Dissolved	mg/L	0.0004	0.0004	0%	0.0008	0.0008	0%	0.0004	0.0004	0%	0.0009	0.0009	0%	0.0004
Iron - Dissolved	mg/L	0.2	0.2	0%	0.2	0.2	0%	0.1	0.1	0%	0.3	0.3	0%	0.2
Lead - Dissolved	mg/L	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005
Lithium - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Magnesium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese - Dissolved	mg/L	0.062	0.063	-2%	0.019	0.019	0%	0.007	0.007	0%	0.084	0.086	-2%	0.02
Mercury - Dissolved	mg/L	0.00000125	0.0000026	-70%	0.00000125	0.0000026	-70%	0.00000125	0.00000125	0%	0.0000032	0.0000033	-3%	0.00000125
Mercury, Methyl (Hg) - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Nickel - Dissolved	mg/L	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015

		BG2	BG2	BG2	BH1S	BH1S	BH1S	H1S	H1S	H1S	H1S	H1S	H1S	M1
	Units	2023-03-22	2023-03-22-1	RPD Calculation	2023-05-10	2023-05-10-01	RPD Calculation	2023-08-17	2023-08-17-01	RPD Calculation	2023-10-15	2023-10-15-01	RPD Calculation	2023-05-09
Sample Type		N	FD		N	FD		N	FD		N	FD		N
Phosphorus - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025
Silicon - Dissolved	mg/L	4.51	4.52	0%	2.91	2.9	0%	2.42	2.4	1%	2.8	2.84	-1%	2.91
Silver - Dissolved	mg/L	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025
Sodium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium - Dissolved	mg/L	0.016	0.016	0%	0.014	0.014	0%	0.018	0.017	6%	0.018	0.017	6%	0.014
Thallium - Dissolved	mg/L	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005
Tin - Dissolved	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025
Tungsten - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium - Dissolved	mg/L	0.0005	0.0005	0%	0.002	0.002	0%	0.0005	0.0005	0%	0.001	0.001	0%	0.001
Uranium - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Vanadium - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005
Zinc - Dissolved	mg/L	0.002	0.002	0%	0.002	0.002	0%	0.002	0.002	0%	0.002	0.002	0%	0.002
Zirconium - Dissolved	mg/L	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005

		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	US1	US1
	Units	2023-05-09-01	RPD Calculation	2023-08-17	2023-08-17-01	RPD Calculation	2023-10-31	2023-10-31-01	RPD Calculation	2023-12-14	2023-12-14-01	RPD Calculation	2022-12-13	2022-12-13-01
Sample Type		FD		N	FD		N	FD		N	FD		N	FD
Field Measured														
Temperature Field	°C	-	-	20.4	-	-	-	-	-	1.5	-	-	0	-
pH Field	s.u.	-	-	7.45	-	-	-	-	-	7.49	-	-	7.611	-
Conductivity Field	µS/cm	-	-	45.1	-	-	-	-	-	52	-	-	160.9	-
Dissolved Oxygen Field	mg/L	-	-	8.58	-	-	-	-	-	12.53	-	-	8.81	-
Dissolved Oxygen Field %	%	-	-	95	-	-	-	-	-	89.3	-	-	60	-
Oxidation-Reduction Potential-Field	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Conventional Parameters														
pH	-	7.22	3%	6.72	6.65	1%	6.36	6.35	0%	7.68	6.49	17%	6.89	6.89
Turbidity	NTU	2.5	4%	1.6	3.7	-79%	3.8	3.8	0%	4.1	2.2	60%	-	-
Hardness (as CaCO3)	mg/L as CaCO3	21.4	-3%	26.1	25	4%	29.7	28.3	5%	27.8	28.3	-2%	80.9	80.9
Alkalinity, Total (as CaCO3)	mg/L	18	11%	26	25	4%	26	26	0%	36	28	25%	73	72
Acidity (as CaCO3)	mg/L	5.1	-68%	5.2	5.2	0%	5.7	5.8	-2%	2.5	2.5	0%	16	15
Total Dissolved Solids	mg/L	114	-183%	52	48	8%	60	58	3%	64	68	-6%	54	118
Total Suspended Solids	mg/L	5	0%	5	5	0%	5	5	0%	5	5	0%	14	20
Total Organic Carbon	mg/L	12.1	-56%	11	11	0%	14.7	15.1	-3%	18.7	18.8	-1%	26.3	23.9
Dissolved Organic Carbon	mg/L	12.4	-8%	10.6	10.9	-3%	13.8	13.7	1%	18.1	18.3	-1%	22.5	23.2
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	276.5	-
Major Ions														
Chloride	mg/L	0.25	-4%	0.18	0.19	-5%	0.24	0.24	0%	0.26	0.3	-14%	0.9	0.9
Cyanide (CN), Total	mg/L	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	0.001	0.001
Cyanide (CN), Free	mg/L	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	0.003	0.002	40%	0.001	0.001
Fluoride	mg/L	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025
Sulphate	mg/L	1.65	2%	1.79	1.77	1%	1.8	1.78	1%	1.74	1.73	1%	4.1	4.02
Nutrients														
Ammonia, Total (as N)	mg/L	0.01	0%	0.01	0.01	0%	0.01	0.04	-120%	0.01	0.03	-100%	0.2	0.21
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonia, Un-ionized (as N), calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.2	0%	0.025	0.025	0%	0.06	0.06	0%	0.09	0.08	12%	0.12	0.13
Nitrite (as N)	mg/L	0.01	0%	0.01	0.01	0%	0.01	0.01	0%	0.01	0.01	0%	0.01	0.01
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals														
Aluminum - Total	mg/L	0.194	3%	0.065	0.059	10%	0.149	0.134	11%	0.142	0.143	-1%	1.6	1.62
Antimony - Total	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005
Arsenic - Total	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.001
Barium - Total	mg/L	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025
Beryllium - Total	mg/L	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025
Bismuth - Total	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005
Boron - Total	mg/L	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005
Cadmium - Total	mg/L	0.000008	0%	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000019	0.000008	81%	0.00003	0.000038
Calcium - Total	mg/L	6.1	-5%	7.5	7.2	4%	8.6	8.2	5%	8	8.2	-2%	23	23
Chromium - Total	mg/L	0.0007	0%	0.00025	0.002	-156%	0.0014	0.0022	-44%	0.0007	0.0008	-13%	0.0044	0.0115
Cobalt - Total	mg/L	0.00011	-10%	0.00004	0.00005	-22%	0.00009	0.00009	0%	0.00007	0.00008	-13%	0.00198	0.00225
Copper - Total	mg/L	0.0014	0%	0.0015	0.0014	7%	0.0018	0.0016	12%	0.0029	0.0021	32%	0.0128	0.0133
Iron - Total	mg/L	0.3	0%	0.05	0.05	0%	0.3	0.3	0%	0.3	0.3	0%	3	3.3

		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	US1	US1
	Units	2023-05-09-01	RPD Calculation	2023-08-17	2023-08-17-01	RPD Calculation	2023-10-31	2023-10-31-01	RPD Calculation	2023-12-14	2023-12-14-01	RPD Calculation	2022-12-13	2022-12-13-01
Sample Type		FD		N	FD		N	FD		N	FD		N	FD
Lead - Total	mg/L	0.0001	0%	0.0001	0.0001	0%	0.0001	0.0002	-67%	0.0001	0.0001	0%	0.0008	0.0008
Lithium - Total	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.001	0.001
Magnesium - Total	mg/L	1.5	0%	1.8	1.7	6%	2	1.9	5%	1.9	1.9	0%	5.7	5.7
Manganese - Total	mg/L	0.019	0%	0.011	0.011	0%	0.057	0.054	5%	0.022	0.022	0%	0.664	0.716
Mercury - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury, Methyl (Hg) - Total	mg/L	-	#VALUE!	0.00000005	0.00000005	0%	0.0000002	0.00000019	5%	-	-	-	-	-
Mercury, Ultra-low Level (Hg) - Total	mg/L	0.0000041	14%	0.00000125	0.00000125	0%	0.000003	0.0000028	7%	0.0000053	0.0000039	30%	0.000023	0.000018
Molybdenum - Total	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.002	0.0005	120%	0.002	0.002
Nickel - Total	mg/L	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.003	0.008
Phosphorus - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Total	mg/L	0.3	0%	0.8	0.8	0%	0.3	0.3	0%	0.3	0.3	0%	2.3	2.2
Selenium - Total	mg/L	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025
Silicon - Total	mg/L	2.3	0%	1.8	1.7	6%	2.4	2.4	0%	3	3	0%	7	7.1
Silver - Total	mg/L	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025
Sodium - Total	mg/L	1	-11%	1.1	1	10%	1.1	1	10%	1.1	1.2	-9%	2.6	2.6
Strontium - Total	mg/L	0.014	0%	0.017	0.017	0%	0.018	0.018	0%	0.017	0.017	0%	0.083	0.085
Thallium - Total	mg/L	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005
Tin - Total	mg/L	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025
Tungsten - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium - Total	mg/L	0.005	-22%	0.001	0.0005	67%	0.003	0.002	40%	0.002	0.002	0%	0.058	0.06
Uranium - Total	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005
Vanadium - Total	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.003	0.003
Zinc - Total	mg/L	0.002	0%	0.002	0.002	0%	0.002	0.002	0%	0.002	0.002	0%	0.007	0.008
Zirconium - Total	mg/L	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005
Dissolved Metals														
Aluminum (Al), Dissolved (0.2µ)	mg/L	0.109	-1%	0.042	0.05	-17%	0.074	0.075	-1%	0.115	0.113	2%	1.16	1.04
Antimony - Dissolved	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005
Arsenic - Dissolved	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005
Barium - Dissolved	mg/L	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025
Beryllium - Dissolved	mg/L	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025
Bismuth - Dissolved	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005
Boron - Dissolved	mg/L	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005
Cadmium - Dissolved	mg/L	0.000008	0%	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000008	0.000008	0%	0.000019	0.00002
Calcium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium - Dissolved	mg/L	0.0008	-105%	0.0006	0.0018	-100%	0.00025	0.00025	0%	0.0006	0.0005	18%	0.0024	0.0023
Cobalt - Dissolved	mg/L	0.00006	15%	0.00003	0.00003	0%	0.00003	0.00003	0%	0.00003	0.00003	0%	0.00098	0.00104
Copper - Dissolved	mg/L	0.0004	0%	0.001	0.001	0%	0.001	0.001	0%	0.0011	0.0011	0%	0.0097	0.0097
Iron - Dissolved	mg/L	0.2	0%	0.05	0.05	0%	0.2	0.2	0%	0.2	0.2	0%	1.3	1.3
Lead - Dissolved	mg/L	0.00005	0%	0.00005	0.0001	-67%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.0005	0.0004
Lithium - Dissolved	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005
Magnesium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese - Dissolved	mg/L	0.02	0%	0.0025	0.0025	0%	0.029	0.029	0%	0.014	0.014	0%	0.631	0.627
Mercury - Dissolved	mg/L	0.0000028	-77%	0.00000125	0.00000125	0%	0.00000125	0.00000125	0%	0.0000051	0.0000037	32%	0.000016	0.000013
Mercury, Methyl (Hg) - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum - Dissolved	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.002	0.002
Nickel - Dissolved	mg/L	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015

		M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	US1	US1
	Units	2023-05-09-01	RPD Calculation	2023-08-17	2023-08-17-01	RPD Calculation	2023-10-31	2023-10-31-01	RPD Calculation	2023-12-14	2023-12-14-01	RPD Calculation	2022-12-13	2022-12-13-01
Sample Type		FD		N	FD		N	FD		N	FD		N	FD
Phosphorus - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025
Silicon - Dissolved	mg/L	2.91	0%	1.82	1.73	5%	2.59	2.58	0%	2.52	2.5	1%	4.07	4.05
Silver - Dissolved	mg/L	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025
Sodium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium - Dissolved	mg/L	0.014	0%	0.016	0.016	0%	0.016	0.016	0%	0.017	0.017	0%	0.085	0.085
Thallium - Dissolved	mg/L	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005
Tin - Dissolved	mg/L	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025
Tungsten - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium - Dissolved	mg/L	0.001	0%	0.0005	0.0005	0%	0.001	0.001	0%	0.001	0.001	0%	0.042	0.039
Uranium - Dissolved	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005
Vanadium - Dissolved	mg/L	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.002	0.002
Zinc - Dissolved	mg/L	0.002	0%	0.002	0.002	0%	0.002	0.002	0%	0.002	0.002	0%	0.002	0.002
Zirconium - Dissolved	mg/L	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005

		US1	US1	US1	US1	US1	US1	US1	US6	US6	US6	US6	US6	US6
	Units	RPD Calculation	2023-04-24	2023-04-24-01	RPD Calculation	2023-06-14	2023-06-14-01	RPD Calculation	2023-07-12	2023-07-12-01	RPD Calculation	2023-09-20	2023-09-20-01	RPD Calculation
Sample Type			N	FD		N	FD		N	FD		N	FD	
Field Measured														
Temperature Field	°C	-	3.2	-	-	17.6	-	-	21.9	-	-	-	-	-
pH Field	s.u.	-	6.69	-	-	6.83	-	-	6.74	-	-	-	-	-
Conductivity Field	µS/cm	-	44.1	-	-	288.3	-	-	62.2	-	-	-	-	-
Dissolved Oxygen Field	mg/L	-	11.15	-	-	5.01	-	-	6.06	-	-	-	-	-
Dissolved Oxygen Field %	%	-	83.3	-	-	52.5	-	-	69.67	-	-	-	-	-
Oxidation-Reduction Potential-Field	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Conventional Parameters														
pH	-	0%	7.03	7.11	-1%	7.57	7.61	-1%	6.85	6.77	1%	-	-	-
Turbidity	NTU	-	28.6	29.5	-3%	15.2	15.9	-5%	3.6	3.5	3%	-	-	-
Hardness (as CaCO3)	mg/L as CaCO3	0%	29.5	28.6	3%	149	147	1%	32.1	32.4	-1%	-	-	-
Alkalinity, Total (as CaCO3)	mg/L	1%	22	22	0%	148	148	0%	29	28	4%	-	-	-
Acidity (as CaCO3)	mg/L	6%	6.1	7.4	-19%	23.7	11.7	68%	9.4	7.6	21%	-	-	-
Total Dissolved Solids	mg/L	-74%	60	80	-29%	192	182	5%	90	96	-6%	-	-	-
Total Suspended Solids	mg/L	-35%	13	17	-27%	18	23	-24%	5	5	0%	-	-	-
Total Organic Carbon	mg/L	10%	15.4	15.4	0%	19.6	22.1	-12%	29.6	29.8	-1%	-	-	-
Dissolved Organic Carbon	mg/L	-3%	14.5	13.8	5%	16.4	22	-29%	27.7	26.5	4%	-	-	-
Oxidation-Reduction Potential	mV	-	228.3	-	-	310.5	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	0%	0.41	0.42	-2%	0.28	0.28	0%	0.12	0.12	0%	-	-	-
Cyanide (CN), Total	mg/L	0%	0.001	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	-	-	-
Cyanide (CN), Free	mg/L	0%	0.001	0.001	0%	0.001	0.001	0%	0.001	0.001	0%	-	-	-
Fluoride	mg/L	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	-	-	-
Sulphate	mg/L	2%	2.86	2.85	0%	1.15	1.14	1%	0.25	0.26	-4%	-	-	-
Nutrients														
Ammonia, Total (as N)	mg/L	-5%	0.04	0.04	0%	0.12	0.07	53%	0.01	0.03	-100%	-	-	-
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ammonia, Un-ionized (as N), calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	-8%	0.4	0.42	-5%	0.025	0.025	0%	0.025	0.025	0%	-	-	-
Nitrite (as N)	mg/L	0%	0.01	0.01	0%	0.01	0.01	0%	0.01	0.01	0%	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals														
Aluminum - Total	mg/L	-1%	1.64	1.7	-4%	0.33	0.358	-8%	0.237	0.238	0%	-	-	-
Antimony - Total	mg/L	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Arsenic - Total	mg/L	-67%	0.0005	0.0005	0%	0.002	0.002	0%	0.001	0.001	0%	-	-	-
Barium - Total	mg/L	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	-	-	-
Beryllium - Total	mg/L	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	-	-	-
Bismuth - Total	mg/L	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Boron - Total	mg/L	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	-	-	-
Cadmium - Total	mg/L	-24%	0.000023	0.00002	14%	0.000008	0.000008	0%	0.000023	0.00003	-26%	-	-	-
Calcium - Total	mg/L	0%	7.7	7.5	3%	46.5	45.6	2%	8.4	8.7	-4%	-	-	-
Chromium - Total	mg/L	-89%	0.0046	0.0044	4%	0.0017	0.0017	0%	0.0013	0.0014	-7%	-	-	-
Cobalt - Total	mg/L	-13%	0.00088	0.00088	0%	0.00273	0.00264	3%	0.00069	0.00071	-3%	-	-	-
Copper - Total	mg/L	-4%	0.0141	0.014	1%	0.0118	0.0121	-3%	0.0015	0.0016	-6%	-	-	-
Iron - Total	mg/L	-10%	1.7	1.7	0%	2.6	2.6	0%	1.6	1.5	6%	-	-	-

		US1	US1	US1	US1	US1	US1	US1	US6	US6	US6	US6	US6	US6
	Units	RPD Calculation	2023-04-24	2023-04-24-01	RPD Calculation	2023-06-14	2023-06-14-01	RPD Calculation	2023-07-12	2023-07-12-01	RPD Calculation	2023-09-20	2023-09-20-01	RPD Calculation
Sample Type			N	FD		N	FD		N	FD		N	FD	
Lead - Total	mg/L	0%	0.0008	0.0008	0%	0.0003	0.0003	0%	0.0002	0.0002	0%	-	-	-
Lithium - Total	mg/L	0%	0.001	0.001	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Magnesium - Total	mg/L	0%	2.5	2.4	4%	8.1	8.1	0%	2.7	2.6	4%	-	-	-
Manganese - Total	mg/L	-8%	0.07	0.07	0%	1.79	1.73	3%	0.108	0.108	0%	-	-	-
Mercury - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury, Methyl (Hg) - Total	mg/L	-	-	-	-	-	-	-	0.00000046	0.00000038	19%	0.0000008	0.00000075	6%
Mercury, Ultra-low Level (Hg) - Total	mg/L	24%	0.0000175	0.0000187	-7%	0.0000135	0.0000125	8%	0.000005	0.0000052	-4%	-	-	-
Molybdenum - Total	mg/L	0%	0.001	0.001	0%	0.006	0.007	-15%	0.0005	0.0005	0%	-	-	-
Nickel - Total	mg/L	-91%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	-	-	-
Phosphorus - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Total	mg/L	4%	1.6	1.5	6%	1	1	0%	1	1	0%	-	-	-
Selenium - Total	mg/L	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	-	-	-
Silicon - Total	mg/L	-1%	5.6	5.5	2%	3.6	3.6	0%	1	1	0%	-	-	-
Silver - Total	mg/L	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	-	-	-
Sodium - Total	mg/L	0%	1.3	1.3	0%	1.9	1.9	0%	1.4	1.5	-7%	-	-	-
Strontium - Total	mg/L	-2%	0.031	0.031	0%	0.137	0.14	-2%	0.021	0.022	-5%	-	-	-
Thallium - Total	mg/L	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	-	-	-
Tin - Total	mg/L	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	-	-	-
Tungsten - Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium - Total	mg/L	-3%	0.06	0.06	0%	0.014	0.014	0%	0.006	0.006	0%	-	-	-
Uranium - Total	mg/L	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Vanadium - Total	mg/L	0%	0.003	0.003	0%	0.002	0.002	0%	0.001	0.001	0%	-	-	-
Zinc - Total	mg/L	-13%	0.005	0.006	-18%	0.002	0.002	0%	0.002	0.002	0%	-	-	-
Zirconium - Total	mg/L	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	-	-	-
Dissolved Metals														
Aluminum (Al), Dissolved (0.2µ)	mg/L	11%	0.654	0.55	17%	0.042	0.041	2%	0.183	0.188	-3%	-	-	-
Antimony - Dissolved	mg/L	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Arsenic - Dissolved	mg/L	0%	0.0005	0.0005	0%	0.002	0.002	0%	0.0005	0.001	-67%	-	-	-
Barium - Dissolved	mg/L	0%	0.025	0.025	0%	0.025	0.025	0%	0.025	0.025	0%	-	-	-
Beryllium - Dissolved	mg/L	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	-	-	-
Bismuth - Dissolved	mg/L	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Boron - Dissolved	mg/L	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	-	-	-
Cadmium - Dissolved	mg/L	-5%	0.000008	0.000008	0%	0.000008	0.000008	0%	0.00002	0.00002	0%	-	-	-
Calcium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium - Dissolved	mg/L	4%	0.0016	0.0014	13%	0.0008	0.0007	13%	0.0012	0.0057	-130%	-	-	-
Cobalt - Dissolved	mg/L	-6%	0.00032	0.00037	-14%	0.00201	0.00206	-2%	0.0006	0.00061	-2%	-	-	-
Copper - Dissolved	mg/L	0%	0.0109	0.0111	-2%	0.0064	0.0063	2%	0.0011	0.0012	-9%	-	-	-
Iron - Dissolved	mg/L	0%	0.6	0.5	18%	1.4	1.3	7%	1	1	0%	-	-	-
Lead - Dissolved	mg/L	22%	0.0004	0.0007	-55%	0.0001	0.0001	0%	0.0001	0.0002	-67%	-	-	-
Lithium - Dissolved	mg/L	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Magnesium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese - Dissolved	mg/L	1%	0.056	0.045	22%	1.49	1.49	0%	0.092	0.091	1%	-	-	-
Mercury - Dissolved	mg/L	21%	0.0000061	0.0000061	0%	0.000005	0.0000053	-6%	0.0000035	0.000003	15%	-	-	-
Mercury, Methyl (Hg) - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum - Dissolved	mg/L	0%	0.003	0.008	-91%	0.006	0.006	0%	0.0005	0.0005	0%	-	-	-
Nickel - Dissolved	mg/L	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	0.0015	0.0015	0%	-	-	-

		US1	US1	US1	US1	US1	US1	US1	US6	US6	US6	US6	US6	US6
	Units	RPD Calculation	2023-04-24	2023-04-24-01	RPD Calculation	2023-06-14	2023-06-14-01	RPD Calculation	2023-07-12	2023-07-12-01	RPD Calculation	2023-09-20	2023-09-20-01	RPD Calculation
Sample Type			N	FD		N	FD		N	FD		N	FD	
Phosphorus - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	-	-	-
Silicon - Dissolved	mg/L	0%	3.18	3.17	0%	3.27	3.24	1%	0.969	0.957	1%	-	-	-
Silver - Dissolved	mg/L	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	0.000025	0.000025	0%	-	-	-
Sodium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Strontium - Dissolved	mg/L	0%	0.029	0.024	19%	0.131	0.129	2%	0.021	0.021	0%	-	-	-
Thallium - Dissolved	mg/L	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	0.00005	0.00005	0%	-	-	-
Tin - Dissolved	mg/L	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	0.00025	0.00025	0%	-	-	-
Tungsten - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Titanium - Dissolved	mg/L	7%	0.022	0.017	26%	0.002	0.002	0%	0.004	0.004	0%	-	-	-
Uranium - Dissolved	mg/L	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Vanadium - Dissolved	mg/L	0%	0.001	0.001	0%	0.0005	0.0005	0%	0.0005	0.0005	0%	-	-	-
Zinc - Dissolved	mg/L	0%	0.002	0.012	-143%	0.002	0.002	0%	0.004	0.002	67%	-	-	-
Zirconium - Dissolved	mg/L	0%	0.005	0.005	0%	0.005	0.005	0%	0.005	0.005	0%	-	-	-

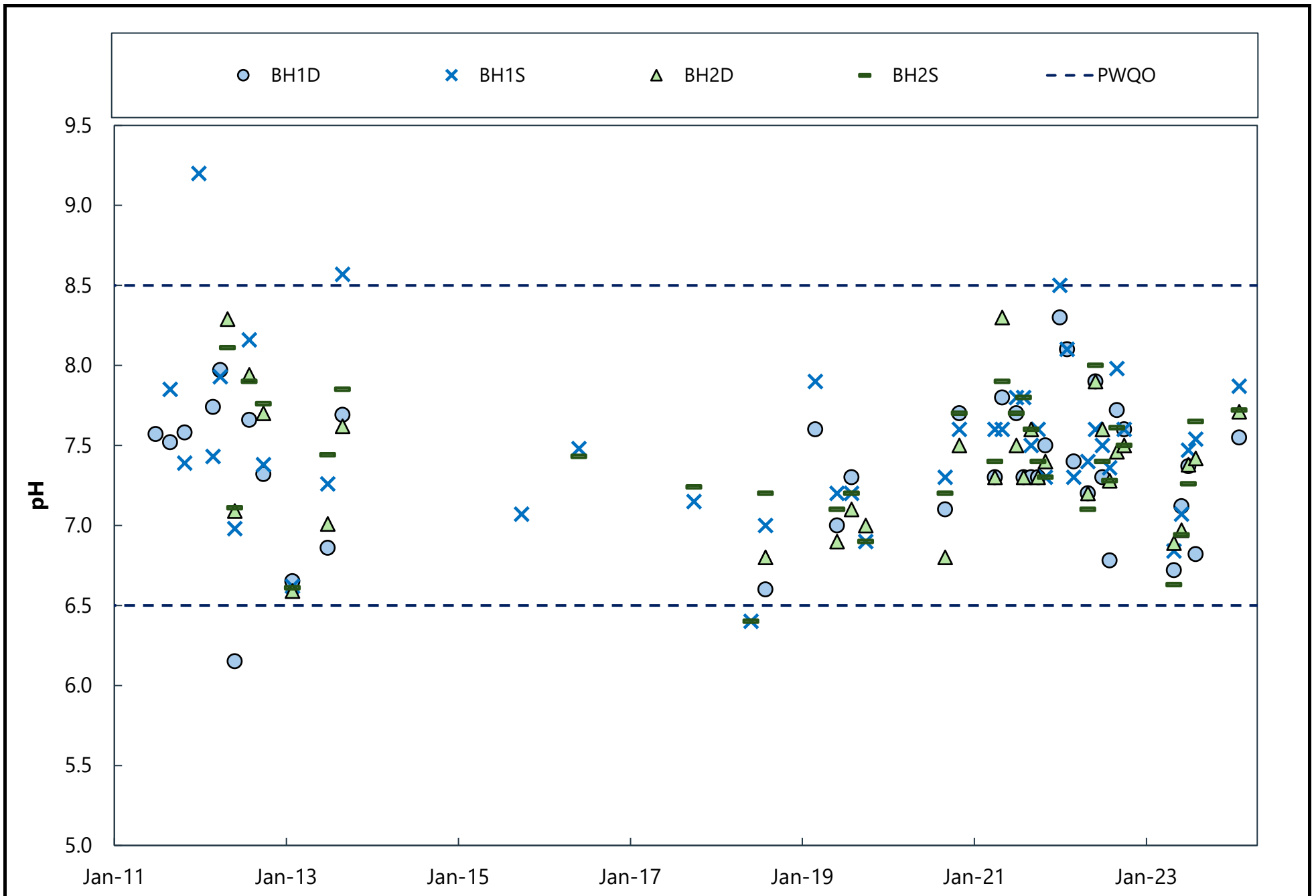
		US6	US6	US6	V3	V3	V3
	Units	2023-11-20	2023-11-20-01	RPD Calculation	2022-10-19	2022-10-19-01	RPD Calculation
Sample Type		N	FD		N	FD	
Field Measured							
Temperature Field	°C	-	-	-	6.7	-	-
pH Field	s.u.	-	-	-	7.7	-	-
Conductivity Field	µS/cm	-	-	-	174	-	-
Dissolved Oxygen Field	mg/L	-	-	-	11.3	-	-
Dissolved Oxygen Field %	%	-	-	-	92.5	-	-
Oxidation-Reduction Potential-Field	mV	-	-	-	-	-	-
Conventional Parameters							
pH	-	6.05	6	1%	7.62	7.6	0%
Turbidity	NTU	3	2.7	11%	-	-	-
Hardness (as CaCO3)	mg/L as CaCO3	20.7	20.2	2%	57.3	56.5	1%
Alkalinity, Total (as CaCO3)	mg/L	11	10	10%	43	41	5%
Acidity (as CaCO3)	mg/L	12.9	13.8	-7%	-	-	-
Total Dissolved Solids	mg/L	78	64	20%	90	92	-2%
Total Suspended Solids	mg/L	5	5	0%	5	5	0%
Total Organic Carbon	mg/L	25.9	30.8	-17%	16.3	14.5	12%
Dissolved Organic Carbon	mg/L	29.8	30.2	-1%	15.9	14.1	12%
Oxidation-Reduction Potential	mV	-	-	-	233	-	-
Major Ions							
Chloride	mg/L	0.22	0.23	-4%	1.93	1.93	0%
Cyanide (CN), Total	mg/L	0.001	0.001	0%	0.001	0.001	0%
Cyanide (CN), Free	mg/L	0.001	0.001	0%	0.001	0.001	0%
Fluoride	mg/L	0.025	0.025	0%	0.025	0.025	0%
Sulphate	mg/L	0.78	0.78	0%	4.19	4.2	0%
Nutrients							
Ammonia, Total (as N)	mg/L	0.02	0.03	-40%	0.04	0.01	120%
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-
Ammonia, Un-ionized (as N), calculated	mg/L	-	-	-	-	-	-
Nitrate (as N)	mg/L	0.25	0.25	0%	0.05	0.025	67%
Nitrite (as N)	mg/L	0.01	0.01	0%	0.01	0.01	0%
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	-	-
Total Metals							
Aluminum - Total	mg/L	0.754	0.743	1%	0.138	0.135	2%
Antimony - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Arsenic - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Barium - Total	mg/L	0.025	0.025	0%	0.025	0.025	0%
Beryllium - Total	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%
Bismuth - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Boron - Total	mg/L	0.005	0.005	0%	0.005	0.005	0%
Cadmium - Total	mg/L	0.000048	0.000054	-12%	0.000008	0.000008	0%
Calcium - Total	mg/L	5.8	5.6	4%	12.4	12.6	-2%
Chromium - Total	mg/L	0.0018	0.0018	0%	0.0006	0.0005	18%
Cobalt - Total	mg/L	0.00047	0.00046	2%	0.00021	0.0001	71%
Copper - Total	mg/L	0.0031	0.003	3%	0.0023	0.0016	36%
Iron - Total	mg/L	0.9	0.9	0%	0.3	0.3	0%

		US6	US6	US6	V3	V3	V3
	Units	2023-11-20	2023-11-20-01	RPD Calculation	2022-10-19	2022-10-19-01	RPD Calculation
Sample Type		N	FD		N	FD	
Lead - Total	mg/L	0.0004	0.0003	29%	0.0002	0.0002	0%
Lithium - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Magnesium - Total	mg/L	1.5	1.5	0%	3.3	3.2	3%
Manganese - Total	mg/L	0.055	0.053	4%	0.014	0.014	0%
Mercury - Total	mg/L	-	-	-	-	-	-
Mercury, Methyl (Hg) - Total	mg/L	0.00000028	0.00000028	0%	-	-	-
Mercury, Ultra-low Level (Hg) - Total	mg/L	0.0000087	0.0000085	2%	0.0000044	0.000006	-31%
Molybdenum - Total	mg/L	0.0005	0.003	-143%	0.0005	0.0005	0%
Nickel - Total	mg/L	0.0015	0.0015	0%	0.0015	0.0015	0%
Phosphorus - Total	mg/L	-	-	-	-	-	-
Potassium - Total	mg/L	0.3	0.3	0%	0.3	0.3	0%
Selenium - Total	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%
Silicon - Total	mg/L	3.8	3.6	5%	3.2	3.2	0%
Silver - Total	mg/L	0.000025	0.000025	0%	0.000025	0.000025	0%
Sodium - Total	mg/L	1.6	1.6	0%	2.1	2.1	0%
Strontium - Total	mg/L	0.013	0.013	0%	0.086	0.084	2%
Thallium - Total	mg/L	0.00005	0.00005	0%	0.00005	0.00005	0%
Tin - Total	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%
Tungsten - Total	mg/L	-	-	-	-	-	-
Titanium - Total	mg/L	0.009	0.009	0%	0.003	0.003	0%
Uranium - Total	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Vanadium - Total	mg/L	0.001	0.001	0%	0.0005	0.0005	0%
Zinc - Total	mg/L	0.009	0.009	0%	0.002	0.002	0%
Zirconium - Total	mg/L	0.005	0.005	0%	0.005	0.005	0%
Dissolved Metals							
Aluminum (Al), Dissolved (0.2µ)	mg/L	0.695	0.691	1%	0.068	0.072	-6%
Antimony - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Arsenic - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Barium - Dissolved	mg/L	0.025	0.025	0%	0.025	0.025	0%
Beryllium - Dissolved	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%
Bismuth - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Boron - Dissolved	mg/L	0.005	0.005	0%	0.005	0.005	0%
Cadmium - Dissolved	mg/L	0.000044	0.00005	-13%	0.000008	0.000008	0%
Calcium - Dissolved	mg/L	-	-	-	-	-	-
Chromium - Dissolved	mg/L	0.0017	0.0015	13%	0.00025	0.00025	0%
Cobalt - Dissolved	mg/L	0.00041	0.00042	-2%	0.00006	0.00006	0%
Copper - Dissolved	mg/L	0.0017	0.0016	6%	0.0024	0.0011	74%
Iron - Dissolved	mg/L	0.7	0.7	0%	0.2	0.2	0%
Lead - Dissolved	mg/L	0.0002	0.0002	0%	0.0001	0.0001	0%
Lithium - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Magnesium - Dissolved	mg/L	-	-	-	-	-	-
Manganese - Dissolved	mg/L	0.053	0.053	0%	0.0025	0.0025	0%
Mercury - Dissolved	mg/L	0.0000075	0.0000073	3%	0.0000027	0.000004	-39%
Mercury, Methyl (Hg) - Dissolved	mg/L	-	-	-	-	-	-
Molybdenum - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Nickel - Dissolved	mg/L	0.0015	0.0015	0%	0.0015	0.0015	0%

		US6	US6	US6	V3	V3	V3
	Units	2023-11-20	2023-11-20-01	RPD Calculation	2022-10-19	2022-10-19-01	RPD Calculation
Sample Type		N	FD		N	FD	
Phosphorus - Dissolved	mg/L	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%
Silicon - Dissolved	mg/L	3.63	3.58	1%	3.06	3.08	-1%
Silver - Dissolved	mg/L	0.000025	0.000025	0%	0.000025	0.000025	0%
Sodium - Dissolved	mg/L	-	-	-	-	-	-
Strontium - Dissolved	mg/L	0.014	0.014	0%	0.091	0.09	1%
Thallium - Dissolved	mg/L	0.00005	0.00005	0%	0.00005	0.00005	0%
Tin - Dissolved	mg/L	0.00025	0.00025	0%	0.00025	0.00025	0%
Tungsten - Dissolved	mg/L	-	-	-	-	-	-
Titanium - Dissolved	mg/L	0.007	0.007	0%	0.001	0.001	0%
Uranium - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Vanadium - Dissolved	mg/L	0.0005	0.0005	0%	0.0005	0.0005	0%
Zinc - Dissolved	mg/L	0.007	0.008	-13%	0.002	0.002	0%
Zirconium - Dissolved	mg/L	0.005	0.005	0%	0.005	0.005	0%

APPENDIX D

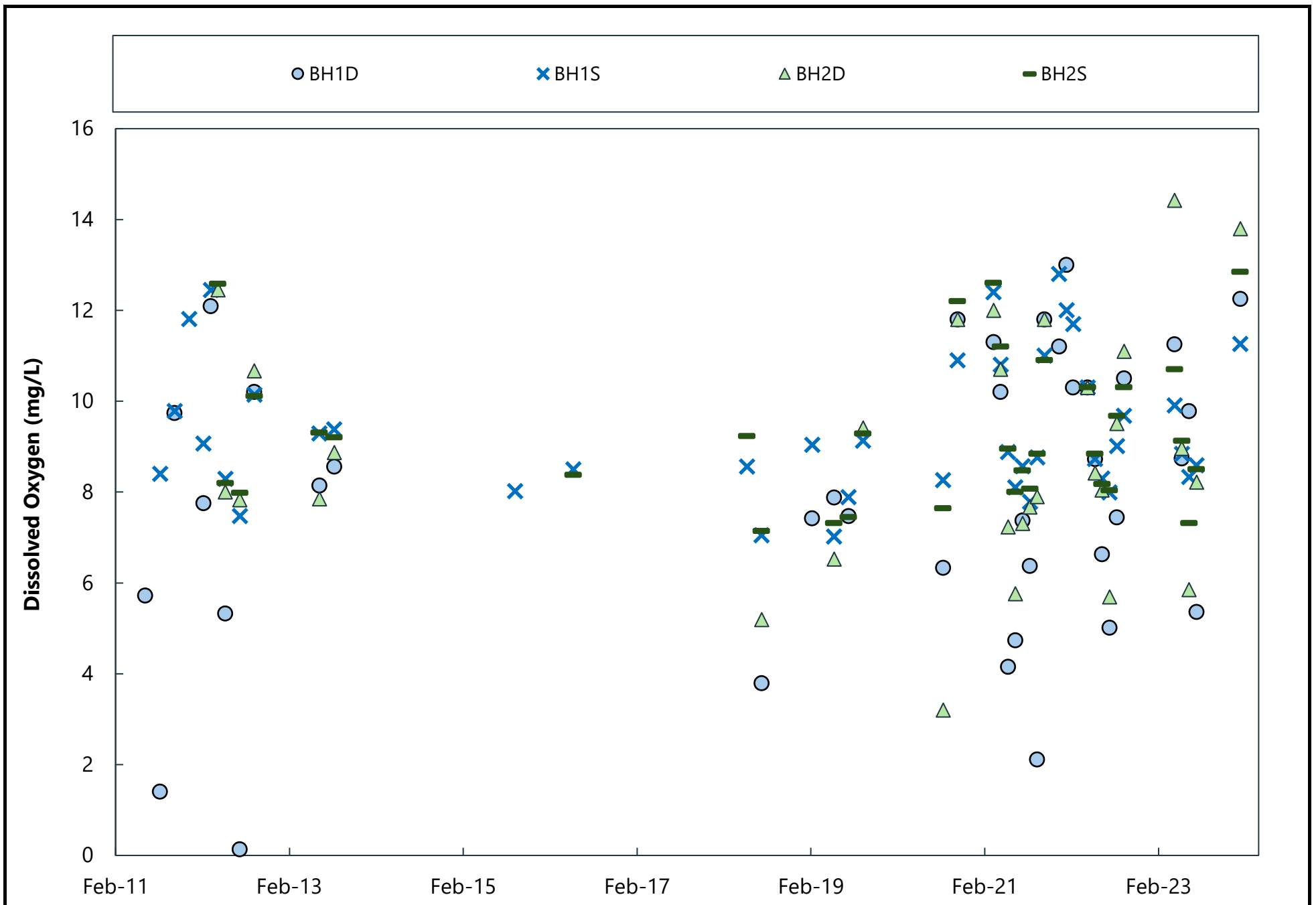
Timeseries Graphs



Notes:
Field pH shown
Provincial Water Quality Objective (PWQO) for pH: 6.5 - 8.5

Misema River (Beaverhouse Lake)
pH

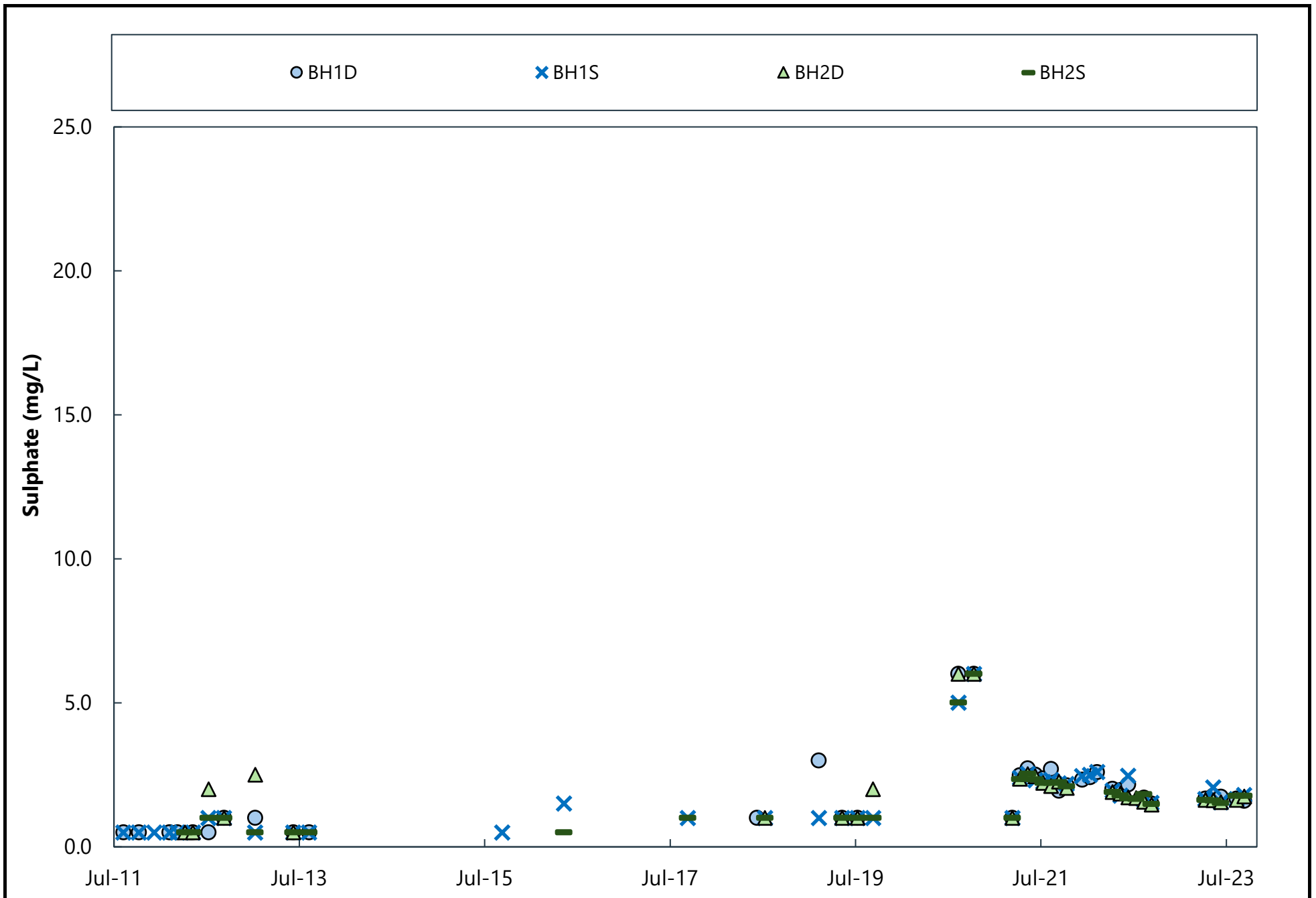
Drawn by: MP	Checked by:	November 2024
		Figure D-1



Notes:
Field dissolved oxygen shown

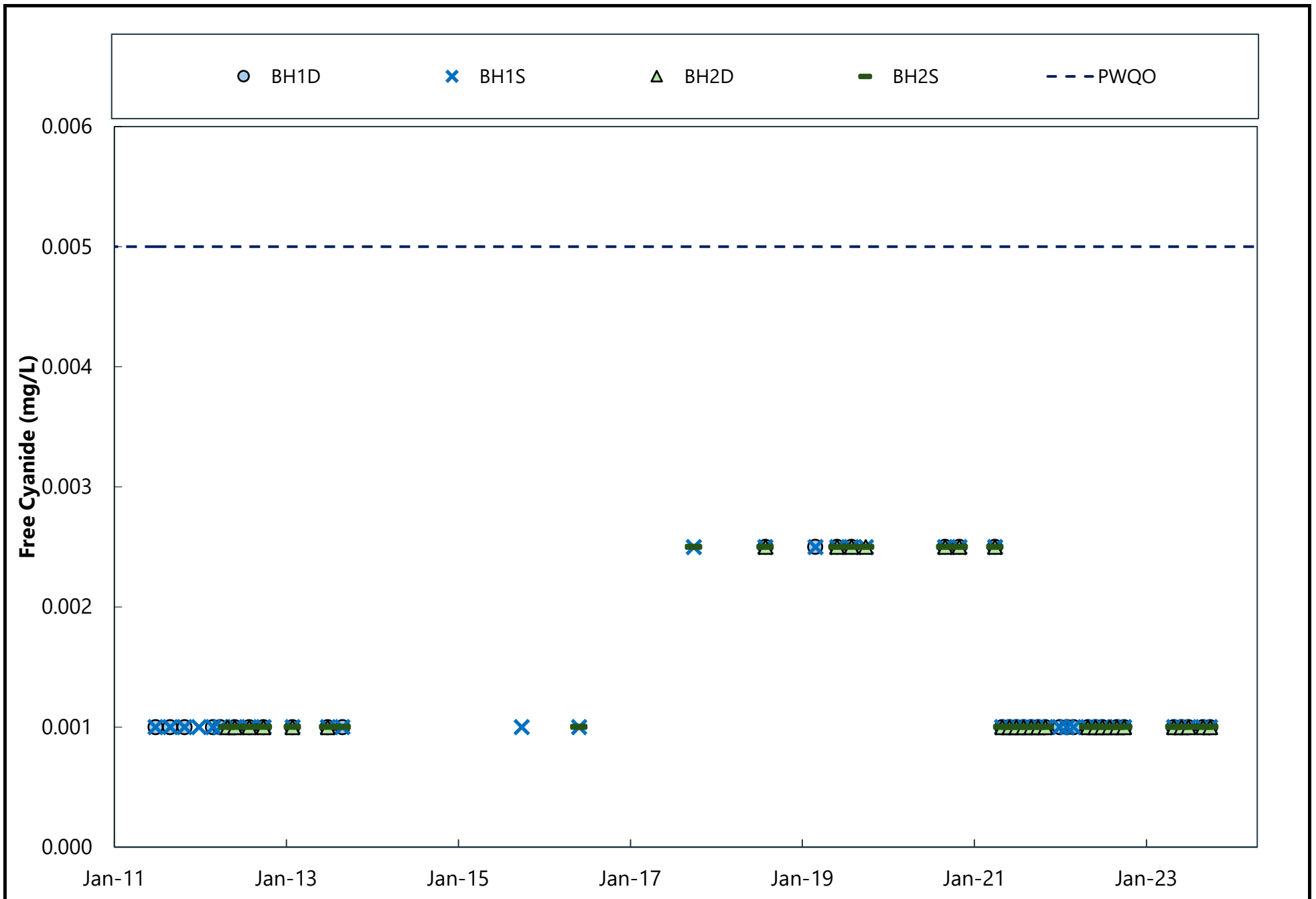
Misema River (Beaverhouse Lake)
Dissolved Oxygen

Drawn by: MP	Checked by:	November 2024
		Figure D-2



Misema River (Beaverhouse Lake)
Sulphate

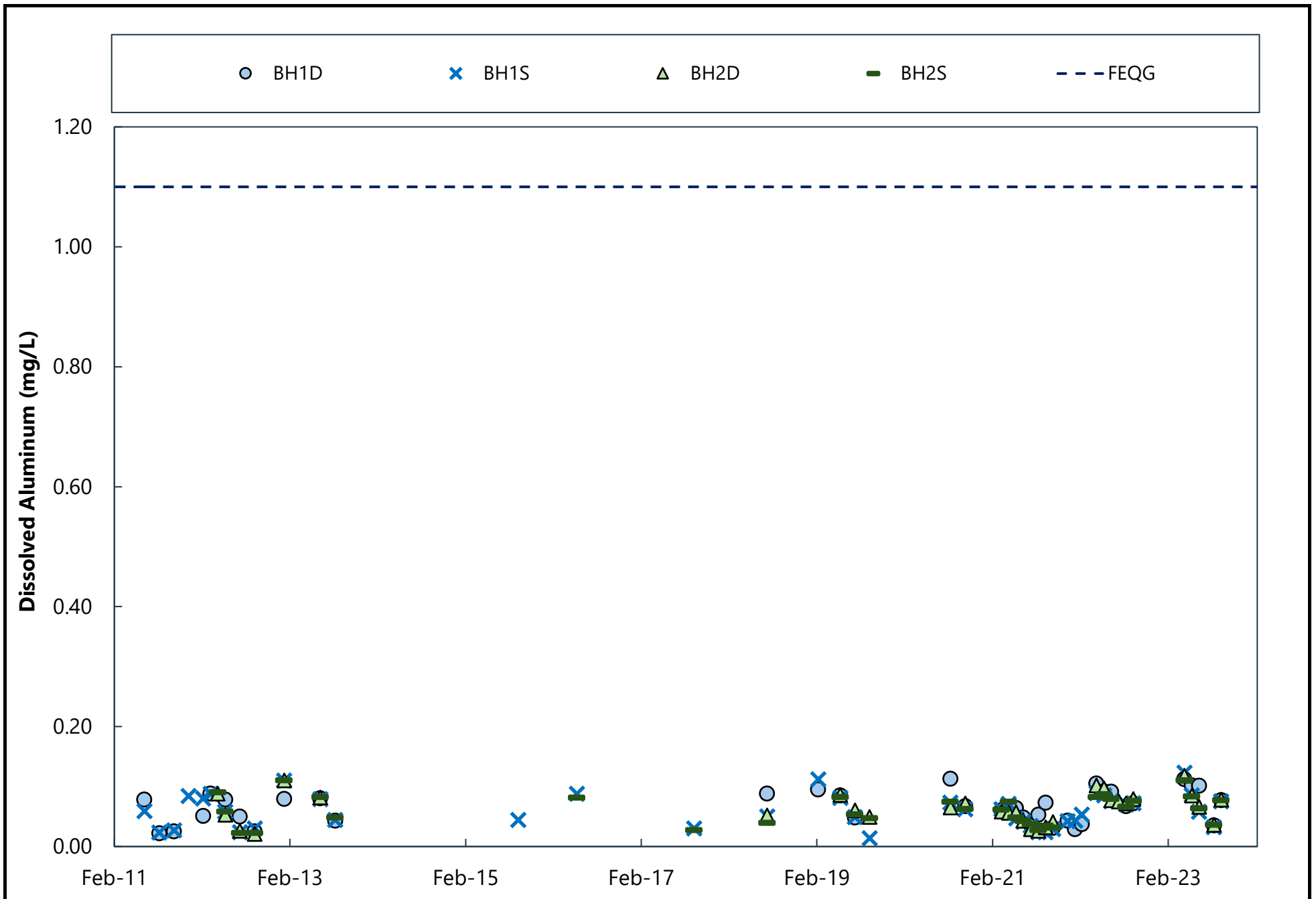
Drawn by: MP	Checked by:	November 2024
		Figure D-3



Notes:
Provincial Water Quality Objective (PWQO) for free cyanide: 0.005 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River (Beaverhouse Lake)
Free Cyanide

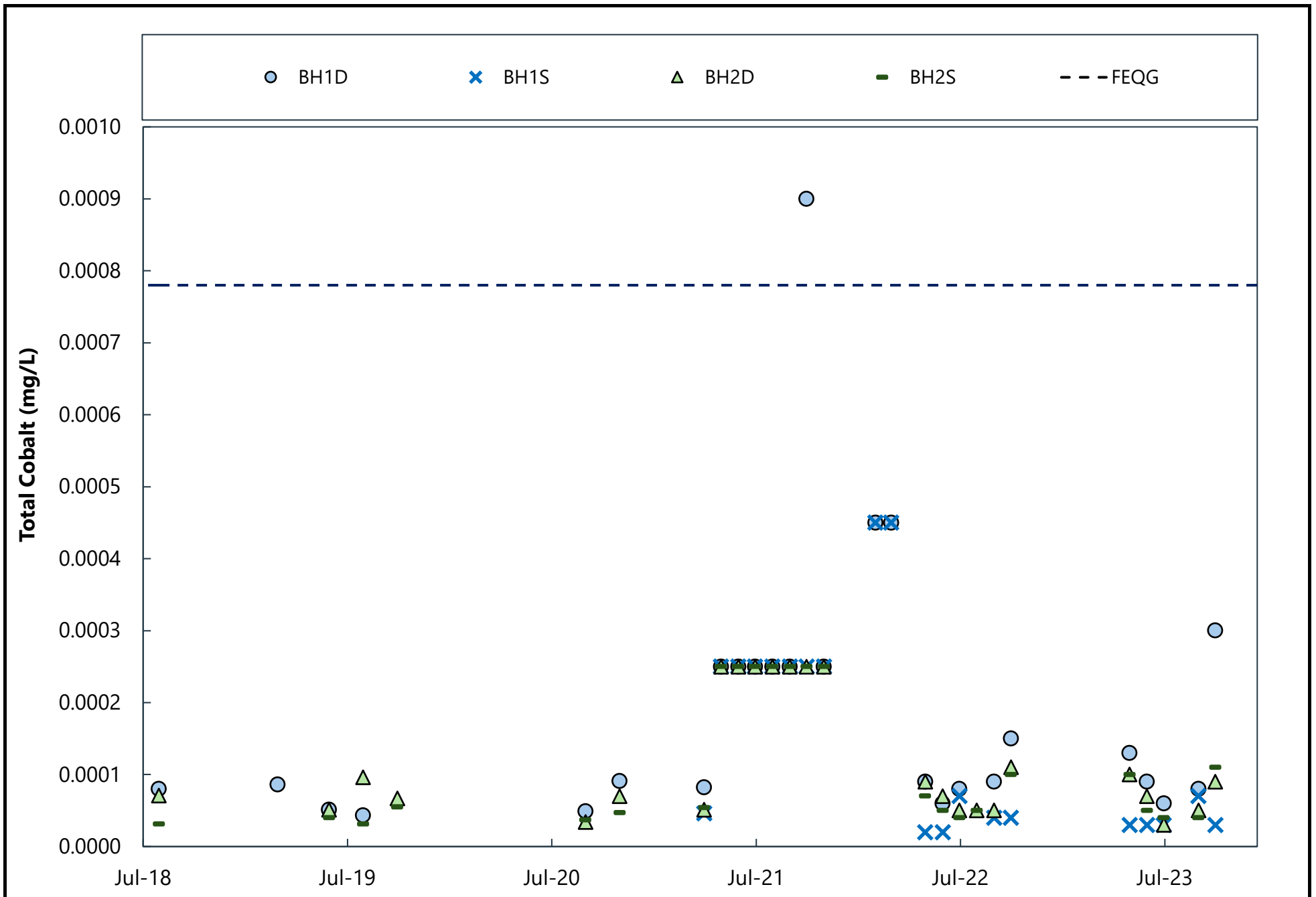
Drawn by: MP	Checked by:	November 2024
		Figure D-4



Notes:
Federal Environmental Quality Guideline (FEQG) for aluminum: 1.1 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River (Beaverhouse Lake)
Dissolved Aluminum

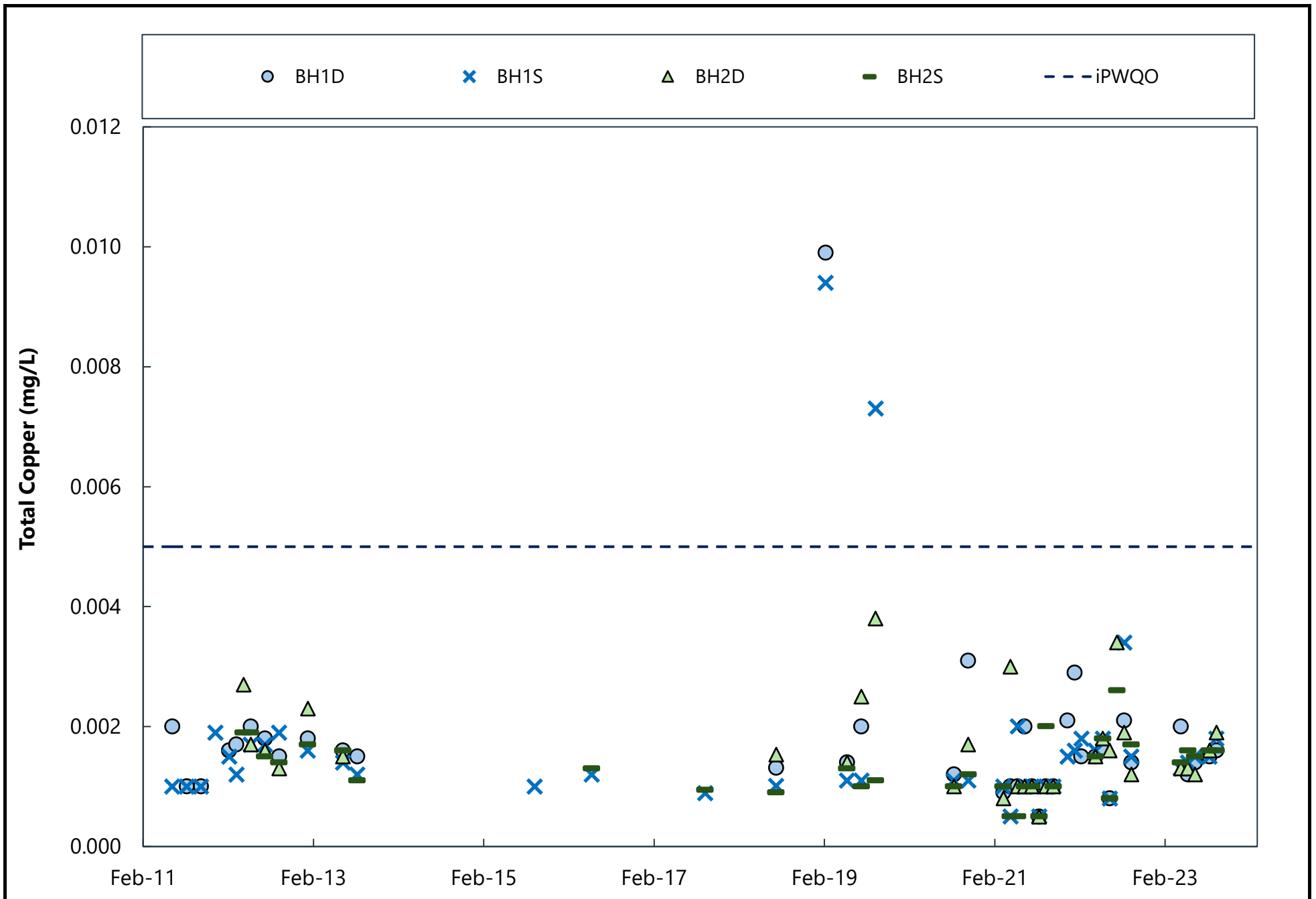
Drawn by: MP	Checked by:	November 2024
		Figure D-5



Notes:
Federal Environmental Quality Guideline (FEQG) for cobalt: 0.00078 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River (Beaverhouse Lake)
Total Cobalt

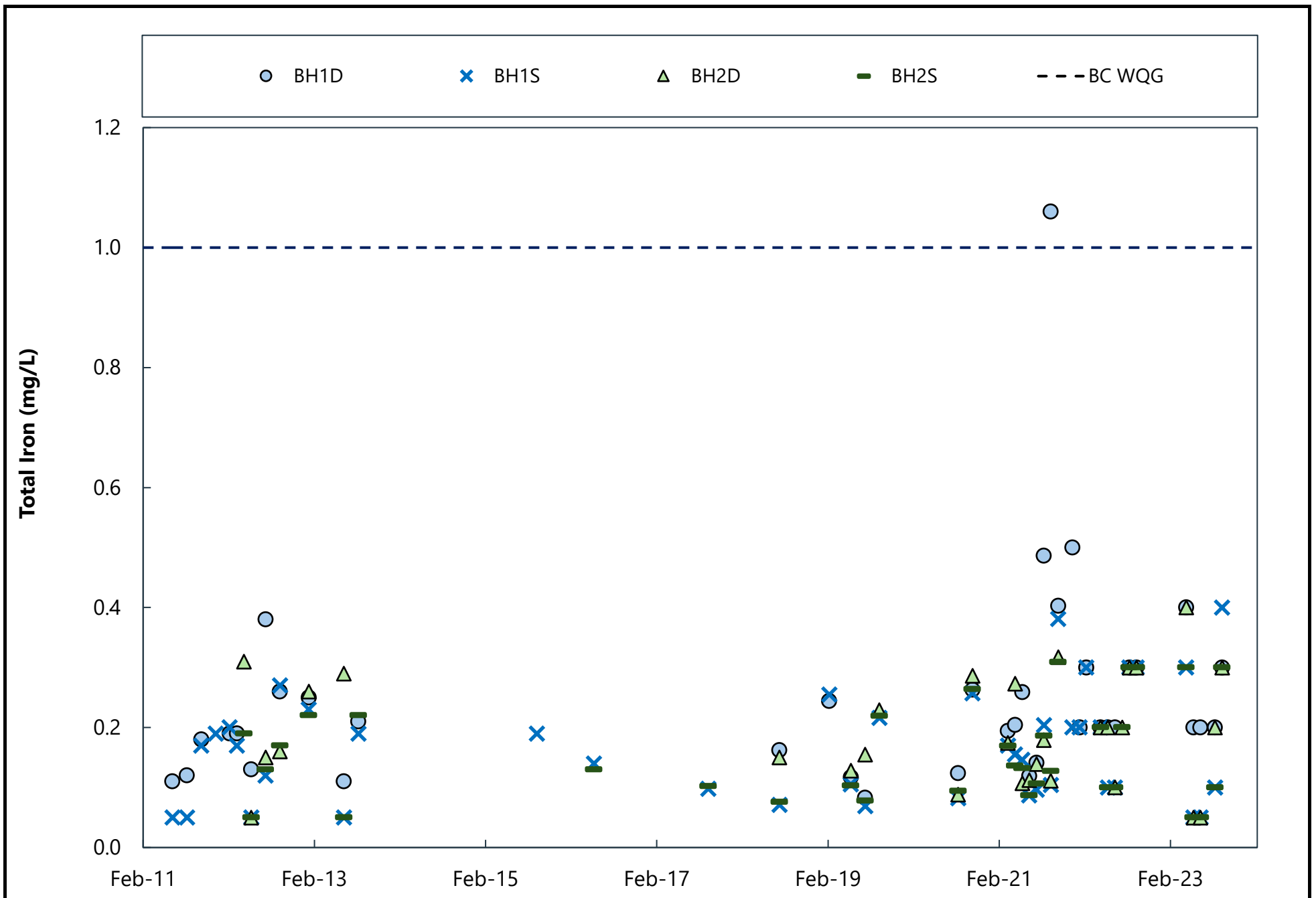
Drawn by: MP	Checked by:	November 2024
		Figure D-6



Notes:
Interim Provincial Water Quality Objective (iPWQO) for copper: 0.005 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River (Beaverhouse Lake)
Total Copper

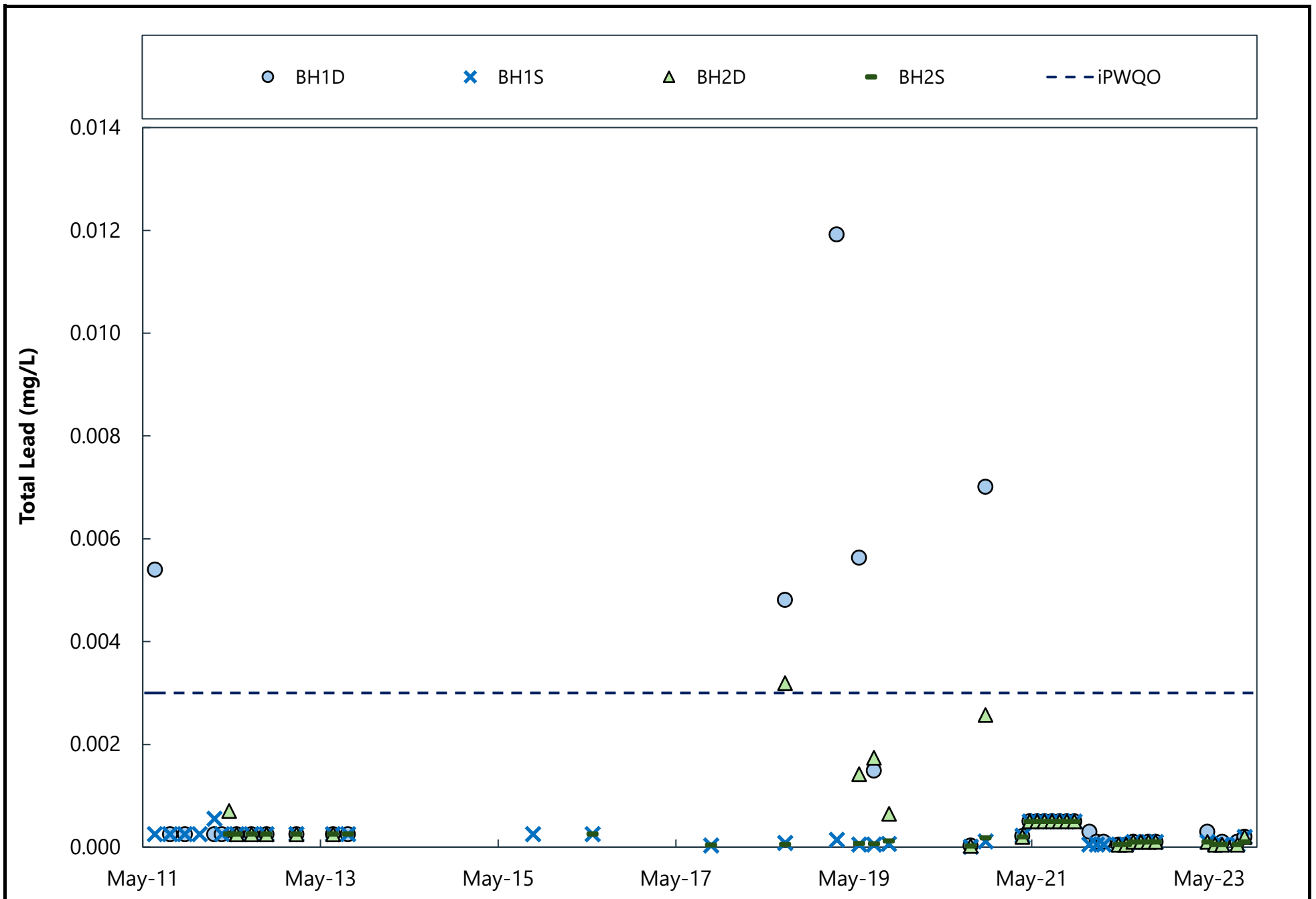
Drawn by: MP	Checked by:	November 2024
		Figure D-7



Notes:
British Columbia long-term exposure guidelines, freshwater (BC WQG) for iron: 1 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River (Beaverhouse Lake)
Total Iron

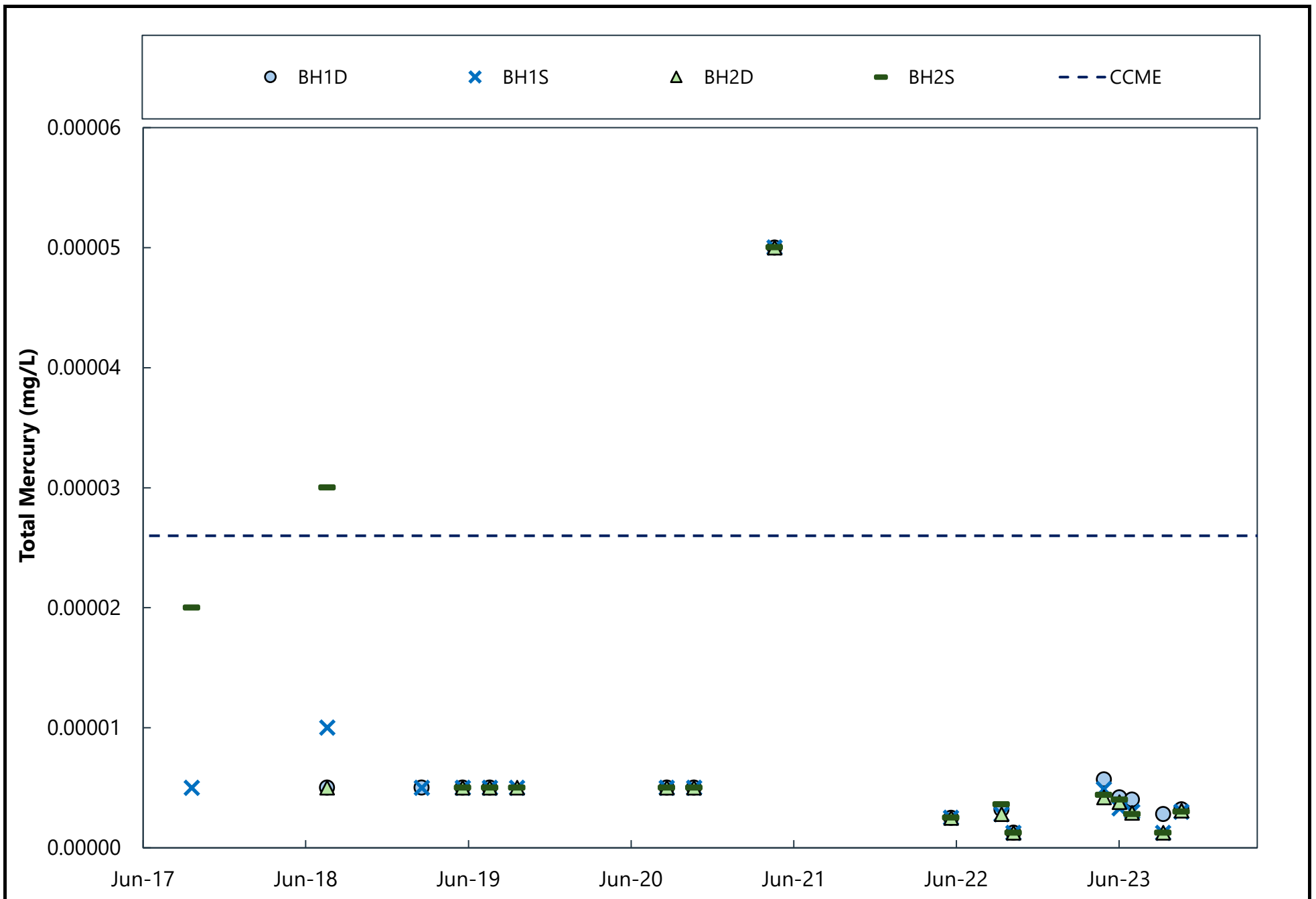
Drawn by: MP	Checked by:	November 2024
		Figure D-8



Notes:
Interim Provincial Water Quality Objective (iPWQO) for lead: 0.0003 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River (Beaverhouse Lake)
Total Lead

Drawn by: MP	Checked by:	November 2024
		Figure D-9



Notes:

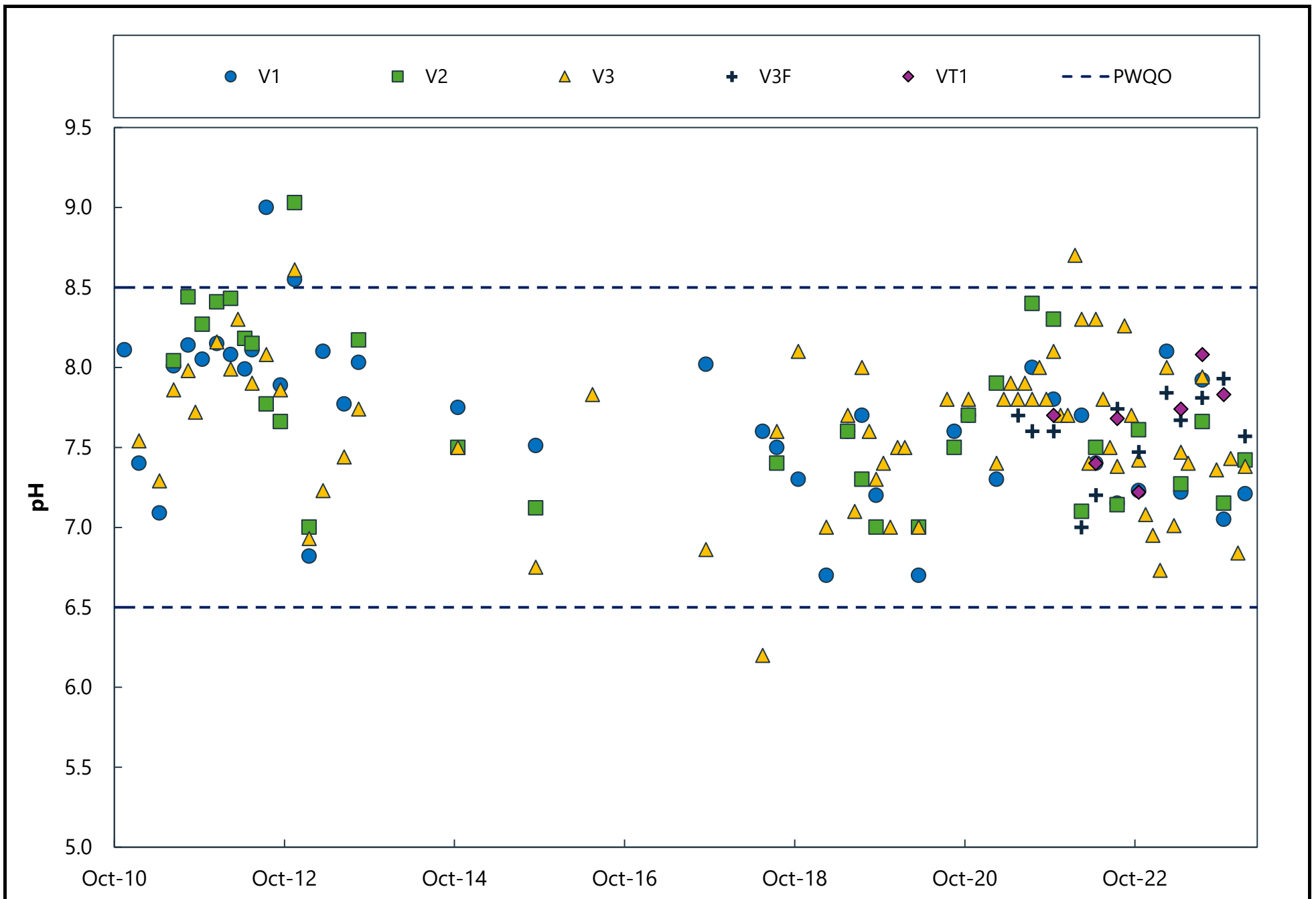
Canadian Council of Ministers of the Environment (CCME) water quality guideline for the protection of aquatic life (long-term exposure) for mercury: 0.000026 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Due to high MDL (0.0001 mg/L), results prior to 2017 were excluded.

Misema River (Beaverhouse Lake)
Total Mercury

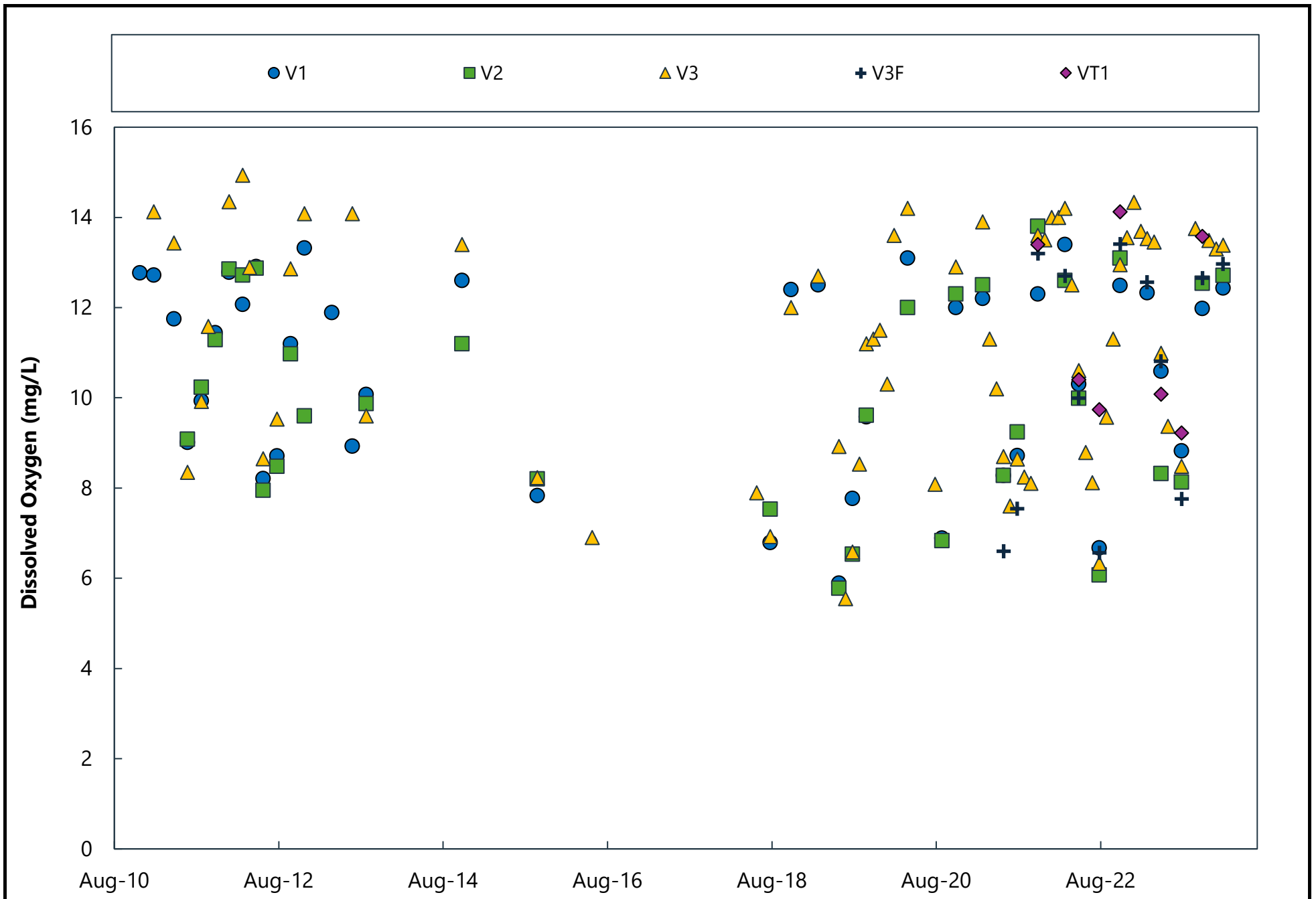
Drawn by: MP	Checked by:	November 2024
		Figure D-10



Notes:
Field pH shown
Provincial Water Quality Objective (PWQO) for pH: 6.5 - 8.5

Victoria Creek
pH

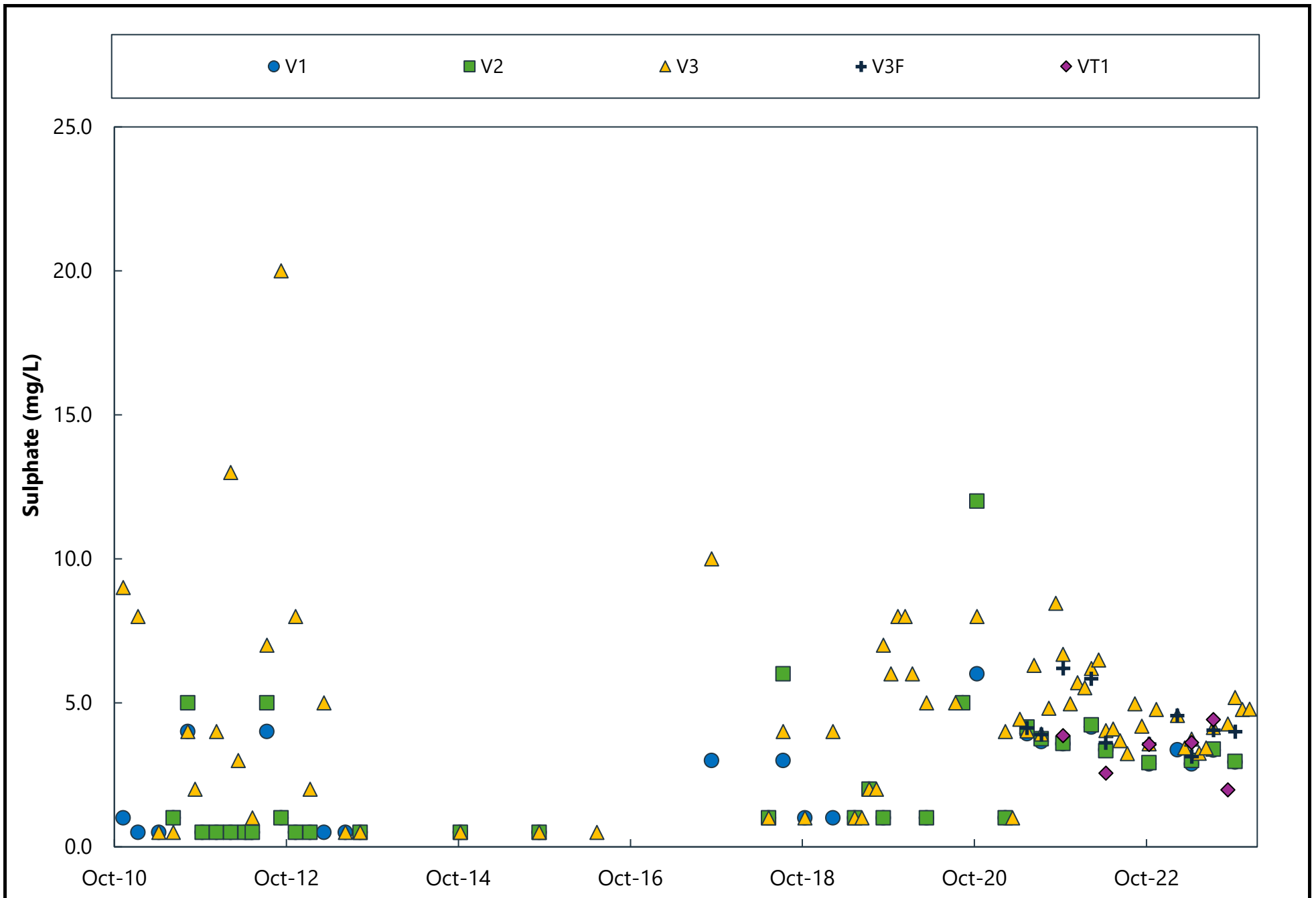
Drawn by: MP	Checked by:	November 2024
		Figure D-11



Notes:
Field dissolved oxygen shown

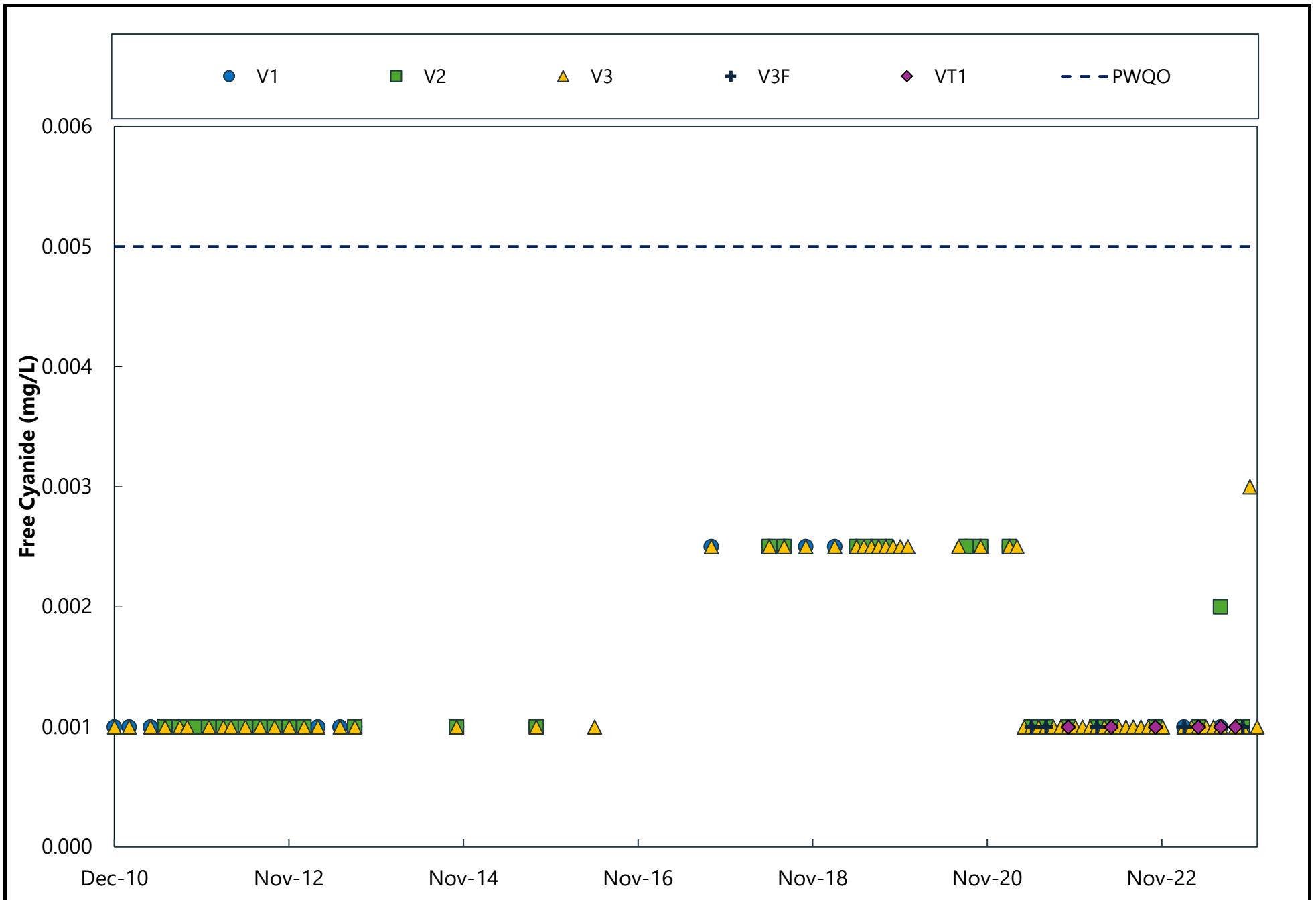
Victoria Creek
Dissolved Oxygen

Drawn by: MP	Checked by:	November 2024
		Figure D-12



Victoria Creek
Sulphate

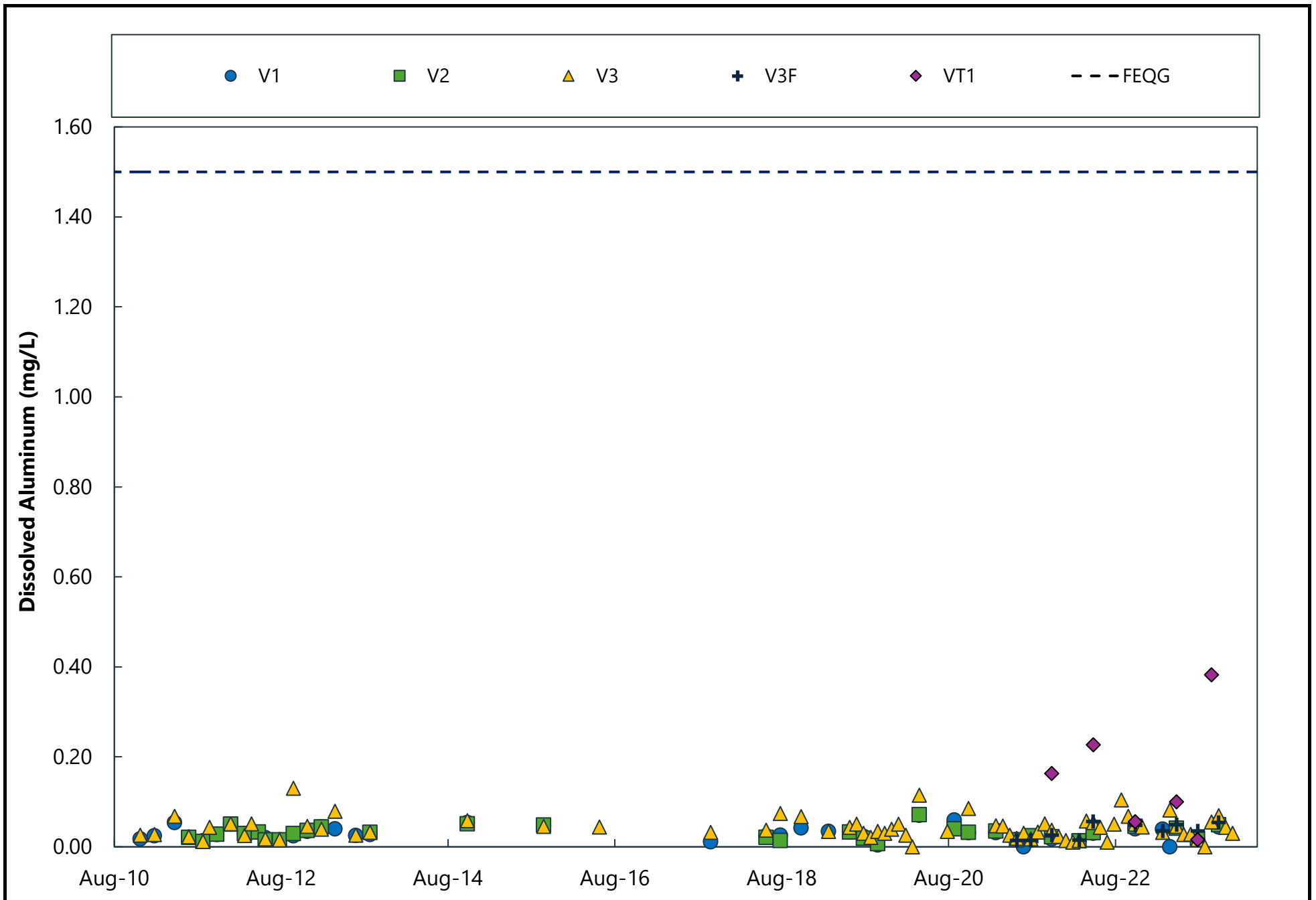
Drawn by: MP	Checked by:	November 2024
		Figure D-13



Notes:
Provincial Water Quality Objective (PWQO) for free cyanide: 0.005 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Victoria Creek
Free Cyanide

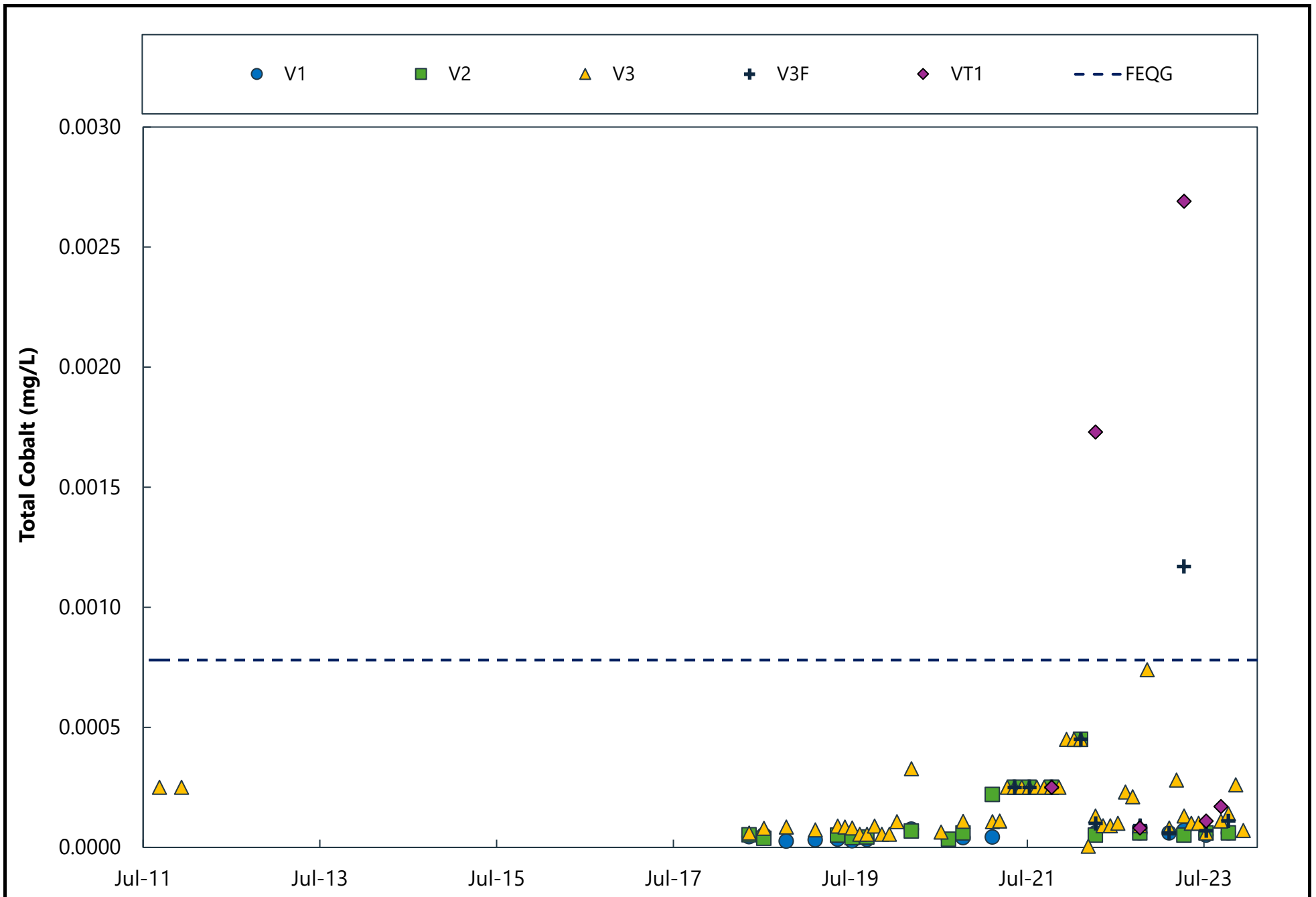
Drawn by: MP	Checked by:	November 2024
		Figure D-14



Notes:
Federal Environmental Quality Guideline (FEQG) for aluminum: 1.5 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Victoria Creek
Dissolved Aluminum

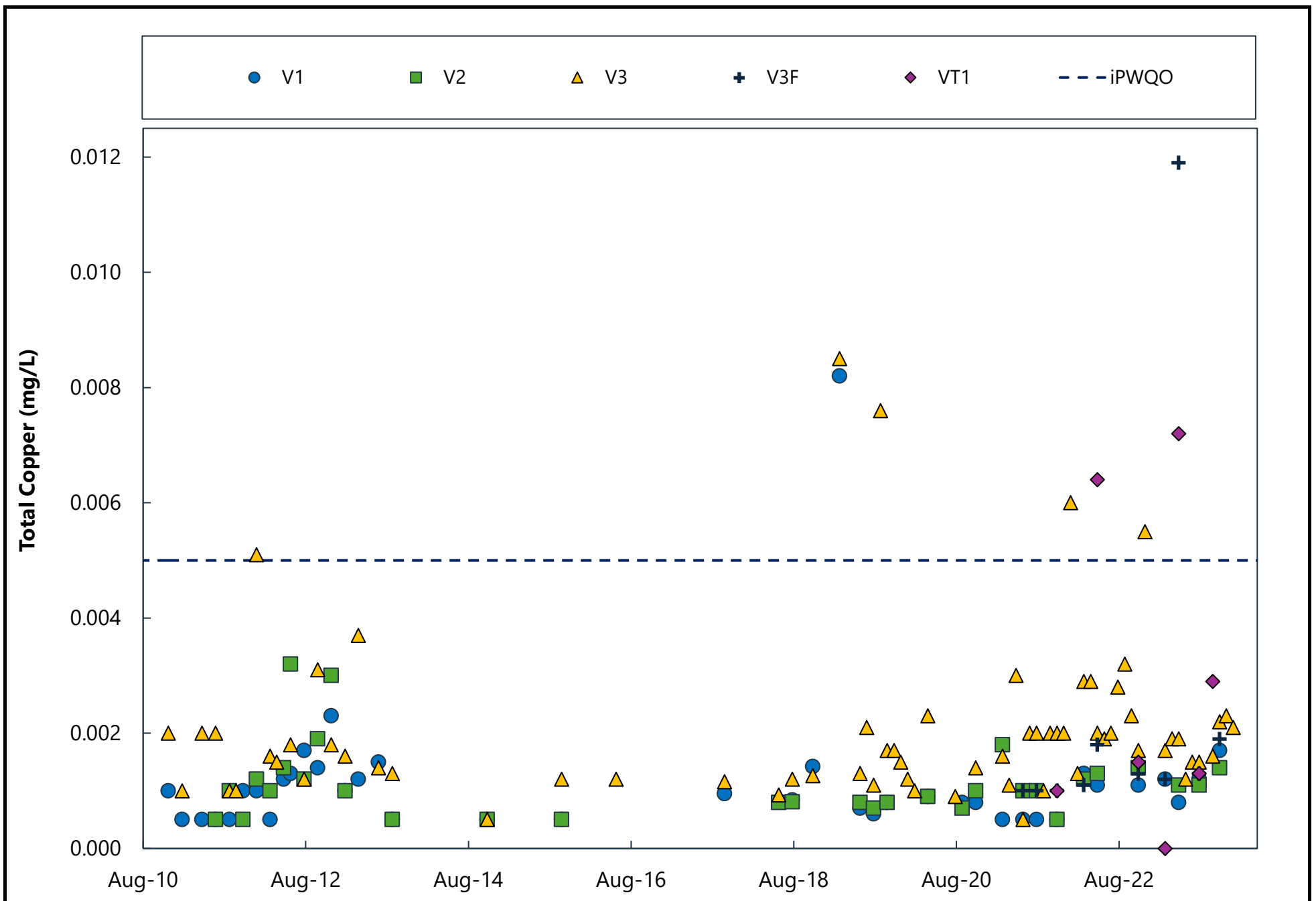
Drawn by: MP	Checked by:	November 2024
		Figure D-15



Notes:
Federal Environmental Quality Guideline (FEQG) for cobalt: 0.00078 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Victoria Creek
Total Cobalt

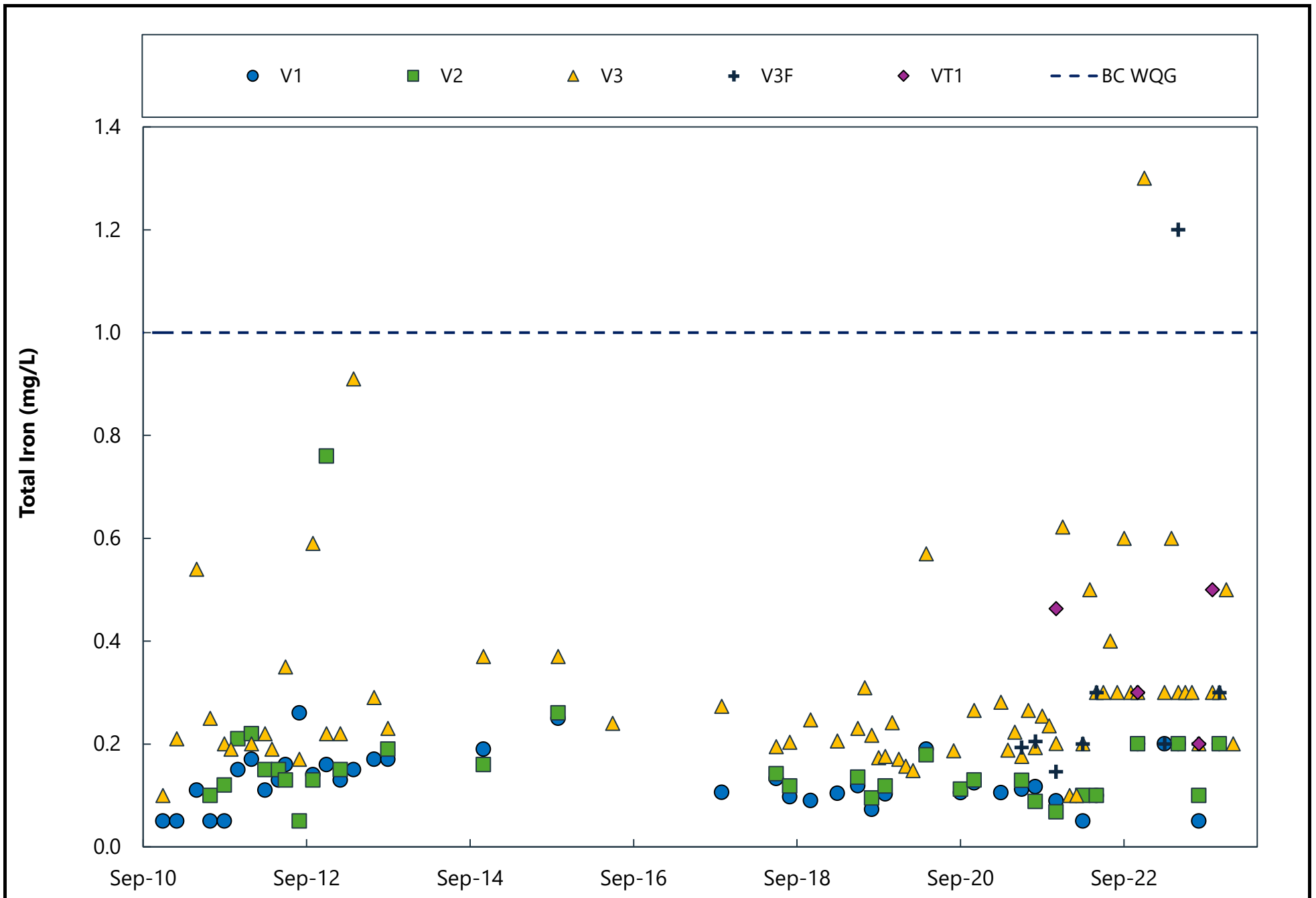
Drawn by: MP	Checked by:	November 2024
		Figure D-16



Notes:
Interim Provincial Water Quality Objective (iPWQO) for copper: 0.005 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Victoria Creek
Total Copper

Drawn by: MP	Checked by:	November 2024
		Figure D-17



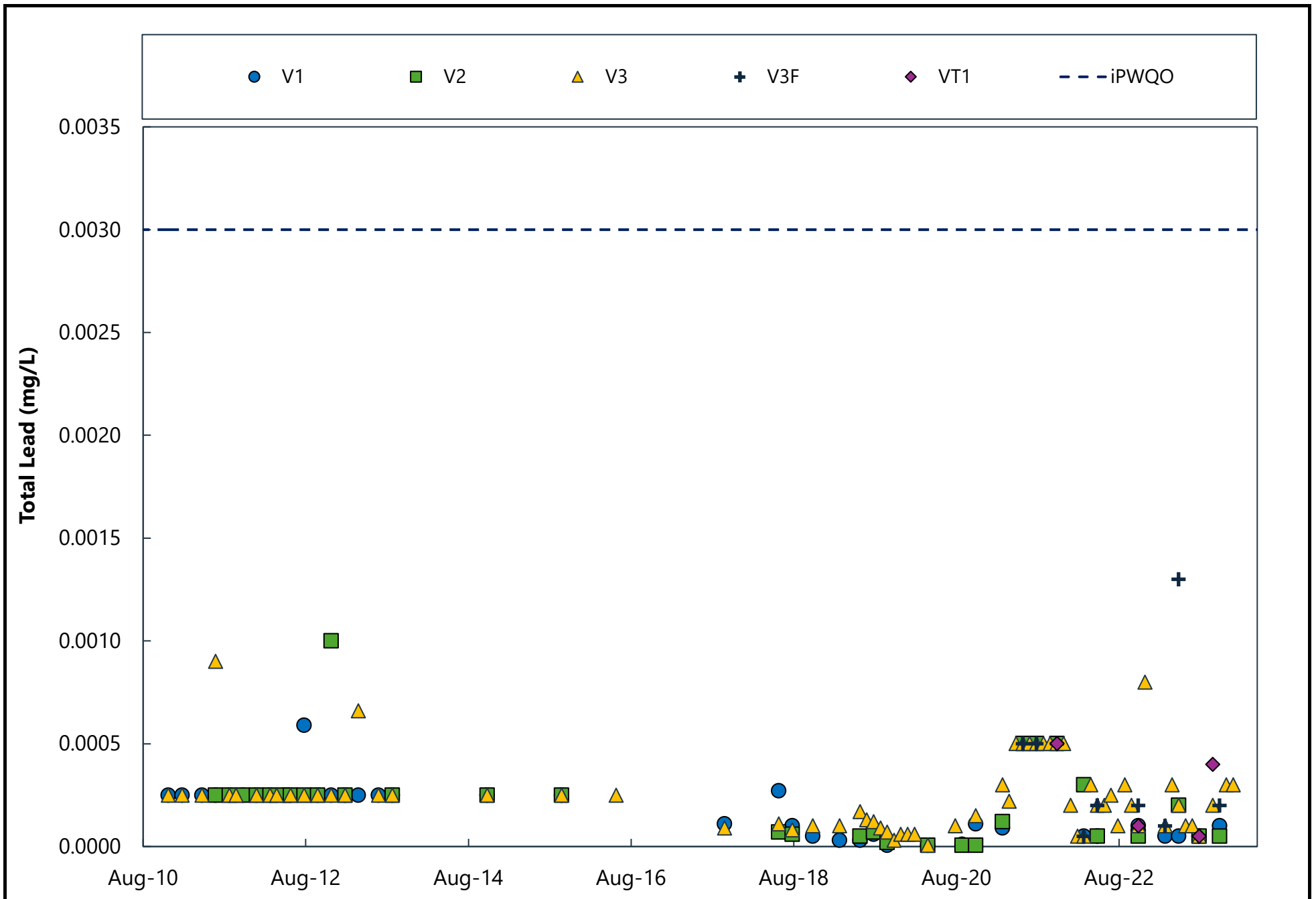
Notes:

British Columbia long-term exposure guidelines, freshwater (BC WQG) for iron: 1 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Victoria Creek
Total Iron

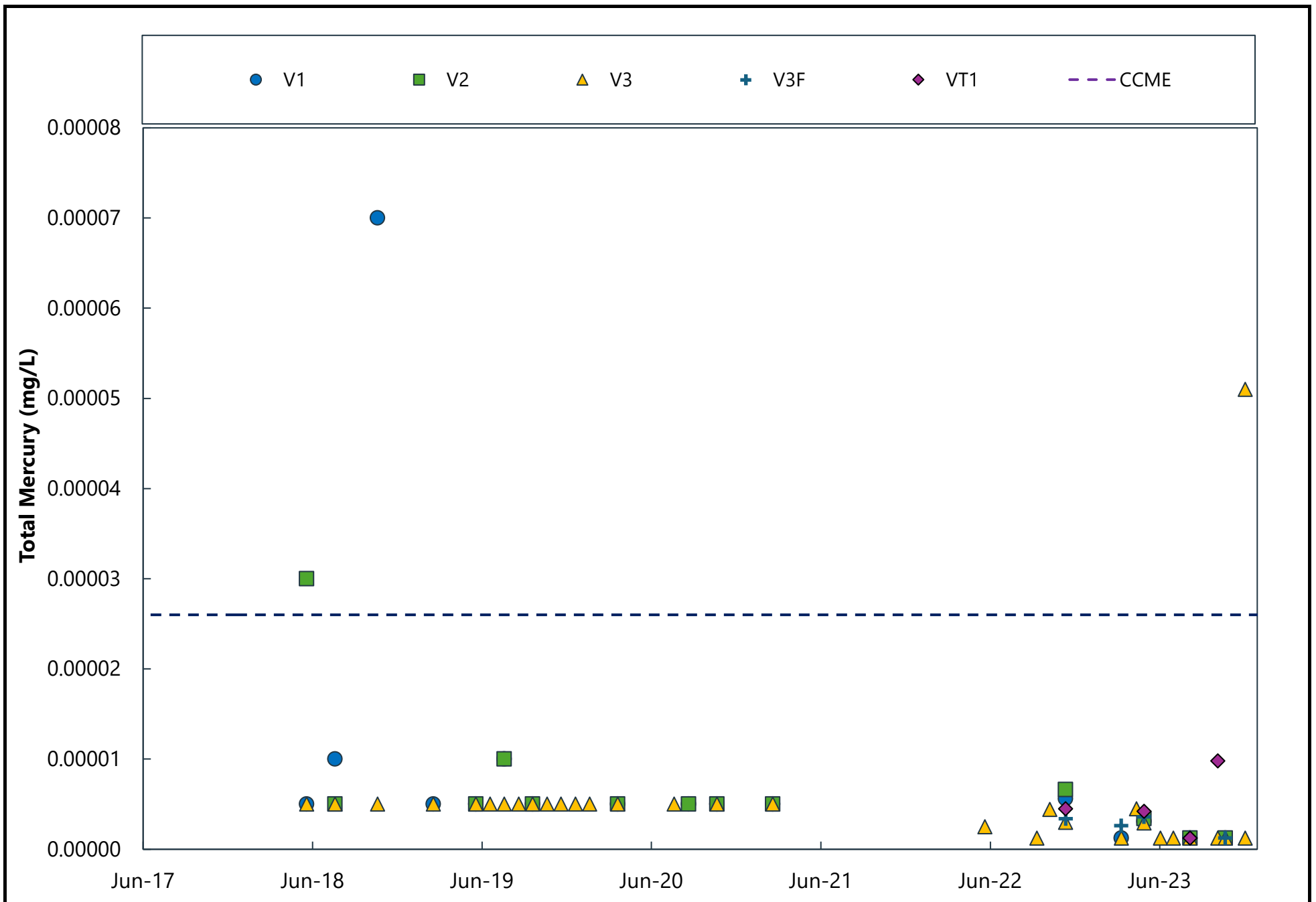
Drawn by: MP	Checked by:	November 2024
		Figure D-18



Notes:
Interim Provincial Water Quality Objective (iPWQO) for lead: 0.0003 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Victoria Creek
Total Lead

Drawn by: MP	Checked by:	November 2024
		Figure D-19



Notes:

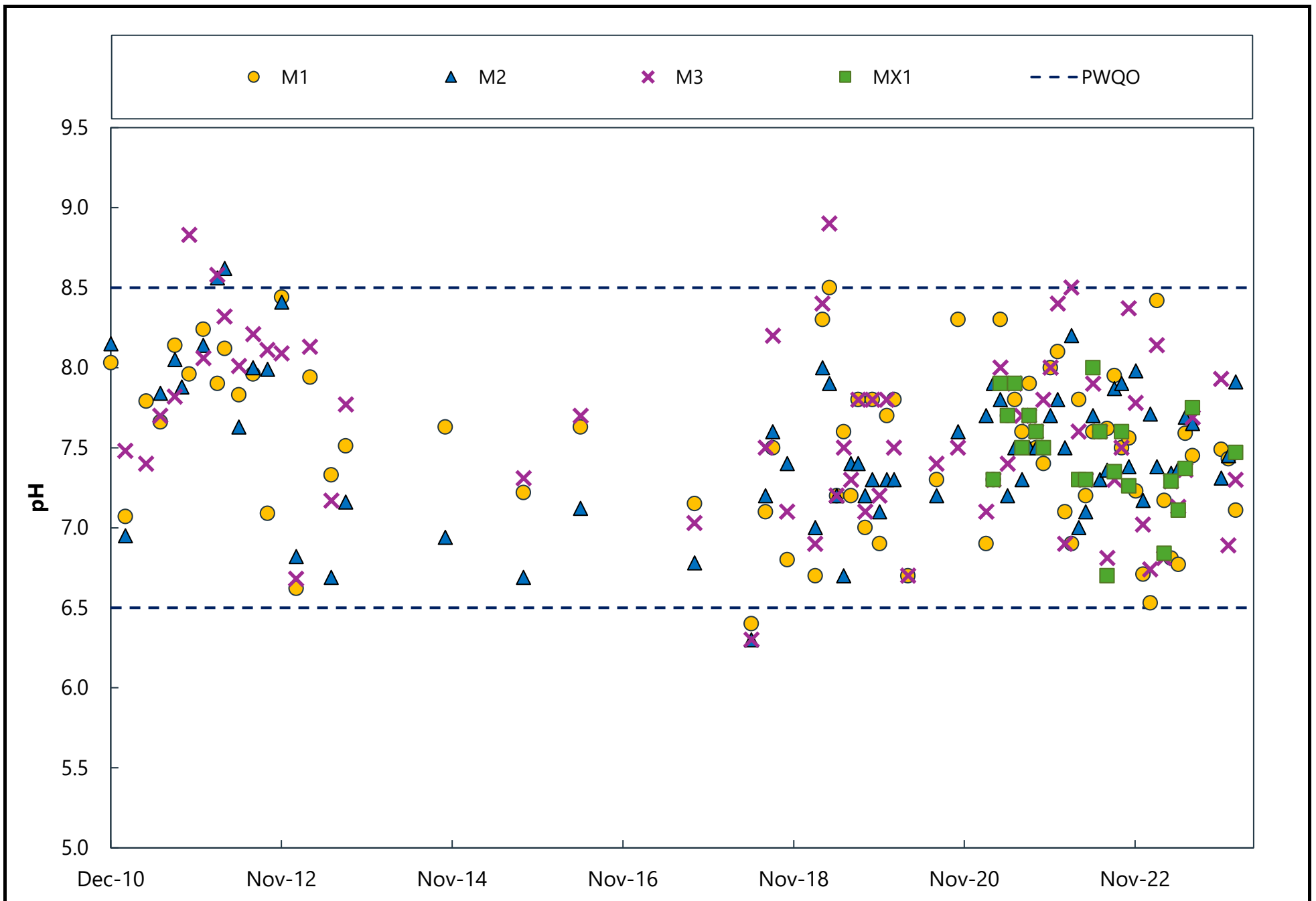
Canadian Council of Ministers of the Environment (CCME) water quality guideline for the protection of aquatic life (long-term exposure) for mercury: 0.000026 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Results prior to 2017 were excluded due to high MDL (0.0001 mg/L).

Victoria Creek
Total Mercury

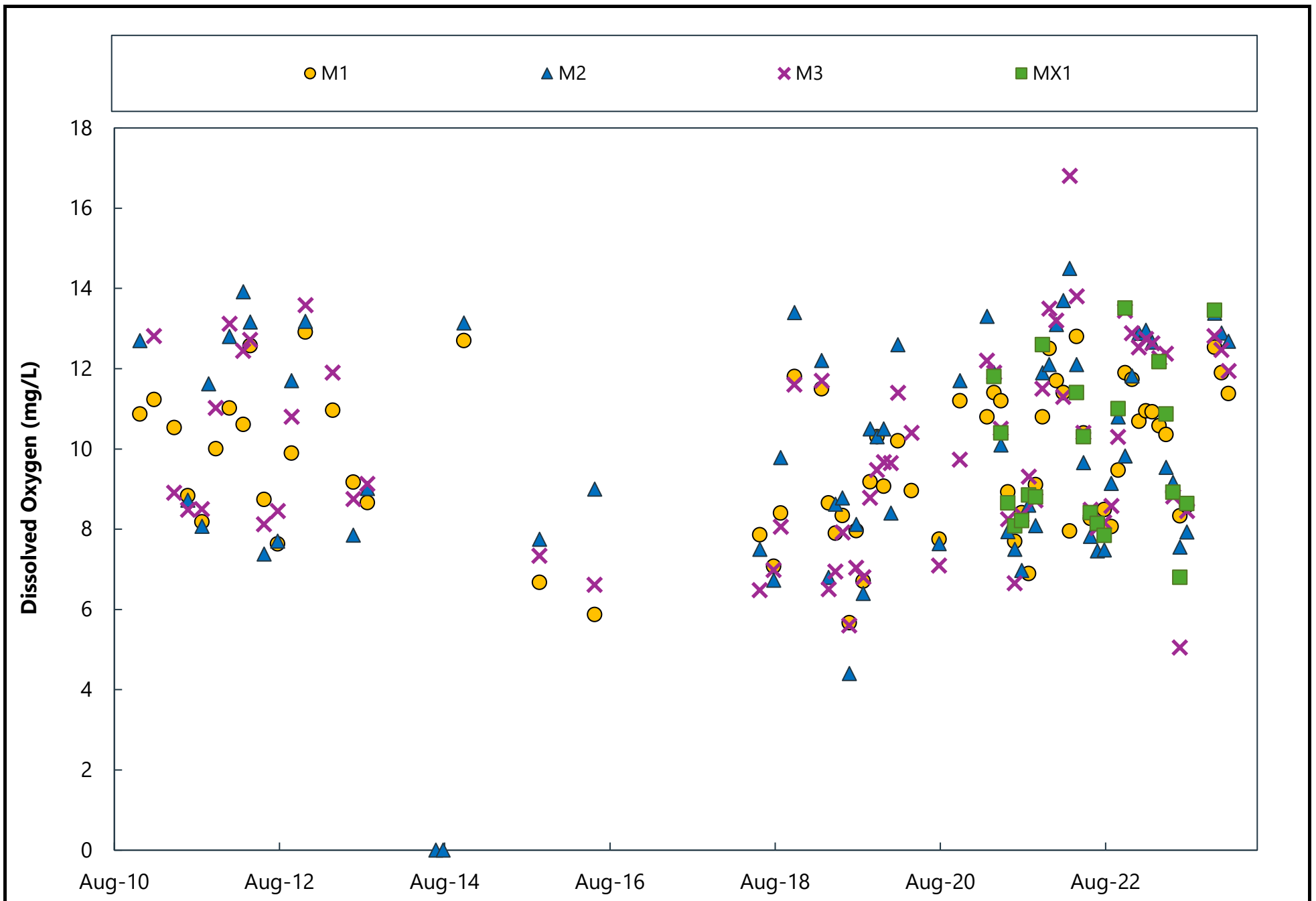
Drawn by: MP	Checked by:	November 2024
		Figure D-20



Notes:
Field pH shown
Provincial Water Quality Objective (PWQO) for pH: 6.5 - 8.5

Misema River
pH

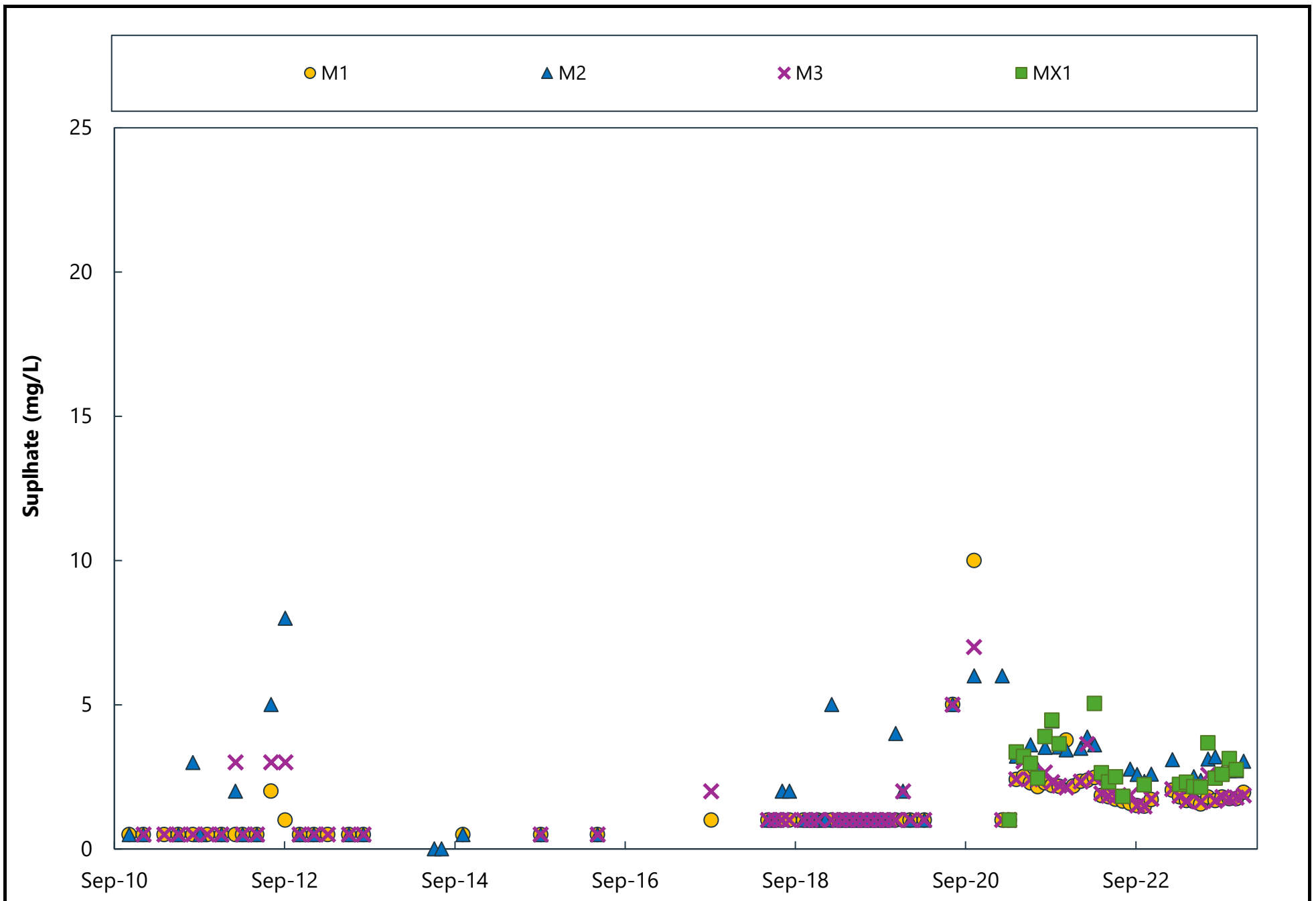
Drawn by: MP	Checked by:	November 2024
		Figure D-21



Notes:
Field dissolved oxygen shown

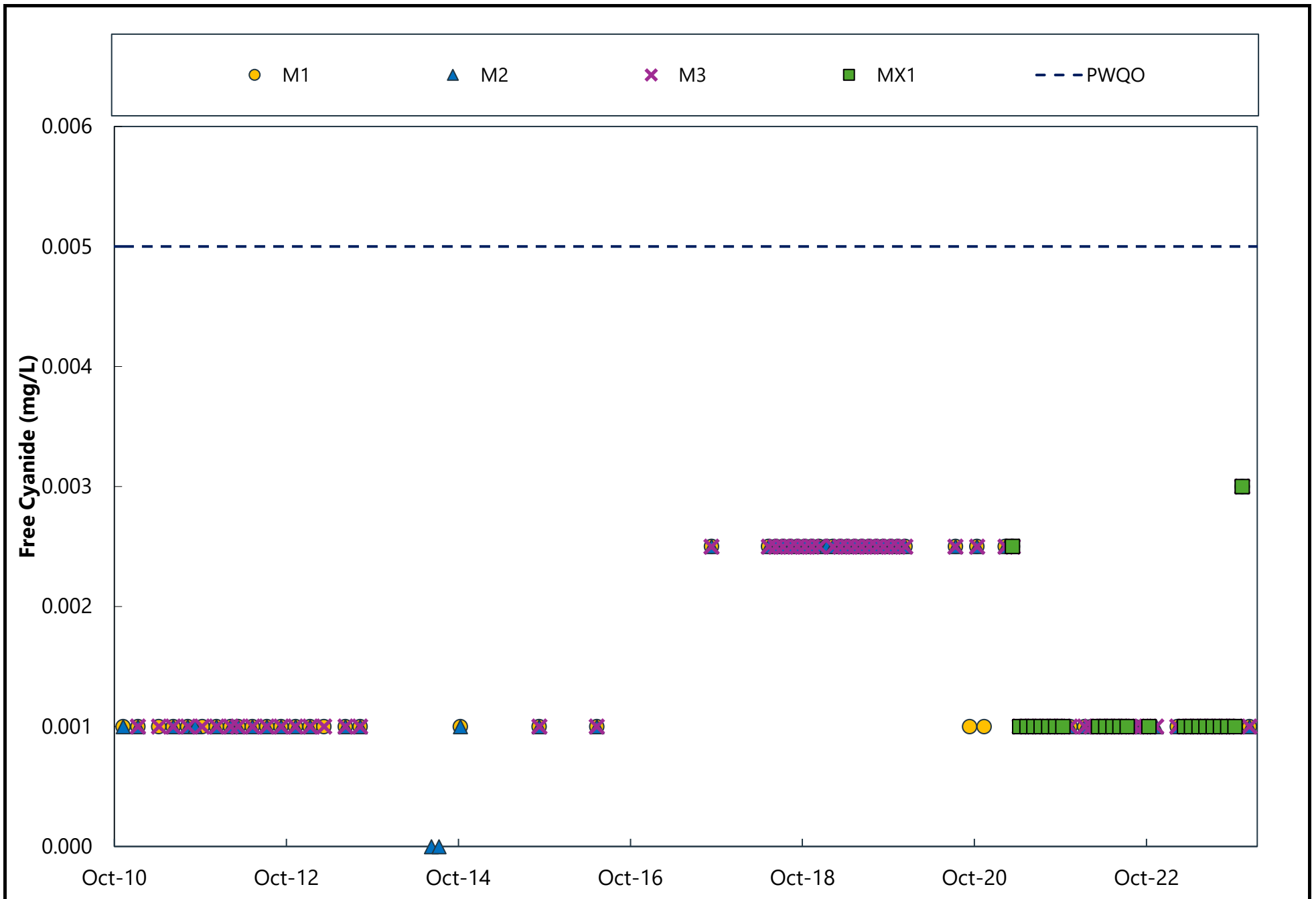
Misema River
Dissolved Oxygen

Drawn by: MP	Checked by:	November 2024
		Figure D-22



Misema River
Sulphate

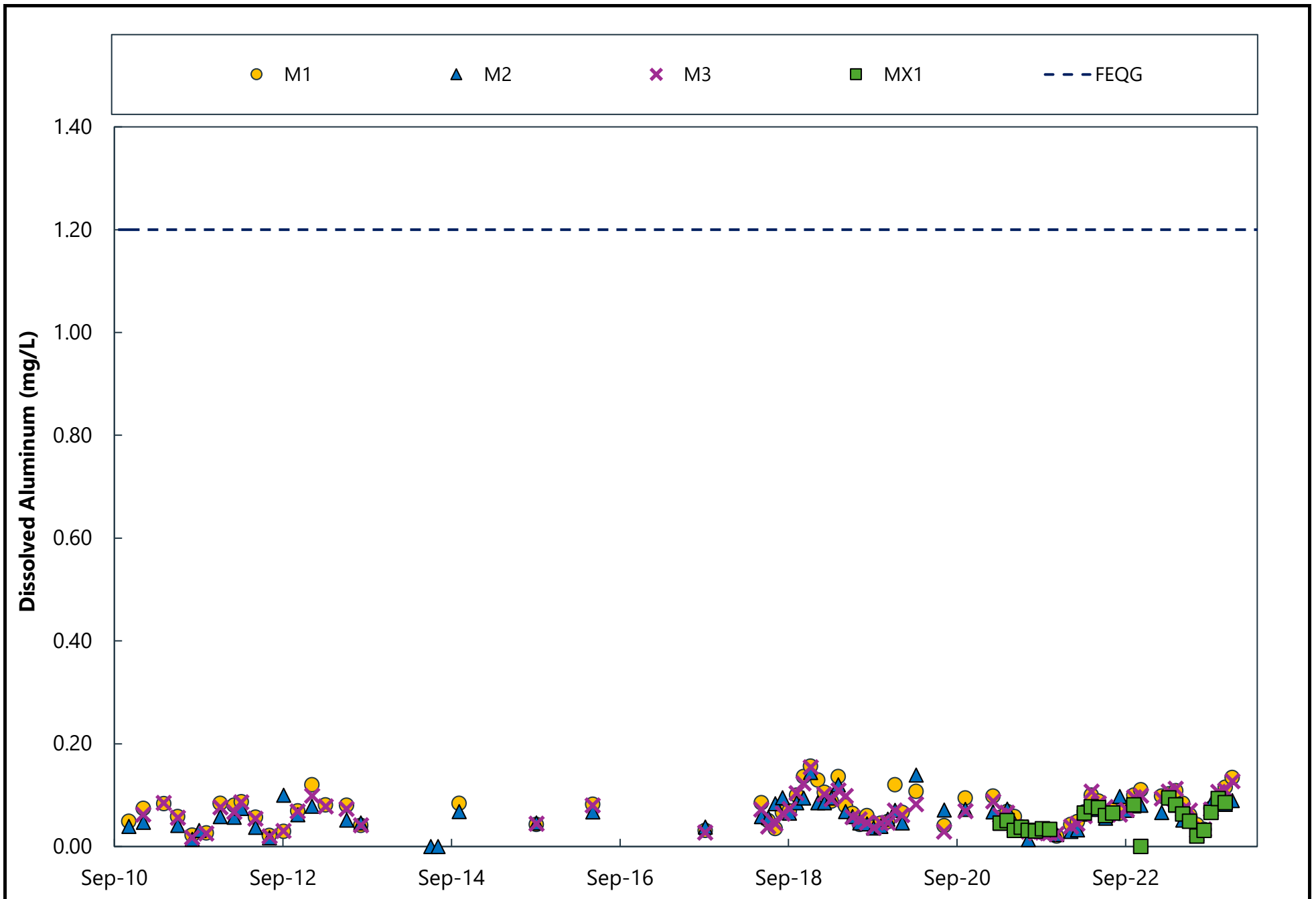
Drawn by: MP	Checked by:	November 2024
		Figure D-23



Notes:
Provincial Water Quality Objective (PWQO) for free cyanide: 0.005 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River
Free Cyanide

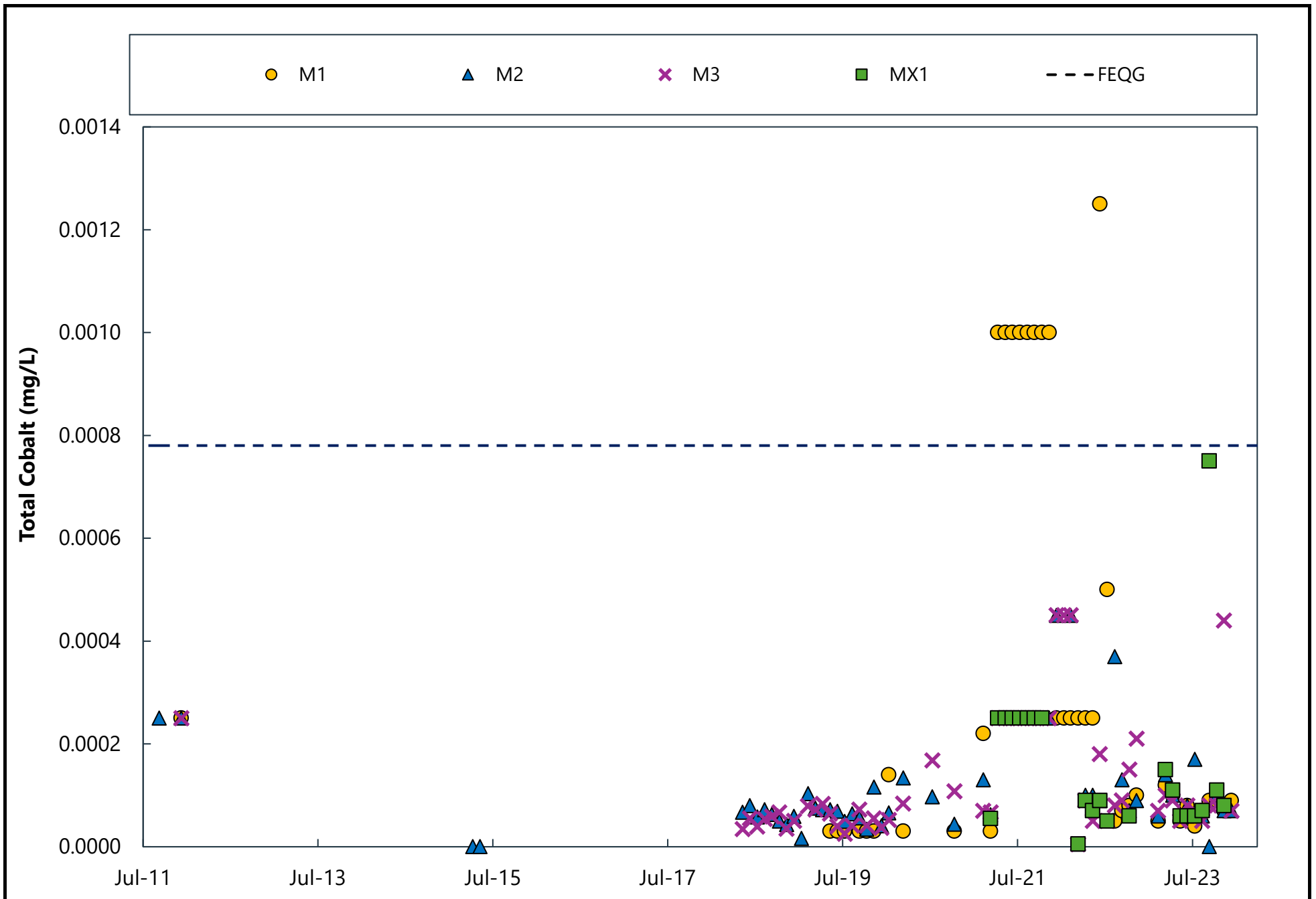
Drawn by: MP	Checked by:	November 2024
		Figure D-24



Notes:
Federal Environmental Quality Guideline (FEQG) for aluminum: 1.2 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River
Dissolved Aluminum

Drawn by: MP	Checked by:	November 2024
		Figure D-25



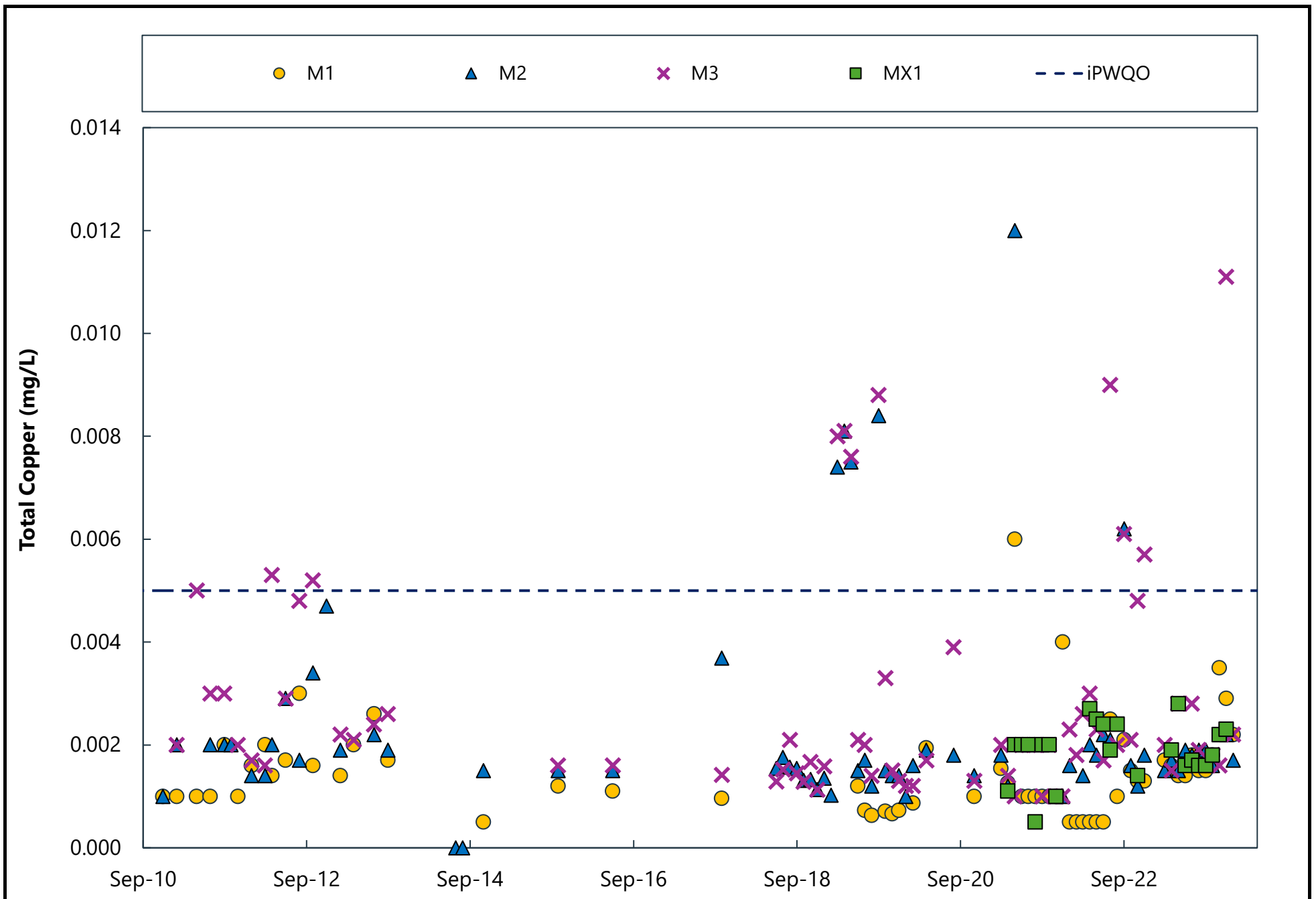
Notes:

Federal Environmental Quality Guideline (FEQG) for cobalt: 0.00078 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River
Total Cobalt

Drawn by: MP	Checked by:	November 2024
		Figure D-26



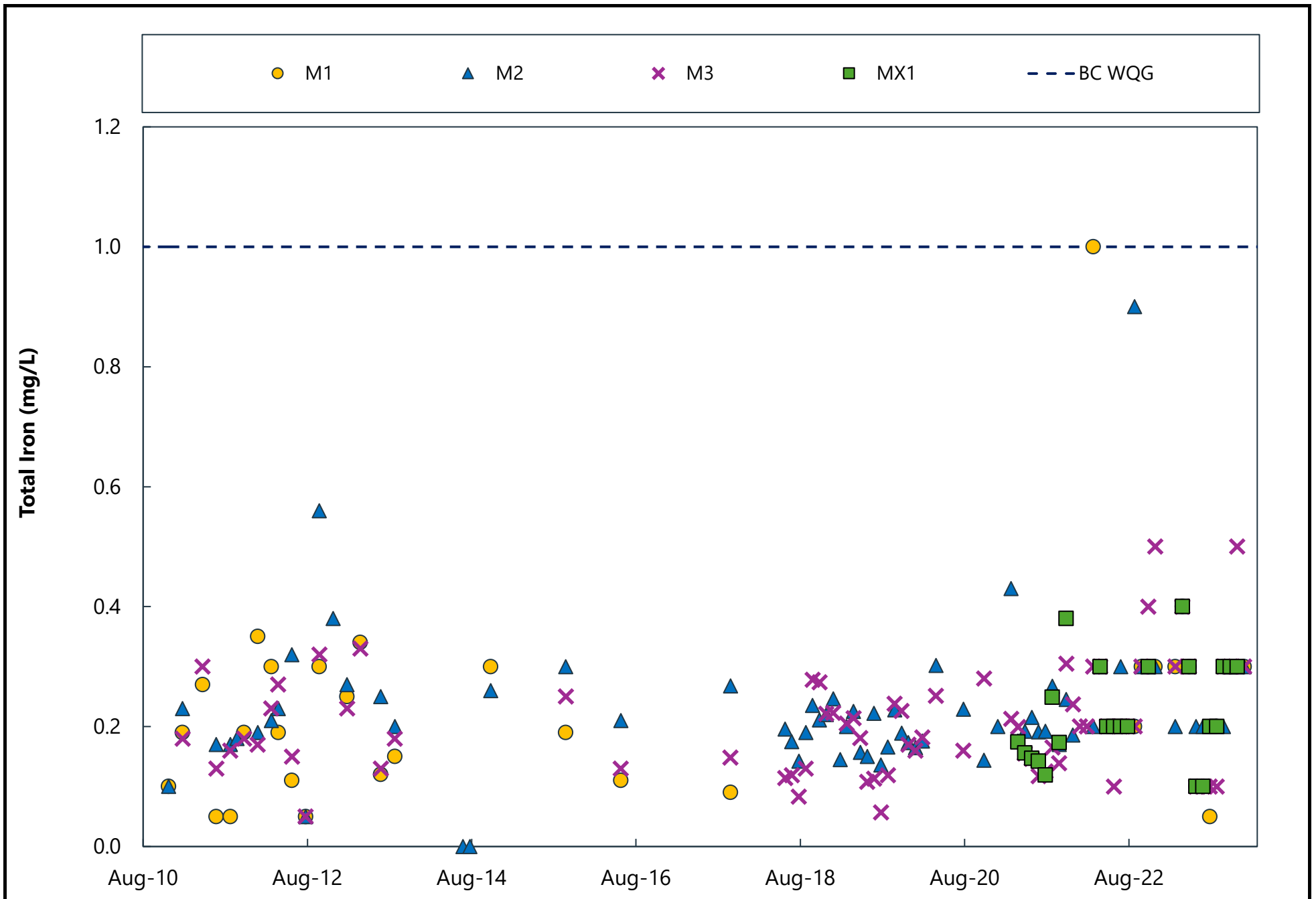
Notes:

Interim Provincial Water Quality Objective (iPWQO) for copper: 0.005 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River
Total Copper

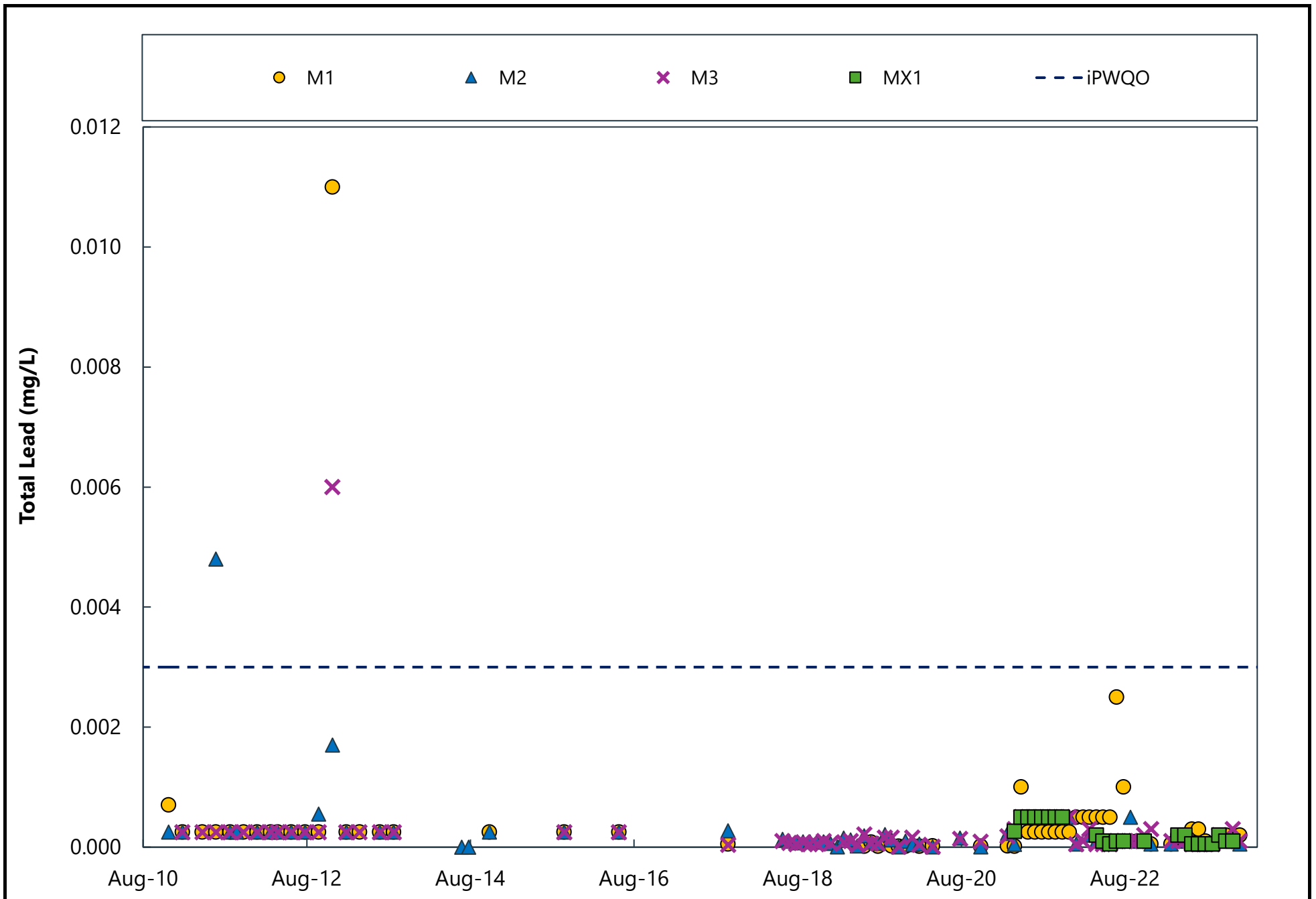
Drawn by: MP	Checked by:	November 2024
		Figure D-27



Notes:
British Columbia long-term exposure guidelines, freshwater (BC WQG) for iron: 1 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River
Total Iron

Drawn by: MP	Checked by:	November 2024
		Figure D-28



Notes:
Interim Provincial Water Quality Objective (iPWQO) for lead: 0.0003 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Misema River
Total Lead

Drawn by: MP	Checked by:	November 2024
		Figure D-29

Notes:

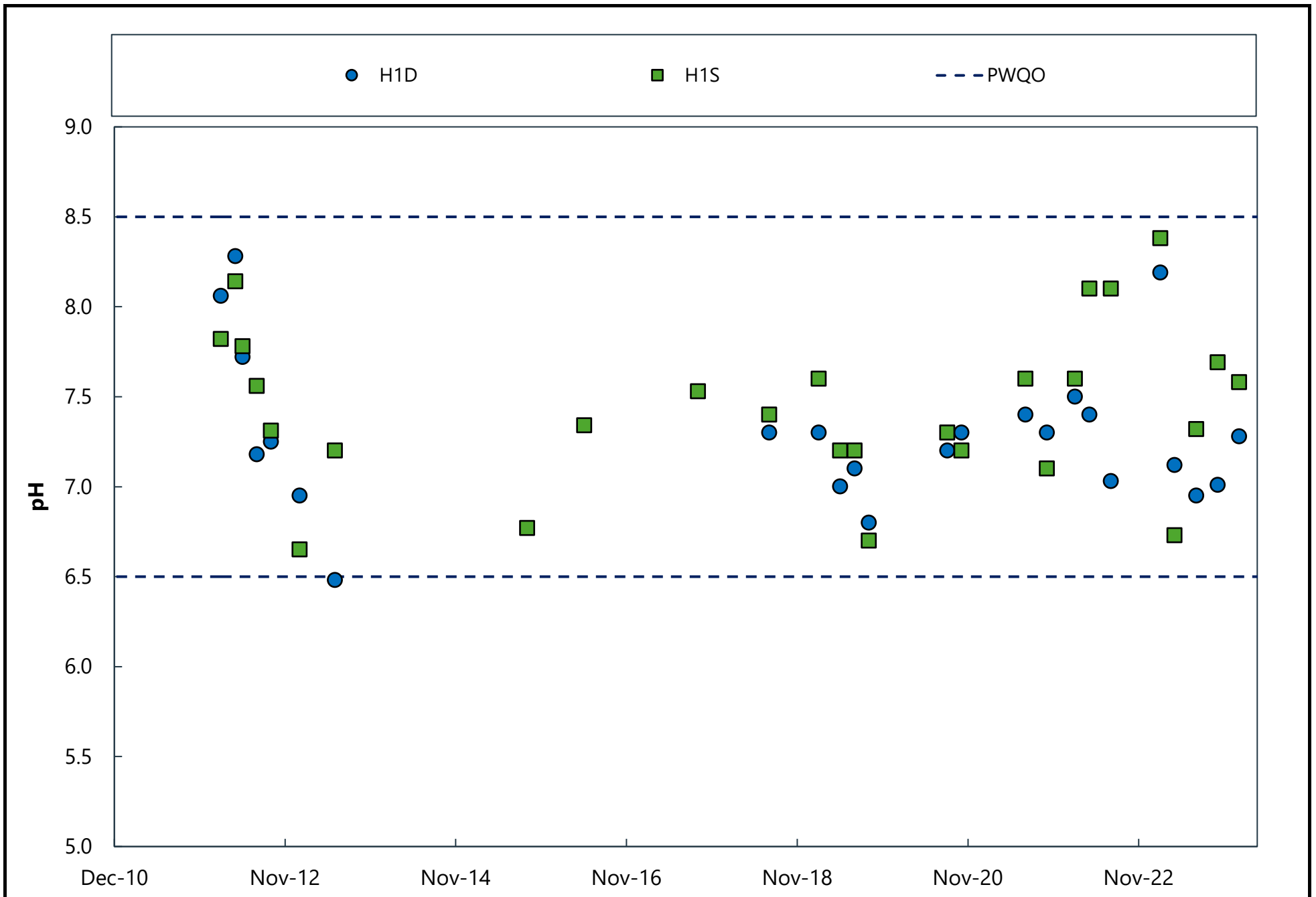
Canadian Council of Ministers of the Environment (CCME) water quality guideline for the protection of aquatic life (long-term exposure) for mercury: 0.000026 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Results prior to 2017 were excluded due to high MDL (0.0001 mg/L).

Misema River
Total Mercury

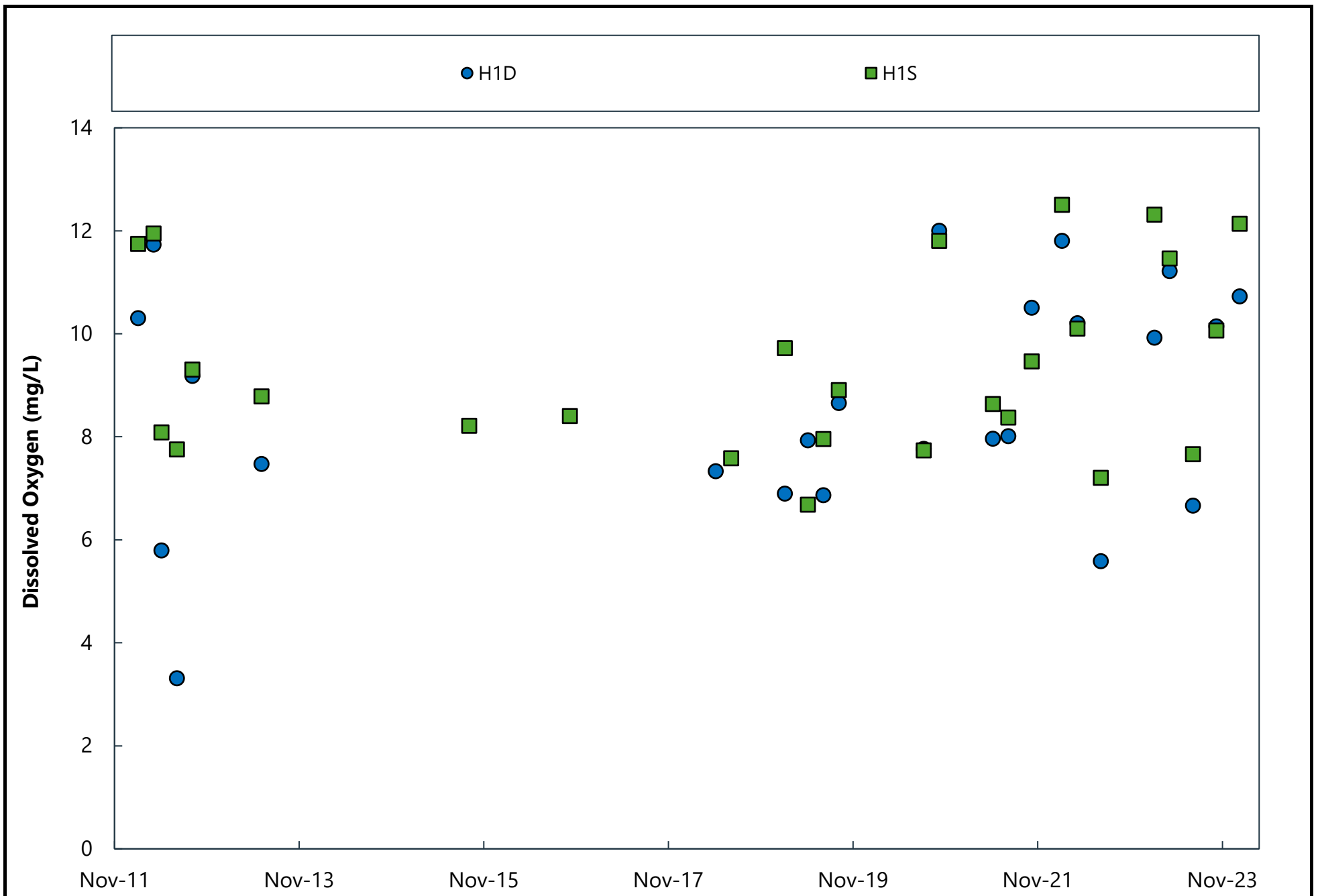
Drawn by: MP	Checked by:	November 2024
		Figure D-30



Notes:
Field pH shown
Provincial Water Quality Objective (PWQO) for pH: 6.5 - 8.5

Howard Lake
pH

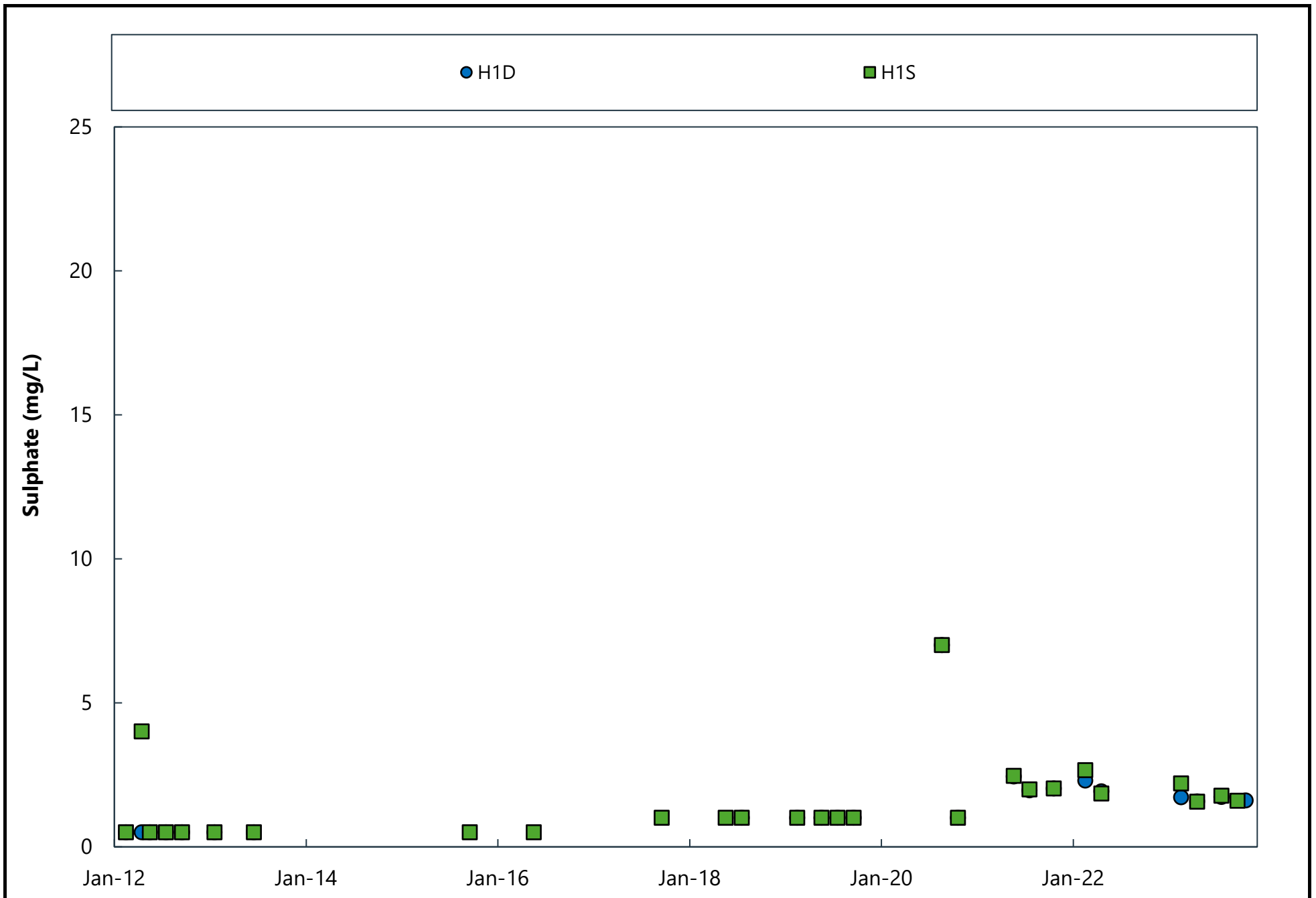
Drawn by: MP	Checked by:	November 2024
		Figure D-31



Notes:
Field dissolved oxygen shown

Howard Lake
Dissolved Oxygen

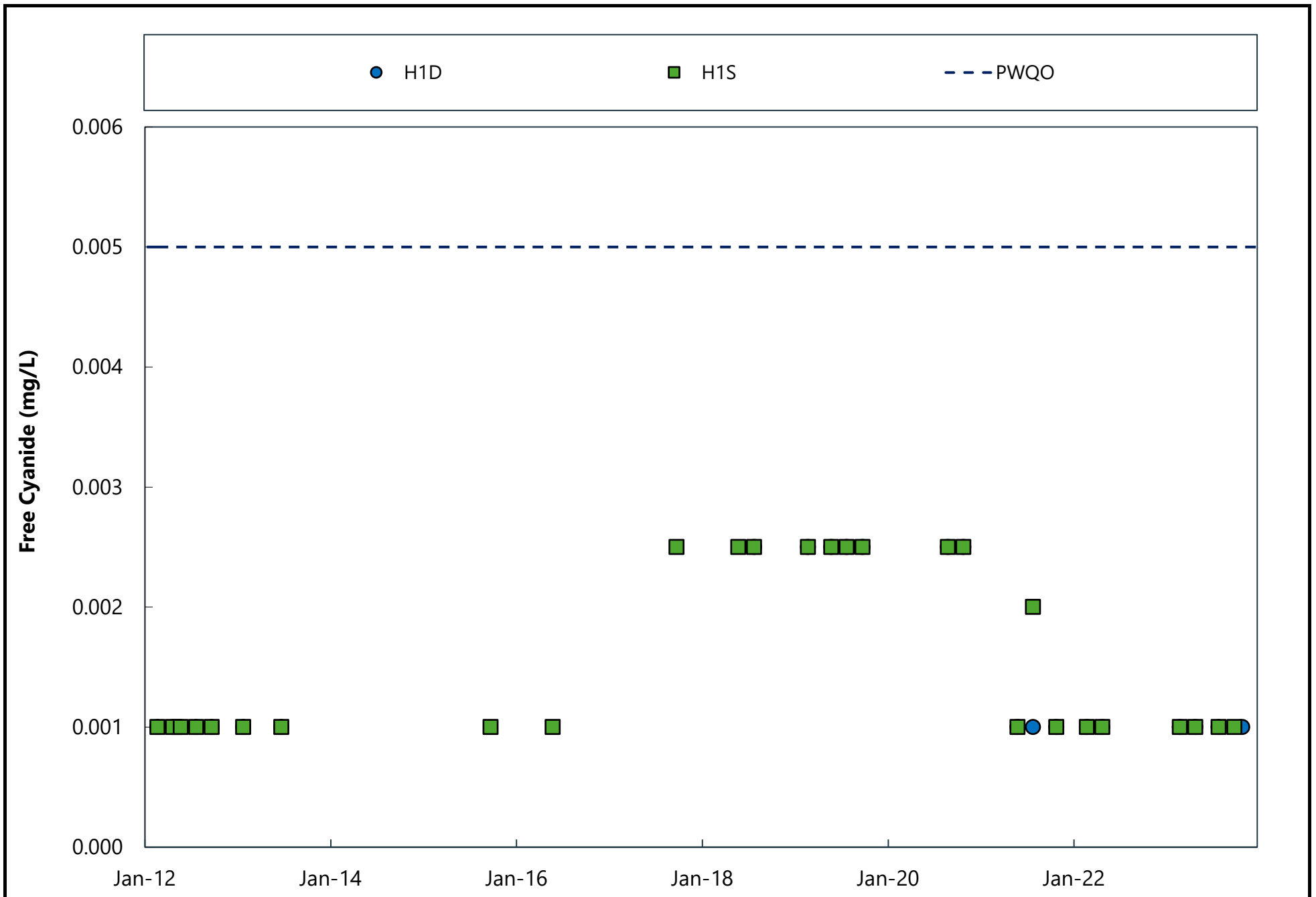
Drawn by: MP	Checked by:	November 2024
		Figure D-32



Notes:

Howard Lake
Sulphate

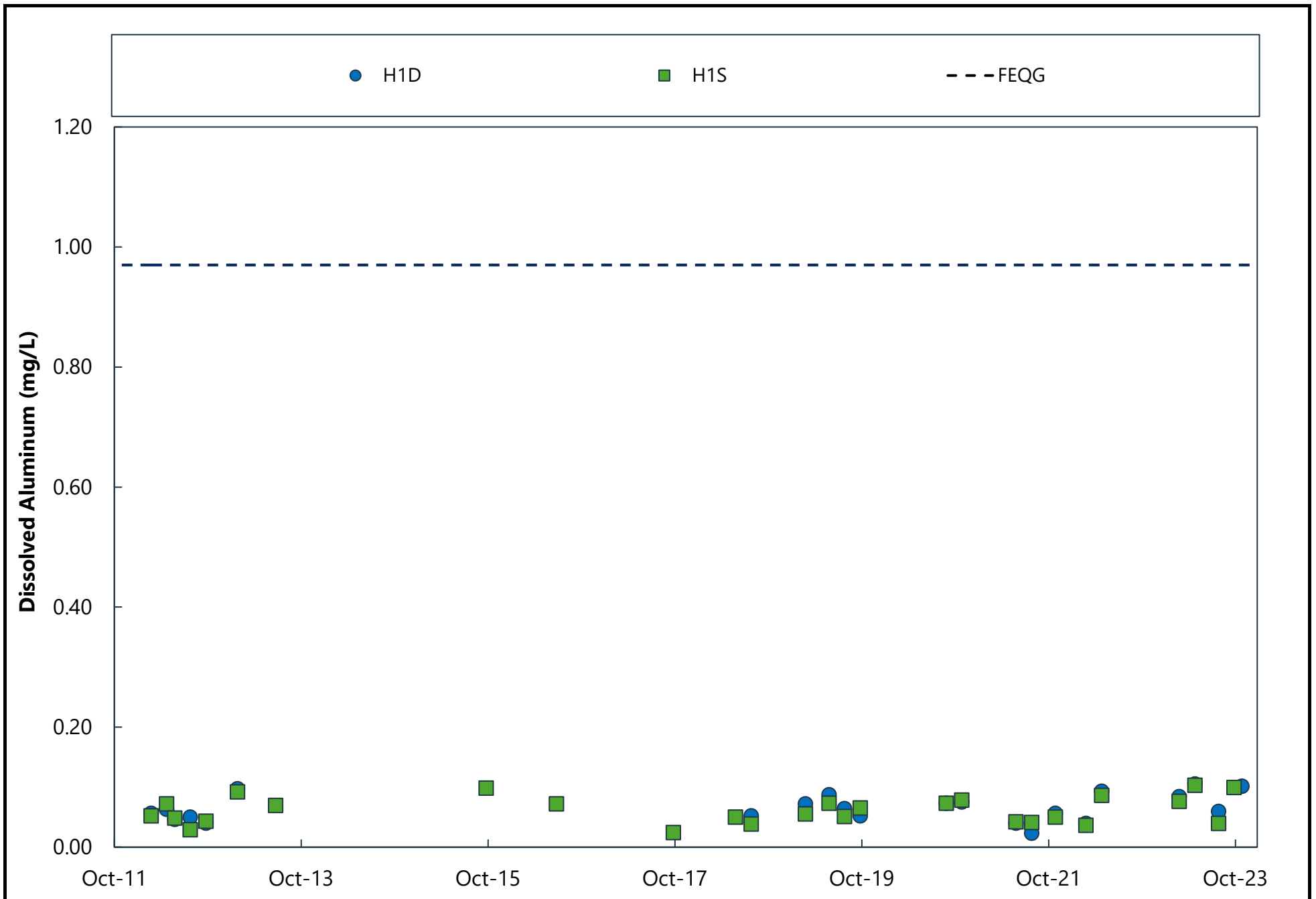
Drawn by: MP	Checked by:	November 2024
		Figure D-33



Notes:
Provincial Water Quality Objective (PWQO) for free cyanide: 0.005 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Howard Lake
Free Cyanide

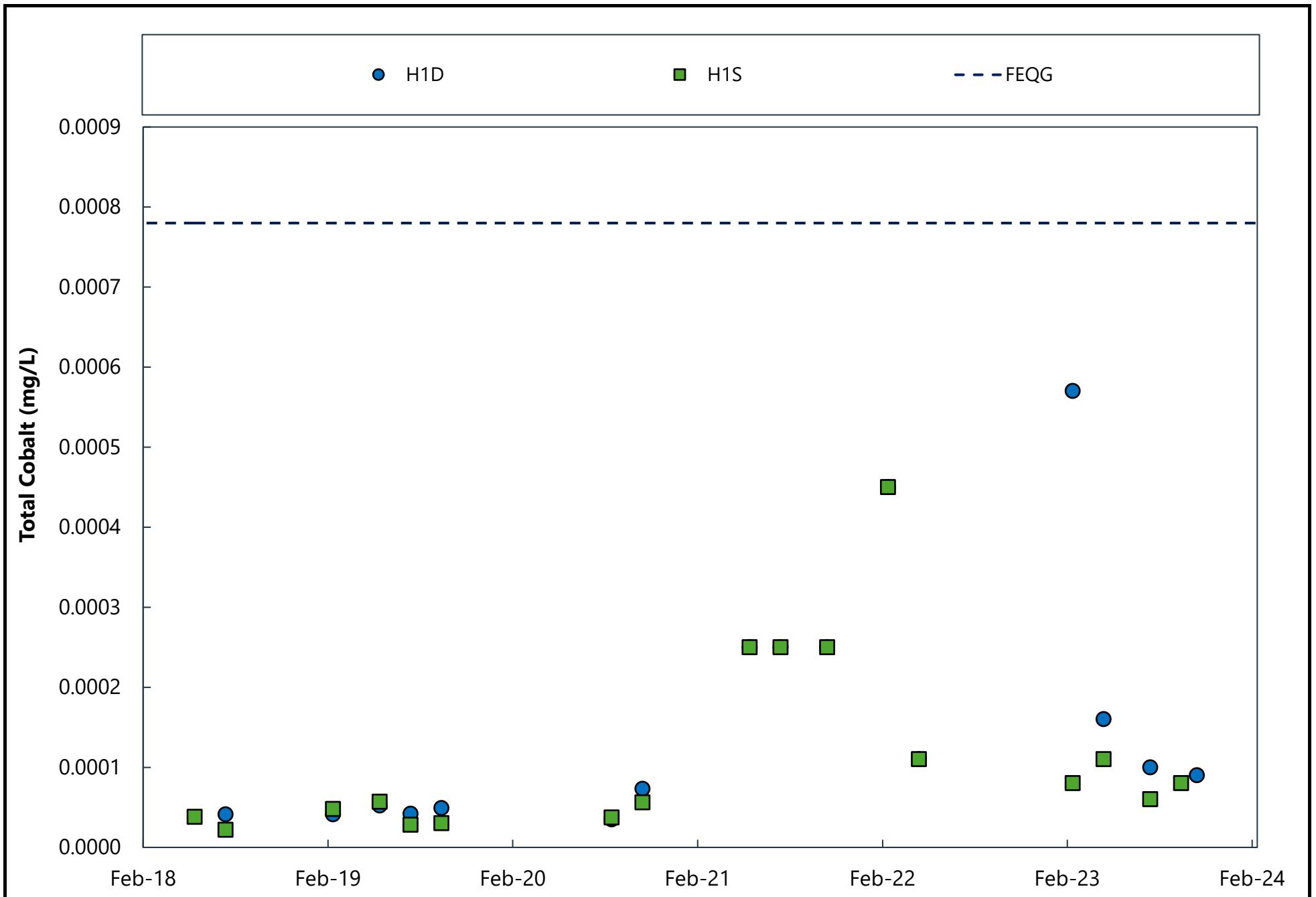
Drawn by: MP	Checked by:	November 2024
		Figure D-34



Notes:
Federal Environmental Quality Guideline (FEQG) for aluminum: 0.97 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Howard Lake
Dissolved Aluminum

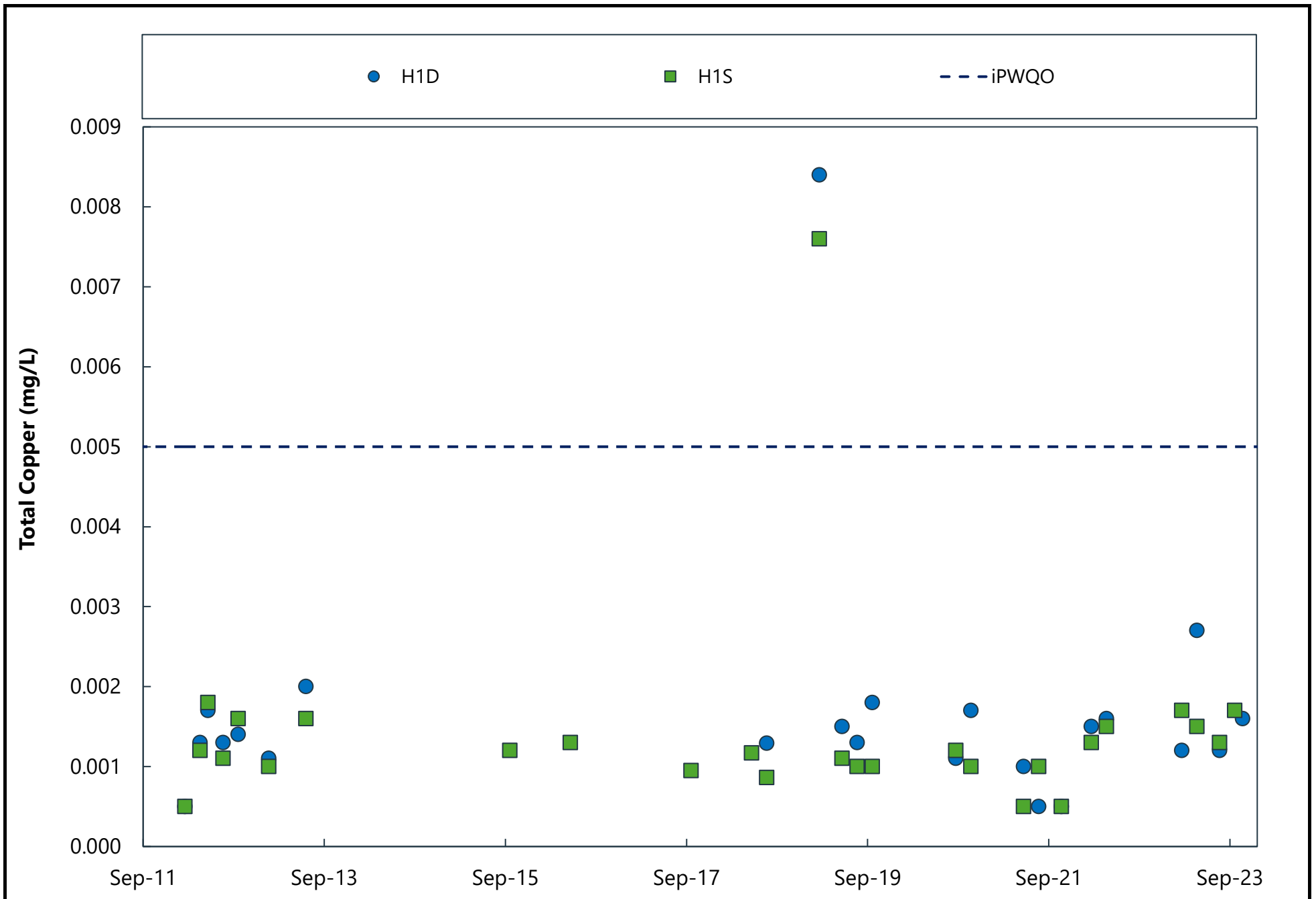
Drawn by: MP	Checked by:	November 2024
		Figure D-35



Notes:
Federal Environmental Quality Guideline (FEQG) for cobalt: 0.00078 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Howard Lake
Total Cobalt

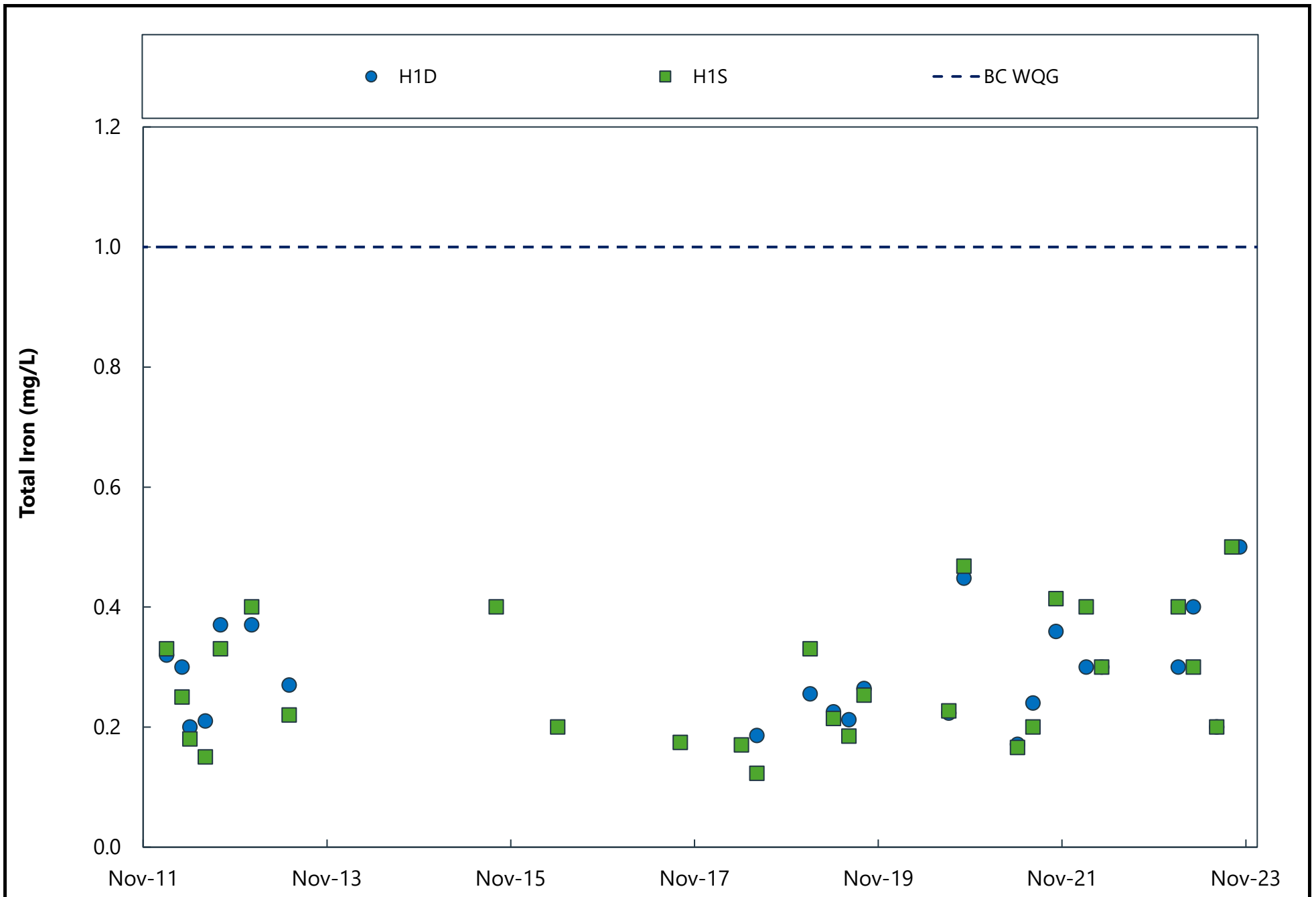
Drawn by: MP	Checked by:	November 2024
		Figure D-36



Notes:
Interim Provincial Water Quality Objective (iPWQO) for copper: 0.005 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Howard Lake
Total Copper

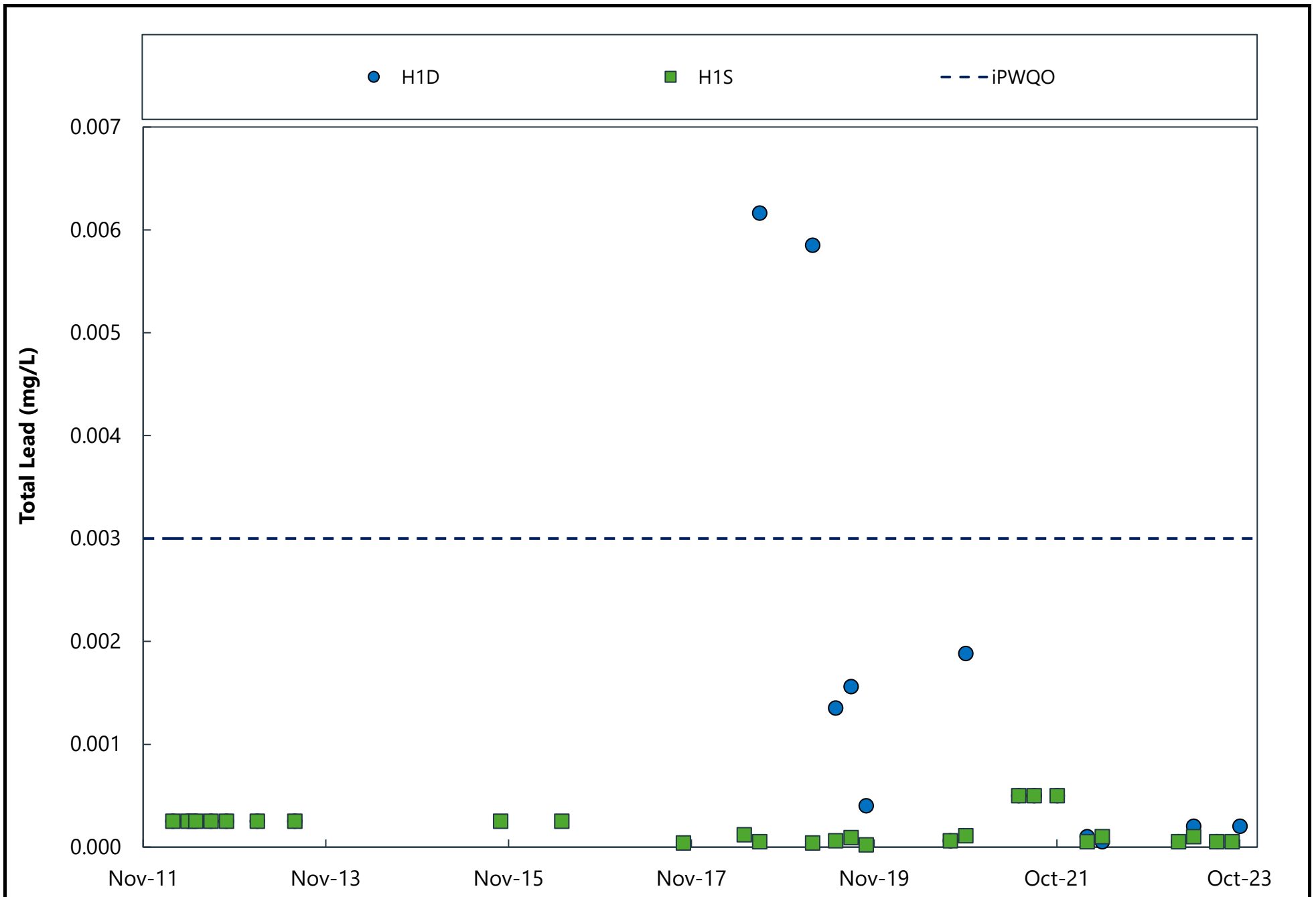
Drawn by: MP	Checked by:	November 2024
		Figure D-37



Notes:
British Columbia long-term exposure guidelines, freshwater (BC WQG) for iron: 1 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Howard Lake
Total Iron

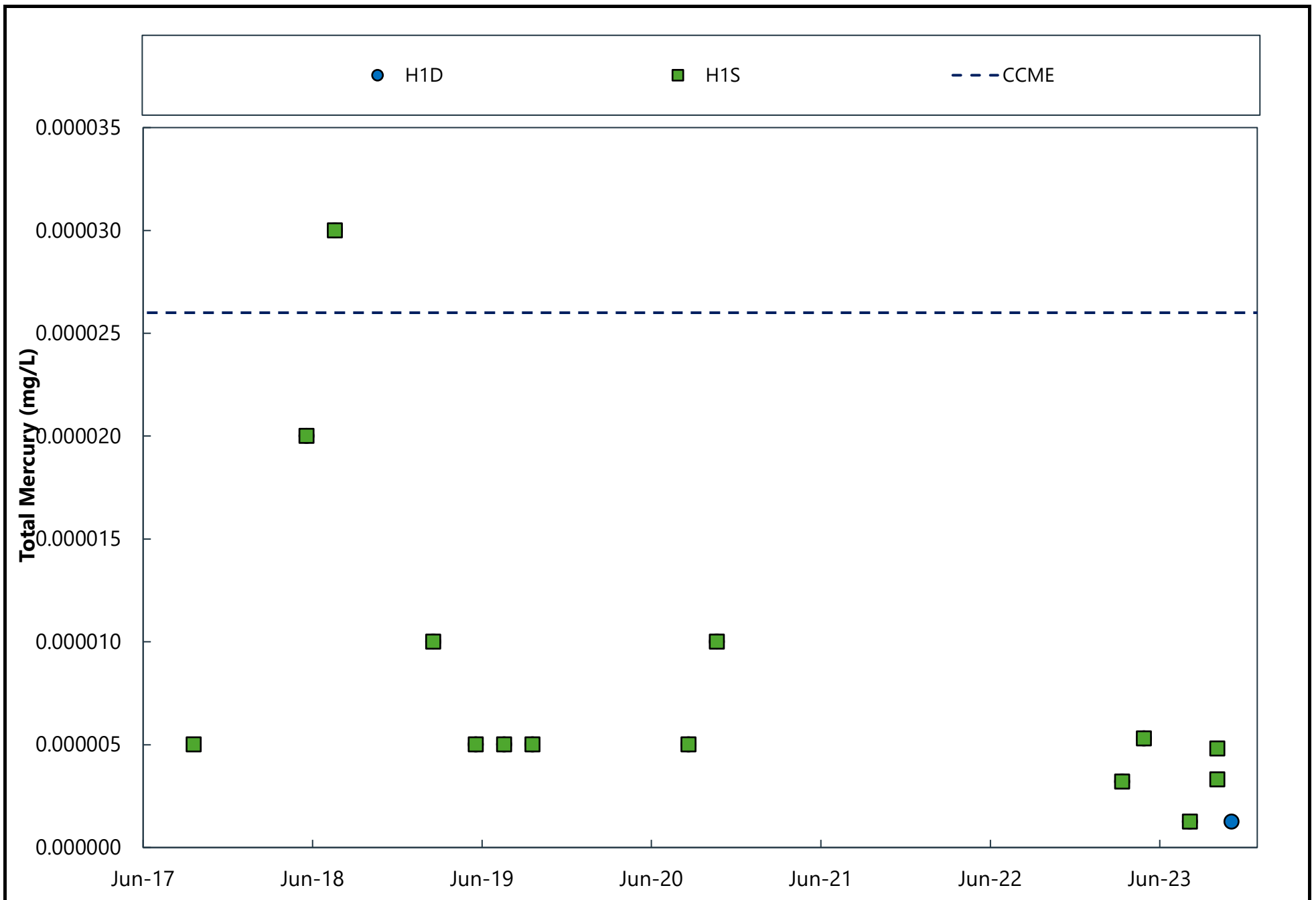
Drawn by: MP	Checked by:	November 2024
		Figure D-38



Notes:
Interim Provincial Water Quality Objective (iPWQO) for lead: 0.0003 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Howard Lake
Total Lead

Drawn by: MP	Checked by:	November 2024
		Figure D-39



Notes:

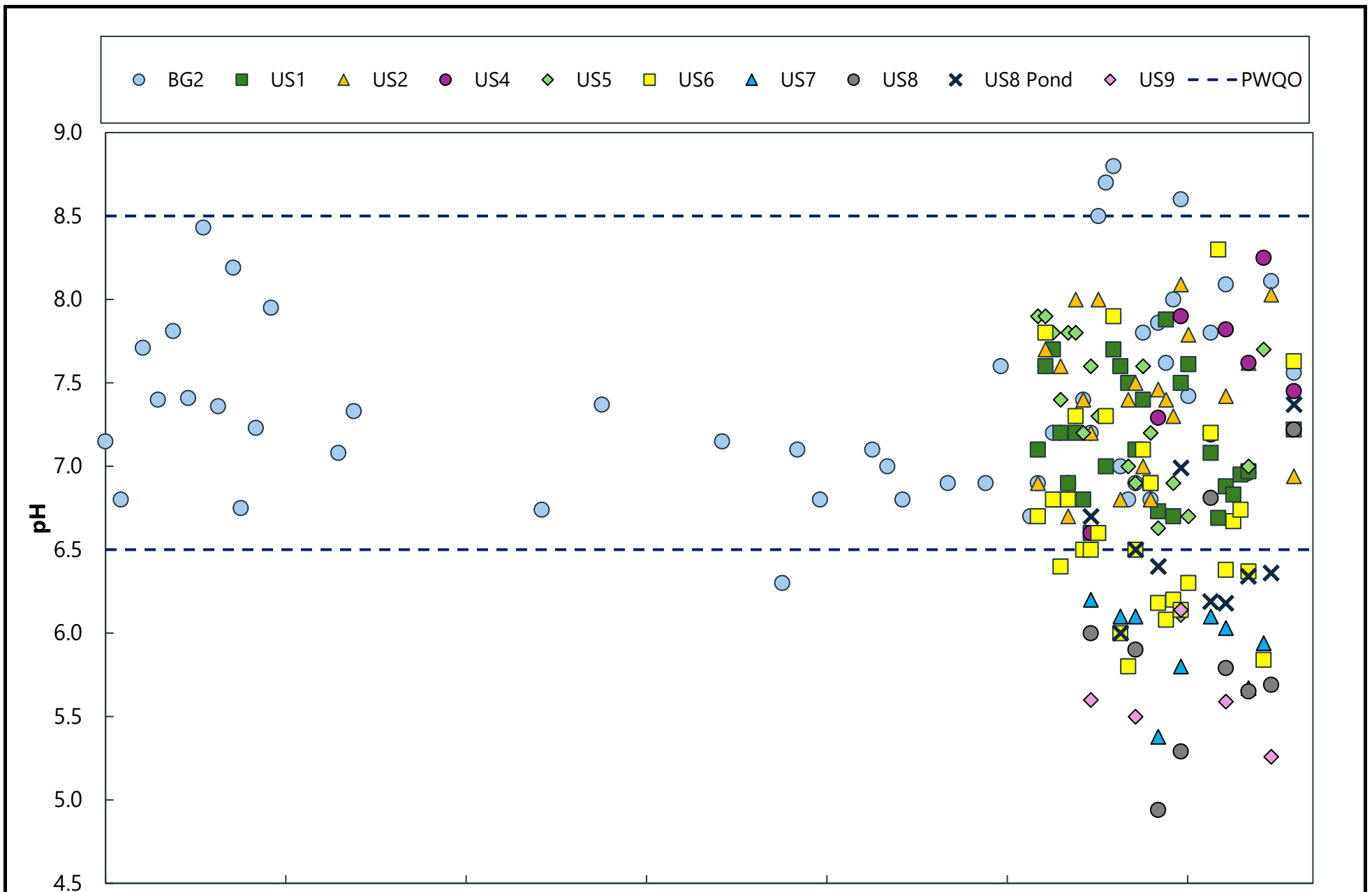
Canadian Council of Ministers of the Environment (CCME) water quality guideline for the protection of aquatic life (long-term exposure) for mercury: 0.000026 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Results prior to 2017 were excluded due to high MDL (0.0001 mg/L).

Howard Lake
Total Mercury

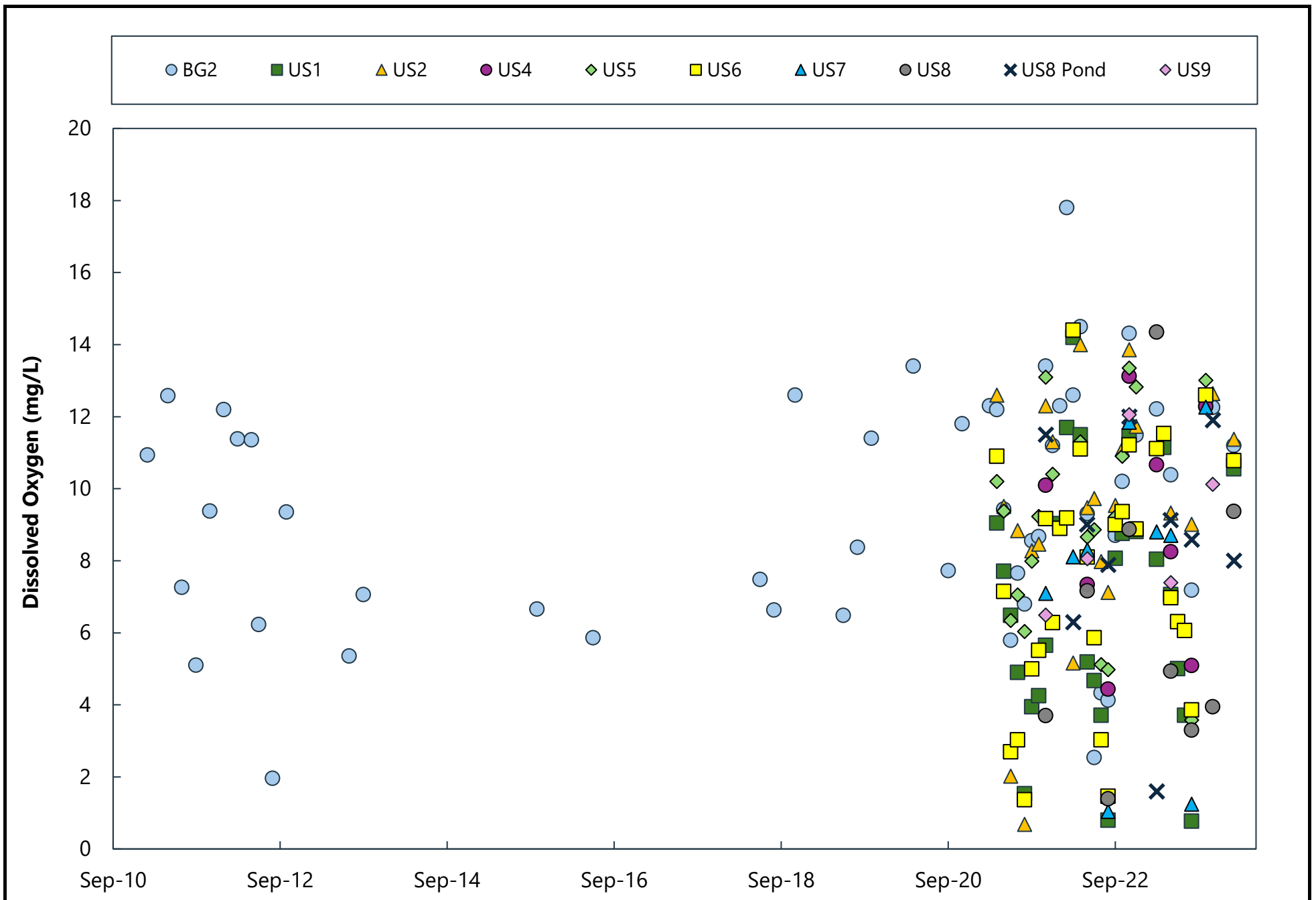
Drawn by: MP	Checked by:	November 2024
		Figure D-40



Notes:
Field pH shown
Provincial Water Quality Objective (PWQO) for pH: 6.5 - 8.5

Unnamed Watercourses
pH

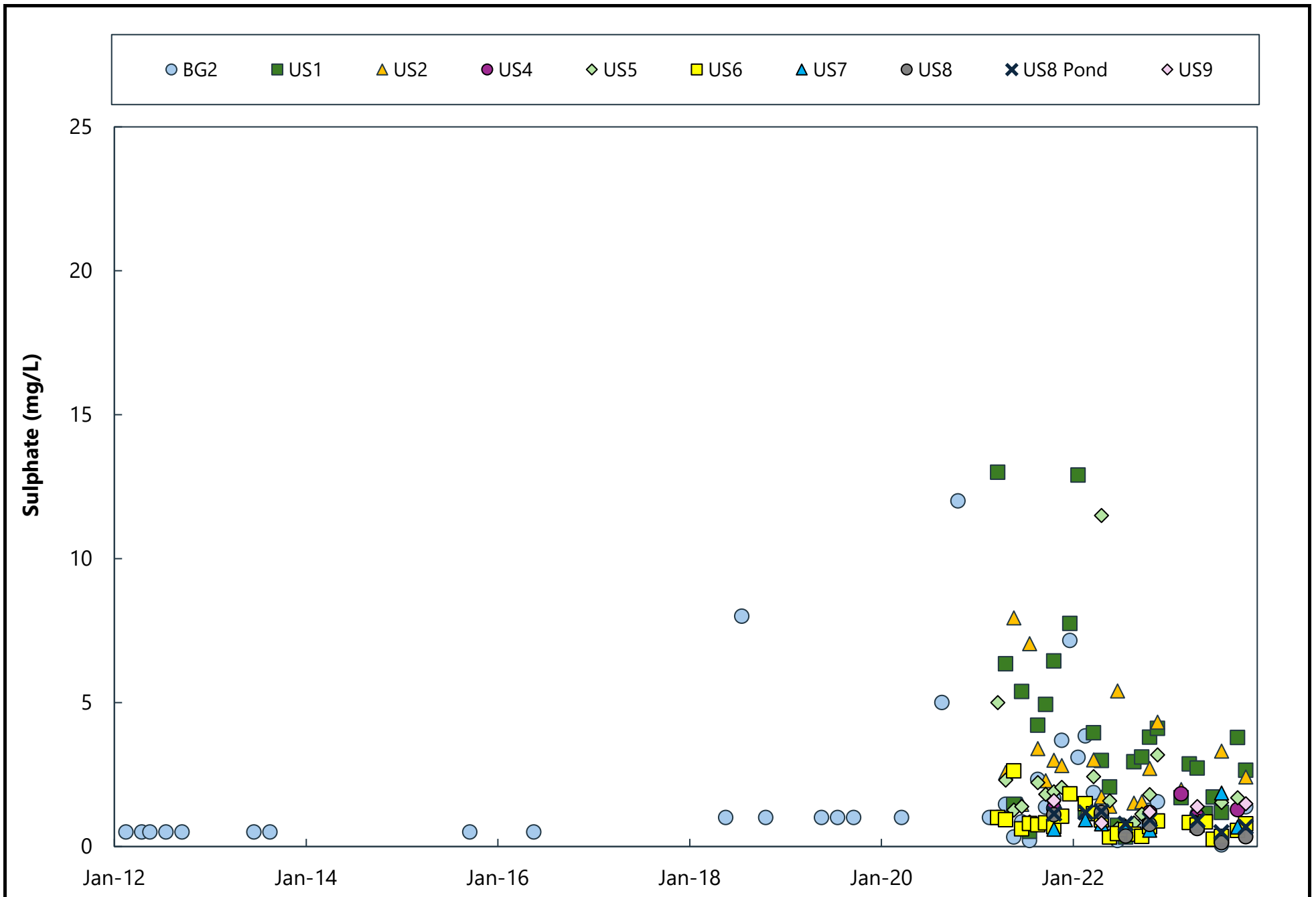
Drawn by: MP	Checked by:	November 2024
		Figure D-41



Notes:
Field dissolved oxygen shown

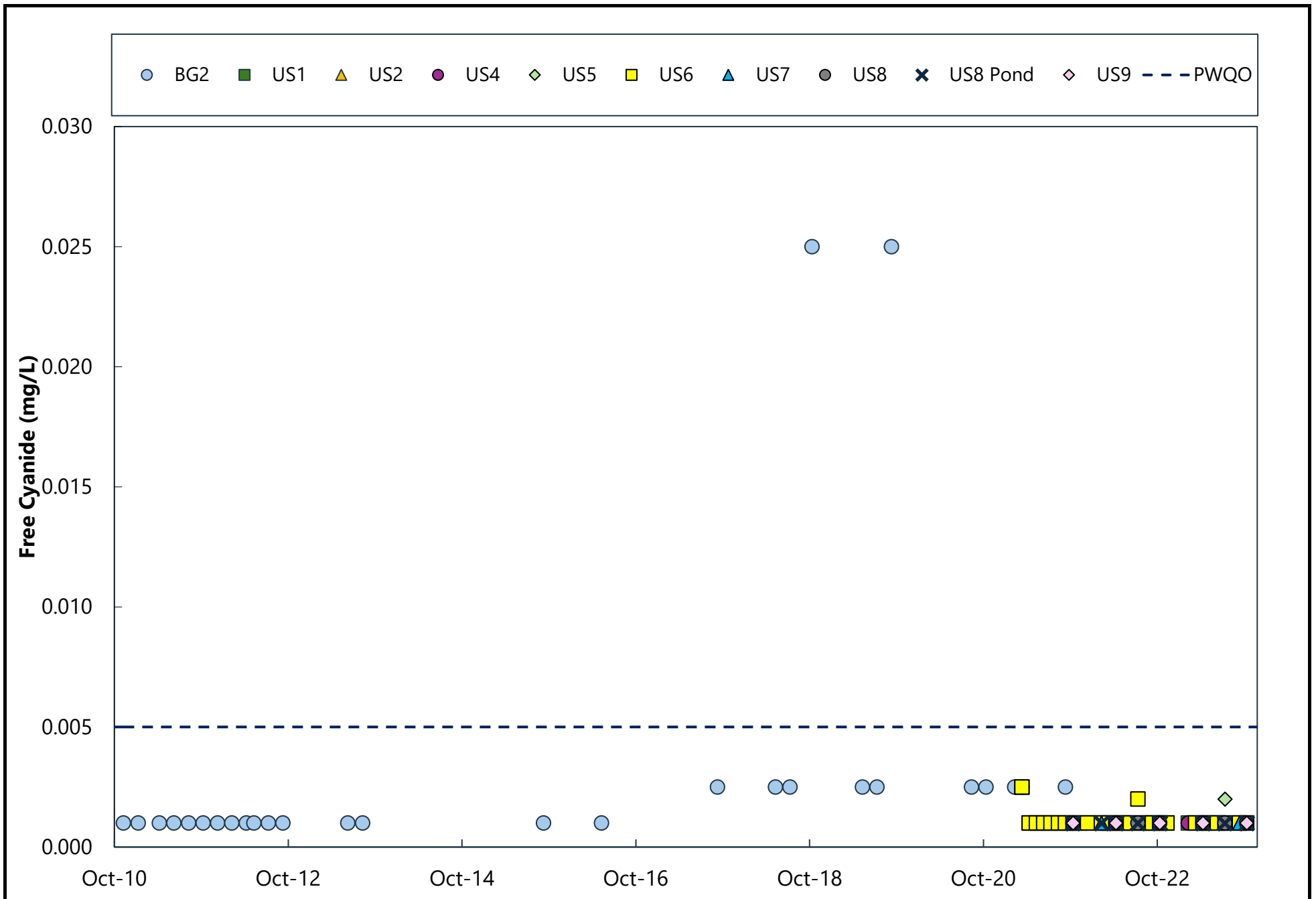
Unnamed Watercourses
Dissolved Oxygen

Drawn by: MP	Checked by:	November 2024
		Figure D-42



Unnamed Watercourses
Sulphate

Drawn by: MP	Checked by:	November 2024
		Figure D-43



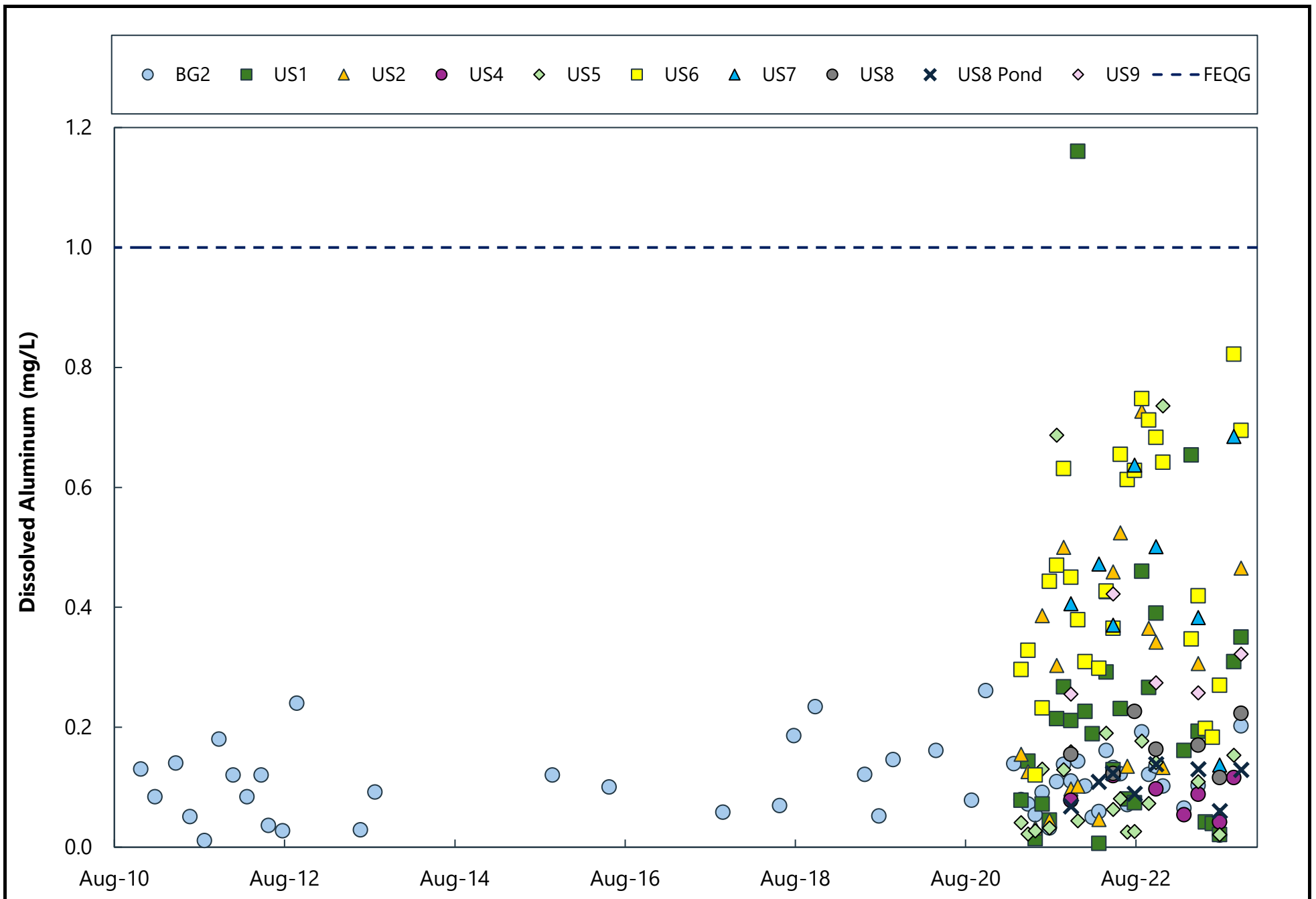
Notes:

Provincial Water Quality Objective (PWQO) for free cyanide: 0.005 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Unnamed Watercourses
Free Cyanide

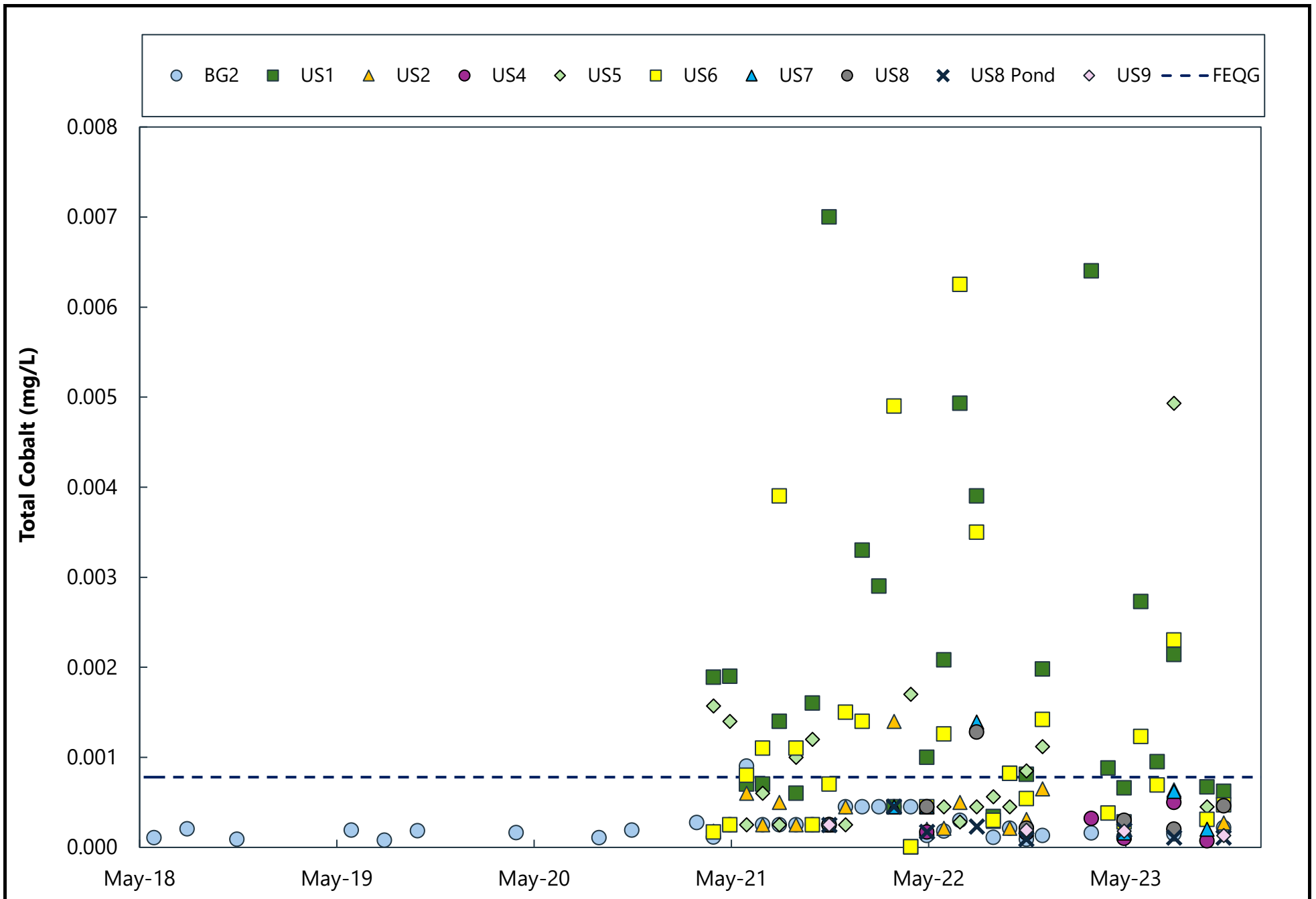
Drawn by: MP	Checked by:	November 2024
		Figure D-44



Notes:
Federal Environmental Quality Guideline (FEQG) for aluminum: 1.0 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Unnamed Watercourses
Dissolved Aluminum

Drawn by: MP	Checked by:	November 2024
		Figure D-45



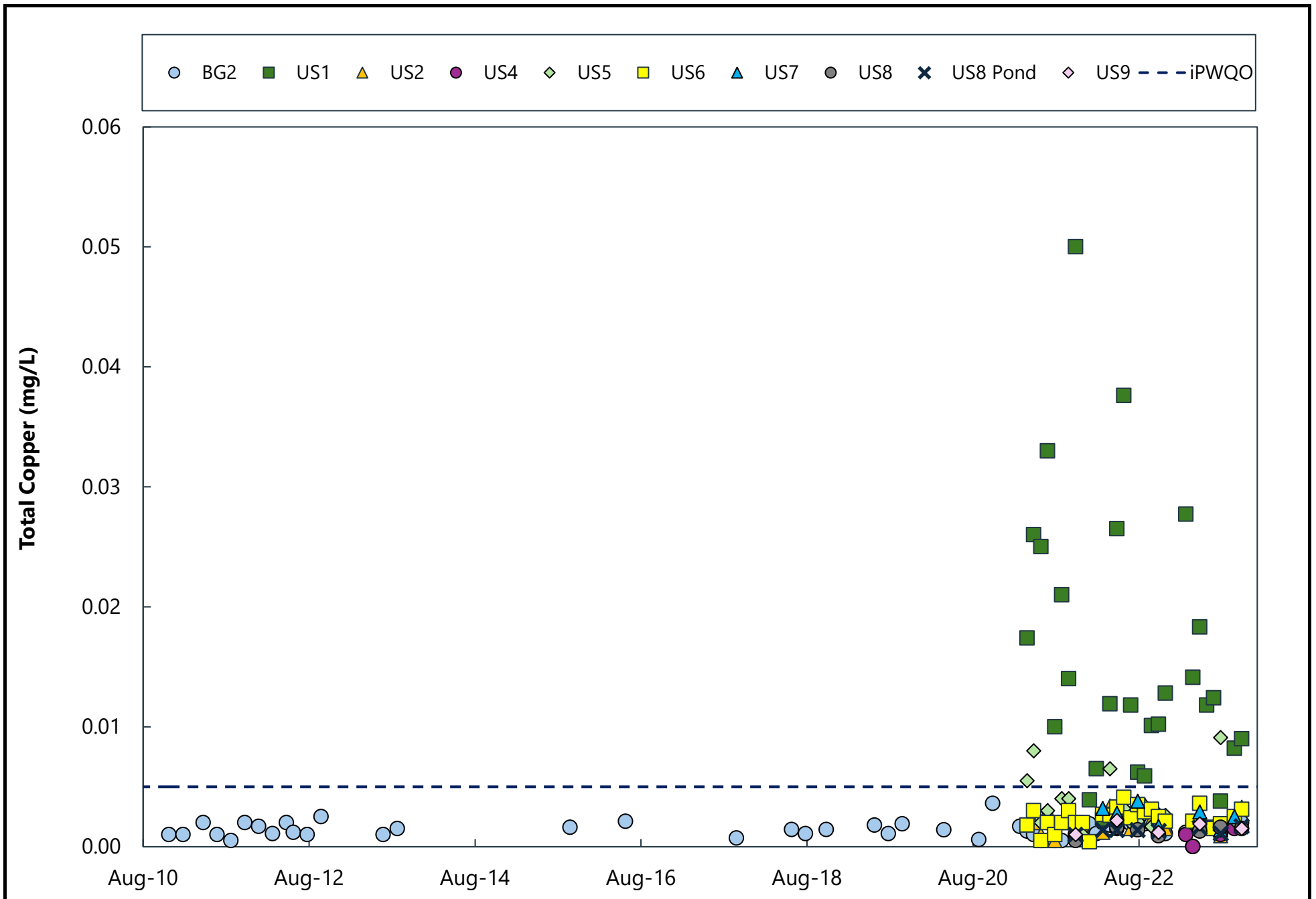
Notes:

Federal Environmental Quality Guideline (FEQG) for cobalt: 0.00078 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Unnamed Watercourses
Total Cobalt

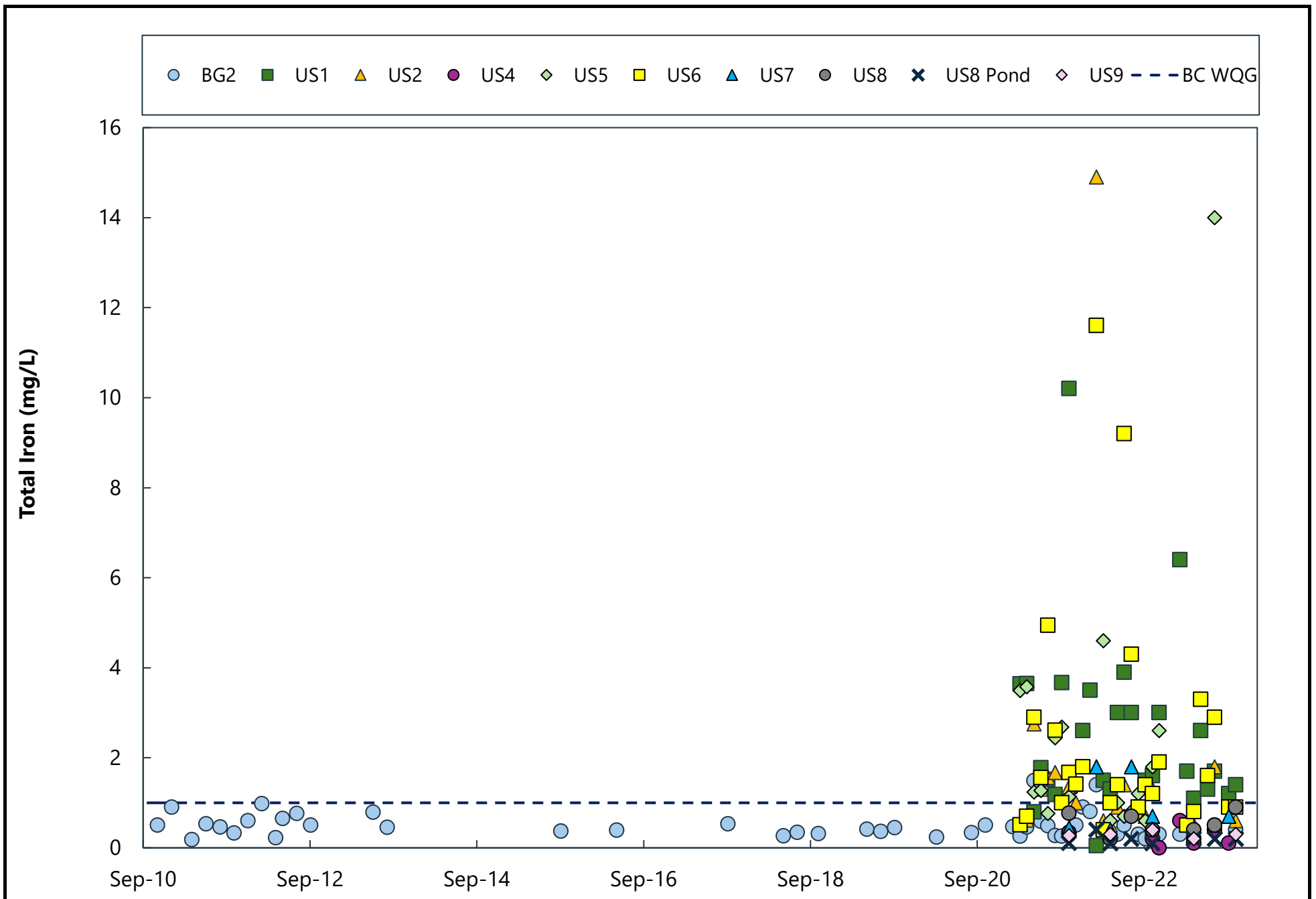
Drawn by: MP	Checked by:	November 2024
		Figure D-46



Notes:
Interim Provincial Water Quality Objective (iPWQO) for copper: 0.005 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Unnamed Watercourses
Total Copper

Drawn by: MP	Checked by:	November 2024
		Figure D-47



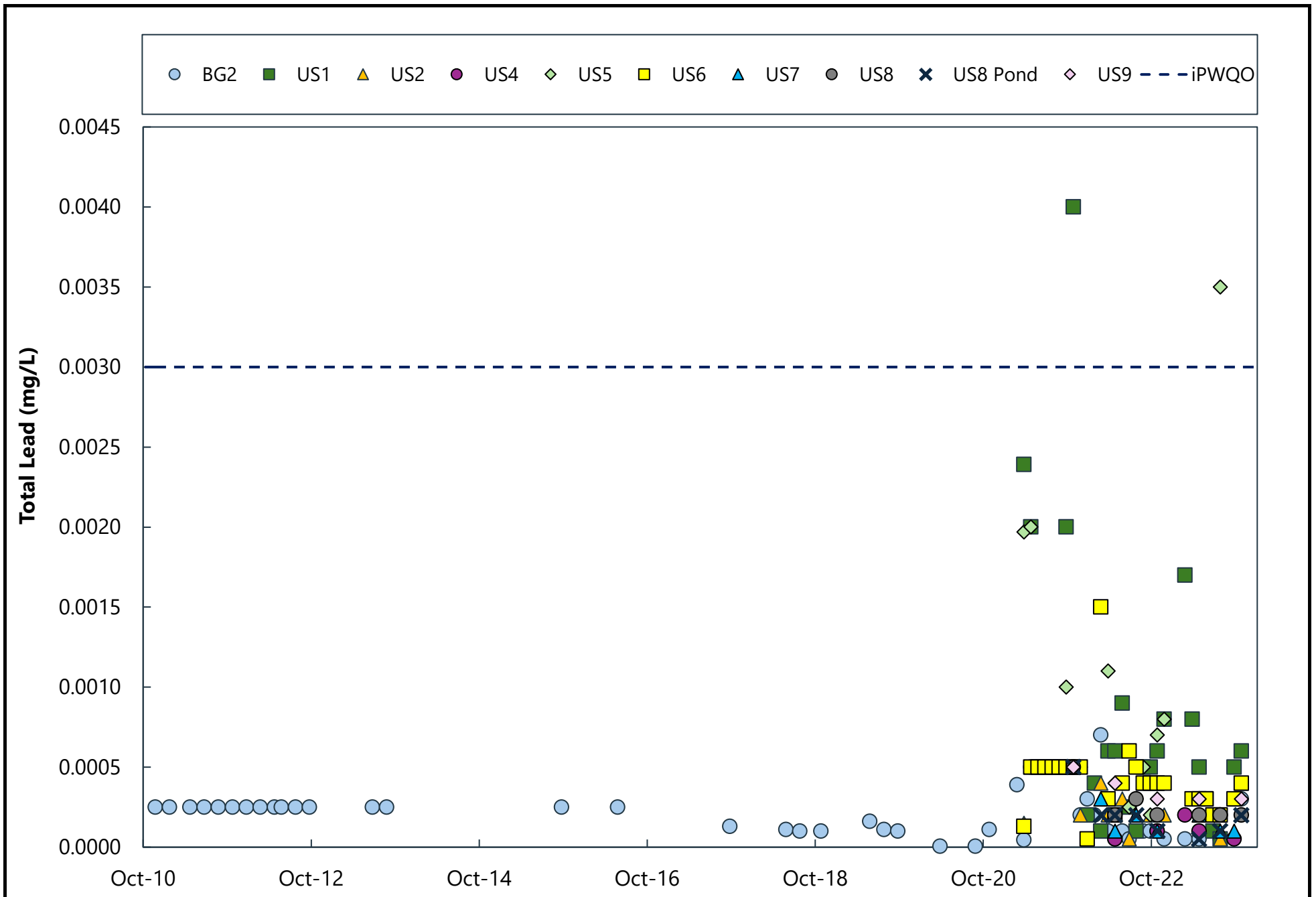
Notes:

British Columbia long-term exposure guidelines, freshwater (BC WQG) for iron: 1 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Unnamed Watercourses
Total Iron

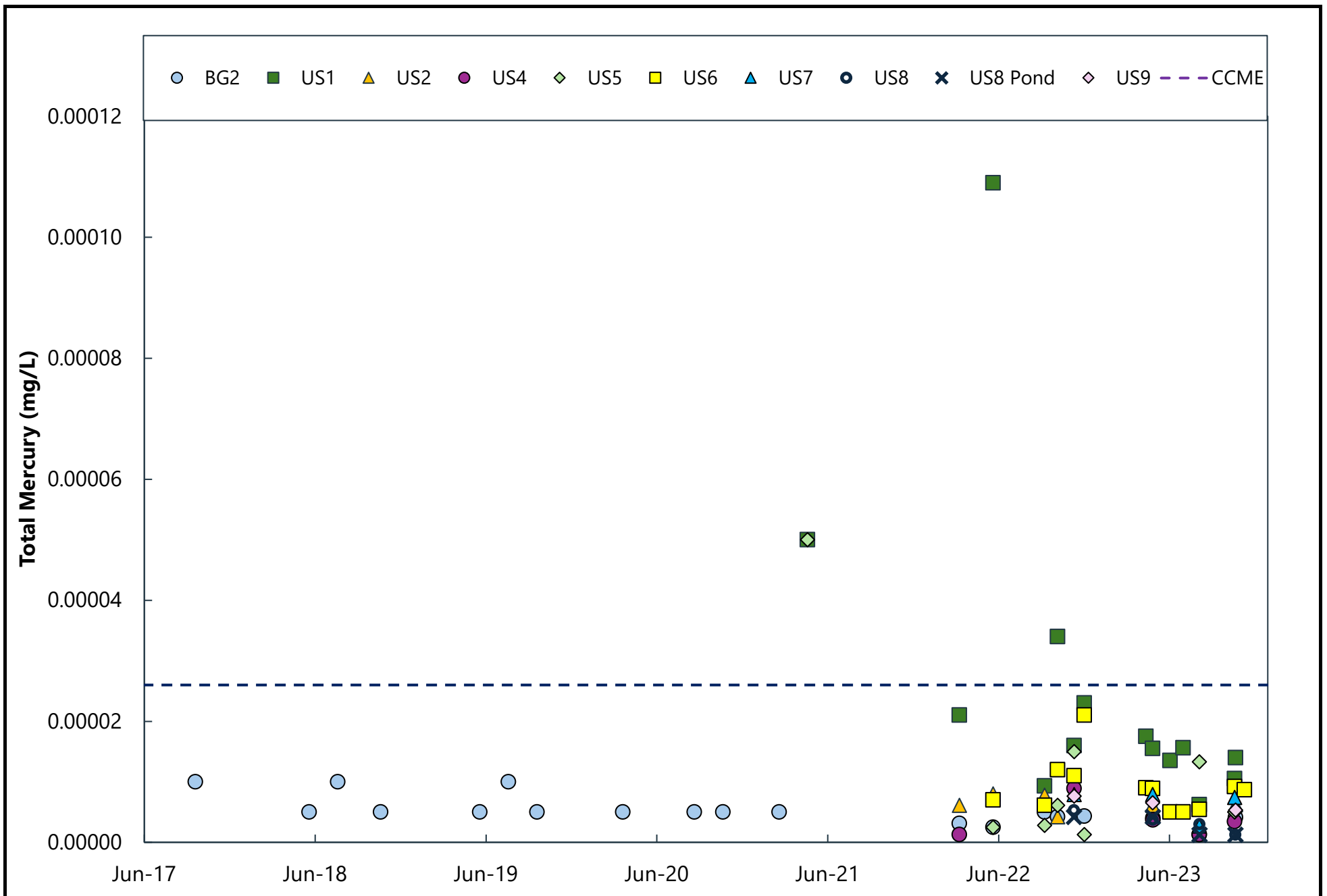
Drawn by: MP	Checked by:	November 2024
		Figure D-48



Notes:
Interim Provincial Water Quality Objective (iPWQO) for lead: 0.0003 mg/L
Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Unnamed Watercourses
Total Lead

Drawn by: MP	Checked by:	November 2024
		Figure D-49



Notes:

Canadian Council of Ministers of the Environment (CCME) water quality guideline for the protection of aquatic life (long-term exposure) for mercury: 0.000026 mg/L

Results below laboratory minimum detection limits (i.e., <MDL) were replaced with a value equal to 50% of the MDL.

Unnamed Watercourses
Total Mercury

Drawn by: MP	Checked by:	November 2024
		Figure D-50

APPENDIX E

Groundwater Quality Data

Monitoring Well ID.			MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D
Sampling Date	**Unit**	**WQG PAL[1]**	**2021-04-28**	**2021-05-20**	**2021-06-14**	**2021-07-19**	**2021-08-17**	**2021-09-14**	**2021-10-13**	**2021-11-16**	**2021-12-14**	**2022-01-31**	**2022-02-16**
Field Measured													
Temperature Field	°C	-	5.3	7.3	4.9	6.5	5.9	5.4	6.2	5.0	4.8	4.3	4.7
pH Field	pH units	6.5-8.5	7.54	7.76	7.62	7.71	7.58	7.55	8.05	7.81	7.52	7.62	7.52
Conductivity Field	µS/cm	-	504	503	532	491	534	533	602	514	532	532	512
Dissolved Oxygen Field	mg/L	-	4.4	5.04	4.04	4.4	3.88	2.21	1.59	2.64	2.45	5.13	4.33
Oxidation-Reduction Potential Field	mV	-	81.9	56.4	206	106	108	120	14.5	69.6	134	91.8	149
Conventional Parameters													
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	237	295	222	221	214	218	223	223	255	235	223
Alkalinity, Total (as CaCO3)	mg/L	-	250	256	272	244	265	252	252	249	254	254	224
Acidity (as CaCO3)	mg/L	-	< 2	-	-	-	-	-	-	-	-	25.0	15.0
Total Dissolved Solids	mg/L	-	303	272	264	332	314	316	314	296	306	280	258
Total Suspended Solids	mg/L	-	186	145	23.0	346	3190	760	888	172	354	124	487
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	150	1.0	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06	< 0.05
Sulphate	mg/L	218	17.0	21.9	14.8	30.9	41.9	39.6	37.9	30.5	40.9	23.1	24.3
Nutrients													
Ammonia, Total (as N)	mg/L	-	< 0.1	0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06
Nitrite (as N)	mg/L	0.06	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	0.005	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	< 0.06	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.36	0.006	0.016	0.079	0.007	0.012	< 0.004	0.009	< 0.004	0.014	0.029	0.035
Antimony - Dissolved	mg/L	0.02	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0021	< 0.003	< 0.003	0.003	< 0.003	< 0.003	< 0.003	0.003	0.003	0.002	0.003
Barium - Dissolved	mg/L	-	0.243	0.326	0.254	0.299	0.3	0.335	0.349	0.388	0.399	0.362	0.357
Beryllium - Dissolved	mg/L	0.011	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	0.00002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	0.019	0.024	0.025	0.021	0.021	0.019	0.018	0.027	0.019	0.019	0.029
Cadmium - Dissolved	mg/L	0.0001	0.000034	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	64.6	-	-	-	-	-	58.3	-	-	-	-
Chromium - Dissolved	mg/L	0.0089	0.00009	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	0.00069	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	0.0022	0.002	0.003	0.002	0.004	0.001	0.002	< 0.001	0.001	0.003	0.002
Iron - Dissolved	mg/L	1	0.01	< 0.01	0.064	< 0.01	< 0.01	0.118	< 0.01	0.019	< 0.01	0.022	0.038
Lead - Dissolved	mg/L	0.003	0.00009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	-	0.0022	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	18.3	-	-	-	-	-	18.8	-	-	-	-
Manganese - Dissolved	mg/L	-	0.594	0.552	0.497	0.445	0.481	0.484	0.568	0.641	0.696	0.508	0.59
Mercury - Dissolved	mg/L	0.000026	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.0091	0.006	0.008	0.009	0.046	0.007	0.007	0.007	0.009	0.006	0.006
Nickel - Dissolved	mg/L	0.025	0.0015	< 0.003	< 0.003	< 0.003	0.009	< 0.003	< 0.003	0.001	< 0.001	0.002	< 0.001
Phosphorus - Dissolved	mg/L	0.03	0.01	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	1.62	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	0.00028	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	0.001	0.006	< 0.001
Silicon - Dissolved	mg/L	-	7.19	8.05	8.29	9.09	10.3	8.93	8.15	8.26	8.29	7.89	8.41
Silver - Dissolved	mg/L	0.00025	< 0.00005	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	14.6	-	-	-	-	-	-	-	-	-	-
Strontium - Dissolved	mg/L	2.5	0.42	0.464	0.421	0.48	0.454	0.43	0.438	0.454	0.493	0.472	0.425
Thallium - Dissolved	mg/L	0.0008	0.000021	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	0.00014	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	0.00037	< 0.002	0.011	< 0.002	< 0.002	0.005	< 0.002	< 0.002	< 0.002	< 0.002	0.002
Uranium - Dissolved	mg/L	0.015	0.00347	0.003	0.003	0.004	0.005	0.005	0.005	0.0037	0.0033	0.0031	0.0033
Vanadium - Dissolved	mg/L	0.12	0.00048	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	0.005	0.01	< 0.005	0.007	0.028	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	0.004	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D	MW20-UB11D (2	MW20-UB11D (2	MW20-UB11D (2
2022-03-14	2022-04-20	2022-05-17	2022-06-13	2022-07-21	2022-08-16	2022-09-19	2022-10-20	2023-05-09	2023-08-22	2023-11-03
4.7	5.1	6.2	5.8	5.7	6.0	5.7	5.1	5.6	5.8	5.4
7.56	7.58	7.72	7.79	7.45	7.54	7.48	7.47	7.56	7.68	7.47
507	498	498	501	511	513	530	515	524	511	573
3.3	3.45	4.11	3.2	2.35	2.51	2.96	3.51	4.07	2.8	2.45
58.4	56.0	191	84.6	107	163	160	30.0	57.0	-	-
-	-	-	-	-	-	-	-	8.1	7.81	7.9
224	222	222	240	262	-	-	-	226	261	250
258	253	253	277	247	-	-	-	261	263	244
15.0	8.0	-	9.0	-	-	-	-	5.2	6.9	9.4
298	280	264	294	298	-	-	-	264	304	320
140	195	69.0	102	314	-	-	-	70.0	13.0	18.0
-	-	-	-	-	-	-	-	-	775	92.2
-	-	-	-	-	-	-	-	1.6	1.79	2.49
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
33.5	20.7	17.8	28.1	34.8	-	-	-	31.6	35.4	62.8
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
0.031	0.018	0.024	0.013	0.018	-	-	-	0.009	0.008	0.013
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
< 0.001	0.003	0.002	< 0.001	0.002	-	-	-	0.003	0.003	0.017
0.368	0.451	0.413	0.456	0.454	-	-	-	0.399	0.413	0.362
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.021	0.02	0.019	0.018	0.019	-	-	-	0.019	0.021	0.015
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
59.1	58.9	58.4	64.6	72.8	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
0.001	0.001	0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
< 0.01	< 0.01	< 0.01	< 0.01	0.013	-	-	-	0.051	0.042	0.121
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
18.5	18.3	18.4	19.2	19.6	-	-	-	18.4	22.6	18.1
0.482	0.653	0.689	0.713	0.622	-	-	-	0.702	0.689	0.623
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
0.013	0.007	0.006	0.007	0.006	-	-	-	0.007	0.005	0.005
0.001	< 0.001	0.002	0.031	0.007	-	-	-	0.001	< 0.001	0.001
-	-	-	-	-	-	-	-	-	-	-
-	-	-	1.4	1.9	-	-	-	-	-	-
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	0.003
8.29	8.42	8.22	8.43	8.65	-	-	-	8.14	8.1	7.97
0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
22.2	16.1	15.0	19.0	20.9	-	-	-	0.412	0.431	0.349
0.397	0.435	0.451	0.452	0.436	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	0.005	< 0.002	< 0.002
< 0.002	< 0.002	0.01	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.0032	0.0032	0.0026	0.0027	0.003	-	-	-	0.0027	0.0028	0.0023
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.008	< 0.005	< 0.005	< 0.005	0.008	-	-	-	< 0.005	< 0.005	0.014
< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.		MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S
Sampling Date	**Unit**	**2021-04-28**	**2021-05-19**	**2021-06-14**	**2021-07-19**	**2021-08-17**	**2021-09-14**	**2021-10-13**	**2021-11-16**	**2021-12-14**	**2022-01-31**	**2022-02-16**	**2022-03-14**
Field Measured													
Temperature Field	°C	5.1	5.5	4.9	5.9	5.7	5.4	5.7	5.0	4.8	4.5	4.8	4.8
pH Field	pH units	7.65	7.5	7.64	8.03	7.71	7.58	7.88	7.81	7.59	7.56	7.57	7.56
Conductivity Field	µS/cm	460	462	512	462	391	455	528	454	456	463	459	441
Dissolved Oxygen Field	mg/L	2.27	0.92	1.04	1.3	1.61	0.91	1.66	1.57	1.86	2.65	1.57	2.05
Oxidation-Reduction Potential Field	mV	-	-	-	-	-	-	-	-	-	-	-	-
Conventional Parameters													
pH	pH units	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	232	258	223	219	226	222	231	226	229	234	248	231
Alkalinity, Total (as CaCO3)	mg/L	239	239	260	235	249	233	239	238	245	239	230	241
Acidity (as CaCO3)	mg/L	< 2	-	-	-	-	-	-	-	-	20.0	15.0	15.0
Total Dissolved Solids	mg/L	294	248	250	266	260	270	258	252	238	252	232	272
Total Suspended Solids	mg/L	4490	79.0	19.0	18.0	1860	530	97.0	335	77.0	69.0	790	177
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	< 1	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	0.16	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.08	0.1	< 0.05
Sulphate	mg/L	35.0	13.2	13.9	13.7	13.4	15.0	15.7	15.0	13.9	< 0.1	14.4	14.0
Nutrients													
Ammonia, Total (as N)	mg/L	< 0.1	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03	< 0.02
Nitrate (as N)	mg/L	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.007	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	< 0.06	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.002	1.04	0.011	< 0.004	0.033	< 0.004	0.01	< 0.004	0.004	0.031	0.254	0.019
Antimony - Dissolved	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.0027	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.001	0.004	0.001	0.001	< 0.001
Barium - Dissolved	mg/L	0.0562	0.061	0.046	0.046	0.054	0.051	0.043	0.038	0.045	0.041	0.043	0.04
Beryllium - Dissolved	mg/L	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.011	0.014	0.01	0.012	0.012	0.015	0.011	0.016	0.012	< 0.01	0.02	0.013
Cadmium - Dissolved	mg/L	< 0.000003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	62.9	-	-	-	-	-	60.9	-	-	-	-	61.2
Chromium - Dissolved	mg/L	0.00014	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00081	0.0017	0.0006	< 0.0005	0.0009	0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0008	< 0.0005
Copper - Dissolved	mg/L	< 0.0002	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Iron - Dissolved	mg/L	1.15	2.83	0.976	1.04	0.88	1.01	0.871	0.757	0.802	0.849	1.22	0.822
Lead - Dissolved	mg/L	< 0.00009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	0.0029	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	18.1	-	-	-	-	-	19.2	-	-	-	-	19.0
Manganese - Dissolved	mg/L	0.739	0.603	0.437	0.371	0.372	0.36	0.311	0.254	0.288	0.243	0.261	0.206
Mercury - Dissolved	mg/L	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.0048	< 0.002	0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002
Nickel - Dissolved	mg/L	0.0009	0.006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	0.001	0.001
Phosphorus - Dissolved	mg/L	0.025	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	1.74	-	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	< 0.00004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	0.005	< 0.001
Silicon - Dissolved	mg/L	7.08	8.67	7.84	8.7	9.14	8.22	7.33	7.52	9.21	7.77	7.72	7.61
Silver - Dissolved	mg/L	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	7.61	-	-	-	-	-	-	-	-	-	-	5.33
Strontium - Dissolved	mg/L	0.193	0.168	0.139	0.133	0.123	0.12	0.11	0.09	0.111	0.104	0.099	0.086
Thallium - Dissolved	mg/L	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.00009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	0.00012	0.052	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002	0.003	0.012	0.006
Uranium - Dissolved	mg/L	0.000416	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.00016	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.003	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S	MW20-UB11S (2	MW20-UB11S (2	MW20-UB11S (2
2022-04-20	2022-05-17	2022-06-13	2022-07-21	2022-08-16	2022-09-19	2022-10-20	2023-05-09	2023-08-22	2023-11-03
4.9	5.3	5.4	5.4	5.8	5.6	5.1	5.4	5.6	5.2
7.65	7.65	7.96	7.47	7.51	7.47	7.45	7.53	7.75	7.43
454	457	453	450	476	468	471	458	452	459
1.81	1.94	4.08	2.11	2.28	2.76	3.62	2.81	2.29	1.6
-	-	-	-	-	-	-35.9	29.8	-	-
-	-	-	-	-	-	-	8.04	7.89	7.87
229	227	248	268	-	-	-	230	276	272
237	235	248	236	-	-	-	242	247	229
12.0	7.0	14.0	-	-	-	-	5.3	< 5.0	9.1
250	244	< 10	248	-	-	-	230	256	214
86.0	872	159	477	-	-	-	3550	43.0	736
-	-	-	-	-	-	-	-	554	56.7
-	-	-	-	-	-	-	0.39	0.71	0.7
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	0.09	< 0.05	< 0.05
13.8	13.7	< 0.1	15.4	-	-	-	14.4	15.3	14.6
< 0.02	< 0.02	0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
0.008	0.005	0.019	0.014	-	-	-	< 0.004	0.01	0.014
< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.001	0.001	< 0.001	0.001	-	-	-	0.001	0.001	0.011
0.035	0.043	0.042	0.045	-	-	-	0.035	0.025	0.035
< 0.0005	< 0.0005	0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.01	0.011	< 0.01	< 0.01	-	-	-	< 0.010	< 0.010	< 0.010
< 0.0001	< 0.0001	0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
61.0	60.4	66.4	73.5	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	0.0006
< 0.001	0.001	0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.718	0.78	< 0.01	0.771	-	-	-	0.733	0.696	0.844
< 0.0005	< 0.0005	0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
18.6	18.5	< 0.05	20.5	-	-	-	19.1	22.0	19.1
0.177	0.178	< 0.002	0.197	-	-	-	0.155	0.143	0.118
< 0.0001	< 0.0001	0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	0.003
< 0.001	0.001	0.005	< 0.001	-	-	-	< 0.001	< 0.001	0.001
-	-	-	-	-	-	-	-	-	-
-	-	< 0.5	1.59	-	-	-	-	-	-
< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	0.003
7.55	7.69	< 0.05	7.81	-	-	-	7.63	7.5	7.56
< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	0.0001	< 0.0001
5.28	5.26	< 0.05	6.03	-	-	-	0.084	0.079	0.07
0.085	0.095	< 0.005	0.096	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	0.0005	< 0.0005
< 0.002	< 0.002	0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.005	< 0.005	0.005	< 0.005	-	-	-	< 0.005	< 0.005	0.006
< 0.004	< 0.004	0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.		MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D
Sampling Date	**Unit**	**2021-05-18**	**2021-06-15**	**2021-07-21**	**2021-08-17**	**2021-09-13**	**2021-10-12**	**2021-11-16**	**2021-12-13**	**2022-01-27**	**2022-02-15**	**2022-03-14**	**2022-04-19**
Field Measured													
Temperature Field	°C	6.9	5.5	6.6	7.1	6.3	7.1	5.8	5.7	5.3	5.1	5.5	5.4
pH Field	pH units	7.93	7.75	8.17	7.69	7.61	7.76	7.98	7.71	7.5	7.52	7.59	7.76
Conductivity Field	µS/cm	329	339	322	331	333	380	320	328	360	353	314	318
Dissolved Oxygen Field	mg/L	4.92	1.2	0.93	1.33	0.72	1.53	1.23	1.47	2.87	1.86	1.99	3.24
Oxidation-Reduction Potential Field	mV	6.4	-	-	-	-	-	-	-48.0	-2.6	-8.0	-	10.3
Conventional Parameters													
pH	pH units	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	180	157	150	160	157	156	152	164	173	176	161	150
Alkalinity, Total (as CaCO3)	mg/L	167	189	219	184	166	164	167	173	188	180	172	161
Acidity (as CaCO3)	mg/L	-	-	-	-	-	-	-	-	15.0	15.0	15.0	5.0
Total Dissolved Solids	mg/L	176	180	258	188	172	182	186	180	184	168	198	170
Total Suspended Solids	mg/L	95.0	127	32.0	134	608	56.0	44.0	30.0	30.0	55.0	190	182
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	7.5	8.01	8.02	7.78	8.39	8.48	7.86	7.67	7.76	8.0	8.11	7.57
Nutrients													
Ammonia, Total (as N)	mg/L	0.03	< 0.02	0.03	< 0.02	< 0.02	0.02	0.02	0.03	0.02	0.03	0.03	< 0.02
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	1.41	0.016	0.075	0.064	< 0.004	0.031	< 0.004	0.014	0.023	0.01	0.121	0.011
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	< 0.003	0.006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	0.001	0.006	0.001	< 0.001	0.001
Barium - Dissolved	mg/L	0.099	0.068	0.078	0.084	0.089	0.081	0.076	0.082	0.064	0.062	0.074	0.075
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.012	< 0.01	0.011	0.012	0.014	0.011	0.015	0.011	0.013	0.014	0.013	0.014
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-	-	-	44.8	-	-	-	-	46.4	43.5
Chromium - Dissolved	mg/L	0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.013	< 0.001	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001
Iron - Dissolved	mg/L	2.93	0.474	0.238	0.145	0.112	0.035	0.04	< 0.01	0.129	0.156	0.18	0.053
Lead - Dissolved	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	-	-	-	-	10.6	-	-	-	-	10.9	9.93
Manganese - Dissolved	mg/L	0.413	0.312	0.352	0.372	0.34	0.323	0.327	0.368	0.327	0.324	0.295	0.307
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	0.001	0.017	0.001
Phosphorus - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	7.7	5.58	8.1	8.16	7.44	7.09	7.08	7.09	7.25	6.94	7.37	7.05
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	4.19	4.49
Strontium - Dissolved	mg/L	0.129	0.102	0.135	0.133	0.131	0.13	0.136	0.138	0.117	0.119	0.124	0.144
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	0.037	< 0.002	< 0.002	0.007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.012	< 0.002
Uranium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.009	0.006
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D	MW20-UB12D (2)	MW20-UB12D (2	MW20-UB12D (2)
2022-05-17	2022-06-13	2022-07-21	2022-08-15	2022-09-19	2022-10-17	2023-05-09	2023-08-16	2023-10-30
6.1	6.6	6.4	6.5	6.5	6.3	6.2	6.5	5.9
7.69	7.61	7.57	7.6	7.53	7.53	7.61	7.54	7.52
324	335	324	336	332	330	327	288	324
2.37	2.77	2.72	2.44	3.08	2.14	2.0	2.43	3.15
7.6	-12.5	-8.6	28.4	4.4	63.9	116	-	-
-	-	-	-	-	-	8.02	7.8	7.69
155	179	185	-	-	-	160	178	163
167	183	171	-	-	-	177	173	167
-	6.0	-	-	-	-	5.0	6.8	8.0
174	194	192	-	-	-	170	220	178
308	207	588	-	-	-	526	572	134
-	-	-	-	-	-	-	158	202
-	-	-	-	-	-	1.06	1.28	1.22
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
7.78	8.38	8.42	-	-	-	7.71	7.89	7.68
0.08	0.03	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
0.013	0.029	0.078	-	-	-	0.011	0.012	< 0.004
< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
< 0.001	< 0.001	0.001	-	-	-	0.002	0.001	0.001
0.071	0.082	0.08	-	-	-	0.062	0.073	0.076
< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.01	0.012	0.012	-	-	-	0.012	< 0.010	0.013
< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
45.2	51.7	55.6	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
0.002	< 0.001	< 0.001	-	-	-	0.001	< 0.001	< 0.001
0.087	0.078	0.109	-	-	-	0.181	0.116	0.044
< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
10.2	12.0	11.2	-	-	-	11.1	12.3	10.9
0.292	0.344	0.313	-	-	-	0.31	0.302	0.304
< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.001	0.001	< 0.001	-	-	-	0.007	< 0.001	< 0.001
-	-	-	-	-	-	-	-	-
-	0.9	1.07	-	-	-	-	-	-
< 0.001	< 0.001	0.001	-	-	-	< 0.001	< 0.001	< 0.001
7.11	7.45	7.48	-	-	-	7.02	6.94	6.96
< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
4.24	4.37	4.68	-	-	-	0.133	0.137	0.141
0.119	0.139	0.135	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	0.003	0.006	-	-	-	< 0.002	< 0.002	< 0.002
< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.005	0.008	< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.		MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S
Sampling Date	**Unit**	**2021-04-28**	**2021-05-19**	**2021-06-15**	**2021-07-21**	**2021-08-17**	**2021-09-13**	**2021-10-12**	**2021-11-16**	**2021-12-13**	**2022-04-19**	**2022-05-17**	**2022-06-13**
Field Measured													
Temperature Field	°C	6.0	6.5	5.2	6.9	7.5	7.6	8.0	6.9	6.9	5.6	6.3	6.1
pH Field	pH units	7.67	7.71	7.72	7.86	7.69	7.78	7.72	7.92	7.71	7.64	7.72	7.89
Conductivity Field	µS/cm	301	325	315	326	317	266	391	216	321	304	208	317
Dissolved Oxygen Field	mg/L	3.61	4.95	2.77	3.63	1.8	2.78	3.29	4.65	3.63	5.15	4.54	3.29
Oxidation-Reduction Potential Field	mV	-45.2	45.7	7.2	-18.6	-31.9	-2.3	-49.0	-37.1	-1.7	41.1	57.1	9.1
Conventional Parameters													
pH	pH units	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	173	172	163	166	164	175	169	167	173	162	167	188
Alkalinity, Total (as CaCO3)	mg/L	167	173	192	175	181	173	173	175	181	164	172	189
Acidity (as CaCO3)	mg/L	< 2	-	-	-	-	-	-	-	-	7.0	-	6.0
Total Dissolved Solids	mg/L	206	190	192	204	212	178	212	198	192	204	194	204
Total Suspended Solids	mg/L	5380	39800	37600	49000	36200	17500	2130	12800	6560	17300	10800	22500
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	< 1	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.005	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	0.1	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	8.0	9.88	9.6	9.71	9.4	9.51	10.2	9.61	8.93	8.96	9.56	9.9
Nutrients													
Ammonia, Total (as N)	mg/L	< 0.1	0.02	< 0.02	0.03	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	< 0.06	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.03	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.002	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	< 0.06	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.002	0.136	0.057	0.113	0.021	< 0.004	0.033	< 0.004	0.08	0.006	0.078	0.01
Antimony - Dissolved	mg/L	< 0.0009	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.0013	< 0.003	0.003	< 0.003	0.003	< 0.003	< 0.003	0.001	0.001	< 0.001	< 0.001	0.002
Barium - Dissolved	mg/L	0.032	0.028	0.029	0.029	0.027	0.031	0.03	0.027	0.032	0.028	0.024	0.029
Beryllium - Dissolved	mg/L	< 0.000007	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.00001	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.005	< 0.01	< 0.01	< 0.01	0.01	0.011	< 0.01	< 0.01	< 0.01	0.011	< 0.01	< 0.01
Cadmium - Dissolved	mg/L	< 0.000003	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001
Calcium - Dissolved	mg/L	49.5	-	-	-	-	-	47.8	-	-	46.1	47.1	53.7
Chromium - Dissolved	mg/L	< 0.00008	< 0.003	< 0.003	< 0.003	0.003	< 0.003	0.019	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00021	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	< 0.0002	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001	0.001	< 0.001
Iron - Dissolved	mg/L	0.036	0.216	0.031	0.205	0.052	< 0.01	0.139	0.091	< 0.01	0.049	0.117	0.073
Lead - Dissolved	mg/L	< 0.00009	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	0.0011	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	12.1	-	-	-	-	-	12.0	-	-	11.4	11.9	13.1
Manganese - Dissolved	mg/L	0.166	0.139	0.158	0.146	0.124	0.14	0.136	0.112	0.111	0.115	0.076	0.117
Mercury - Dissolved	mg/L	< 0.00001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.00089	< 0.002	0.003	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.0002	< 0.003	< 0.003	< 0.003	0.003	< 0.003	0.011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	0.008	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	0.695	-	-	-	-	-	-	-	-	-	-	0.7
Selenium - Dissolved	mg/L	< 0.00004	< 0.004	< 0.004	< 0.004	0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	6.56	6.22	6.21	7.36	6.53	7.49	7.1	6.95	7.05	6.55	6.59	6.98
Silver - Dissolved	mg/L	< 0.00005	< 0.0001	0.0002	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	3.0	-	-	-	-	-	-	-	-	2.98	3.09	3.02
Strontium - Dissolved	mg/L	0.0626	0.055	0.074	0.059	0.049	0.057	0.058	0.059	0.06	0.058	0.047	0.059
Thallium - Dissolved	mg/L	< 0.000005	< 0.0003	< 0.0003	< 0.0003	0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.00006	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	0.00008	0.006	0.011	< 0.002	0.002	0.002	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.000291	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.00053	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	< 0.002	< 0.005	< 0.005	< 0.005	0.005	< 0.005	0.045	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.002	< 0.004	< 0.004	< 0.004	0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S	MW20-UB12S (2)	MW20-UB12S (2)	MW20-UB12S (2)
2022-07-21	2022-08-15	2022-09-19	2022-10-17	2023-05-09	2023-08-16	2023-10-30
6.5	7.0	7.1	7.2	6.1	6.9	6.9
7.66	7.61	7.6	7.56	7.68	7.78	7.52
312	333	336	333	323	281	325
4.38	4.48	5.56	5.45	4.84	5.19	4.48
19.9	74.1	76.5	136	122	-	-
-	-	-	-	8.04	7.79	7.75
228	-	-	-	167	194	173
175	-	-	-	196	180	172
-	-	-	-	< 5.0	8.9	7.9
196	-	-	-	186	254	194
16600	-	-	-	19900	13100	21000
-	-	-	-	-	124	193
-	-	-	-	0.45	0.65	0.61
< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
11.0	-	-	-	9.34	9.18	8.88
< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-
-	-	-	-	-	-	-
0.325	-	-	-	< 0.004	0.012	0.013
< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.039	-	-	-	0.027	0.032	0.03
< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	-	-	-	< 0.002	< 0.010	< 0.002
< 0.01	-	-	-	< 0.010	< 0.010	< 0.010
< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
65.8	-	-	-	-	-	-
< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
0.002	-	-	-	< 0.001	0.001	< 0.001
0.443	-	-	-	0.024	0.016	0.02
< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
15.4	-	-	-	12.1	13.8	12.6
0.119	-	-	-	0.089	0.091	0.085
< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.001	-	-	-	< 0.001	< 0.001	< 0.001
-	-	-	-	-	-	-
0.94	-	-	-	-	-	-
< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
7.27	-	-	-	6.62	6.72	6.69
< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
3.45	-	-	-	0.05	0.054	0.057
0.06	-	-	-	-	-	-
< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.019	-	-	-	< 0.002	< 0.002	< 0.002
< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.		MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D
Sampling Date	**Unit**	**2021-04-27**	**2021-05-20**	**2021-06-15**	**2021-07-21**	**2021-08-18**	**2021-09-14**	**2021-10-13**	**2021-11-16**	**2021-12-14**	**2022-01-28**	**2022-02-15**	**2022-03-17**
Field Measured													
Temperature Field	°C	5.6	8.9	6.9	10.5	10.6	10.9	10.9	8.3	7.1	6.0	5.3	5.0
pH Field	pH units	7.93	8.49	7.96	7.85	7.87	7.77	7.61	7.9	7.6	7.7	7.77	8.15
Conductivity Field	µS/cm	299	320	368	328	320	324	382	319	312	311	298	283
Dissolved Oxygen Field	mg/L	8.89	6.51	6.21	6.74	7.08	6.52	7.42	7.77	7.42	9.13	9.68	10.21
Oxidation-Reduction Potential Field	mV	72.7	27.8	282	119	127	227	213	133	189	127	185	78.8
Conventional Parameters													
pH	pH units	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	116	124	131	130	131	125	118	119	117	113	118
Alkalinity, Total (as CaCO3)	mg/L	-	138	163	155	168	149	146	147	143	149	132	149
Acidity (as CaCO3)	mg/L	-	-	-	-	-	-	-	-	-	15.0	5.0	15.0
Total Dissolved Solids	mg/L	-	182	184	198	192	198	190	176	160	130	138	170
Total Suspended Solids	mg/L	-	< 10	34.0	50.0	32.0	36.0	17.0	12.0	70.0	17.0	17.0	19.0
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	0.18	0.19	0.13	0.6	0.16	0.17	0.14	< 0.05	0.18	0.18	0.14
Sulphate	mg/L	-	22.6	19.4	18.1	18.3	18.9	18.7	15.4	13.6	14.2	13.5	13.6
Nutrients													
Ammonia, Total (as N)	mg/L	-	< 0.02	< 0.02	< 0.02	< 0.02	0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	-	< 0.05	< 0.05	< 0.05	0.14	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	-	< 0.004	0.01	0.011	0.022	0.004	0.007	0.004	0.026	0.009	0.004	0.059
Antimony - Dissolved	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.001	0.001	< 0.001	< 0.001	0.001
Barium - Dissolved	mg/L	-	0.033	0.035	0.037	0.038	0.039	0.036	0.042	0.037	0.036	0.034	0.04
Beryllium - Dissolved	mg/L	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	-	0.105	0.102	0.109	0.123	0.128	0.122	0.134	0.131	0.139	0.159	0.13
Cadmium - Dissolved	mg/L	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	34.1	-	-	-	-	35.2	-	-	-	-	32.2
Chromium - Dissolved	mg/L	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	-	0.003	0.002	0.001	0.002	0.001	0.003	0.001	0.001	0.003	0.002	0.001
Iron - Dissolved	mg/L	-	0.026	0.011	< 0.01	0.01	< 0.01	< 0.01	0.013	< 0.01	0.012	< 0.01	< 0.01
Lead - Dissolved	mg/L	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	7.56	-	-	-	-	9.01	-	-	-	-	9.15
Manganese - Dissolved	mg/L	-	0.159	0.046	0.007	0.003	0.004	0.019	0.028	0.033	0.017	0.019	< 0.002
Mercury - Dissolved	mg/L	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	-	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.004	0.003	0.004
Nickel - Dissolved	mg/L	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.002	< 0.001	< 0.001	0.002	0.002
Phosphorus - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	1.75	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	-	6.61	6.43	7.53	7.65	7.54	7.41	7.82	7.45	7.4	7.31	7.83
Silver - Dissolved	mg/L	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	15.1	-	-	-	-	-	-	-	-	-	14.1
Strontium - Dissolved	mg/L	-	0.219	0.252	0.289	0.266	0.291	0.319	0.389	0.362	0.263	0.274	0.385
Thallium - Dissolved	mg/L	-	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002
Uranium - Dissolved	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.0013	0.0012	0.001	0.0013	0.0014
Vanadium - Dissolved	mg/L	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005
Zirconium - Dissolved	mg/L	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D	MW20-UB13D (2	MW20-UB13D (2	MW20-UB13D (2
2022-04-20	2022-05-16	2022-06-14	2022-07-20	2022-08-16	2022-09-20	2022-10-18	2023-05-11	2023-08-17	2023-11-01
3.9	6.5	7.4	10.1	10.4	10.3	9.3	5.5	10.3	8.5
7.89	7.95	7.74	7.86	7.78	7.69	7.72	7.8	7.65	7.66
300	286	284	271	296	300	305	299	247	304
7.88	6.93	10.18	7.67	9.29	6.8	8.81	6.21	7.72	7.65
294	270	108	131	196	224	212	284	-	-
-	-	-	-	-	-	-	8.13	7.72	7.69
123	125	93.0	134	-	-	-	125	107	138
144	142	145	138	-	-	-	150	148	147
19.0	5.0	-	-	-	-	-	10.9	6.2	7.0
172	176	174	176	-	-	-	134	182	168
19.0	< 10	< 10	< 10	-	-	-	< 10	< 10	40.0
-	-	-	-	-	-	-	-	274	215
-	-	-	-	-	-	-	2.17	2.5	2.65
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.15	0.12	< 0.05	< 0.05	-	-	-	0.12	< 0.05	< 0.05
13.7	13.8	12.7	14.1	-	-	-	14.4	12.2	11.9
< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
0.014	0.014	0.005	0.018	-	-	-	0.006	0.006	0.009
< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	0.002	0.013	0.001
0.039	0.036	0.031	0.035	-	-	-	0.042	0.047	0.045
< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.14	0.125	0.082	0.112	-	-	-	0.103	0.094	0.143
< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
34.2	34.0	27.5	35.5	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
0.001	0.002	0.001	0.001	-	-	-	< 0.001	< 0.001	0.001
< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.010	0.016	< 0.010
< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
9.11	9.65	5.92	11.1	-	-	-	9.8	8.49	12.5
< 0.002	0.002	< 0.002	0.002	-	-	-	< 0.002	0.014	< 0.002
< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
0.003	0.003	< 0.002	0.002	-	-	-	0.002	0.003	0.002
< 0.001	0.001	0.002	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
-	-	-	-	-	-	-	-	-	-
-	-	0.31	1.48	-	-	-	-	-	-
< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
7.53	7.73	8.38	8.9	-	-	-	8.77	8.6	9.51
< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
14.1	14.1	13.4	14.9	-	-	-	0.422	0.454	0.501
0.351	0.355	0.365	0.407	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	0.003
0.0014	0.0014	0.0011	0.0012	-	-	-	0.0012	0.0011	0.0009
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.005	< 0.005	0.005	0.006	-	-	-	0.009	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D
Sampling Date	**Unit**	**WQG PAL[1]**	**2021-04-28**	**2021-05-20**	**2021-06-16**	**2021-07-22**	**2021-08-19**	**2021-09-15**	**2021-10-14**	**2021-11-16**	**2021-12-14**	**2022-01-28**	**2022-04-20**	**2022-05-16**
Field Measured														
Temperature Field	°C	-	6.2	12.0	11.5	8.1	9.4	9.9	9.8	5.9	6.1	1.8	5.6	7.9
pH Field	pH units	6.5-8.5	6.74	7.71	7.19	7.02	6.93	7.4	7.04	7.29	7.29	7.39	6.55	6.66
Conductivity Field	µS/cm	-	326	358	437	379	331	333	440	348	327	317	308	283
Dissolved Oxygen Field	mg/L	-	7.32	8.07	9.04	6.28	8.17	9.88	7.48	10.06	8.73	11.56	7.78	6.21
Oxidation-Reduction Potential Field	mV	-	199	101	204	113	202	95.3	105	146	152	109	299	295
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	161	166	190	157	167	172	159	147	155	164	133	131
Alkalinity, Total (as CaCO3)	mg/L	-	177	177	216	183	202	181	202	191	192	182	126	134
Acidity (as CaCO3)	mg/L	-	< 2	-	-	-	-	-	-	-	-	25.0	28.0	18.0
Total Dissolved Solids	mg/L	-	217	202	190	244	234	192	204	232	214	184	160	162
Total Suspended Solids	mg/L	-	301	89.0	104	101	82.0	44.0	54.0	63.0	58.0	58.0	26.0	30.0
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	4.0	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	218	4.0	5.92	7.67	6.26	6.32	7.38	7.03	6.36	6.29	6.4	5.64	5.72
Nutrients														
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	0.15	0.13	0.12	0.14	0.13	0.11	0.15	0.16	0.19	0.25	0.55	0.65
Nitrite (as N)	mg/L	0.06	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	< 0.001	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	0.15	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	0.002	0.017	0.085	0.013	0.312	< 0.004	0.01	< 0.004	< 0.004	0.007	0.055	0.004
Antimony - Dissolved	mg/L	0.02	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	< 0.0002	< 0.003	< 0.001	< 0.003	0.017	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Barium - Dissolved	mg/L	-	0.0156	0.019	0.017	0.013	0.022	0.018	0.018	0.016	0.024	0.015	0.01	0.01
Beryllium - Dissolved	mg/L	0.011	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	0.005	< 0.01	< 0.01	< 0.01	< 0.01	0.011	< 0.01	0.017	0.011	< 0.01	< 0.01	< 0.01
Cadmium - Dissolved	mg/L	0.0001	0.000016	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	51.6	-	-	-	-	-	49.7	-	-	-	40.7	41.2
Chromium - Dissolved	mg/L	0.0089	0.0004	< 0.003	< 0.002	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	0.000056	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	0.0016	0.004	0.004	0.003	0.007	0.003	0.004	0.003	0.003	0.002	0.004	0.003
Iron - Dissolved	mg/L	1	< 0.007	0.017	< 0.01	< 0.01	0.699	0.079	< 0.01	0.094	< 0.01	0.013	0.067	< 0.01
Lead - Dissolved	mg/L	0.003	< 0.00009	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	-	0.0015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	7.86	-	-	-	-	-	8.39	-	-	-	7.55	6.95
Manganese - Dissolved	mg/L	-	0.0182	0.016	0.013	0.013	0.077	0.021	0.011	0.012	0.005	0.005	0.019	0.004
Mercury - Dissolved	mg/L	0.000026	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00067	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.025	0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	0.03	0.004	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	0.364	-	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	0.00008	< 0.004	0.001	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	0.002	< 0.001	< 0.001
Silicon - Dissolved	mg/L	-	9.38	9.82	10.8	10.4	10.7	10.4	10.3	10.4	11.8	10.1	9.81	9.61
Silver - Dissolved	mg/L	0.00025	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0004	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	4.48	-	-	-	-	-	-	-	-	-	4.51	4.14
Strontium - Dissolved	mg/L	2.5	0.0736	0.08	0.086	0.076	0.071	0.084	0.075	0.077	0.08	0.065	0.056	0.053
Thallium - Dissolved	mg/L	0.0008	0.000009	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	0.00007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	0.00014	0.006	< 0.002	< 0.002	0.044	< 0.002	< 0.002	0.004	< 0.002	< 0.002	0.003	< 0.002
Uranium - Dissolved	mg/L	0.015	0.000192	< 0.002	< 0.0005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.12	0.00106	< 0.002	< 0.002	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	0.004	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:

1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4

- value not available

Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D	MW20-UB14D (2)	MW20-UB14D (2)
2022-06-14	2022-07-20	2022-08-17	2022-09-20	2022-10-18	2023-05-09	2023-11-10
8.6	8.7	8.3	7.5	7.1	7.6	6.3
7.15	6.84	6.89	6.89	6.48	6.73	7.31
344	315	302	312	135	283	276
5.12	7.83	9.94	8.33	6.57	8.98	8.73
60.4	183	177	217	261	254	-
-	-	-	-	-	7.61	7.14
104	150	-	-	-	131	123
140	132	-	-	-	136	141
14.0	7.4	-	-	-	12.0	22.5
154	182	-	-	-	142	148
43.0	54.0	-	-	-	23.0	20.0
-	-	-	-	-	-	183
-	-	-	-	-	1.29	1.24
< 0.002	< 0.002	-	-	-	< 0.002	< 0.002
< 0.002	< 0.002	-	-	-	< 0.002	< 0.002
< 0.05	< 0.05	-	-	-	< 0.05	< 0.05
5.97	6.12	-	-	-	9.4	9.09
< 0.02	< 0.02	-	-	-	< 0.02	< 0.02
0.74	0.9	-	-	-	0.63	0.45
< 0.02	< 0.02	-	-	-	< 0.02	< 0.02
-	-	-	-	-	-	-
-	-	-	-	-	-	-
0.036	0.009	-	-	-	0.01	0.007
< 0.001	< 0.001	-	-	-	< 0.001	< 0.001
< 0.001	0.004	-	-	-	< 0.001	< 0.001
0.008	0.012	-	-	-	0.007	0.005
< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005
< 0.002	< 0.002	-	-	-	< 0.002	< 0.002
< 0.01	< 0.01	-	-	-	< 0.010	0.013
< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001
30.4	46.7	-	-	-	-	-
< 0.003	< 0.003	-	-	-	< 0.003	< 0.003
< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005
0.003	0.002	-	-	-	0.002	0.003
0.015	0.015	-	-	-	< 0.010	< 0.010
< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005
< 0.01	< 0.01	-	-	-	< 0.050	< 0.050
6.87	8.02	-	-	-	8.04	7.36
0.007	0.004	-	-	-	0.003	< 0.002
< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001
0.003	< 0.002	-	-	-	< 0.002	0.002
0.001	0.001	-	-	-	< 0.001	< 0.001
-	-	-	-	-	-	-
< 0.05	0.36	-	-	-	-	-
< 0.001	< 0.001	-	-	-	< 0.001	< 0.001
10.3	10.5	-	-	-	9.66	10.2
< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001
4.22	4.9	-	-	-	0.055	0.053
0.058	0.065	-	-	-	-	-
< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003
< 0.002	< 0.002	-	-	-	< 0.002	< 0.002
< 0.002	0.003	-	-	-	< 0.002	< 0.002
< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005
< 0.002	< 0.002	-	-	-	< 0.002	< 0.002
< 0.005	0.008	-	-	-	< 0.005	< 0.005
< 0.004	< 0.004	-	-	-	< 0.004	< 0.004

Monitoring Well ID.			MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S
Sampling Date	**Unit**	**WQG PAL[1]**	**2021-04-28**	**2021-05-20**	**2021-06-16**	**2021-07-22**	**2021-08-19**	**2021-10-14**	**2021-11-16**	**2021-12-14**	**2022-04-20**	**2022-05-16**	**2022-06-14**	**2022-07-20**
Field Measured														
Temperature Field	°C	-	5.8	19.6	16.5	9.7	12.6	10.8	6.7	6.8	4.4	8.4	9.5	11.1
pH Field	pH units	6.5-8.5	6.69	7.88	6.96	7.09	6.81	6.88	7.16	7.45	6.97	6.75	7.7	7.0
Conductivity Field	µS/cm	-	333	343	326	320	319	385	216	285	343	302	296	300
Dissolved Oxygen Field	mg/L	-	7.13	9.29	7.64	7.75	6.92	6.75	9.17	9.9	8.81	8.37	9.29	9.16
Oxidation-Reduction Potential Field	mV	-	205	67.5	203	120	220	106	137	150	294	296	69.9	162
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	150	172	145	154	143	155	153	129	146	135	112	147
Alkalinity, Total (as CaCO3)	mg/L	-	149	147	154	165	159	184	168	140	142	145	159	141
Acidity (as CaCO3)	mg/L	-	< 2	-	-	-	-	-	-	-	63.0	30.0	21.0	8.1
Total Dissolved Solids	mg/L	-	194	180	145	296	210	178	200	152	182	154	164	182
Total Suspended Solids	mg/L	-	120	93.0	93.0	99.0	152	78.0	40.0	37.0	26.0	14.0	45.0	48.0
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	6.0	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	218	7.0	7.5	8.1	7.42	7.36	8.04	6.76	6.97	6.39	6.47	6.94	7.39
Nutrients														
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	0.12	0.09	0.12	0.11	0.11	0.13	< 0.05	0.14	0.52	0.43	0.52	0.45
Nitrite (as N)	mg/L	0.06	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	< 0.001	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	0.12	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	0.007	0.025	0.015	0.016	0.012	0.009	< 0.004	< 0.004	0.02	0.009	0.016	0.022
Antimony - Dissolved	mg/L	0.02	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	< 0.0002	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001
Barium - Dissolved	mg/L	-	0.0172	0.015	0.011	0.012	0.011	0.016	0.017	0.019	0.012	0.013	0.011	0.013
Beryllium - Dissolved	mg/L	0.011	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	0.006	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.015	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium - Dissolved	mg/L	0.0001	0.000087	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	48.2	-	-	-	-	48.7	-	-	46.2	41.9	33.7	45.3
Chromium - Dissolved	mg/L	0.0089	0.00027	< 0.003	< 0.002	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	0.0112	0.0076	0.0032	0.0078	0.0032	0.004	0.0022	0.0011	0.0016	0.0017	0.0013	0.0008
Copper - Dissolved	mg/L	0.005	0.0053	0.007	0.003	0.006	0.005	0.006	0.004	0.005	0.003	0.004	0.004	0.003
Iron - Dissolved	mg/L	1	0.012	0.035	< 0.01	< 0.01	0.012	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.013
Lead - Dissolved	mg/L	0.003	< 0.00009	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	-	0.0018	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	7.13	-	-	-	-	8.18	-	-	7.5	7.27	6.83	8.14
Manganese - Dissolved	mg/L	-	0.0502	0.046	0.029	0.042	0.028	0.028	0.025	0.014	0.011	0.014	0.014	0.012
Mercury - Dissolved	mg/L	0.000026	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00223	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.025	0.0013	0.005	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001
Phosphorus - Dissolved	mg/L	0.03	0.004	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	0.339	-	-	-	-	-	-	-	-	-	0.11	0.31
Selenium - Dissolved	mg/L	0.002	0.00007	< 0.004	< 0.001	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	-	9.63	11.2	10.6	11.9	10.2	10.6	11.1	9.67	10.0	10.2	10.9	10.9
Silver - Dissolved	mg/L	0.00025	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	4.48	-	-	-	-	-	-	-	4.72	4.88	4.98	5.47
Strontium - Dissolved	mg/L	2.5	0.0598	0.069	0.06	0.063	0.057	0.058	0.061	0.054	0.048	0.047	0.05	0.047
Thallium - Dissolved	mg/L	0.0008	0.000006	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	0.00013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	0.00015	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002
Uranium - Dissolved	mg/L	0.015	0.000084	< 0.002	< 0.0005	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.12	0.00057	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	0.012	< 0.005	0.005	0.007	< 0.005	0.006	0.006	0.012	0.005	< 0.005	0.005	0.006
Zirconium - Dissolved	mg/L	0.004	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:

1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4

- value not available

Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB14S	MW20-UB14S	MW20-UB14S	MW20-UB14S (2)	MW20-UB14S (2)
2022-08-17	2022-09-20	2022-10-18	2023-05-09	2023-11-09
9.8	9.1	7.9	8.7	4.8
7.57	7.3	6.61	7.58	7.14
319	315	284	287	284
9.91	8.63	8.48	10.26	10.95
157	224	244	248	-
-	-	-	7.54	7.11
-	-	-	126	121
-	-	-	139	145
-	-	-	17.4	20.0
-	-	-	156	154
-	-	-	46.0	33.0
-	-	-	-	232
-	-	-	1.57	1.54
-	-	-	< 0.002	< 0.002
-	-	-	< 0.002	< 0.002
-	-	-	< 0.05	< 0.05
-	-	-	8.77	9.65
-	-	-	< 0.02	< 0.02
-	-	-	0.38	0.32
-	-	-	< 0.02	< 0.02
-	-	-	-	-
-	-	-	-	-
-	-	-	0.008	0.011
-	-	-	< 0.001	< 0.001
-	-	-	< 0.001	< 0.001
-	-	-	0.01	0.009
-	-	-	< 0.0005	< 0.0005
-	-	-	< 0.002	< 0.002
-	-	-	< 0.0005	< 0.0005
-	-	-	< 0.002	< 0.002
-	-	-	< 0.010	0.015
-	-	-	< 0.0001	< 0.0001
-	-	-	-	-
-	-	-	< 0.003	< 0.003
-	-	-	0.0006	0.0005
-	-	-	0.002	0.003
-	-	-	< 0.010	< 0.010
-	-	-	< 0.0005	< 0.0005
-	-	-	< 0.050	< 0.050
-	-	-	6.96	6.54
-	-	-	0.005	0.005
-	-	-	< 0.0001	< 0.0001
-	-	-	< 0.002	< 0.002
-	-	-	< 0.001	< 0.001
-	-	-	-	-
-	-	-	-	-
-	-	-	< 0.001	< 0.001
-	-	-	10.2	10.8
-	-	-	< 0.0001	< 0.0001
-	-	-	0.048	0.052
-	-	-	-	-
-	-	-	< 0.0003	< 0.0003
-	-	-	< 0.002	< 0.002
-	-	-	< 0.002	< 0.002
-	-	-	< 0.0005	< 0.0005
-	-	-	< 0.002	< 0.002
-	-	-	< 0.005	0.009
-	-	-	< 0.004	< 0.004

Monitoring Well ID.			MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15
Sampling Date	**Unit**	**WQG PAL[1]**	**2021-04-28**	**2021-05-19**	**2021-06-15**	**2021-07-22**	**2021-08-18**	**2021-09-14**	**2021-10-14**	**2021-11-18**	**2021-12-15**	**2022-02-01**	**2022-02-16**
Field Measured													
Temperature Field	°C	-	5.3	6.0	4.7	5.6	5.9	5.6	5.9	5.1	5.0	4.7	4.9
pH Field	pH units	6.5-8.5	8.09	8.05	8.13	8.4	8.24	8.08	8.62	8.35	8.1	8.16	8.24
Conductivity Field	µS/cm	-	212	278	260	246	248	242	245	206	255	245	237
Dissolved Oxygen Field	mg/L	-	0.88	1.47	0.81	1.61	1.08	1.02	1.56	1.02	0.91	1.87	0.92
Oxidation-Reduction Potential Field	mV	-	-	-	-	-	-	-	-	-	128	-	-
Conventional Parameters													
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	163	129	673	194	126	127	133	129	257	118	539
Alkalinity, Total (as CaCO3)	mg/L	-	151	188	165	149	146	130	133	142	152	142	130
Acidity (as CaCO3)	mg/L	-	< 2	-	-	-	-	-	-	-	-	15.0	10.0
Total Dissolved Solids	mg/L	-	169	170	172	176	198	194	158	204	180	276	100
Total Suspended Solids	mg/L	-	50600	152000	67500	55100	114000	63600	59100	53000	57400	51800	66000
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	150	< 1	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	0.16	0.09	0.18	< 0.05	0.09	< 0.05	< 0.05	< 0.05	< 0.05	0.11	0.13
Sulphate	mg/L	218	8.0	9.3	7.98	8.2	5.68	7.76	8.39	7.79	7.3	6.14	6.32
Nutrients													
Ammonia, Total (as N)	mg/L	-	0.2	0.11	0.07	0.09	0.12	0.1	0.05	0.07	0.09	0.12	0.11
Nitrate (as N)	mg/L	2.94	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	0.016	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	< 0.06	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.36	0.424	0.008	3.32	0.401	0.076	0.004	0.013	0.012	1.11	0.013	2.23
Antimony - Dissolved	mg/L	0.02	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0033	< 0.003	0.014	< 0.003	0.009	0.004	< 0.003	0.003	0.005	0.004	0.006
Barium - Dissolved	mg/L	-	0.032	0.02	0.085	0.028	0.029	0.027	0.023	0.022	0.04	0.023	0.065
Beryllium - Dissolved	mg/L	0.011	0.000013	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	0.011	0.013	0.027	0.014	0.015	0.013	< 0.01	0.012	0.017	0.011	0.029
Cadmium - Dissolved	mg/L	0.0001	0.000017	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	45.6	-	-	-	-	-	36.3	-	-	-	-
Chromium - Dissolved	mg/L	0.0089	0.0018	< 0.003	0.011	< 0.003	0.003	< 0.003	< 0.003	< 0.003	0.003	< 0.003	0.008
Cobalt - Dissolved	mg/L	0.00078	0.00095	< 0.0005	0.0052	0.0007	0.0005	< 0.0005	< 0.0005	< 0.0005	0.0017	< 0.0005	0.0034
Copper - Dissolved	mg/L	0.005	0.0014	< 0.001	0.005	0.003	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	0.006
Iron - Dissolved	mg/L	1	0.915	0.215	7.99	0.98	0.463	0.285	0.232	0.265	2.43	0.206	5.2
Lead - Dissolved	mg/L	0.003	0.00047	< 0.001	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	0.0012	< 0.0005	0.0026
Lithium - Dissolved	mg/L	-	0.0019	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	11.9	-	-	-	-	-	10.3	-	-	-	-
Manganese - Dissolved	mg/L	-	0.206	0.186	0.703	0.223	0.215	0.233	0.207	0.205	0.357	0.181	0.529
Mercury - Dissolved	mg/L	0.000026	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.0027	0.004	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.025	0.002	< 0.003	0.013	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	0.003	0.001	0.008
Phosphorus - Dissolved	mg/L	0.03	0.159	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	1.73	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	< 0.00004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	0.002
Silicon - Dissolved	mg/L	-	6.76	6.05	11.0	8.03	7.22	7.52	6.73	6.7	7.84	6.72	9.2
Silver - Dissolved	mg/L	0.00025	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	6.92	-	-	-	-	-	-	-	-	-	-
Strontium - Dissolved	mg/L	2.5	0.252	0.215	0.395	0.217	0.23	0.249	0.198	0.194	0.268	0.222	0.298
Thallium - Dissolved	mg/L	0.0008	0.000007	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	0.00006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	0.024	0.007	0.02	0.022	0.015	< 0.002	< 0.002	< 0.002	0.037	< 0.002	0.023
Uranium - Dissolved	mg/L	0.015	0.00033	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	0.0007
Vanadium - Dissolved	mg/L	0.12	0.00172	< 0.002	0.013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.004	< 0.002	0.009
Zinc - Dissolved	mg/L	0.023	0.003	< 0.005	0.018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	0.016
Zirconium - Dissolved	mg/L	0.004	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15	MW20-UB15 (2)	MW20-UB15 (2)	MW20-UB15 (2)
2022-03-16	2022-04-20	2022-05-19	2022-06-14	2022-07-18	2022-08-18	2022-09-20	2022-10-18	2023-05-09	2023-08-22	2023-11-02
5.2	5.4	5.7	6.0	6.7	6.0	5.8	5.4	5.8	6.2	5.2
8.34	8.33	8.4	8.35	8.08	8.26	8.08	8.08	8.22	8.44	8.19
157	138	158	246	226	246	245	219	235	159	225
0.84	1.24	2.13	3.47	0.53	1.15	1.56	0.61	0.41	1.02	1.32
-	-	-	-	-	-	-	-	-34.1	-	-
-	-	-	-	-	-	-	-	7.88	8.02	7.63
114	116	105	138	165	-	-	-	119	142	134
137	130	130	137	155	-	-	-	121	140	136
10.0	5.0	-	-	-	-	-	-	< 5.0	< 5.0	< 5.0
194	270	152	148	172	-	-	-	140	368	120
65600	91200	129000	69800	103000	-	-	-	72200	60800	87800
-	-	-	-	-	-	-	-	-	844	-2.8
-	-	-	-	-	-	-	-	0.26	0.45	0.43
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	0.01	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.1	< 0.05	0.08	< 0.05	< 0.05	-	-	-	0.1	< 0.05	< 0.05
5.92	6.34	5.86	6.4	6.62	-	-	-	4.92	5.73	6.45
0.13	0.05	0.14	0.09	0.05	-	-	-	0.18	0.12	0.1
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
0.059	0.093	0.033	0.58	0.255	-	-	-	0.185	0.01	0.004
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.005	0.005	0.004	0.009	0.004	-	-	-	0.007	< 0.001	0.005
0.02	0.019	0.021	0.025	0.025	-	-	-	0.019	0.021	0.047
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.01	0.012	0.015	< 0.01	0.016	-	-	-	0.014	0.016	0.013
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
32.8	33.1	30.3	38.3	46.2	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	0.0008	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.001	< 0.001	0.002	< 0.001	0.001	-	-	-	< 0.001	< 0.001	0.003
0.222	0.269	0.182	1.24	0.538	-	-	-	0.462	0.235	0.02
< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
7.82	8.09	7.2	10.3	12.0	-	-	-	8.71	9.22	9.24
0.169	0.167	0.156	0.219	0.164	-	-	-	0.147	0.148	0.08
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	0.003	< 0.002	< 0.002	-	-	-	< 0.002	0.002	< 0.002
< 0.001	< 0.001	< 0.001	0.003	0.001	-	-	-	0.001	< 0.001	0.002
-	-	-	-	-	-	-	-	-	-	-
-	-	-	0.91	1.62	-	-	-	-	-	-
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
6.82	6.7	6.32	7.64	7.44	-	-	-	6.91	6.7	5.39
< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
8.28	6.96	6.68	6.83	7.38	-	-	-	0.202	0.225	0.252
0.236	0.199	0.229	0.216	0.237	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.006	0.003	0.005	0.036	0.011	-	-	-	0.011	< 0.002	< 0.002
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	0.0017
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	0.007
< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D
Sampling Date	**Unit**	**WQG PAL[1]**	**2021-04-30**	**2021-05-19**	**2021-06-15**	**2021-07-22**	**2021-08-18**	**2021-09-13**	**2021-10-12**	**2021-11-18**	**2021-12-15**	**2022-02-01**	**2022-04-20**
Field Measured													
Temperature Field	°C	-	4.5	5.5	4.4	5.2	5.5	5.2	5.6	4.7	4.5	4.3	4.6
pH Field	pH units	6.5-8.5	7.82	7.8	7.89	8.07	8.11	8.08	8.24	8.2	8.21	8.11	8.1
Conductivity Field	µS/cm	-	367	366	375	370	367	359	422	360	362	358	367
Dissolved Oxygen Field	mg/L	-	0.51	1.01	1.0	0.58	1.4	1.7	1.6	1.59	0.89	1.55	1.9
Oxidation-Reduction Potential Field	mV	-	-	-	-	-	-	-	-	-	33.4	-	-
Conventional Parameters													
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	-	157	157	166	164	162	166	170	171	176	173
Alkalinity, Total (as CaCO3)	mg/L	-	-	185	211	192	204	190	192	185	201	202	194
Acidity (as CaCO3)	mg/L	-	-	-	-	-	-	-	-	-	-	10.0	5.0
Total Dissolved Solids	mg/L	-	-	194	192	214	202	184	176	216	196	192	194
Total Suspended Solids	mg/L	-	-	12.0	< 10	< 10	59.0	58.0	19.0	50.0	225	31.0	82.0
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	150	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	< 0.05	< 0.05	< 0.05	0.07	0.25	0.09	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	218	-	7.67	7.84	6.69	4.95	4.89	4.97	4.12	4.75	4.82	5.39
Nutrients													
Ammonia, Total (as N)	mg/L	-	-	0.08	0.05	0.12	0.05	< 0.02	0.08	0.07	0.07	0.07	0.04
Nitrate (as N)	mg/L	2.94	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.36	-	0.015	0.034	0.012	0.011	0.004	0.008	0.006	0.032	0.007	0.011
Antimony - Dissolved	mg/L	0.02	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	-	< 0.003	< 0.003	< 0.003	0.003	< 0.003	< 0.003	0.002	0.005	0.002	0.002
Barium - Dissolved	mg/L	-	-	0.053	0.056	0.056	0.051	0.05	0.046	0.045	0.049	0.046	0.044
Beryllium - Dissolved	mg/L	0.011	-	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	-	0.021	0.017	0.022	0.017	0.019	0.017	0.017	0.016	0.014	0.016
Cadmium - Dissolved	mg/L	0.0001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-	-	-	-	-	45.2	-	-	-	47.7
Chromium - Dissolved	mg/L	0.0089	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	-	0.0007	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005
Copper - Dissolved	mg/L	0.005	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Iron - Dissolved	mg/L	1	-	0.292	0.243	0.199	0.288	0.173	0.264	0.342	0.301	0.361	0.392
Lead - Dissolved	mg/L	0.003	-	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	-	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	-	-	-	-	-	-	13.0	-	-	-	13.0
Manganese - Dissolved	mg/L	-	-	0.379	0.395	0.402	0.333	0.346	0.325	0.304	0.31	0.24	0.221
Mercury - Dissolved	mg/L	0.000026	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	-	0.013	0.013	0.009	0.008	0.006	0.005	0.005	0.004	0.003	0.003
Nickel - Dissolved	mg/L	0.025	-	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.001	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	0.03	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	0.005	< 0.001
Silicon - Dissolved	mg/L	-	-	6.9	6.83	7.42	6.42	6.6	5.83	6.39	6.26	6.68	6.76
Silver - Dissolved	mg/L	0.00025	-	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	8.84
Strontium - Dissolved	mg/L	2.5	-	0.16	0.156	0.175	0.171	0.17	0.167	0.178	0.187	0.171	0.166
Thallium - Dissolved	mg/L	0.0008	-	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.015	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.12	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	0.004	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D	MW20-UB16D (2)	MW20-UB16D (2)	MW20-UB16D (2
2022-05-17	2022-06-14	2022-07-18	2022-08-18	2022-09-20	2022-10-18	2023-05-16	2023-08-23	2023-11-02
5.3	5.2	5.6	5.4	5.3	5.0	4.6	6.3	4.7
8.07	8.43	7.96	8.08	8.0	8.04	8.01	8.08	8.07
366	366	361	384	378	379	361	371	369
2.92	1.71	2.05	2.19	1.91	1.9	2.41	5.91	2.34
-	-	-	-	-	-	-14.6	-	-
-	-	-	-	-	-	8.09	7.69	7.96
169	144	197	-	-	-	190	179	162
199	212	194	-	-	-	204	203	197
-	7.0	-	-	-	-	5.4	< 5.0	5.2
194	202	204	-	-	-	202	198	162
33.0	15.0	47.0	-	-	-	23.0	22.0	< 10
-	-	-	-	-	-	-	-127	-22.3
-	-	-	-	-	-	0.54	0.71	0.63
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
4.62	5.36	5.47	-	-	-	4.4	5.24	4.58
< 0.02	0.08	0.06	-	-	-	0.05	0.07	0.06
< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
0.008	0.005	0.019	-	-	-	0.007	0.005	< 0.004
< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
< 0.001	0.004	0.002	-	-	-	0.001	0.002	0.001
0.041	0.043	0.05	-	-	-	0.038	0.024	0.036
< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.015	< 0.01	0.019	-	-	-	0.017	0.019	0.015
< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
46.7	40.7	54.1	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.322	0.379	0.297	-	-	-	0.487	0.339	0.423
< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
12.7	10.3	15.1	-	-	-	14.0	14.3	12.6
0.173	0.198	0.214	-	-	-	0.166	0.145	0.148
< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
0.003	0.003	0.003	-	-	-	0.002	< 0.002	0.004
< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
-	-	-	-	-	-	-	-	-
-	1.28	1.12	-	-	-	-	-	-
< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
6.77	7.1	7.11	-	-	-	6.4	6.4	6.83
< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
8.49	8.63	9.51	-	-	-	0.185	0.153	0.182
0.148	0.175	0.17	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.005	< 0.005	< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D
Sampling Date	**Unit**	**WQG PAL[1]**	**2018-06-18**	**2018-08-21**	**2018-11-20**	**2019-03-04**	**2019-08-20**	**2020-04-27**	**2020-08-24**	**2020-11-24**	**2021-03-29**	**2021-06-17**	**2021-08-19**	**2021-11-16**
Field Measured														
Temperature Field	°C	-	6.7	6.8	5.3	5.3	6.5	5.9	7.2	5.2	5.6	6.4	6.5	5.3
pH Field	pH units	6.5-8.5	7.82	7.74	6.88	7.04	7.22	7.17	7.11	7.4	7.12	7.41	7.16	7.4
Conductivity Field	µS/cm	-	569	560	574	489	547	549	557	545	520	541	522	518
Dissolved Oxygen Field	mg/L	-	2.21	3.12	2.95	3.02	5.24	2.55	2.04	2.21	2.77	3.27	2.98	3.23
Oxidation-Reduction Potential Field	mV	-	-34.8	107	-	90.9	127	-14.6	-10.7	-47.8	51.9	4.9	66.3	11.7
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	333	322	320	323	308	311	325	316	360	261	266	264
Alkalinity, Total (as CaCO3)	mg/L	-	302	307	303	310	281	307	295	266	275	313	345	283
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-
Total Dissolved Solids	mg/L	-	374	334	303	326	317	309	306	311	289	310	326	288
Total Suspended Solids	mg/L	-	33.0	75.0	6.0	8.0	9.0	9.0	8.0	9.0	7.0	< 10	42.0	23.0
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	-	-	-	-	-	-	-	-	1.0	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	-	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	218	10.0	10.0	10.0	10.0	9.0	9.0	10.0	9.0	9.0	10.1	9.37	9.51
Nutrients														
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	-	-	-	-	-	-	-	-	0.09	0.24	0.16	0.18
Nitrite (as N)	mg/L	0.06	-	-	-	-	-	-	-	-	< 0.03	< 0.05	< 0.05	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	< 0.001	-	< 0.001	< 0.001	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	0.09	-	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	0.002	0.004	0.007	< 0.001	0.004	< 0.001	0.01	0.007	< 0.001	0.067	0.024	< 0.004
Antimony - Dissolved	mg/L	0.02	-	-	0.0003	< 0.0009	< 0.0009	< 0.0009	< 0.0009	0.0017	< 0.0009	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0007	0.0009	0.001	0.001	0.0009	0.001	0.0011	0.0008	0.001	< 0.001	0.018	< 0.001
Barium - Dissolved	mg/L	-	-	-	-	-	-	0.0533	0.0517	0.0457	0.05	0.05	0.05	0.045
Beryllium - Dissolved	mg/L	0.011	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	-	-	0.014	0.013	0.022	0.017	0.014	0.014	0.015	0.016	0.019	0.018
Cadmium - Dissolved	mg/L	0.0001	0.000004	0.000004	0.000021	0.000014	0.000004	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	116	111	111	112	106	108	103	74.9	115	-	-	-
Chromium - Dissolved	mg/L	0.0089	-	-	0.0001	< 0.00008	0.00015	0.00014	0.00013	< 0.00008	< 0.00008	< 0.002	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	-	-	0.000116	0.000136	0.000151	< 0.000004	0.000149	0.000024	0.000126	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	0.0005	0.00077	0.00124	0.0076	0.0009	0.0003	0.0007	0.0005	0.0008	0.003	0.002	< 0.001
Iron - Dissolved	mg/L	1	0.014	0.03	0.011	< 0.007	0.054	0.02	0.041	0.007	< 0.007	0.19	0.013	0.021
Lead - Dissolved	mg/L	0.003	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00004	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.0005	< 0.001	< 0.0005
Lithium - Dissolved	mg/L	-	-	-	0.002	0.0016	0.002	0.002	0.0018	0.002	0.0022	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	10.4	10.6	10.6	10.8	10.6	10.8	11.1	10.7	11.1	-	-	-
Manganese - Dissolved	mg/L	-	-	-	0.209	0.264	0.259	0.228	0.22	0.0113	0.213	0.195	0.173	0.24
Mercury - Dissolved	mg/L	0.000026	-	-	-	-	-	-	-	-	-	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00028	0.00024	0.00025	0.00013	0.00015	0.00009	< 0.00004	0.00215	0.00024	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.025	0.0003	< 0.0001	0.0002	0.0003	0.0002	0.0003	0.0004	< 0.0001	< 0.0001	< 0.003	< 0.003	< 0.001
Phosphorus - Dissolved	mg/L	0.03	-	-	-	-	-	< 0.003	< 0.003	< 0.003	0.007	-	-	-
Potassium - Dissolved	mg/L	-	-	-	0.571	0.535	0.495	0.554	0.557	0.523	0.555	-	-	-
Selenium - Dissolved	mg/L	0.002	-	-	0.00006	< 0.00004	0.00004	< 0.00004	0.00005	< 0.00004	0.00006	0.001	< 0.004	< 0.001
Silicon - Dissolved	mg/L	-	-	-	8.92	7.61	8.6	9.5	6.95	9.32	8.91	8.29	7.47	7.59
Silver - Dissolved	mg/L	0.00025	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	-	-	3.36	3.77	3.39	3.3	3.64	4.64	3.94	-	-	-
Strontium - Dissolved	mg/L	2.5	-	-	0.522	0.42	0.486	0.448	0.415	0.474	0.496	0.406	0.373	0.399
Thallium - Dissolved	mg/L	0.0008	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	-	-	0.00008	< 0.00006	0.00079	0.0081	0.0123	0.00393	0.00144	< 0.002	< 0.002	0.005
Titanium - Dissolved	mg/L	-	-	-	0.00041	0.00026	0.00053	0.00006	0.00164	0.00011	0.0003	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.015	-	-	0.000128	0.000117	0.000103	0.000122	0.000111	0.000152	0.000181	< 0.0005	< 0.002	< 0.0005
Vanadium - Dissolved	mg/L	0.12	-	-	0.00034	0.00032	0.00031	0.00032	0.00039	0.00029	0.00038	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	< 0.002	0.003	< 0.002	0.003	0.008	0.003	0.003	< 0.002	0.003	< 0.005	0.006	< 0.005
Zirconium - Dissolved	mg/L	0.004	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004	< 0.004

Notes:

1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4

- value not available

Grey highlighted values are greater than WQG PAL benchmarks

MW-UB1D	MW-UB1D	MW-UB1D	MW-UB1D (2)	MW-UB1D (2)	MW-UB1D (2)
2022-03-17	2022-05-19	2022-08-15	2023-05-09	2023-08-22	2023-11-09
6.1	6.3	6.9	6.3	6.8	5.6
7.06	7.1	7.16	7.08	7.35	6.99
508	532	561	537	527	536
2.07	2.76	6.19	3.03	1.77	2.91
22.1	105	70.8	147	-	-
-	-	-	7.85	7.54	7.7
276	260	-	268	269	272
290	291	-	292	294	279
25.0	14.0	-	10.3	10.7	14.7
298	292	-	286	302	326
30.0	16.0	-	30.0	22.0	41.0
-	-	-	-	103	227
-	-	-	0.82	0.79	0.9
< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05
9.35	9.71	-	8.58	9.65	8.59
< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02
0.16	0.22	-	0.07	0.12	0.08
< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-
-	-	-	-	-	-
0.023	0.014	-	0.009	< 0.004	0.005
< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
< 0.001	0.001	-	< 0.001	0.002	0.002
0.053	0.052	-	0.041	0.037	0.041
< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
0.016	0.017	-	0.016	0.02	0.027
< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
93.8	88.4	-	-	-	-
< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.001	0.002	-	< 0.001	0.002	< 0.001
< 0.01	0.042	-	0.034	< 0.010	< 0.010
< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	-	< 0.050	< 0.050	< 0.050
10.1	9.62	-	9.64	10.6	10.2
0.267	0.233	-	0.289	0.261	0.206
< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
-	-	-	-	-	-
-	-	-	-	-	-
0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
8.04	7.59	-	7.9	7.8	8.05
0.0001	0.0002	-	< 0.0001	< 0.0001	< 0.0001
3.32	3.25	-	0.356	0.376	0.389
0.461	0.442	-	-	-	-
< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	< 0.0003
0.003	< 0.002	-	0.014	< 0.002	0.003
< 0.002	0.002	-	< 0.002	< 0.002	< 0.002
< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.005	< 0.005	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D
Sampling Date	**Unit**	**WQG PAL[1]**	**2021-04-29**	**2021-05-20**	**2021-06-14**	**2021-07-21**	**2021-08-17**	**2021-09-14**	**2021-10-13**	**2021-11-16**	**2021-12-15**	**2022-02-02**	**2022-02-14**	**2022-03-15**
Field Measured														
Temperature Field	°C	-	5.5	6.3	5.0	6.2	5.9	5.5	6.0	5.1	5.1	4.7	4.5	4.9
pH Field	pH units	6.5-8.5	7.62	7.64	7.8	8.57	7.77	7.69	8.17	8.01	7.55	7.7	7.69	7.77
Conductivity Field	µS/cm	-	414	419	434	427	456	455	537	467	466	466	464	444
Dissolved Oxygen Field	mg/L	-	0.61	3.02	0.8	1.36	0.88	1.01	2.24	2.1	1.26	1.46	1.26	2.29
Oxidation-Reduction Potential Field	mV	-	-	-	-	-	-	-	-	-	219	-	-	-
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	-	181	195	184	209	206	220	219	217	211	212	218
Alkalinity, Total (as CaCO3)	mg/L	-	-	155	170	153	158	143	146	146	154	143	138	149
Acidity (as CaCO3)	mg/L	-	-	-	-	-	-	-	-	-	-	10.0	10.0	10.0
Total Dissolved Solids	mg/L	-	-	234	264	300	286	308	318	286	284	290	298	284
Total Suspended Solids	mg/L	-	-	117	31.0	15.0	333	614	358	289	1820	723	398	1640
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	-	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	-	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	< 0.05	< 0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	218	-	63.7	71.5	67.8	86.6	93.1	99.5	98.6	108	92.0	96.4	96.7
Nutrients														
Ammonia, Total (as N)	mg/L	-	-	0.13	0.11	0.17	0.14	0.15	0.15	0.16	0.16	0.15	0.16	0.14
Nitrate (as N)	mg/L	2.94	-	< 0.05	< 0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	-	< 0.05	< 0.05	< 0.05	0.05	< 0.05	0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	-	0.01	0.011	0.009	0.022	< 0.004	0.005	< 0.004	0.076	0.017	< 0.004	0.032
Antimony - Dissolved	mg/L	0.02	-	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	-	< 0.003	0.003	< 0.003	0.003	< 0.003	0.003	0.002	0.001	0.001	0.001	0.002
Barium - Dissolved	mg/L	-	-	0.108	0.108	0.113	0.115	0.136	0.122	0.129	0.135	0.127	0.121	0.124
Beryllium - Dissolved	mg/L	0.011	-	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	-	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	-	0.046	0.042	0.039	0.05	0.048	0.049	0.062	0.05	0.047	0.061	0.057
Cadmium - Dissolved	mg/L	0.0001	-	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	47.3	-	-	-	-	58.7	-	-	-	-	58.5
Chromium - Dissolved	mg/L	0.0089	-	< 0.003	< 0.003	< 0.003	0.003	< 0.003	0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	-	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	-	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.001	0.001	0.007	< 0.001	< 0.001	< 0.001
Iron - Dissolved	mg/L	1	-	0.396	0.424	0.391	0.478	0.551	0.507	0.588	0.505	0.523	0.607	0.573
Lead - Dissolved	mg/L	0.003	-	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	-	-	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	-	15.3	-	-	-	-	17.9	-	-	-	-	17.5
Manganese - Dissolved	mg/L	-	-	0.7	0.677	0.664	0.714	0.782	0.796	0.84	0.902	0.789	0.856	0.835
Mercury - Dissolved	mg/L	0.000026	-	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	-	0.008	0.007	0.006	0.005	0.007	0.006	0.006	0.006	0.006	0.007	0.007
Nickel - Dissolved	mg/L	0.025	-	< 0.003	< 0.003	< 0.003	0.003	< 0.003	0.003	< 0.001	< 0.001	0.001	0.003	0.003
Phosphorus - Dissolved	mg/L	0.03	-	-	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	0.95	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	-	< 0.004	< 0.004	< 0.004	0.004	< 0.004	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	-	-	9.15	7.66	7.64	7.72	7.63	7.13	7.78	7.56	7.57	7.39	7.67
Silver - Dissolved	mg/L	0.00025	-	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	-	7.7	-	-	-	-	-	-	-	-	-	6.73
Strontium - Dissolved	mg/L	2.5	-	0.229	0.234	0.201	0.204	0.225	0.221	0.226	0.241	0.227	0.221	0.237
Thallium - Dissolved	mg/L	0.0008	-	< 0.0003	< 0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	-	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	-	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.005	< 0.002	< 0.002	0.003
Uranium - Dissolved	mg/L	0.015	-	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.12	-	< 0.002	< 0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	-	< 0.005	< 0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	0.004	-	< 0.004	< 0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:

1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4

- value not available

Grey highlighted values are greater than WQG PAL benchmarks

MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D	MW20-UB2D (2)	MW20-UB2D (2)	MW20-UB2D (2)
2022-04-20	2022-05-19	2022-06-14	2022-07-18	2022-08-15	2022-09-20	2022-10-18	2023-05-15	2023-08-17	2023-11-08
5.3	5.4	6.3	6.2	6.0	6.1	5.6	5.8	6.1	5.3
7.69	7.76	8.4	7.65	7.57	7.65	7.5	7.64	7.66	7.52
456	460	455	452	482	475	477	445	410	463
1.62	3.73	3.81	0.97	1.71	1.95	2.16	2.2	2.93	1.93
-	-	-	-	-	-	-49.7	12.9	-	-
-	-	-	-	-	-	-	8.04	7.77	7.72
216	202	179	234	-	-	-	225	185	215
142	143	150	136	-	-	-	152	149	151
35.0	7.0	7.0	-	-	-	-	< 5.0	6.0	8.2
290	304	314	304	-	-	-	288	326	264
312	310	194	950	-	-	-	186	215	162
-	-	-	-	-	-	-	-	12.1	13.6
-	-	-	-	-	-	-	3.53	3.82	3.71
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
95.4	96.4	99.1	91.0	-	-	-	88.7	96.9	93.4
0.09	0.16	0.14	0.11	-	-	-	0.1	0.12	0.14
< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
0.017	0.018	0.005	0.02	-	-	-	0.013	< 0.004	< 0.004
< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.001	< 0.001	0.002	0.001	-	-	-	0.001	0.015	0.002
0.141	0.11	0.124	0.147	-	-	-	0.124	0.141	0.12
< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.058	0.048	0.042	0.058	-	-	-	0.045	0.041	0.056
< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
58.1	54.7	50.9	62.5	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.559	0.442	0.538	0.498	-	-	-	0.614	0.518	0.481
< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
17.3	15.8	12.7	18.9	-	-	-	18.1	14.2	16.8
0.831	0.688	0.704	0.831	-	-	-	0.812	0.814	0.807
< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
0.006	0.007	0.006	0.007	-	-	-	0.008	0.008	0.008
< 0.001	< 0.001	< 0.001	0.007	-	-	-	< 0.001	< 0.001	< 0.001
-	-	-	-	-	-	-	-	-	-
-	-	< 0.05	0.88	-	-	-	-	-	-
< 0.001	0.002	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
7.42	7.16	7.75	7.96	-	-	-	6.9	7.5	7.82
< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	0.0001	< 0.0001
6.66	6.12	6.3	6.53	-	-	-	0.21	0.246	0.22
0.222	0.19	0.186	0.23	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	0.005	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.007	0.008	< 0.005	< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S
Sampling Date	**Unit**	**WQG PAL[1]**	**2018-06-18**	**2018-08-21**	**2018-11-22**	**2019-03-06**	**2019-06-26**	**2019-08-21**	**2020-04-28**	**2020-08-25**	**2020-11-25**	**2021-03-30**	**2021-06-15**	**2021-08-17**
Field Measured														
Temperature Field	°C	-	5.8	7.9	6.0	4.7	10.5	7.3	5.2	-	6.1	4.9	5.0	7.3
pH Field	pH units	6.5-8.5	8.09	7.85	7.29	7.29	7.48	7.27	7.4	-	7.53	7.36	7.32	7.37
Conductivity Field	µS/cm	-	607	611	626	543	625	593	610	-	615	602	622	611
Dissolved Oxygen Field	mg/L	-	6.52	6.06	6.44	3.4	4.01	3.13	3.96	-	4.25	6.54	3.33	3.65
Oxidation-Reduction Potential Field	mV	-	107	124	93.2	114	185	160	113	-	103	113	116	57.8
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	326	293	313	327	286	324	331	408	461	770	300	306
Alkalinity, Total (as CaCO3)	mg/L	-	331	341	327	336	330	332	342	352	332	329	355	343
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-
Total Dissolved Solids	mg/L	-	360	383	369	357	411	369	343	329	363	323	346	328
Total Suspended Solids	mg/L	-	73.0	1540	269	289	123	156	124	607	28.0	4090	2680	6910
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	-	-	-	-	-	-	-	-	-	3.0	-	-
Cyanide (CN), Free	mg/L	-	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.2	< 0.005	< 0.005	-	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	0.12	< 0.05	< 0.05
Sulphate	mg/L	218	12.0	94.0	13.0	12.0	11.0	13.0	12.0	12.0	11.0	10.0	15.4	16.6
Nutrients														
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	-	-	-	-	-	-	-	-	-	< 0.03	< 0.05	< 0.05
Ammonia, Un-ionized (as N)	mg/L	0.02	< 0.001	-	< 0.001	< 0.001	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.06	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	0.025	0.004	< 0.001	0.002	0.006	0.007	< 0.001	< 0.001	0.107	0.001	0.011	0.056
Antimony - Dissolved	mg/L	0.02	-	-	< 0.0002	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	0.0011	< 0.0009	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.003	< 0.003
Barium - Dissolved	mg/L	-	-	-	0.0162	-	-	-	0.0142	0.0149	0.0118	0.0208	0.023	0.022
Beryllium - Dissolved	mg/L	0.011	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	-	-	0.01	0.01	0.009	0.014	0.011	0.011	0.011	0.011	< 0.01	0.012
Cadmium - Dissolved	mg/L	0.0001	0.00001	0.000016	0.000023	0.000011	0.000013	0.000011	0.00001	< 0.000003	< 0.000003	0.000009	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	89.2	77.6	85.2	86.6	74.7	84.4	86.3	82.6	48.1	94.6	-	-
Chromium - Dissolved	mg/L	0.0089	-	-	0.00021	0.00009	0.00009	0.00018	0.00025	< 0.00008	0.0003	< 0.00008	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	-	-	0.000046	0.000065	0.000195	0.000114	0.000121	0.000103	0.000031	0.000175	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	0.00049	0.00134	0.00121	0.0067	0.0006	0.0007	0.0006	0.0006	< 0.0002	0.0004	0.001	< 0.001
Iron - Dissolved	mg/L	1	< 0.007	< 0.007	< 0.007	< 0.007	0.013	0.032	0.011	0.042	0.051	0.013	0.024	0.312
Lead - Dissolved	mg/L	0.003	0.00004	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00008	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.001	< 0.001
Lithium - Dissolved	mg/L	-	-	-	0.0058	0.0049	0.0052	0.0044	0.0054	0.0052	0.0058	0.0063	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	25.1	24.0	24.4	26.9	24.1	27.6	28.1	28.4	26.9	31.6	-	-
Manganese - Dissolved	mg/L	-	-	-	0.0008	0.00141	0.00407	0.00347	0.0028	0.00494	0.00118	0.0133	0.037	0.08
Mercury - Dissolved	mg/L	0.000026	-	-	-	-	-	-	-	-	-	-	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00153	0.00102	0.00101	0.00077	0.00065	0.00081	0.00113	0.00062	0.00241	0.00079	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.025	0.0006	0.0003	0.0004	0.0005	0.0004	0.0005	0.0003	0.0004	< 0.0001	0.0003	< 0.003	< 0.003
Phosphorus - Dissolved	mg/L	0.03	-	-	-	-	-	-	< 0.003	< 0.003	< 0.003	0.006	-	-
Potassium - Dissolved	mg/L	-	-	-	0.728	0.718	0.598	0.717	0.733	0.747	0.813	0.788	-	-
Selenium - Dissolved	mg/L	0.002	-	-	< 0.00004	0.00013	< 0.00004	< 0.00004	0.00008	< 0.00004	< 0.00004	< 0.00004	< 0.004	< 0.004
Silicon - Dissolved	mg/L	-	-	-	9.21	7.08	7.86	7.32	10.2	7.95	9.75	9.38	8.77	8.75
Silver - Dissolved	mg/L	0.00025	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	-	-	14.4	15.2	13.5	14.2	16.6	18.2	18.5	20.4	-	-
Strontium - Dissolved	mg/L	2.5	-	-	0.0967	0.0925	0.0941	0.0923	0.0998	0.0925	0.0906	0.106	0.11	0.089
Thallium - Dissolved	mg/L	0.0008	-	-	0.000006	0.000006	0.000007	0.000008	0.000006	0.000007	0.000007	< 0.000005	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	-	-	0.00007	0.00007	0.00121	0.00075	0.0005	0.00036	0.00024	0.00019	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	-	-	0.00019	0.00028	0.00058	0.00174	0.0001	0.00021	0.00391	0.00015	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.015	-	-	0.000567	0.000677	0.000598	0.000683	0.000734	0.000707	0.000739	0.000952	< 0.002	< 0.002
Vanadium - Dissolved	mg/L	0.12	-	-	0.00233	0.00186	0.00159	0.00154	0.00174	0.00145	0.00119	0.00163	0.003	< 0.002
Zinc - Dissolved	mg/L	0.023	0.009	0.008	0.003	0.003	0.03	0.017	0.006	0.006	< 0.002	0.004	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	0.004	-	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S	MW-UB2S (2)	MW-UB2S (2)	MW-UB2S (2)
2021-11-16	2022-03-15	2022-05-19	2022-08-15	2023-05-15	2023-08-17	2023-11-08
7.0	4.8	5.9	7.3	5.8	7.2	6.4
7.37	7.31	7.3	7.28	7.22	7.32	7.36
605	583	606	624	596	535	608
5.6	5.32	4.69	4.25	3.91	5.12	8.66
85.3	146	234	128	279	-	-
-	-	-	-	8.09	7.69	7.93
294	311	296	-	312	278	296
338	332	334	-	339	351	326
-	20.0	7.0	-	6.6	19.9	16.4
332	320	324	-	332	330	304
631	3770	1610	-	2050	2080	6520
-	-	-	-	-	285	235
-	-	-	-	0.6	0.84	0.69
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.05	0.08	< 0.05	-	0.08	< 0.05	< 0.05
12.7	15.1	15.0	-	16.2	12.5	12.5
< 0.02	< 0.02	< 0.02	-	< 0.02	0.03	0.05
< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	-	< 0.02	0.11	< 0.02
-	-	-	-	-	-	-
-	-	-	-	-	-	-
< 0.004	0.01	0.137	-	0.012	0.019	0.009
< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
< 0.001	< 0.001	< 0.001	-	< 0.001	0.012	< 0.001
0.016	0.018	0.019	-	0.027	0.02	0.017
< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.02	< 0.002	-	< 0.002	< 0.002	< 0.002
0.02	0.013	< 0.01	-	0.011	< 0.010	0.01
< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
-	79.4	75.7	-	-	-	-
< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.001	0.002	0.002	-	0.001	< 0.001	< 0.001
0.042	0.016	0.203	-	0.014	0.07	0.088
< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	-	< 0.050	< 0.050	< 0.050
-	27.4	25.9	-	26.8	21.6	26.8
0.007	0.003	0.011	-	0.005	0.011	0.034
< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.001	0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
-	-	-	-	-	-	-
-	-	-	-	-	-	-
< 0.001	< 0.001	0.003	-	< 0.001	< 0.001	< 0.001
8.25	7.52	7.13	-	7.0	7.4	8.04
< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
-	12.2	11.1	-	0.098	0.095	0.085
0.096	0.098	0.086	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
0.002	< 0.002	0.013	-	< 0.002	< 0.002	< 0.002
0.0009	0.001	0.0011	-	0.0009	0.001	0.0012
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
0.005	0.007	0.005	-	< 0.005	0.005	< 0.005
< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D
Sampling Date	**Unit**	**WQG PAL[1]**	**2018-06-18**	**2018-08-21**	**2018-11-20**	**2019-03-04**	**2019-06-25**	**2019-08-20**	**2020-04-27**	**2020-08-24**	**2020-11-25**	**2021-03-29**	**2021-06-16**	**2021-08-17**
Field Measured														
Temperature Field	°C	-	6.6	7.0	5.7	5.5	7.5	6.7	6.1	6.7	5.6	5.6	5.4	6.3
pH Field	pH units	6.5-8.5	7.83	8.25	6.98	7.34	7.56	7.91	7.76	7.62	7.78	7.55	7.72	7.3
Conductivity Field	µS/cm	-	243	301	249	268	243	298	204	299	227	240	272	261
Dissolved Oxygen Field	mg/L	-	5.68	2.15	5.79	2.72	5.7	4.78	6.36	2.18	5.96	6.43	3.34	2.79
Oxidation-Reduction Potential Field	mV	-	109	117	113	109	185	153	131	-38.5	106	121	245	142
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	121	156	136	158	122	151	109	166	118	153	127	143
Alkalinity, Total (as CaCO3)	mg/L	-	115	157	115	165	133	153	102	148	112	128	146	134
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-
Total Dissolved Solids	mg/L	-	151	134	131	177	131	174	120	154	131	114	127	148
Total Suspended Solids	mg/L	-	69.0	35.0	110	17.0	4.0	9.0	7.0	15.0	10.0	2.0	< 10	< 10
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	-	-	-	-	-	-	-	-	-	1.0	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	-	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05
Sulphate	mg/L	218	7.0	8.0	6.0	8.0	6.0	9.0	7.0	9.0	6.0	7.0	9.5	7.65
Nutrients														
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	-	-	-	-	-	-	-	-	-	< 0.03	< 0.05	< 0.05
Ammonia, Un-ionized (as N)	mg/L	0.02	< 0.001	-	< 0.001	< 0.001	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.06	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	0.014	0.007	0.01	0.004	0.013	0.012	0.01	0.013	0.108	0.011	0.027	0.043
Antimony - Dissolved	mg/L	0.02	-	-	0.0005	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	0.0016	< 0.0009	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0004	0.0006	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0004	0.0006	< 0.001	0.004
Barium - Dissolved	mg/L	-	-	-	-	-	-	-	0.129	0.175	0.113	0.172	0.154	0.188
Beryllium - Dissolved	mg/L	0.011	-	-	0.00001	< 0.000007	0.000007	0.000009	< 0.000007	< 0.000007	0.000013	0.000015	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	-	-	0.003	0.005	0.004	0.013	0.005	0.005	0.005	0.005	< 0.01	< 0.01
Cadmium - Dissolved	mg/L	0.0001	< 0.000003	< 0.000003	< 0.000003	0.000007	< 0.000003	0.000005	< 0.000003	< 0.000003	0.000005	0.000003	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	41.4	51.3	46.5	51.8	41.5	48.9	36.1	46.3	35.0	45.9	-	-
Chromium - Dissolved	mg/L	0.0089	-	-	0.00019	< 0.00008	0.00016	0.00021	0.0001	0.00017	0.00039	< 0.00008	< 0.002	< 0.003
Cobalt - Dissolved	mg/L	0.00078	-	-	0.00003	0.000036	0.000049	0.000036	< 0.000004	0.000028	0.000046	0.000045	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	0.00297	0.00202	0.00264	0.0091	0.0086	0.0025	0.0016	0.0034	0.0019	0.0032	0.004	0.002
Iron - Dissolved	mg/L	1	0.018	< 0.007	< 0.007	< 0.007	< 0.007	0.023	< 0.007	0.017	0.065	< 0.007	< 0.01	< 0.01
Lead - Dissolved	mg/L	0.003	0.00004	0.00001	< 0.00001	0.00001	< 0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.0005	< 0.001
Lithium - Dissolved	mg/L	-	-	-	0.0006	0.0008	0.0006	0.0011	0.0007	0.0009	0.0007	0.001	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	4.4	6.76	4.86	6.97	4.58	6.91	4.84	7.08	4.49	6.48	-	-
Manganese - Dissolved	mg/L	-	-	-	0.0168	0.0203	0.0135	0.0213	0.0134	0.0156	0.00581	0.0149	0.018	0.016
Mercury - Dissolved	mg/L	0.000026	-	-	-	-	-	-	-	-	-	-	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00667	0.00312	0.00555	0.00337	0.00491	0.00309	0.00243	0.00259	0.00578	0.00264	0.004	< 0.002
Nickel - Dissolved	mg/L	0.025	0.0007	< 0.0001	0.0003	0.0004	0.0005	0.0002	0.0002	0.0004	< 0.0001	0.0001	< 0.003	< 0.003
Phosphorus - Dissolved	mg/L	0.03	-	-	-	-	-	-	< 0.003	< 0.003	< 0.003	0.005	-	-
Potassium - Dissolved	mg/L	-	-	-	0.388	0.533	0.34	0.504	0.39	0.501	0.396	0.494	-	-
Selenium - Dissolved	mg/L	0.002	-	-	0.00012	0.00006	0.0001	0.00006	0.00015	0.00007	0.00011	0.00011	0.001	< 0.004
Silicon - Dissolved	mg/L	-	-	-	4.87	4.35	4.07	4.8	4.43	4.12	4.97	5.51	4.51	5.63
Silver - Dissolved	mg/L	0.00025	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.00013	< 0.00005	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	-	-	1.76	2.64	1.88	2.34	1.56	2.74	1.93	3.18	-	-
Strontium - Dissolved	mg/L	2.5	-	-	0.168	0.213	0.147	0.222	0.155	0.194	0.152	0.196	0.17	0.207
Thallium - Dissolved	mg/L	0.0008	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	-	-	0.00002	< 0.00006	0.00015	< 0.00006	0.00044	0.00165	0.0002	0.00027	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	-	-	< 0.00005	0.00013	0.00022	0.00047	0.00006	0.00065	0.00566	0.0001	< 0.002	0.008
Uranium - Dissolved	mg/L	0.015	-	-	0.00452	0.00642	0.00618	0.00808	0.00285	0.00818	0.00211	0.0071	0.0082	0.006
Vanadium - Dissolved	mg/L	0.12	-	-	0.00118	0.00123	0.00094	0.00131	0.00116	0.00132	0.00074	0.00128	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.006	< 0.002	< 0.002	< 0.005	0.014
Zirconium - Dissolved	mg/L	0.004	-	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D	MW-UB3D (2)	MW-UB3D (2)	MW-UB3D (2)
2021-11-17	2022-03-22	2022-05-16	2022-08-16	2023-05-08	2023-08-16	2023-10-31
6.1	5.9	6.5	6.6	6.1	6.5	5.9
7.44	7.69	7.4	7.17	7.32	7.54	7.05
262	293	205	286	225	248	221
3.48	2.17	6.14	4.32	6.81	3.04	6.24
110	210	266	201	281	-	-
-	-	-	-	7.92	7.77	6.96
141	-	96.8	-	107	165	123
144	-	90.0	-	117	158	114
-	-	5.0	-	6.5	6.4	8.6
138	-	100	-	120	188	80.0
14.0	-	< 10	-	18.0	61.0	16.0
-	-	-	-	-	234	331
-	-	-	-	0.18	0.45	0.36
< 0.002	-	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.002	-	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.05	-	< 0.05	-	< 0.05	< 0.05	< 0.05
8.7	-	6.67	-	5.44	7.73	4.97
< 0.02	-	< 0.02	-	< 0.02	< 0.02	< 0.02
< 0.05	-	< 0.05	-	< 0.05	< 0.05	< 0.05
< 0.02	-	< 0.02	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-
-	-	-	-	-	-	-
0.008	-	0.041	-	0.029	0.013	0.011
< 0.001	-	< 0.001	-	< 0.001	< 0.001	< 0.001
0.003	-	< 0.001	-	< 0.001	< 0.001	< 0.001
0.168	-	0.116	-	0.131	0.163	0.113
< 0.0005	-	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	-	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.01	-	< 0.01	-	< 0.010	< 0.010	< 0.010
< 0.0001	-	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
-	-	31.8	-	-	-	-
< 0.003	-	< 0.003	-	< 0.003	< 0.003	< 0.003
< 0.0005	-	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
0.002	-	0.003	-	0.003	0.002	0.002
0.016	-	< 0.01	-	< 0.010	< 0.010	< 0.010
< 0.0005	-	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	-	< 0.01	-	< 0.050	< 0.050	< 0.050
-	-	4.23	-	4.0	7.65	4.54
0.013	-	0.008	-	0.009	0.013	0.013
< 0.0001	-	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
0.002	-	0.003	-	0.002	0.002	0.002
< 0.001	-	< 0.001	-	< 0.001	< 0.001	< 0.001
-	-	-	-	-	-	-
-	-	-	-	-	-	-
< 0.001	-	< 0.001	-	< 0.001	< 0.001	< 0.001
4.61	-	3.77	-	3.8	4.37	4.05
< 0.0001	-	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
-	-	1.57	-	0.138	0.199	0.146
0.234	-	0.116	-	-	-	-
< 0.0003	-	< 0.0003	-	< 0.0003	< 0.0003	< 0.0003
0.003	-	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.002	-	< 0.002	-	< 0.002	< 0.002	< 0.002
0.0055	-	0.0039	-	0.0039	0.0062	0.0035
< 0.002	-	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.005	-	< 0.005	-	< 0.005	0.007	< 0.005
< 0.004	-	< 0.004	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW-UB3S	MW-UB3S	MW-UB3S	MW-UB3S	MW-UB3S	MW-UB3S	MW-UB3S (2)	MW-UB3S (2)
Sampling Date	**Unit**	**WQG PAL[1]**	**2018-11-20**	**2019-06-25**	**2020-04-27**	**2020-11-25**	**2021-03-29**	**2022-05-16**	**2023-05-08**	**2023-10-31**
Field Measured										
Temperature Field	°C	-	4.4	10.8	2.4	3.3	1.6	6.7	5.0	7.8
pH Field	pH units	6.5-8.5	6.57	6.34	8.4	6.29	7.27	5.83	5.83	5.8
Conductivity Field	µS/cm	-	45.2	34.7	30.0	31.9	22.4	28.1	23.6	24.6
Dissolved Oxygen Field	mg/L	-	9.76	8.54	14.59	11.01	13.31	10.58	12.35	10.99
Oxidation-Reduction Potential Field	mV	-	124	200	117	119	51.5	259	245	-
Conventional Parameters										
pH	pH units	6.5-8.5	-	-	-	-	-	-	6.69	5.89
Hardness (as CaCO3)	mg/L	-	17.0	15.0	9.9	11.2	24.1	10.2	8.3	10.5
Alkalinity, Total (as CaCO3)	mg/L	-	21.0	13.0	7.0	9.0	10.0	10.0	12.0	13.0
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	6.0	8.9	13.9
Total Dissolved Solids	mg/L	-	49.0	46.0	31.0	< 30	34.0	26.0	20.0	24.0
Total Suspended Solids	mg/L	-	236	68.0	65.0	57.0	264	106	328	269
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	293
Major Ions										
Chloride	mg/L	150	-	-	-	-	3.0	-	< 0.10	0.12
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	218	3.0	3.0	3.0	3.0	4.0	3.03	1.92	1.93
Nutrients										
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	-	-	-	-	< 0.06	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	-	-	-	-	< 0.03	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	< 0.001	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	< 0.06	-	-	-
Dissolved Metals										
Aluminum - Dissolved	mg/L	0.36	0.072	0.07	0.09	0.081	0.117	0.143	0.091	0.077
Antimony - Dissolved	mg/L	0.02	< 0.0002	< 0.0009	< 0.0009	0.0018	< 0.0009	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	0.004	< 0.001
Barium - Dissolved	mg/L	-	-	-	0.00224	0.00155	0.0027	0.003	0.003	0.005
Beryllium - Dissolved	mg/L	0.011	0.000023	0.000025	< 0.000007	< 0.000007	0.000024	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	0.002	0.004	0.004	0.003	0.004	< 0.01	< 0.010	< 0.010
Cadmium - Dissolved	mg/L	0.0001	0.000011	0.000011	0.000003	< 0.000003	0.000004	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	4.98	4.19	1.96	2.44	3.07	2.84	-	-
Chromium - Dissolved	mg/L	0.0089	0.00038	0.00032	0.00035	0.00042	0.00025	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	0.000363	0.000413	0.00006	0.000099	0.00029	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	0.00055	0.0074	0.0012	0.0007	0.0006	0.002	< 0.001	0.001
Iron - Dissolved	mg/L	1	0.014	0.014	0.018	0.042	0.095	0.024	0.039	0.022
Lead - Dissolved	mg/L	0.003	< 0.00001	0.00003	0.00004	< 0.00001	0.00003	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	-	< 0.0001	0.0002	< 0.0001	0.0001	0.0002	< 0.01	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	-	1.1	1.1	0.478	0.668	0.557	0.75	0.46	0.67
Manganese - Dissolved	mg/L	-	0.00881	0.00985	0.0077	0.00609	0.00689	0.006	0.011	0.012
Mercury - Dissolved	mg/L	0.000026	-	-	-	-	-	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00002	0.00008	0.00049	< 0.00004	0.0003	< 0.002	< 0.002	0.002
Nickel - Dissolved	mg/L	0.025	0.0007	0.0007	0.0005	< 0.0001	0.0003	< 0.001	0.001	< 0.001
Phosphorus - Dissolved	mg/L	0.03	-	-	< 0.003	< 0.003	0.005	-	-	-
Potassium - Dissolved	mg/L	-	0.025	0.045	0.025	0.061	0.036	-	-	-
Selenium - Dissolved	mg/L	0.002	< 0.00004	< 0.00004	< 0.00004	0.00004	< 0.00004	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	-	3.64	3.48	2.91	3.54	2.99	2.77	2.54	3.02
Silver - Dissolved	mg/L	0.00025	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	1.72	1.65	1.59	1.69	1.98	1.58	0.013	0.012
Strontium - Dissolved	mg/L	2.5	0.0152	0.0143	0.00806	0.0105	0.011	0.01	-	-
Thallium - Dissolved	mg/L	0.0008	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	0.00004	0.00009	0.00022	< 0.00006	0.00025	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	0.00035	0.00042	0.0009	0.00205	0.00117	< 0.002	0.006	< 0.002
Uranium - Dissolved	mg/L	0.015	0.00001	0.000019	0.000599	0.000002	0.000071	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.12	0.0001	0.00012	0.00012	0.00012	0.00015	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	< 0.002	0.002	0.003	< 0.002	0.002	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	0.004	-	-	-	-	< 0.002	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.			MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D	MW-UB4D
Sampling Date	**Unit**	**WQG PAL[1]**	**2018-06-18**	**2018-08-21**	**2018-11-20**	**2019-03-06**	**2019-06-26**	**2019-08-21**	**2020-04-28**	**2020-08-24**	**2020-11-25**	**2021-03-30**	**2021-06-14**	**2021-08-18**
Field Measured														
Temperature Field	°C	-	7.1	8.6	5.6	4.6	7.6	8.0	5.8	7.7	5.8	5.5	6.4	8.4
pH Field	pH units	6.5-8.5	7.75	8.27	7.48	7.36	7.79	8.27	7.68	7.78	7.9	7.65	7.77	7.52
Conductivity Field	µS/cm	-	439	437	459	412	444	440	487	473	405	463	487	472
Dissolved Oxygen Field	mg/L	-	3.98	5.11	5.29	2.89	6.56	4.61	3.03	3.1	5.33	5.92	4.06	3.24
Oxidation-Reduction Potential Field	mV	-	-34.0	52.5	43.3	24.8	108	129	-	-46.7	-46.6	-	-	-
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	232	236	253	248	211	259	299	287	826	732	237	242
Alkalinity, Total (as CaCO3)	mg/L	-	262	242	278	243	237	234	275	249	243	242	261	259
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-
Total Dissolved Solids	mg/L	-	269	323	286	269	283	277	297	251	280	269	264	268
Total Suspended Solids	mg/L	-	414	10400	13300	379	113	1620	6970	9500	303	14400	7150	10200
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	-	-	-	-	-	-	-	-	-	2.0	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.2	< 0.005	< 0.005	-	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	0.14	< 0.05	< 0.05
Sulphate	mg/L	218	17.0	18.0	17.0	17.0	15.0	19.0	14.0	20.0	17.0	14.0	17.0	16.4
Nutrients														
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	-	-	-	-	-	-	-	-	-	< 0.03	< 0.05	< 0.05
Ammonia, Un-ionized (as N)	mg/L	0.02	0.002	-	0.002	< 0.001	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.06	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	0.003	0.002	0.002	< 0.001	< 0.001	0.002	0.004	0.001	0.157	< 0.001	0.043	0.011
Antimony - Dissolved	mg/L	0.02	-	-	< 0.0002	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	0.0018	< 0.0009	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0006	0.0008	0.0007	0.0004	0.0007	0.0007	0.0007	0.0012	0.0007	0.001	< 0.003	< 0.003
Barium - Dissolved	mg/L	-	-	-	0.0376	-	-	-	0.0396	0.0345	0.034	0.0429	0.036	0.037
Beryllium - Dissolved	mg/L	0.011	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	-	-	0.006	0.008	0.007	0.007	0.009	0.007	0.009	0.009	< 0.01	< 0.01
Cadmium - Dissolved	mg/L	0.0001	< 0.000003	0.000005	0.000006	0.000003	< 0.000003	0.000003	0.000003	< 0.000003	0.000003	0.000004	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	61.3	62.4	68.0	64.3	55.3	67.6	78.4	64.6	51.6	81.7	-	-
Chromium - Dissolved	mg/L	0.0089	-	-	0.00009	< 0.00008	< 0.00008	0.00011	0.00015	< 0.00008	0.00036	0.00026	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	-	-	0.000122	0.000184	0.000169	0.000125	0.000447	0.000193	0.00008	0.000181	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	0.00035	0.00032	0.00048	0.0061	0.0069	0.0005	< 0.0002	0.0005	0.0004	0.0002	< 0.001	< 0.001
Iron - Dissolved	mg/L	1	0.014	0.011	0.027	0.022	< 0.007	0.007	0.015	0.222	0.081	0.237	0.14	0.081
Lead - Dissolved	mg/L	0.003	0.00031	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.001	< 0.001
Lithium - Dissolved	mg/L	-	-	-	0.0038	0.0033	0.0033	0.0032	0.0047	0.0034	0.0043	0.0047	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	19.2	19.4	20.2	21.3	17.8	21.8	25.2	22.1	21.8	25.6	-	-
Manganese - Dissolved	mg/L	-	-	-	0.0595	0.0701	0.0525	0.0426	0.0828	0.0589	0.00932	0.0539	0.056	0.046
Mercury - Dissolved	mg/L	0.000026	-	-	-	-	-	-	-	-	-	-	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00255	0.00241	0.00219	0.00208	0.00202	0.00248	0.00234	0.0018	0.00483	0.00233	0.003	< 0.002
Nickel - Dissolved	mg/L	0.025	0.0015	0.0015	0.0017	0.0016	0.0011	0.0017	0.0023	0.0014	0.0003	0.0017	< 0.003	< 0.003
Phosphorus - Dissolved	mg/L	0.03	-	-	-	-	-	-	< 0.003	0.005	< 0.003	0.013	-	-
Potassium - Dissolved	mg/L	-	-	-	1.33	1.29	1.06	1.21	1.36	1.26	1.4	1.51	-	-
Selenium - Dissolved	mg/L	0.002	-	-	< 0.00004	< 0.00004	< 0.00004	< 0.00004	0.00005	< 0.00004	0.00005	< 0.00004	< 0.004	< 0.004
Silicon - Dissolved	mg/L	-	-	-	8.11	6.99	7.51	6.69	10.0	6.95	8.27	8.86	8.65	8.15
Silver - Dissolved	mg/L	0.00025	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	-	-	4.35	4.68	3.82	4.29	5.39	4.78	4.51	5.66	-	-
Strontium - Dissolved	mg/L	2.5	-	-	0.169	0.162	0.152	0.155	0.194	0.157	0.172	0.197	0.18	0.157
Thallium - Dissolved	mg/L	0.0008	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	-	-	0.0001	0.00008	0.00132	0.00068	0.00389	0.00489	0.00266	0.00162	< 0.002	0.002
Titanium - Dissolved	mg/L	-	-	-	0.00046	< 0.00005	0.00005	0.00031	0.00012	0.00037	0.00659	0.00013	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.015	-	-	0.000751	0.00084	0.000664	0.000934	0.00127	0.00105	0.001	0.00123	< 0.002	< 0.002
Vanadium - Dissolved	mg/L	0.12	-	-	0.0004	0.00038	0.00024	0.00033	0.00038	0.00032	0.0013	0.00042	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	0.003	< 0.002	< 0.002	< 0.002	< 0.002	0.003	0.004	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	0.004	-	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB4D	MW-UB4D	MW-UB4D (2)	MW-UB4D (2)	MW-UB4D (2)
2022-05-19	2022-08-17	2023-05-08	2023-08-18	2023-10-31
7.2	8.8	6.0	7.9	7.2
7.57	7.61	7.56	7.47	7.3
497	516	507	442	514
4.87	6.93	2.83	6.04	5.3
38.1	146	21.5	-	-
-	-	8.05	7.83	7.76
293	-	225	237	290
268	-	276	289	262
-	-	15.5	9.5	12.2
274	-	282	292	280
3880	-	6590	17800	4850
-	-	-	150	227
-	-	0.9	1.18	1.11
< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.05	-	< 0.05	< 0.05	< 0.05
17.0	-	15.1	16.4	15.3
< 0.02	-	< 0.02	< 0.02	< 0.02
< 0.05	-	< 0.05	< 0.05	< 0.05
< 0.02	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-
-	-	-	-	-
< 0.004	-	0.005	< 0.004	0.019
< 0.001	-	< 0.001	< 0.001	< 0.001
< 0.001	-	0.001	0.02	< 0.001
0.033	-	0.039	0.047	0.036
< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.01	-	0.01	< 0.010	0.011
< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
75.8	-	-	-	-
< 0.003	-	< 0.003	< 0.003	< 0.003
< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
0.001	-	< 0.001	0.005	< 0.001
0.118	-	0.115	0.05	0.074
< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	-	< 0.050	< 0.050	< 0.050
25.1	-	20.3	19.1	24.8
0.049	-	0.053	0.045	0.035
< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
0.006	-	0.003	0.003	0.004
0.002	-	0.002	0.001	0.002
-	-	-	-	-
-	-	-	-	-
0.002	-	< 0.001	< 0.001	< 0.001
7.33	-	8.0	7.6	7.81
< 0.0001	-	< 0.0001	0.0001	< 0.0001
5.08	-	0.181	0.208	0.185
0.154	-	-	-	-
< 0.0003	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	-	< 0.002	< 0.002	< 0.002
0.004	-	0.002	< 0.002	< 0.002
0.0011	-	0.001	0.0011	0.001
< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.005	-	< 0.005	< 0.005	< 0.005
< 0.004	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S
Sampling Date	**Unit**	**WQG PAL[1]**	**2018-06-18**	**2018-08-21**	**2018-11-20**	**2019-03-04**	**2019-06-25**	**2019-08-20**	**2020-04-27**	**2020-08-24**	**2020-11-25**	**2021-03-30**	**2021-06-14**	**2021-08-18**
Field Measured														
Temperature Field	°C	-	5.7	8.9	6.3	3.7	6.4	8.7	4.5	10.0	6.6	4.1	6.1	11.0
pH Field	pH units	6.5-8.5	7.49	7.78	7.01	7.0	7.13	7.56	7.11	7.09	7.25	7.07	7.22	7.21
Conductivity Field	µS/cm	-	751	734	772	660	762	750	700	734	706	667	687	704
Dissolved Oxygen Field	mg/L	-	4.24	4.43	4.26	4.26	4.73	4.32	4.54	5.68	4.86	5.51	5.93	4.22
Oxidation-Reduction Potential Field	mV	-	116	121	89.3	131	203	155	131	-9.1	79.2	86.5	165	18.7
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	458	415	426	449	400	424	694	635	541	620	358	382
Alkalinity, Total (as CaCO3)	mg/L	-	439	417	412	435	473	460	382	395	370	350	317	393
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-	-
Total Dissolved Solids	mg/L	-	460	420	423	446	469	446	409	414	397	374	386	396
Total Suspended Solids	mg/L	-	1940	1120	2660	1990	2060	876	3960	1140	116	1800	2850	1320
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	-	-	-	-	-	-	-	-	-	6.0	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	-	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.06	< 0.05	< 0.05
Sulphate	mg/L	218	8.0	8.0	8.0	9.0	8.0	8.0	8.0	11.0	9.0	20.0	23.3	17.7
Nutrients														
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	-	-	-	-	-	-	-	-	-	0.36	0.26	0.34
Nitrite (as N)	mg/L	0.06	-	-	-	-	-	-	-	-	-	< 0.03	< 0.05	< 0.05
Ammonia, Un-ionized (as N)	mg/L	0.02	< 0.001	-	< 0.001	< 0.001	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	0.36	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	0.003	0.002	0.001	< 0.001	< 0.001	0.002	0.002	0.002	0.008	< 0.001	0.257	0.096
Antimony - Dissolved	mg/L	0.02	-	-	< 0.0002	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	0.0017	< 0.0009	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0003	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0006	0.0005	< 0.003	0.006
Barium - Dissolved	mg/L	-	-	-	-	-	-	-	0.0327	0.0343	0.0264	0.0352	0.034	0.033
Beryllium - Dissolved	mg/L	0.011	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	-	-	0.007	0.007	0.006	0.014	0.007	0.007	0.008	0.008	< 0.01	< 0.01
Cadmium - Dissolved	mg/L	0.0001	0.000011	0.000005	0.000008	0.000013	0.000011	0.000009	0.000003	0.000006	0.000003	0.000021	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	132	119	121	127	109	119	115	111	90.1	132	-	-
Chromium - Dissolved	mg/L	0.0089	-	-	0.00073	0.00063	0.0008	0.00076	0.00047	0.0006	0.00083	0.00064	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	-	-	0.000031	0.000031	0.000035	0.000023	< 0.000004	0.000021	0.000018	0.000043	0.001	< 0.0005
Copper - Dissolved	mg/L	0.005	0.00091	0.00102	0.00086	0.0073	0.0071	0.001	0.0012	0.0015	0.0006	0.0016	0.004	0.001
Iron - Dissolved	mg/L	1	0.013	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.009	< 0.007	0.062	0.223	0.036
Lead - Dissolved	mg/L	0.003	0.00003	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00004	< 0.001	< 0.001
Lithium - Dissolved	mg/L	-	-	-	0.0058	0.005	0.0051	0.0058	0.0053	0.0055	0.0064	0.0063	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	31.1	28.9	30.0	32.1	31.2	31.0	30.4	31.9	30.3	34.5	-	-
Manganese - Dissolved	mg/L	-	-	-	0.00048	0.00067	0.00041	0.00005	0.00371	0.00253	0.00015	0.00321	0.024	0.005
Mercury - Dissolved	mg/L	0.000026	-	-	-	-	-	-	-	-	-	-	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00062	0.00051	0.00037	0.00034	0.00031	0.0004	0.00036	< 0.00004	0.00259	0.00044	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.025	0.0009	0.0004	0.0008	0.0009	0.0009	0.0008	0.0008	0.0011	< 0.0001	0.0007	0.005	< 0.003
Phosphorus - Dissolved	mg/L	0.03	-	-	-	-	-	-	< 0.003	0.004	< 0.003	0.014	-	-
Potassium - Dissolved	mg/L	-	-	-	1.02	0.956	0.895	0.941	0.924	1.02	0.995	1.07	-	-
Selenium - Dissolved	mg/L	0.002	-	-	0.00007	0.00006	0.00006	0.00009	0.00007	0.00011	0.00016	0.00024	< 0.004	< 0.004
Silicon - Dissolved	mg/L	-	-	-	11.1	9.12	8.84	10.7	11.2	9.48	12.2	12.2	10.4	11.9
Silver - Dissolved	mg/L	0.00025	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	-	-	5.21	5.77	5.53	6.04	5.53	6.33	5.61	7.23	-	-
Strontium - Dissolved	mg/L	2.5	-	-	0.178	0.178	0.173	0.179	0.172	0.164	0.163	0.187	0.172	0.172
Thallium - Dissolved	mg/L	0.0008	-	-	0.000006	< 0.000005	0.000005	0.000007	< 0.000005	0.000008	< 0.000005	< 0.000005	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	-	-	0.00007	< 0.00006	< 0.00006	0.00006	0.00008	0.00014	0.00012	0.00006	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	-	-	0.00018	0.00023	0.00018	0.00019	0.00015	0.00031	0.00037	0.00092	0.01	< 0.002
Uranium - Dissolved	mg/L	0.015	-	-	0.000812	0.000821	0.000863	0.00088	0.000801	0.00091	0.00109	0.00096	< 0.002	< 0.002
Vanadium - Dissolved	mg/L	0.12	-	-	0.00198	0.00182	0.00172	0.00192	0.00166	0.00207	0.00162	0.00197	0.002	0.003
Zinc - Dissolved	mg/L	0.023	0.005	0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.012	< 0.002	< 0.002	< 0.002	0.017	< 0.005
Zirconium - Dissolved	mg/L	0.004	-	-	-	-	-	-	-	-	-	< 0.002	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S	MW-UB4S (2)	MW-UB4S (2)	MW-UB4S (2)
2021-11-17	2022-03-18	2022-05-19	2022-08-17	2023-05-08	2023-08-18	2023-10-31
8.3	4.5	5.2	9.8	4.6	8.8	8.8
7.15	7.17	7.01	7.04	6.95	6.94	6.81
720	720	768	785	773	651	757
2.95	4.97	4.45	5.58	5.7	6.75	5.35
121	150	138	157	205	-	-
-	-	-	-	7.81	7.48	7.4
400	409	390	-	383	331	476
402	403	433	-	436	429	399
-	35.0	9.0	-	38.6	25.0	31.0
396	412	416	-	434	414	404
1510	1430	572	-	641	480	414
-	-	-	-	-	223	267
-	-	-	-	1.7	1.76	1.71
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05
18.9	22.1	16.5	-	11.4	9.1	9.04
< 0.02	< 0.02	< 0.02	-	< 0.02	< 0.02	< 0.02
0.18	0.1	0.08	-	0.14	0.11	0.1
0.05	< 0.02	< 0.02	-	< 0.02	0.1	< 0.02
-	-	-	-	-	-	-
-	-	-	-	-	-	-
< 0.004	0.007	< 0.004	-	0.005	0.006	0.01
< 0.001	< 0.001	< 0.001	-	< 0.001	< 0.001	< 0.001
0.006	< 0.001	< 0.001	-	< 0.001	0.018	< 0.001
0.032	0.036	0.034	-	0.041	0.043	0.041
< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.01	< 0.01	< 0.01	-	< 0.010	< 0.010	0.013
0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
-	112	107	-	-	-	-
< 0.003	< 0.003	< 0.003	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
0.001	0.002	0.002	-	0.002	0.001	0.002
< 0.01	0.011	< 0.01	-	0.011	0.014	< 0.010
< 0.0005	< 0.0005	< 0.0005	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	-	< 0.050	< 0.050	< 0.050
-	31.3	29.8	-	27.5	22.2	35.6
0.002	0.002	0.003	-	< 0.002	< 0.002	< 0.002
< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
0.001	0.001	0.001	-	0.002	0.001	0.001
-	-	-	-	-	-	-
-	-	-	-	-	-	-
0.002	< 0.001	< 0.001	-	< 0.001	0.001	0.001
10.3	9.57	8.23	-	9.68	10.0	10.3
< 0.0001	0.0001	< 0.0001	-	< 0.0001	< 0.0001	< 0.0001
-	4.83	4.9	-	0.182	0.162	0.183
0.161	0.192	0.172	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	0.002	-	0.003	< 0.002	< 0.002
0.0012	0.0012	0.001	-	0.0009	0.0008	0.0009
< 0.002	< 0.002	< 0.002	-	< 0.002	< 0.002	< 0.002
< 0.005	< 0.005	< 0.005	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.		MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D	MW-UB5D (2)
Sampling Date	**Unit**	**2019-08-21**	**2020-04-28**	**2020-08-25**	**2020-11-26**	**2021-03-30**	**2021-06-16**	**2021-08-18**	**2021-11-17**	**2022-03-17**	**2022-05-16**	**2022-08-18**	**2023-05-10**
Field Measured													
Temperature Field	°C	7.2	6.0	8.4	6.0	4.8	7.6	13.6	6.4	3.6	7.0	7.4	6.3
pH Field	pH units	7.86	7.96	8.23	8.43	8.24	8.04	7.88	7.9	8.13	7.76	7.63	7.65
Conductivity Field	µS/cm	411	427	439	423	423	445	411	427	406	417	440	424
Dissolved Oxygen Field	mg/L	2.25	3.99	3.7	4.05	8.24	6.42	6.44	2.94	3.21	3.76	3.06	7.6
Oxidation-Reduction Potential Field	mV	-	-28.9	-	-	-	25.8	-	-46.0	-44.5	-	-17.3	227
Conventional Parameters													
pH	pH units	-	-	-	-	-	-	-	-	-	-	-	8.12
Hardness (as CaCO3)	mg/L	-	204	202	193	217	175	177	178	173	164	-	179
Alkalinity, Total (as CaCO3)	mg/L	215	207	219	206	213	246	229	216	224	223	-	224
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	-	-	-	15.0	-	-	9.5
Total Dissolved Solids	mg/L	234	237	237	260	243	175	222	216	196	220	-	156
Total Suspended Solids	mg/L	92.0	5.0	19.0	-	6.0	< 10	< 10	< 10	< 10	< 10	-	< 10
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	1.13
Cyanide (CN), Free	mg/L	< 0.005	-	< 0.005	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	-	< 0.01	-	-	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Fluoride	mg/L	-	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05
Sulphate	mg/L	15.0	15.0	16.0	13.0	-	14.6	13.5	13.7	13.2	14.5	-	14.5
Nutrients													
Ammonia, Total (as N)	mg/L	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.02	< 0.02	0.04	< 0.02	< 0.02	-	< 0.02
Nitrate (as N)	mg/L	-	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05
Nitrite (as N)	mg/L	-	-	-	-	-	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	-	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	-	< 0.001	0.003	0.003	0.003	< 0.004	0.01	< 0.004	0.028	0.009	-	0.006
Antimony - Dissolved	mg/L	-	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	0.001	0.007	0.006	-	0.003
Arsenic - Dissolved	mg/L	-	0.0049	0.0048	0.0038	0.0041	0.002	< 0.003	0.002	< 0.001	0.002	-	0.002
Barium - Dissolved	mg/L	-	0.188	0.176	0.19	0.195	0.188	0.177	0.166	0.187	0.154	-	0.162
Beryllium - Dissolved	mg/L	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Boron - Dissolved	mg/L	-	0.027	0.025	0.027	0.029	0.028	0.03	0.028	0.029	0.028	-	0.034
Cadmium - Dissolved	mg/L	-	0.000012	0.000007	< 0.000003	0.000003	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Calcium - Dissolved	mg/L	-	41.8	39.9	39.7	42.6	-	-	-	33.0	31.4	-	-
Chromium - Dissolved	mg/L	-	0.00022	0.0001	0.00057	< 0.00008	< 0.002	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003
Cobalt - Dissolved	mg/L	-	0.000111	0.000087	0.000057	0.000093	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Copper - Dissolved	mg/L	-	0.0011	0.0005	0.0003	0.0003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	0.002
Iron - Dissolved	mg/L	-	0.208	0.085	0.124	0.046	0.057	0.078	0.192	0.09	0.045	-	0.051
Lead - Dissolved	mg/L	-	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Lithium - Dissolved	mg/L	-	0.0037	0.0033	0.0032	0.0042	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.050
Magnesium - Dissolved	mg/L	-	24.2	25.1	21.5	26.9	-	-	-	21.9	20.9	-	22.7
Manganese - Dissolved	mg/L	-	0.0883	0.0778	0.0666	0.0721	0.061	0.052	0.051	0.057	0.044	-	0.043
Mercury - Dissolved	mg/L	-	-	-	< 0.00001	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Molybdenum - Dissolved	mg/L	-	0.01	0.00819	0.00708	0.00603	0.006	0.009	0.005	0.013	0.008	-	0.008
Nickel - Dissolved	mg/L	-	0.0002	0.0004	0.0002	< 0.0001	< 0.003	< 0.003	< 0.001	0.001	< 0.001	-	< 0.001
Phosphorus - Dissolved	mg/L	-	0.02	0.026	0.008	0.02	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	0.702	0.837	0.58	0.674	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	-	< 0.00004	0.00004	< 0.00004	< 0.00004	0.002	< 0.004	0.003	< 0.001	< 0.001	-	< 0.001
Silicon - Dissolved	mg/L	-	10.2	7.51	8.44	9.5	8.37	7.66	8.21	8.03	6.96	-	8.2
Silver - Dissolved	mg/L	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Sodium - Dissolved	mg/L	-	25.0	25.9	21.1	25.6	-	-	-	22.4	21.2	-	1.12
Strontium - Dissolved	mg/L	-	1.39	1.25	1.35	1.45	1.19	1.09	1.1	1.17	1.04	-	-
Thallium - Dissolved	mg/L	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	< 0.0003
Tin - Dissolved	mg/L	-	0.0359	0.041	0.029	0.0361	0.016	0.014	0.008	0.003	0.002	-	< 0.002
Titanium - Dissolved	mg/L	-	0.00005	0.00019	0.00009	0.0001	< 0.002	0.007	< 0.002	< 0.002	0.004	-	< 0.002
Uranium - Dissolved	mg/L	-	0.00777	0.00709	0.00651	0.00734	0.0067	0.007	0.0076	0.0083	0.0073	-	0.0072
Vanadium - Dissolved	mg/L	-	0.00009	0.00011	0.00008	0.00007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Zinc - Dissolved	mg/L	-	0.004	0.003	< 0.002	0.003	< 0.005	0.008	< 0.005	< 0.005	< 0.005	-	< 0.005
Zirconium - Dissolved	mg/L	-	-	-	-	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB5D (2)	MW-UB5D (2)
2023-08-18	2023-11-02
9.0	6.4
8.22	7.52
375	418
7.35	6.29
-	-
7.77	7.85
153	168
225	211
6.1	7.0
222	206
11.0	< 10
116	164
1.38	1.37
< 0.002	< 0.002
< 0.002	< 0.002
< 0.05	< 0.05
14.6	14.3
< 0.02	< 0.02
< 0.05	< 0.05
< 0.02	< 0.02
-	-
-	-
0.023	0.007
0.009	0.005
0.017	0.003
0.186	0.174
< 0.0005	< 0.0005
< 0.002	< 0.002
< 0.010	0.028
< 0.0001	< 0.0001
-	-
< 0.003	< 0.003
< 0.0005	< 0.0005
< 0.001	< 0.001
0.087	0.092
< 0.0005	< 0.0005
< 0.050	< 0.050
17.3	21.7
0.048	0.05
< 0.0001	< 0.0001
0.011	0.012
< 0.001	< 0.001
-	-
-	-
< 0.001	< 0.001
7.9	8.1
0.0001	< 0.0001
1.31	1.19
-	-
< 0.0003	< 0.0003
0.017	0.011
< 0.002	< 0.002
0.0075	0.0078
< 0.002	< 0.002
< 0.005	< 0.005
< 0.004	< 0.004

Monitoring Well ID.		MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D	MW-UB6D (2)
Sampling Date	**Unit**	**2018-06-18**	**2018-08-21**	**2019-06-25**	**2019-08-22**	**2020-04-27**	**2020-08-24**	**2021-06-15**	**2021-08-18**	**2021-11-17**	**2022-05-19**	**2022-08-18**	**2023-05-10**
Field Measured													
Temperature Field	°C	7.1	7.0	7.6	7.8	6.2	8.3	5.5	7.7	6.3	6.6	7.6	6.1
pH Field	pH units	8.9	7.68	7.78	8.76	7.7	7.84	7.89	7.67	7.76	7.74	7.6	7.6
Conductivity Field	µS/cm	396	788	419	357	405	404	405	407	401	400	375	415
Dissolved Oxygen Field	mg/L	1.78	2.66	5.66	4.14	2.92	3.05	3.29	3.35	5.51	2.98	5.55	5.13
Oxidation-Reduction Potential Field	mV	70.5	138	103	110	-13.9	-	-	-47.0	49.0	199	131	235
Conventional Parameters													
pH	pH units	-	-	-	-	-	-	-	-	-	-	-	8.11
Hardness (as CaCO3)	mg/L	214	419	224	218	318	253	193	205	206	190	-	204
Alkalinity, Total (as CaCO3)	mg/L	207	384	216	218	215	212	218	226	213	215	-	224
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	6.0	-	< 5.0
Total Dissolved Solids	mg/L	467	491	254	283	234	209	200	226	206	210	-	128
Total Suspended Solids	mg/L	1380	116	92.0	6500	1520	420	448	251	164	26.0	-	14.0
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.34
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.002	< 0.002	< 0.002	0.009	-	< 0.002
Fluoride	mg/L	-	-	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05
Sulphate	mg/L	10.0	50.0	9.0	12.0	10.0	10.0	10.4	9.47	9.84	9.4	-	9.03
Nutrients													
Ammonia, Total (as N)	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.03	0.03	< 0.02	< 0.02	-	< 0.02
Nitrate (as N)	mg/L	-	-	-	-	-	-	< 0.05	0.09	< 0.05	< 0.05	-	< 0.05
Nitrite (as N)	mg/L	-	-	-	-	-	-	< 0.05	< 0.05	< 0.02	< 0.02	-	< 0.02
Ammonia, Un-ionized (as N)	mg/L	< 0.001	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.003	0.003	0.004	0.004	0.102	0.001	0.081	0.163	< 0.004	0.033	-	0.007
Antimony - Dissolved	mg/L	-	-	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001
Arsenic - Dissolved	mg/L	0.0035	< 0.0002	0.0041	0.0018	0.0041	0.0042	0.008	0.01	0.006	0.005	-	0.003
Barium - Dissolved	mg/L	-	-	-	-	0.0409	0.0368	0.036	0.041	0.033	0.037	-	0.031
Beryllium - Dissolved	mg/L	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	< 0.0005
Bismuth - Dissolved	mg/L	-	-	< 0.000007	0.000029	< 0.000007	< 0.000007	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Boron - Dissolved	mg/L	-	-	0.025	0.023	0.026	0.024	0.027	0.023	0.026	0.024	-	0.028
Cadmium - Dissolved	mg/L	0.000003	0.000031	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Calcium - Dissolved	mg/L	58.0	144	59.1	58.0	59.6	55.3	-	-	-	49.9	-	-
Chromium - Dissolved	mg/L	-	-	< 0.00008	0.00014	0.00012	< 0.00008	< 0.003	< 0.003	< 0.003	< 0.003	-	< 0.003
Cobalt - Dissolved	mg/L	-	-	0.000213	0.000329	0.000054	0.000429	< 0.0005	0.001	< 0.0005	< 0.0005	-	< 0.0005
Copper - Dissolved	mg/L	0.00034	0.0102	0.0077	0.001	0.0005	0.0003	0.002	0.008	< 0.001	0.002	-	0.002
Iron - Dissolved	mg/L	0.013	0.007	0.09	0.053	0.126	0.027	0.426	0.195	0.027	0.028	-	< 0.010
Lead - Dissolved	mg/L	< 0.00001	< 0.00001	0.00003	0.00013	0.00004	< 0.00001	< 0.001	< 0.001	< 0.0005	< 0.0005	-	< 0.0005
Lithium - Dissolved	mg/L	-	-	0.0021	0.0018	0.0021	0.0019	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.050
Magnesium - Dissolved	mg/L	16.8	14.4	18.6	17.7	18.4	18.3	-	-	-	16.0	-	17.5
Manganese - Dissolved	mg/L	-	-	0.0407	0.167	0.101	0.109	0.124	0.128	0.047	0.046	-	0.028
Mercury - Dissolved	mg/L	-	-	-	-	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Molybdenum - Dissolved	mg/L	0.0027	0.0439	0.0027	0.00337	0.00242	0.00204	< 0.002	0.003	0.003	< 0.002	-	< 0.002
Nickel - Dissolved	mg/L	0.0005	0.0003	0.0003	0.0007	0.0004	0.0003	< 0.003	< 0.003	< 0.001	< 0.001	-	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-	-	< 0.003	< 0.003	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	0.758	0.915	0.825	0.833	-	-	-	-	-	-
Selenium - Dissolved	mg/L	-	-	0.00025	0.00031	0.00026	0.00023	< 0.004	< 0.004	< 0.001	< 0.001	-	0.001
Silicon - Dissolved	mg/L	-	-	5.58	4.63	6.68	4.78	5.86	5.71	5.38	5.46	-	5.36
Silver - Dissolved	mg/L	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001
Sodium - Dissolved	mg/L	-	-	5.35	5.65	5.63	6.85	-	-	-	5.04	-	0.521
Strontium - Dissolved	mg/L	-	-	0.647	0.537	0.597	0.52	0.582	0.597	0.606	0.493	-	-
Thallium - Dissolved	mg/L	-	-	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	< 0.0003
Tin - Dissolved	mg/L	-	-	0.00014	0.00036	0.00062	0.0204	0.003	< 0.002	< 0.002	< 0.002	-	< 0.002
Titanium - Dissolved	mg/L	-	-	0.0009	0.00167	0.002	0.00026	0.009	0.007	< 0.002	0.002	-	< 0.002
Uranium - Dissolved	mg/L	-	-	0.000279	0.000379	0.000361	0.000324	< 0.002	< 0.002	< 0.0005	< 0.0005	-	< 0.0005
Vanadium - Dissolved	mg/L	-	-	0.00052	0.0001	0.00039	0.00068	< 0.002	< 0.002	< 0.002	< 0.002	-	< 0.002
Zinc - Dissolved	mg/L	0.002	0.003	< 0.002	0.003	< 0.002	< 0.002	< 0.005	0.008	< 0.005	< 0.005	-	< 0.005
Zirconium - Dissolved	mg/L	-	-	-	-	-	-	< 0.004	< 0.004	< 0.004	< 0.004	-	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB6D (2)
2023-08-22
8.2
7.72
412
7.2
-
7.92
232
232
5.7
226
356
-106
0.7
< 0.002
< 0.002
< 0.05
9.38
< 0.02
< 0.05
< 0.02
-
-
0.007
< 0.001
0.004
0.03
< 0.0005
< 0.002
0.024
< 0.0001
-
< 0.003
0.001
< 0.001
0.057
< 0.0005
< 0.050
19.5
0.147
< 0.0001
0.002
0.001
-
-
< 0.001
5.2
0.0001
0.596
-
< 0.0003
< 0.002
< 0.002
< 0.0005
< 0.002
< 0.005
< 0.004

Monitoring Well ID.			MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S	MW-UB6S
Sampling Date	**Unit**	**WQG PAL[1]**	**2018-06-18**	**2018-08-21**	**2019-06-25**	**2019-08-20**	**2020-04-27**	**2020-08-24**	**2021-06-15**	**2021-08-18**	**2021-11-17**	**2022-03-17**	**2022-05-19**	**2022-08-17**
Field Measured														
Temperature Field	°C	-	6.7	9.0	6.6	6.6	6.0	6.9	4.8	6.6	6.6	6.1	6.2	6.5
pH Field	pH units	6.5-8.5	7.9	8.1	6.88	8.76	6.85	6.81	6.86	6.8	6.96	6.81	6.76	6.77
Conductivity Field	µS/cm	-	791	376	745	693	614	614	592	582	571	558	585	624
Dissolved Oxygen Field	mg/L	-	3.02	4.92	3.53	3.33	4.66	4.49	5.87	4.0	5.0	4.5	4.58	5.08
Oxidation-Reduction Potential Field	mV	-	124	45.9	157	98.0	118	7.9	207	166	144	148	241	205
Conventional Parameters														
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	464	198	383	364	334	328	278	281	287	279	272	-
Alkalinity, Total (as CaCO3)	mg/L	-	393	223	384	335	303	280	300	334	277	279	275	-
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	< 2	-	-	-	45.0	23.0	-
Total Dissolved Solids	mg/L	-	483	246	434	426	366	354	340	346	314	322	336	-
Total Suspended Solids	mg/L	-	463	709	413	125	395	33.0	326	121	24.0	248	157	-
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions														
Chloride	mg/L	150	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	0.009	< 0.002	0.009	0.011	-
Fluoride	mg/L	-	-	-	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Sulphate	mg/L	218	49.0	13.0	43.0	41.0	38.0	39.0	34.5	32.6	34.0	34.1	35.7	-
Nutrients														
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-
Nitrate (as N)	mg/L	2.94	-	-	-	-	-	-	2.05	2.2	2.22	2.28	2.44	-
Nitrite (as N)	mg/L	0.06	-	-	-	-	-	-	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	-
Ammonia, Un-ionized (as N)	mg/L	0.02	< 0.001	-	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Metals														
Aluminum - Dissolved	mg/L	0.36	0.003	0.008	0.006	0.016	0.012	< 0.001	0.053	0.012	< 0.004	0.013	0.014	-
Antimony - Dissolved	mg/L	0.02	-	-	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-
Arsenic - Dissolved	mg/L	0.005	< 0.0002	0.0024	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.003	< 0.003	0.006	< 0.001	< 0.001	-
Barium - Dissolved	mg/L	-	-	-	-	-	0.0283	0.0254	0.024	0.022	0.023	0.024	0.027	-
Beryllium - Dissolved	mg/L	0.011	-	-	< 0.000007	0.000009	< 0.000007	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-
Bismuth - Dissolved	mg/L	-	-	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Boron - Dissolved	mg/L	1.5	-	-	0.021	0.027	0.023	0.02	0.022	0.026	0.023	0.025	0.025	-
Cadmium - Dissolved	mg/L	0.0001	0.000042	0.000003	0.000031	0.000035	0.000012	0.000014	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Calcium - Dissolved	mg/L	-	161	53.8	128	123	113	105	-	-	-	92.9	90.1	-
Chromium - Dissolved	mg/L	0.0089	-	-	0.00131	0.00123	0.00118	0.00118	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-
Cobalt - Dissolved	mg/L	0.00078	-	-	0.000739	0.000785	0.000423	0.000697	0.0006	0.0005	0.0007	0.001	0.0007	-
Copper - Dissolved	mg/L	0.005	0.0107	0.0004	0.0123	0.011	0.0096	0.0108	0.009	0.01	0.009	0.01	0.012	-
Iron - Dissolved	mg/L	1	0.007	0.016	0.021	0.022	0.009	0.007	0.051	< 0.01	0.018	0.01	0.013	-
Lead - Dissolved	mg/L	0.003	0.00002	0.00002	0.00001	0.00006	0.00001	< 0.00001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	-
Lithium - Dissolved	mg/L	-	-	-	0.0003	0.0002	0.0002	0.0002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
Magnesium - Dissolved	mg/L	-	15.3	15.5	15.4	14.0	12.7	13.3	-	-	-	11.4	11.3	-
Manganese - Dissolved	mg/L	-	-	-	0.00076	0.00092	0.00072	0.00041	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Mercury - Dissolved	mg/L	0.000026	-	-	-	-	-	-	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-
Molybdenum - Dissolved	mg/L	0.073	0.0483	0.00339	0.047	0.0453	0.0405	0.0425	0.043	0.044	0.043	0.041	0.047	-
Nickel - Dissolved	mg/L	0.025	0.0009	< 0.0001	0.0008	0.0007	0.0006	0.0008	< 0.003	< 0.003	0.001	< 0.001	< 0.001	-
Phosphorus - Dissolved	mg/L	0.03	-	-	-	-	< 0.003	< 0.003	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	-	-	8.7	8.88	8.24	7.98	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	-	-	0.00007	0.00008	< 0.00004	0.00006	< 0.004	< 0.004	0.003	< 0.001	< 0.001	-
Silicon - Dissolved	mg/L	-	-	-	3.85	3.99	4.64	3.66	3.34	3.83	3.99	3.86	3.61	-
Silver - Dissolved	mg/L	0.00025	-	-	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0001	-
Sodium - Dissolved	mg/L	-	-	-	8.34	8.11	6.89	7.3	-	-	-	5.21	4.97	-
Strontium - Dissolved	mg/L	2.5	-	-	0.31	0.297	0.275	0.24	0.229	0.265	0.223	0.23	0.244	-
Thallium - Dissolved	mg/L	0.0008	-	-	0.000007	0.000008	< 0.000005	0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-
Tin - Dissolved	mg/L	0.03	-	-	0.0001	0.0001	0.00008	0.00072	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Titanium - Dissolved	mg/L	-	-	-	0.00132	0.00065	0.00029	0.00017	< 0.002	0.008	< 0.002	< 0.002	< 0.002	-
Uranium - Dissolved	mg/L	0.015	-	-	0.00139	0.00122	0.00124	0.00111	< 0.002	< 0.002	0.0011	0.001	0.001	-
Vanadium - Dissolved	mg/L	0.12	-	-	0.0003	0.0003	0.00026	0.00026	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-
Zinc - Dissolved	mg/L	0.023	0.003	0.01	0.002	< 0.002	0.008	0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-
Zirconium - Dissolved	mg/L	0.004	-	-	-	-	-	-	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB6S (2)	MW-UB6S (2)	MW-UB6S (2)
2023-05-08	2023-08-22	2023-11-07
6.1	7.5	6.3
6.66	6.81	6.61
642	658	675
4.81	8.62	5.54
211	-	-
7.48	7.12	7.65
279	350	303
312	315	322
60.5	26.3	23.4
380	366	384
57.0	443	16.0
-	110	292
1.22	1.37	1.81
< 0.002	0.01	0.008
< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05
38.1	43.0	40.9
< 0.02	< 0.02	< 0.02
3.04	3.08	3.01
< 0.02	< 0.02	< 0.02
-	-	-
-	-	-
0.009	< 0.004	< 0.004
< 0.001	< 0.001	< 0.001
< 0.001	< 0.001	< 0.001
0.026	0.018	0.02
< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002
0.022	0.024	0.026
< 0.0001	< 0.0001	< 0.0001
-	-	-
< 0.003	< 0.003	< 0.003
0.0005	0.0006	0.0008
0.011	0.01	0.011
0.012	< 0.010	< 0.010
< 0.0005	< 0.0005	< 0.0005
< 0.050	< 0.050	< 0.050
12.1	14.1	13.3
< 0.002	< 0.002	< 0.002
< 0.0001	< 0.0001	< 0.0001
0.038	0.037	0.037
0.001	0.001	< 0.001
-	-	-
-	-	-
< 0.001	< 0.001	< 0.001
3.87	3.8	4.22
< 0.0001	< 0.0001	< 0.0001
0.245	0.234	0.233
-	-	-
< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002
0.004	< 0.002	< 0.002
0.0011	0.001	0.0011
< 0.002	< 0.002	< 0.002
< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004

Monitoring Well ID.		MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D
Sampling Date	**Unit**	**2020-04-28**	**2020-08-25**	**2020-11-26**	**2021-03-31**	**2021-04-28**	**2021-05-20**	**2021-06-15**	**2021-07-21**	**2021-08-18**	**2021-09-14**	**2021-10-14**	**2021-11-16**
Field Measured													
Temperature Field	°C	5.4	6.5	5.8	5.4	5.0	8.8	4.6	6.6	7.1	6.8	7.8	6.2
pH Field	pH units	7.56	7.34	7.66	7.38	7.25	8.45	7.27	7.32	7.21	7.2	7.64	7.27
Conductivity Field	µS/cm	404	410	387	396	396	416	406	394	393	393	461	410
Dissolved Oxygen Field	mg/L	3.53	2.25	4.95	3.67	4.39	8.5	3.0	3.26	2.75	2.71	2.5	6.6
Oxidation-Reduction Potential Field	mV	-24.5	-22.7	-39.0	-	60.4	72.9	116	33.1	40.9	28.6	7.6	8.2
Conventional Parameters													
pH	pH units	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	223	255	238	281	211	202	198	196	204	206	211	208
Alkalinity, Total (as CaCO3)	mg/L	206	220	194	209	198	206	226	204	216	202	221	219
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	226	211	257	214	240	222	244	246	242	248	236	246
Total Suspended Solids	mg/L	19.0	191	7.0	8.0	8.0	109	26.0	< 10	< 10	20.0	< 10	< 10
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	-	-	-	2.0	1.0	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.2	< 0.005	< 0.005	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	< 0.06	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	12.0	14.0	8.0	8.0	8.0	8.61	6.93	8.61	6.41	10.5	8.12	6.74
Nutrients													
Ammonia, Total (as N)	mg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.06	< 0.02	0.03	< 0.02	< 0.02	0.11	0.05
Nitrate (as N)	mg/L	-	-	-	< 0.06	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	-	-	-	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	0.001	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	< 0.06	< 0.06	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.01	0.01	0.012	0.037	0.009	0.024	0.022	0.04	0.021	0.01	0.019	0.015
Antimony - Dissolved	mg/L	0.0031	0.0022	0.0014	0.0019	0.0022	0.001	0.002	0.002	0.002	0.002	0.001	0.001
Arsenic - Dissolved	mg/L	0.0572	0.0417	0.0457	0.0517	0.0433	0.031	0.042	0.025	0.035	0.043	0.036	0.035
Barium - Dissolved	mg/L	0.0322	0.0363	0.0327	0.0312	0.0313	0.025	0.027	0.029	0.027	0.03	0.027	0.024
Beryllium - Dissolved	mg/L	0.000063	0.000043	0.000065	0.000065	0.000044	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.011	0.007	0.007	0.007	0.007	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.013
Cadmium - Dissolved	mg/L	0.000004	< 0.000003	0.000004	0.00001	0.000008	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	79.7	75.4	82.1	89.2	74.9	-	-	-	-	-	75.6	-
Chromium - Dissolved	mg/L	0.00031	0.00028	0.00087	0.00028	0.0003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.000562	0.000522	0.000492	0.000543	0.00072	< 0.0005	0.0008	0.0012	0.0007	0.001	0.0006	< 0.0005
Copper - Dissolved	mg/L	0.0011	0.0009	0.0014	0.0012	0.0024	0.002	0.003	0.004	0.002	0.003	0.002	0.001
Iron - Dissolved	mg/L	0.214	0.239	0.253	0.56	0.147	0.623	0.338	0.121	0.188	0.569	0.224	0.593
Lead - Dissolved	mg/L	0.00002	0.00011	0.00008	0.00013	< 0.00009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005
Lithium - Dissolved	mg/L	0.0005	0.0004	0.0005	0.0005	0.0003	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	5.9	5.9	5.43	6.75	5.88	-	-	-	-	-	5.48	-
Manganese - Dissolved	mg/L	0.634	0.69	0.765	0.836	0.795	0.761	0.768	0.782	0.779	0.837	0.747	0.836
Mercury - Dissolved	mg/L	-	-	< 0.00001	-	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.0112	0.01	0.00935	0.00955	0.0105	0.008	0.011	0.011	0.009	0.009	0.009	0.008
Nickel - Dissolved	mg/L	0.0015	0.0016	0.0012	0.0011	0.0013	< 0.003	< 0.003	0.008	< 0.003	< 0.003	< 0.003	0.001
Phosphorus - Dissolved	mg/L	< 0.003	< 0.003	< 0.003	0.006	< 0.003	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	0.682	0.581	0.478	0.557	0.482	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.00024	0.00008	0.00009	0.00007	0.00011	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001
Silicon - Dissolved	mg/L	7.3	5.19	6.45	6.64	5.95	6.03	5.85	6.41	6.96	6.78	5.93	6.1
Silver - Dissolved	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	7.34	5.43	4.18	4.15	3.44	-	-	-	-	-	-	-
Strontium - Dissolved	mg/L	0.204	0.181	0.2	0.191	0.189	0.175	0.224	0.195	0.164	0.189	0.188	0.194
Thallium - Dissolved	mg/L	0.000026	0.00002	0.000019	0.000011	0.000016	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.00307	0.00372	0.00207	0.00207	0.0007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	0.00037	0.00045	0.00047	0.00086	0.00045	< 0.002	0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.0013	0.000902	0.000666	0.000625	0.000601	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005
Vanadium - Dissolved	mg/L	0.0016	0.00115	0.00111	0.00096	0.00082	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	0.014	0.013	0.007	0.007	< 0.005	0.008	0.007	< 0.005	0.01	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D	MW-UB7D (2)	MW-UB7D (2)	MW-UB7D (2)
2021-12-14	2022-01-31	2022-02-16	2022-03-15	2022-04-22	2022-05-16	2022-06-15	2022-07-20	2022-08-17	2022-09-21	2022-10-19	2023-05-09	2023-08-18	2023-11-08
6.4	5.5	5.2	5.3	5.0	5.9	6.9	6.7	7.8	7.8	7.0	5.4	6.8	6.4
7.3	7.15	7.19	7.18	7.13	7.13	8.72	6.72	7.1	7.03	7.18	7.2	7.2	6.99
405	408	406	394	408	409	404	394	415	408	419	423	364	419
4.33	5.7	4.79	2.94	3.84	3.56	5.21	3.54	4.0	2.67	7.33	7.71	3.46	2.78
51.1	93.0	113	33.4	99.3	135	-37.1	97.4	104	129	195	201	-	-
-	-	-	-	-	-	-	-	-	-	-	7.95	7.53	7.76
212	212	201	215	217	205	199	219	-	-	-	213	216	209
225	215	208	219	214	211	213	202	-	-	-	228	228	223
-	30.0	25.0	15.0	14.0	18.0	10.0	5.9	-	-	-	< 5.0	10.5	12.4
242	260	224	250	160	242	236	258	-	-	-	216	244	230
< 10	< 10	1670	188	98.0	35.0	16.0	131	-	-	-	57.0	60.0	228
-	-	-	-	-	-	-	-	-	-	-	-	142	110
-	-	-	-	-	-	-	-	-	-	-	1.84	2.08	1.82
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
7.34	7.61	8.13	7.29	8.46	8.85	8.8	6.97	-	-	-	7.6	4.88	5.36
0.04	0.03	0.03	0.03	< 0.02	< 0.02	0.02	0.03	-	-	-	< 0.02	< 0.02	< 0.02
< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.013	0.017	0.019	0.024	0.023	0.018	0.01	0.021	-	-	-	0.012	0.013	0.009
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-	-	-	0.001	0.001	0.001
0.039	0.029	0.017	0.029	0.029	0.009	0.018	0.022	-	-	-	0.024	0.034	0.016
0.025	0.022	0.026	0.025	0.024	0.03	0.02	0.022	-	-	-	0.022	0.023	0.021
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.01	< 0.01	0.014	0.011	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.010	< 0.010	< 0.010
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
-	-	-	76.7	77.1	73.0	70.3	77.3	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	0.0005
0.006	0.002	0.002	0.002	0.002	0.003	0.002	0.003	-	-	-	0.002	0.002	0.002
0.773	0.513	0.193	0.043	0.064	0.127	0.089	0.163	-	-	-	0.084	0.066	0.062
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
-	-	-	5.75	5.85	5.46	5.72	6.36	-	-	-	5.82	5.01	6.07
0.848	0.512	0.58	0.395	0.354	0.316	0.327	0.239	-	-	-	0.957	0.68	0.838
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
0.009	0.008	0.008	0.009	0.009	0.01	0.012	0.009	-	-	-	0.012	0.009	0.01
0.002	0.001	< 0.001	0.002	< 0.001	< 0.001	0.001	0.001	-	-	-	0.002	0.001	0.001
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	0.22	0.54	-	-	-	-	-	-
< 0.001	0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
7.31	6.22	5.82	6.09	6.02	5.89	6.33	6.01	-	-	-	5.85	6.0	6.05
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
-	-	-	3.09	3.14	2.85	3.8	3.1	-	-	-	0.205	0.208	0.2
0.197	0.175	0.25	0.286	0.238	0.209	0.195	0.206	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	0.009	< 0.002
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.008	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S
Sampling Date	**Unit**	**WQG PAL[1]**	**2020-04-28**	**2020-08-25**	**2020-11-26**	**2021-03-31**	**2021-04-28**	**2021-05-20**	**2021-06-15**	**2021-07-21**	**2021-08-18**	**2021-09-14**	**2021-10-14**
Field Measured													
Temperature Field	°C	-	4.6	7.4	6.4	5.3	4.2	8.3	4.7	8.2	9.8	8.3	8.9
pH Field	pH units	6.5-8.5	7.24	7.17	7.35	7.24	7.0	-	7.38	7.32	7.15	7.15	7.41
Conductivity Field	µS/cm	-	321	372	330	335	338	326	371	378	386	367	437
Dissolved Oxygen Field	mg/L	-	4.12	4.67	4.72	7.28	2.61	4.41	6.08	6.82	4.25	3.21	3.65
Oxidation-Reduction Potential Field	mV	-	-3.2	-14.8	-23.7	-27.0	-24.3	25.3	7.5	-35.8	-30.0	-44.4	-
Conventional Parameters													
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	161	200	196	228	158	158	169	170	178	178	177
Alkalinity, Total (as CaCO3)	mg/L	-	138	174	146	182	149	158	197	169	189	176	170
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-
Total Dissolved Solids	mg/L	-	194	220	211	191	111	190	214	234	254	240	212
Total Suspended Solids	mg/L	-	29.0	29.0	13.0	15.0	222	150	68.0	18.0	31.0	34.0	20.0
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	150	-	-	-	3.0	2.0	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.2	< 0.005	< 0.005	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	< 0.06	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	218	11.0	17.0	9.0	12.0	12.0	8.42	11.2	16.8	13.0	10.7	14.3
Nutrients													
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.05	< 0.02	0.02	< 0.02	0.04	< 0.02
Nitrate (as N)	mg/L	2.94	-	-	-	0.07	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	-	-	-	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ammonia, Un-ionized (as N)	mg/L	0.02	-	-	-	-	< 0.001	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	0.07	< 0.06	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.36	0.042	0.051	0.05	0.039	0.05	0.047	0.063	0.046	0.054	0.04	0.046
Antimony - Dissolved	mg/L	0.02	0.0031	0.0027	0.001	0.0013	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0103	0.0122	0.0083	0.0127	0.0044	< 0.003	0.01	0.005	< 0.003	0.01	0.005
Barium - Dissolved	mg/L	-	0.00891	0.011	0.0115	0.0116	0.0124	0.009	0.01	0.01	0.01	0.013	0.01
Beryllium - Dissolved	mg/L	0.011	0.000044	0.000054	0.000053	0.000048	0.000033	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	0.008	0.007	0.007	0.006	0.009	< 0.01	< 0.01	< 0.01	< 0.01	0.014	< 0.01
Cadmium - Dissolved	mg/L	0.0001	0.000005	0.000006	0.000005	0.00001	0.000018	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	60.9	69.3	66.9	77.0	59.5	-	-	-	-	-	66.1
Chromium - Dissolved	mg/L	0.0089	0.0005	0.0007	0.00115	0.00032	0.00033	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	0.00545	0.00677	0.00691	0.00686	0.00562	0.0034	0.0051	0.0054	0.006	0.0068	0.007
Copper - Dissolved	mg/L	0.005	0.003	0.0032	0.0029	0.0014	0.0024	0.002	0.001	0.003	0.002	0.003	0.004
Iron - Dissolved	mg/L	1	0.488	0.621	0.52	0.847	0.298	0.333	0.638	0.431	0.389	0.753	0.472
Lead - Dissolved	mg/L	0.003	0.00097	0.00132	0.00057	0.0006	0.0004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Lithium - Dissolved	mg/L	-	0.0007	0.0005	0.0007	0.0006	0.0004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	2.28	2.78	2.4	3.21	2.26	-	-	-	-	-	2.79
Manganese - Dissolved	mg/L	-	1.23	1.48	1.38	1.61	1.21	0.877	1.17	1.23	1.12	1.35	1.29
Mercury - Dissolved	mg/L	0.000026	-	-	0.00002	-	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00503	0.00588	0.00587	0.00522	0.00441	0.003	0.004	0.005	0.004	0.005	0.005
Nickel - Dissolved	mg/L	0.025	0.0064	0.0064	0.0053	0.0042	0.0039	< 0.003	0.005	0.004	0.004	0.005	0.005
Phosphorus - Dissolved	mg/L	0.03	< 0.003	0.003	< 0.003	0.01	0.003	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	0.333	0.386	0.337	0.381	0.32	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	0.00016	0.00012	0.00013	0.00005	0.00008	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Silicon - Dissolved	mg/L	-	6.62	5.15	7.03	6.42	5.16	4.19	4.89	6.22	5.89	6.06	5.58
Silver - Dissolved	mg/L	0.00025	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	2.33	3.72	2.4	2.68	2.3	-	-	-	-	-	-
Strontium - Dissolved	mg/L	2.5	0.158	0.187	0.184	0.19	0.256	0.15	0.211	0.189	0.186	0.194	0.177
Thallium - Dissolved	mg/L	0.0008	0.000103	0.000112	0.000048	0.000073	0.00004	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	0.00181	0.00189	0.00385	0.00224	0.00154	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	0.0012	0.00147	0.00186	0.00095	0.0015	0.006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.015	0.000223	0.000298	0.00016	0.000118	0.000161	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium - Dissolved	mg/L	0.12	0.0008	0.0016	0.00132	0.00081	0.0006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	0.008	0.006	0.009	0.007	0.007	0.011	0.008	0.008	0.009	0.009	0.007
Zirconium - Dissolved	mg/L	0.004	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S	MW-UB7S (2)	MW-UB7S (2)	MW-UB7S (2)
2021-11-16	2021-12-14	2022-01-31	2022-02-15	2022-03-15	2022-04-22	2022-05-16	2022-06-15	2022-07-20	2022-08-17	2022-09-21	2022-10-19	2023-05-09	2023-08-18	2023-11-08
7.7	6.8	4.5	4.0	4.5	4.2	4.9	6.8	7.7	10.7	9.0	8.1	4.6	8.3	6.9
7.19	7.16	7.08	7.16	7.4	7.4	7.13	7.8	7.13	7.4	7.05	6.99	7.06	7.35	7.07
361	363	355	347	349	352	341	340	353	288	379	378	301	354	360
3.19	4.32	5.23	4.4	5.47	5.02	6.16	3.66	6.21	5.17	5.99	7.83	7.01	6.81	8.4
-	-41.0	24.9	15.1	-	73.8	71.8	-8.4	-20.9	72.3	48.2	117	191	-	-
-	-	-	-	-	-	-	-	-	-	-	-	7.8	7.31	7.5
175	178	178	172	185	147	157	166	172	-	-	-	173	185	146
181	187	174	171	189	149	158	178	170	-	-	-	171	209	175
-	-	35.0	20.0	20.0	20.0	17.0	12.0	6.4	-	-	-	6.1	13.8	14.4
218	218	224	196	224	196	198	194	226	-	-	-	198	236	196
26.0	140	53.0	172	60.0	19.0	18.0	15.0	24.0	-	-	-	19.0	18.0	< 10
-	-	-	-	-	-	-	-	-	-	-	-	-	70.4	159
-	-	-	-	-	-	-	-	-	-	-	-	1.84	1.87	1.35
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	0.004	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
11.2	10.2	7.98	9.0	8.26	13.4	9.98	9.89	8.49	-	-	-	10.5	6.58	8.16
0.03	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.034	0.022	0.041	0.037	0.045	0.025	0.013	0.02	0.049	-	-	-	0.016	0.025	0.021
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.006	0.005	0.003	0.003	0.005	0.003	< 0.001	0.003	0.004	-	-	-	0.004	0.016	0.004
0.009	0.011	0.008	0.009	0.01	0.007	0.007	0.007	0.008	-	-	-	0.007	0.012	0.007
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.013	< 0.01	< 0.01	0.011	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.010	< 0.010	< 0.010
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
-	-	-	-	69.2	55.1	58.9	62.3	64.2	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
0.006	0.0066	0.0058	0.0056	0.0068	0.0045	0.0041	0.0036	0.005	-	-	-	0.0051	0.007	0.0048
0.003	0.002	0.004	0.004	0.002	0.002	0.002	0.002	0.003	-	-	-	< 0.001	< 0.001	0.001
0.491	0.263	0.307	0.245	0.492	0.302	0.336	0.386	0.419	-	-	-	0.42	0.729	0.379
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
-	-	-	-	2.85	2.28	2.44	2.55	2.85	-	-	-	2.76	2.28	2.42
1.24	1.37	1.18	1.11	1.3	0.909	0.922	0.781	1.01	-	-	-	1.06	1.21	0.905
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
0.004	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.005	-	-	-	0.003	0.005	0.003
0.005	0.003	0.005	0.005	0.006	0.005	0.004	0.005	0.005	-	-	-	0.004	0.005	0.004
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	0.25	0.43	-	-	-	-	-	-
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	0.001
5.66	7.11	5.05	4.8	4.88	5.03	5.07	4.98	4.89	-	-	-	5.14	5.5	5.68
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
-	-	-	-	2.05	2.57	2.21	2.57	3.26	-	-	-	0.15	0.189	0.151
0.18	0.214	0.185	0.189	0.183	0.157	0.152	0.159	0.183	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	0.003	0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.005	0.005	0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	< 0.005	< 0.005	0.005
< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8
Sampling Date	**Unit**	**WQG PAL[1]**	**2021-04-28**	**2021-05-19**	**2021-06-16**	**2021-07-19**	**2021-08-18**	**2021-09-14**	**2021-10-14**	**2021-11-17**	**2021-12-16**	**2022-01-28**	**2022-02-17**
Field Measured													
Temperature Field	°C	-	4.6	5.7	4.8	7.4	8.2	8.5	9.2	8.2	7.7	5.7	5.3
pH Field	pH units	6.5-8.5	6.24	6.45	6.37	6.46	6.18	6.18	6.76	6.41	6.33	6.15	6.29
Conductivity Field	µS/cm	-	476	465	462	484	460	464	577	521	516	462	520
Dissolved Oxygen Field	mg/L	-	2.5	5.88	3.33	3.15	2.88	3.36	2.49	2.37	2.9	5.74	5.62
Oxidation-Reduction Potential Field	mV	-	-21.5	-28.2	-11.1	-21.3	-8.5	-20.4	-	-	84.0	8.9	1.8
Conventional Parameters													
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	239	283	231	226	232	229	236	252	262	253	238
Alkalinity, Total (as CaCO3)	mg/L	-	241	275	268	240	242	236	242	261	254	225	230
Acidity (as CaCO3)	mg/L	-	< 2	96.0	-	-	-	-	-	-	-	204	129
Total Dissolved Solids	mg/L	-	377	282	231	328	310	326	318	334	362	290	338
Total Suspended Solids	mg/L	-	594	322	230	422	490	471	208	297	304	340	497
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	150	4.0	-	-	-	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	218	< 2	4.4	3.99	2.49	2.17	1.46	1.38	1.25	1.24	2.47	1.8
Nutrients													
Ammonia, Total (as N)	mg/L	-	1.9	1.07	1.15	1.43	1.28	1.27	1.23	1.25	1.09	1.05	1.22
Nitrate (as N)	mg/L	2.94	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.06	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	0.02	0.024	-	-	-	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	< 0.06	-	-	-	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.36	0.013	0.064	0.029	0.287	0.025	0.018	0.044	0.015	0.01	0.047	0.084
Antimony - Dissolved	mg/L	0.02	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0004	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	0.01	< 0.001	< 0.001	< 0.001
Barium - Dissolved	mg/L	-	0.0798	0.063	0.076	0.084	0.078	0.08	0.082	0.082	0.086	0.07	0.064
Beryllium - Dissolved	mg/L	0.011	0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.011	0.014	< 0.01	0.026
Cadmium - Dissolved	mg/L	0.0001	< 0.000003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	65.5	-	-	-	-	-	63.6	-	-	-	-
Chromium - Dissolved	mg/L	0.0089	0.00079	< 0.003	< 0.002	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	0.0003	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	0.002	0.001
Iron - Dissolved	mg/L	1	16.8	17.4	17.3	17.9	15.7	17.5	16.4	18.5	20.6	16.2	15.5
Lead - Dissolved	mg/L	0.003	< 0.00009	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	-	0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	18.5	-	-	-	-	-	18.7	-	-	-	-
Manganese - Dissolved	mg/L	-	0.974	0.925	0.947	0.922	0.859	0.936	0.886	0.957	1.11	0.835	0.802
Mercury - Dissolved	mg/L	0.000026	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.025	0.0007	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.001	0.001	0.002	0.001
Phosphorus - Dissolved	mg/L	0.03	0.231	-	-	-	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	0.459	-	-	-	-	-	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	0.00014	< 0.004	< 0.001	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	-	19.9	19.0	22.3	22.0	23.1	22.3	22.1	21.5	20.9	20.0	19.9
Silver - Dissolved	mg/L	0.00025	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001
Sodium - Dissolved	mg/L	-	6.51	-	-	-	-	-	-	-	-	-	-
Strontium - Dissolved	mg/L	2.5	0.224	0.169	0.23	0.219	0.192	0.226	0.227	0.24	0.271	0.193	0.185
Thallium - Dissolved	mg/L	0.0008	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	0.00007	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	0.00082	0.035	< 0.002	0.015	< 0.002	< 0.002	< 0.002	< 0.002	0.004	0.006	< 0.002
Uranium - Dissolved	mg/L	0.015	0.000012	< 0.002	< 0.0005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.12	0.00041	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	0.004	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8	MW-UB8 (2)	MW-UB8 (2)	MW-UB8 (2)
2022-03-18	2022-04-21	2022-05-20	2022-06-14	2022-07-20	2022-08-17	2022-09-21	2022-10-20	2023-05-16	2023-08-17	2023-11-07
5.3	4.6	4.4	6.3	7.2	8.2	8.9	8.4	4.5	7.7	7.3
6.27	6.26	6.24	7.05	6.21	6.28	6.16	6.07	6.17	6.1	6.12
459	389	467	431	508	515	495	510	495	476	493
3.12	2.68	3.65	4.13	1.86	3.15	3.16	2.24	3.33	2.73	5.34
-1.0	-4.3	-10.2	-22.3	-23.3	-27.8	13.8	-2.9	25.3	-	-
-	-	-	-	-	-	-	-	6.81	6.62	7.6
237	205	200	165	246	-	-	-	259	222	131
254	198	226	224	224	-	-	-	258	264	267
124	93.0	115	104	53.0	-	-	-	64.7	30.8	138
328	224	316	304	332	-	-	-	336	376	370
163	157	742	86.0	282	-	-	-	168	204	239
-	-	-	-	-	-	-	-	-	13.9	82.1
-	-	-	-	-	-	-	-	9.53	9.57	10.7
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
1.61	6.8	6.34	6.29	2.45	-	-	-	1.77	0.6	1.3
1.27	1.02	1.23	1.16	1.39	-	-	-	1.18	1.39	1.16
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
0.057	0.027	0.028	0.033	0.033	-	-	-	0.022	0.021	0.01
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	0.011	< 0.001
0.083	0.06	0.071	0.066	0.077	-	-	-	0.081	0.078	0.039
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.010	< 0.010	< 0.010
< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
64.4	55.7	54.1	44.0	67.0	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
0.001	< 0.001	0.001	< 0.001	< 0.001	-	-	-	0.001	< 0.001	< 0.001
16.4	13.9	13.9	14.7	18.4	-	-	-	19.6	18.1	11.6
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
18.6	16.0	15.8	13.3	19.2	-	-	-	20.6	14.4	10.2
1.05	0.782	0.751	0.772	0.966	-	-	-	1.02	1.03	0.615
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.001	< 0.001	< 0.001	0.002	0.002	-	-	-	0.001	0.001	< 0.001
-	-	-	-	-	-	-	-	-	-	-
-	-	-	< 0.05	0.57	-	-	-	-	-	-
0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
19.7	18.6	18.4	19.9	20.7	-	-	-	19.6	20.0	21.8
0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
6.97	6.16	6.24	6.19	6.85	-	-	-	0.218	0.233	0.137
0.249	0.18	0.175	0.185	0.203	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	0.004	0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.006	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.		MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D
Sampling Date	**Unit**	**2020-06-23**	**2020-08-25**	**2020-11-26**	**2021-03-30**	**2021-04-28**	**2021-05-20**	**2021-06-16**	**2021-07-21**	**2021-08-18**	**2021-09-14**	**2021-10-14**	**2021-11-17**
Field Measured													
Temperature Field	°C	6.3	5.8	5.2	5.4	5.4	6.3	4.9	6.2	5.9	5.9	6.3	5.2
pH Field	pH units	8.17	8.1	8.15	7.95	7.96	7.99	8.07	8.57	7.93	7.88	8.3	8.14
Conductivity Field	µS/cm	439	442	450	442	383	430	442	423	404	424	492	354
Dissolved Oxygen Field	mg/L	0.67	0.47	0.74	0.77	1.03	1.95	1.8	1.94	1.04	1.63	2.51	1.62
Oxidation-Reduction Potential Field	mV	-	-	-	-	-	-	-	-	-	-	-	-
Conventional Parameters													
pH	pH units	-	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	226	8190	1180	2089	243	263	232	682	222	374	221	246
Alkalinity, Total (as CaCO3)	mg/L	247	309	249	272	256	251	275	249	262	246	248	253
Acidity (as CaCO3)	mg/L	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	240	277	260	257	269	242	232	258	252	250	236	236
Total Suspended Solids	mg/L	44000	69600	7170	12500	9470	37500	45300	23600	32700	14300	22200	45300
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	-	-	-	4.0	< 1	-	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	< 0.005	< 0.005	< 0.005	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	0.13	0.14	0.09	< 0.05	< 0.05	0.06	0.12	0.1	0.05
Sulphate	mg/L	3.0	31.0	< 2	< 2	3.0	2.36	3.79	2.1	0.99	0.75	0.95	0.82
Nutrients													
Ammonia, Total (as N)	mg/L	0.5	0.6	0.5	0.6	0.5	0.24	0.14	0.03	0.19	0.22	0.14	0.13
Nitrate (as N)	mg/L	-	-	-	< 0.06	< 0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	-	-	-	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-	-	0.002	-	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	< 0.06	< 0.06	-	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.005	< 0.001	0.151	< 0.001	0.359	< 0.004	0.007	5.47	0.021	< 0.004	0.007	< 0.004
Antimony - Dissolved	mg/L	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.0021	0.003	0.0017	0.0013	0.002	< 0.003	0.002	0.004	0.003	< 0.003	< 0.003	0.006
Barium - Dissolved	mg/L	0.0356	0.0422	0.0508	0.04	0.0449	0.032	0.035	0.117	0.043	0.065	0.035	0.038
Beryllium - Dissolved	mg/L	< 0.000007	< 0.000007	0.000007	< 0.000007	0.00001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.023	0.023	0.024	0.026	0.022	0.028	0.032	0.036	0.024	0.031	0.025	0.028
Cadmium - Dissolved	mg/L	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	57.1	61.5	67.6	74.8	63.3	65.2	-	-	-	-	55.7	-
Chromium - Dissolved	mg/L	0.00011	0.00013	0.00054	< 0.00008	0.00142	< 0.003	< 0.002	0.015	< 0.003	0.006	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.000137	0.00003	0.000159	0.000023	0.00048	< 0.0005	< 0.0005	0.0065	< 0.0005	0.0024	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.0006	< 0.0002	0.0012	< 0.0002	0.0009	< 0.001	< 0.001	0.016	< 0.001	0.003	< 0.001	< 0.001
Iron - Dissolved	mg/L	0.172	0.17	0.361	0.225	0.817	0.145	0.203	9.48	0.187	3.66	0.158	0.733
Lead - Dissolved	mg/L	0.00003	< 0.00001	0.00016	< 0.00001	0.00035	< 0.001	< 0.0005	0.006	< 0.001	0.002	< 0.001	< 0.0005
Lithium - Dissolved	mg/L	0.0023	0.0026	0.0032	0.0033	0.0026	< 0.01	< 0.01	0.011	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	20.4	21.0	19.8	23.3	20.7	24.3	-	-	-	-	19.9	-
Manganese - Dissolved	mg/L	0.0755	0.0765	0.086	0.0783	0.103	0.065	0.068	0.73	0.076	0.314	0.072	0.11
Mercury - Dissolved	mg/L	-	-	< 0.00001	-	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.00079	0.0007	0.00083	0.00043	0.0009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.0003	0.0003	0.0005	< 0.0001	0.0012	< 0.003	< 0.003	0.015	< 0.003	0.007	< 0.003	0.002
Phosphorus - Dissolved	mg/L	0.079	0.057	0.108	0.102	0.149	-	-	-	-	-	-	-
Potassium - Dissolved	mg/L	2.9	3.27	2.86	3.36	2.94	3.67	-	-	-	-	-	-
Selenium - Dissolved	mg/L	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.004	0.001	< 0.004	< 0.004	< 0.004	< 0.004	< 0.001
Silicon - Dissolved	mg/L	9.37	8.19	11.4	12.2	9.47	8.94	9.45	13.5	9.37	11.3	9.15	9.93
Silver - Dissolved	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	9.17	9.53	8.18	9.39	8.1	10.5	-	-	-	-	-	-
Strontium - Dissolved	mg/L	0.622	0.632	0.687	0.719	0.686	0.537	0.619	0.706	0.629	0.634	0.574	0.637
Thallium - Dissolved	mg/L	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.00106	0.00049	0.00283	0.00009	0.00119	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	0.00035	0.00018	0.0083	0.00015	0.0222	< 0.002	< 0.002	0.066	< 0.002	0.029	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.000117	0.000106	0.000081	0.000029	0.00009	< 0.002	< 0.0005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0005
Vanadium - Dissolved	mg/L	0.00018	0.0003	0.0006	0.0001	0.0012	< 0.002	< 0.002	0.014	< 0.002	0.005	< 0.002	< 0.002
Zinc - Dissolved	mg/L	< 0.002	< 0.002	0.002	< 0.002	0.003	< 0.005	< 0.005	0.024	< 0.005	0.031	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D	MW-UB9D (2)	MW-UB9D (2)	MW-UB9D (2)
2021-12-15	2022-01-31	2022-02-23	2022-03-18	2022-04-21	2022-05-20	2022-06-16	2022-07-20	2022-08-18	2022-09-21	2022-10-20	2023-05-16	2023-08-18	2023-11-07
5.1	4.6	4.8	5.3	5.1	5.8	6.1	6.4	6.3	6.1	5.4	5.1	5.7	4.9
8.04	7.92	7.91	8.05	7.95	8.05	8.21	7.9	7.94	7.83	7.81	7.92	7.86	7.75
406	432	428	384	443	440	431	396	446	443	428	417	375	444
2.19	2.95	1.52	2.03	2.46	1.62	2.25	0.94	2.25	1.69	1.52	2.07	2.05	5.28
41.1	-	-	-	-	-	-	-	-	-	-	43.7	-	-
-	-	-	-	-	-	-	-	-	-	-	8.2	8.08	7.94
220	224	470	222	215	208	247	246	-	-	-	242	197	191
262	251	245	256	250	258	261	250	-	-	-	265	295	250
-	15.0	15.0	10.0	5.0	-	12.0	-	-	-	-	< 5.0	< 5.0	11.3
240	244	242	238	226	262	242	262	-	-	-	246	254	252
15400	18700	28700	20600	10200	13200	24700	53700	-	-	-	61600	43700	22500
-	-	-	-	-	-	-	-	-	-	-	-	44.3	178
-	-	-	-	-	-	-	-	-	-	-	0.53	1.66	0.77
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	0.1	< 0.05	0.08	0.06	0.08	< 0.05	< 0.05	-	-	-	0.13	< 0.05	< 0.05
0.93	0.65	0.65	1.15	0.81	1.01	0.95	1.25	-	-	-	0.79	0.46	0.44
0.16	0.16	0.17	0.21	0.18	0.22	0.17	0.14	-	-	-	0.1	0.15	0.14
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.084	0.012	2.56	0.03	0.007	0.024	0.02	0.014	-	-	-	0.006	0.009	< 0.004
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.003	0.002	0.002	< 0.001	0.001	0.045	< 0.001	0.001	-	-	-	0.002	0.015	0.001
0.037	0.035	0.07	0.041	0.031	0.04	0.036	0.034	-	-	-	0.036	0.04	0.035
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.028	0.026	0.032	0.024	0.026	0.027	0.042	0.024	-	-	-	0.027	< 0.010	0.022
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
-	-	-	55.9	54.6	53.6	62.4	62.4	-	-	-	-	-	-
< 0.003	< 0.003	0.007	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	0.0035	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
0.003	< 0.001	0.007	< 0.001	< 0.001	0.001	< 0.001	0.002	-	-	-	< 0.001	< 0.001	< 0.001
0.175	0.206	5.2	0.192	0.185	0.242	0.227	0.192	-	-	-	0.249	0.219	0.161
< 0.0005	< 0.0005	0.0028	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
-	-	-	19.9	19.1	18.1	22.2	21.8	-	-	-	21.0	15.6	17.7
0.085	0.068	0.399	0.065	0.07	0.075	0.071	0.068	-	-	-	0.078	0.07	0.067
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.001	0.001	0.008	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	2.81	3.09	-	-	-	-	-	-
0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
9.09	9.16	12.1	9.16	8.85	8.99	9.59	9.8	-	-	-	8.7	9.1	9.65
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
-	-	-	7.92	7.81	6.83	9.12	8.19	-	-	-	0.589	0.598	0.522
0.651	0.583	0.669	0.558	0.561	0.551	0.629	0.553	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.004	< 0.002	0.059	< 0.002	< 0.002	0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	0.009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.005	< 0.005	0.015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.			MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S
Sampling Date	**Unit**	**WQG PAL[1]**	**2020-06-23**	**2020-08-25**	**2020-11-26**	**2021-03-30**	**2021-04-28**	**2021-05-20**	**2021-06-16**	**2021-07-21**	**2021-08-18**	**2021-09-14**	**2021-10-14**
Field Measured													
Temperature Field	°C	-	5.5	6.7	6.5	4.6	4.2	5.1	4.3	6.9	7.3	8.1	8.6
pH Field	pH units	6.5-8.5	7.58	7.36	7.52	7.33	7.36	7.29	7.39	7.85	7.28	7.38	7.44
Conductivity Field	µS/cm	-	594	618	595	589	583	583	598	581	594	581	679
Dissolved Oxygen Field	mg/L	-	7.36	6.04	5.05	3.06	7.23	4.55	4.42	4.19	2.62	3.86	3.02
Oxidation-Reduction Potential Field	mV	-	-	-25.6	30.0	46.9	31.3	68.9	112	26.1	44.1	50.8	-23.1
Conventional Parameters													
pH	pH units	6.5-8.5	-	-	-	-	-	-	-	-	-	-	-
Hardness (as CaCO3)	mg/L	-	309	430	348	388	304	281	296	287	300	299	306
Alkalinity, Total (as CaCO3)	mg/L	-	328	330	298	346	334	320	351	321	322	320	315
Acidity (as CaCO3)	mg/L	-	< 2	< 2	< 2	< 2	< 2	-	-	-	-	-	-
Total Dissolved Solids	mg/L	-	323	326	354	320	349	298	296	342	310	322	294
Total Suspended Solids	mg/L	-	668	265	617	281	441	1480	1190	400	608	600	447
Oxidation-Reduction Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-
Major Ions													
Chloride	mg/L	150	-	-	-	2.0	< 1	-	-	-	-	-	-
Cyanide (CN), Free	mg/L	-	< 0.005	< 0.005	< 0.005	-	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	-	< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	-	-	-	-	0.12	0.12	< 0.05	< 0.05	< 0.05	< 0.05	0.11	< 0.05
Sulphate	mg/L	218	11.0	11.0	11.0	9.0	8.0	9.92	10.7	9.84	9.83	9.88	10.4
Nutrients													
Ammonia, Total (as N)	mg/L	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	2.94	-	-	-	< 0.06	0.08	< 0.05	< 0.05	0.05	< 0.05	< 0.05	0.05
Nitrite (as N)	mg/L	0.06	-	-	-	< 0.03	< 0.03	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ammonia, Un-ionized (as N)	mg/L	0.02	-	-	-	-	< 0.001	-	-	-	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-	-	< 0.06	0.08	-	-	-	-	-	-
Dissolved Metals													
Aluminum - Dissolved	mg/L	0.36	0.005	0.003	0.003	0.562	0.001	0.018	< 0.004	0.011	0.022	< 0.004	0.01
Antimony - Dissolved	mg/L	0.02	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.005	0.0009	0.0005	0.0005	0.0009	0.0003	< 0.003	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003
Barium - Dissolved	mg/L	-	0.0432	0.0387	0.0366	0.0367	0.0323	0.025	0.025	0.024	0.026	0.026	0.023
Beryllium - Dissolved	mg/L	0.011	< 0.000007	< 0.000007	< 0.000007	0.000026	< 0.000007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	-	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.00001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	1.5	0.008	0.01	0.008	0.009	0.007	< 0.01	< 0.01	< 0.01	0.012	0.012	< 0.01
Cadmium - Dissolved	mg/L	0.0001	< 0.000003	< 0.000003	0.000003	0.000014	< 0.000003	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	80.6	88.1	90.9	110	80.5	72.7	-	-	-	-	80.4
Chromium - Dissolved	mg/L	0.0089	0.0007	0.00118	0.00158	0.00326	0.00063	< 0.003	< 0.002	< 0.003	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	0.00078	0.000236	0.000041	0.000012	0.000685	0.000032	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.005	0.0007	0.0007	0.001	0.0034	< 0.0002	< 0.001	< 0.001	0.001	< 0.001	0.001	< 0.001
Iron - Dissolved	mg/L	1	0.035	0.02	0.017	1.29	0.024	< 0.01	0.026	0.045	0.031	0.179	< 0.01
Lead - Dissolved	mg/L	0.003	0.00003	< 0.00001	0.00004	0.00082	< 0.00009	< 0.001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001
Lithium - Dissolved	mg/L	-	0.0044	0.0058	0.0057	0.0074	0.0043	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium - Dissolved	mg/L	-	26.2	27.3	24.9	32.6	24.9	24.1	-	-	-	-	25.6
Manganese - Dissolved	mg/L	-	0.0598	0.0257	0.0216	0.0967	0.0355	0.026	0.025	0.021	0.023	0.027	0.02
Mercury - Dissolved	mg/L	0.000026	-	-	< 0.00001	-	< 0.00001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.073	0.00079	0.00149	0.00161	0.0004	0.00071	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	0.025	0.0005	0.0003	0.0003	0.0016	0.0002	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Phosphorus - Dissolved	mg/L	0.03	0.003	0.003	0.004	0.108	0.004	-	-	-	-	-	-
Potassium - Dissolved	mg/L	-	1.31	1.58	1.6	1.64	1.27	1.3	-	-	-	-	-
Selenium - Dissolved	mg/L	0.002	0.00007	0.00008	0.00005	0.00007	< 0.00004	< 0.004	< 0.001	< 0.004	< 0.004	< 0.004	< 0.004
Silicon - Dissolved	mg/L	-	8.15	7.97	9.03	9.55	7.18	7.04	7.74	8.36	9.24	8.41	8.05
Silver - Dissolved	mg/L	0.00025	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	-	8.49	9.31	9.1	10.3	7.93	7.99	-	-	-	-	-
Strontium - Dissolved	mg/L	2.5	0.116	0.118	0.126	0.138	0.12	0.103	0.12	0.109	0.096	0.114	0.11
Thallium - Dissolved	mg/L	0.0008	< 0.000005	< 0.000005	0.000005	0.000009	< 0.000005	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.03	0.00007	0.00015	0.00006	< 0.00006	0.00009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	-	0.00019	0.00028	0.0002	0.021	0.00014	< 0.002	< 0.002	< 0.002	0.007	0.007	< 0.002
Uranium - Dissolved	mg/L	0.015	0.00077	0.000761	0.000849	0.000736	0.000595	< 0.002	0.0006	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium - Dissolved	mg/L	0.12	0.00139	0.00191	0.00165	0.00386	0.00129	0.003	< 0.002	< 0.002	< 0.002	0.002	< 0.002
Zinc - Dissolved	mg/L	0.023	< 0.002	0.002	0.002	0.006	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	0.023	< 0.005
Zirconium - Dissolved	mg/L	0.004	-	-	-	< 0.002	< 0.002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S	MW-UB9S (2)	MW-UB9S (2)	MW-UB9S (2)
2021-11-17	2021-12-15	2022-01-31	2022-02-23	2022-03-18	2022-04-21	2022-05-20	2022-06-16	2022-07-20	2022-08-18	2022-09-21	2022-10-20	2023-05-16	2023-08-18	2023-11-07
7.2	6.3	4.3	4.5	4.7	4.0	4.9	5.6	6.4	7.2	7.9	7.4	3.9	6.5	6.9
7.36	7.4	7.4	7.23	7.42	7.28	7.33	7.41	7.2	7.28	7.15	7.13	7.24	7.27	7.11
580	585	584	586	564	579	585	569	576	612	600	599	579	522	598
5.71	2.25	5.87	5.49	3.76	3.69	7.34	5.27	6.09	5.91	4.23	4.25	5.33	8.29	5.05
13.2	199	114	144	22.4	151	110	96.2	150	130	111	95.5	191	-	-
-	-	-	-	-	-	-	-	-	-	-	-	7.94	7.79	8.01
310	300	301	300	281	294	279	275	338	-	-	-	329	277	295
320	334	323	309	328	316	328	334	311	-	-	-	340	351	327
-	-	40.0	25.0	10.0	14.0	6.0	18.0	7.9	-	-	-	7.6	9.6	15.6
316	322	306	290	310	266	300	314	340	-	-	-	326	328	346
693	387	192	175	600	461	2410	1680	6340	-	-	-	1960	11400	762
-	-	-	-	-	-	-	-	-	-	-	-	-	218	181
-	-	-	-	-	-	-	-	-	-	-	-	0.84	0.77	0.89
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.05	< 0.05	0.1	< 0.05	0.1	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	0.08	< 0.05	< 0.05
9.26	8.87	9.92	8.98	9.66	9.38	10.0	10.3	12.6	-	-	-	9.27	9.06	10.9
< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
0.06	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	-	-	< 0.02	< 0.02	< 0.02
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
< 0.004	0.085	0.031	0.012	0.044	0.014	0.033	0.015	0.074	-	-	-	0.022	0.017	< 0.004
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	< 0.001	< 0.001
0.006	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	-	-	-	< 0.001	0.01	< 0.001
0.023	0.024	0.021	0.02	0.03	0.023	0.033	0.026	0.036	-	-	-	0.034	0.036	0.02
< 0.0005	< 0.0005	< 0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
0.01	0.014	< 0.01	0.012	< 0.01	< 0.01	0.011	0.012	< 0.01	-	-	-	0.01	< 0.010	< 0.010
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0008	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
-	-	-	-	73.9	77.0	73.7	70.3	89.4	-	-	-	-	-	-
< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	-	-	-	< 0.003	< 0.003	< 0.003
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	-	-	-	0.002	0.001	< 0.001
0.03	< 0.01	0.07	0.018	0.022	0.026	0.05	0.045	0.129	-	-	-	0.128	0.022	0.019
< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	-	-	-	< 0.0005	< 0.0005	< 0.0005
< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-	-	< 0.050	< 0.050	< 0.050
-	-	-	-	23.4	24.7	23.0	24.1	27.9	-	-	-	26.9	20.4	25.0
0.031	0.035	0.03	0.031	0.039	0.03	0.045	0.028	0.042	-	-	-	0.075	0.058	0.035
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	-	-	-	< 0.001	0.001	< 0.001
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1.68	1.59	-	-	-	-	-	-
< 0.001	0.004	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.002	-	-	-	< 0.001	< 0.001	< 0.001
8.01	8.05	7.43	7.49	7.51	6.98	6.9	7.66	7.99	-	-	-	7.2	7.9	8.54
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	-	-	-	< 0.0001	< 0.0001	< 0.0001
-	-	-	-	7.38	8.5	8.03	11.7	8.92	-	-	-	0.127	0.119	0.118
0.105	0.121	0.115	0.106	0.127	0.113	0.115	0.113	0.119	-	-	-	-	-	-
< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	-	-	-	< 0.0003	< 0.0003	< 0.0003
< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.002	0.004	0.003	< 0.002	< 0.002	< 0.002	0.002	0.002	0.003	-	-	-	< 0.002	< 0.002	< 0.002
0.0006	0.0006	0.0005	0.0005	0.0006	0.0005	0.0006	0.0005	0.0007	-	-	-	0.0006	0.0006	0.0005
< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	-	-	-	< 0.002	< 0.002	< 0.002
< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	< 0.005	< 0.005	< 0.005
< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	-	-	-	< 0.004	< 0.004	< 0.004

Monitoring Well ID.		MW22-UB17S (2)	MW22-UB17S (2)	MW22-UB17S (2)
Sampling Date	**Unit**	**2023-05-09**	**2023-05-12**	**2023-11-08**
Field Measured				
Temperature Field	°C	-	5.5	7.5
pH Field	pH units	-	7.55	7.23
Conductivity Field	µS/cm	-	462	556
Dissolved Oxygen Field	mg/L	-	11.9	9.87
Oxidation-Reduction Potential Field	mV	-	246	-
Conventional Parameters				
pH	pH units	7.88	8.16	7.81
Hardness (as CaCO3)	mg/L	119	224	237
Alkalinity, Total (as CaCO3)	mg/L	121	246	331
Acidity (as CaCO3)	mg/L	< 5.0	12.2	15.5
Total Dissolved Solids	mg/L	140	244	306
Total Suspended Solids	mg/L	72200	< 10	1790
Oxidation-Reduction Potential	mV	-	-	173
Major Ions				
Chloride	mg/L	0.26	0.65	1.66
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	0.1	< 0.05	< 0.05
Sulphate	mg/L	4.92	9.23	17.7
Nutrients				
Ammonia, Total (as N)	mg/L	0.18	< 0.02	0.02
Nitrate (as N)	mg/L	< 0.05	2.3	1.82
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.185	0.006	0.674
Antimony - Dissolved	mg/L	< 0.001	< 0.001	0.002
Arsenic - Dissolved	mg/L	0.007	< 0.001	0.001
Barium - Dissolved	mg/L	0.019	0.047	0.073
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.014	< 0.010	0.015
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	< 0.001	0.001	0.003
Iron - Dissolved	mg/L	0.462	< 0.010	0.586
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	0.0012
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	8.71	17.4	18.3
Manganese - Dissolved	mg/L	0.147	< 0.002	0.025
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	< 0.002	< 0.002	0.002
Nickel - Dissolved	mg/L	0.001	< 0.001	0.002
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	6.91	7.43	8.78
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.202	0.054	0.097
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	0.011	0.003	0.021
Uranium - Dissolved	mg/L	< 0.0005	0.0011	0.0027
Vanadium - Dissolved	mg/L	< 0.002	< 0.002	0.002
Zinc - Dissolved	mg/L	< 0.005	0.006	0.007
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB18D (2)	MW22-UB18D (2)	MW22-UB18D (2)
Sampling Date	**Unit**	2023-05-18	2023-08-23	2023-11-03
Conventional Parameters				
pH	pH units	8	7.73	7.76
Hardness (as CaCO3)	mg/L	238	216.0	244.0
Alkalinity, Total (as CaCO3)	mg/L	242	236.0	225.0
Acidity (as CaCO3)	mg/L	< 5.0	< 5.0	10.4
Total Dissolved Solids	mg/L	244	216.0	200.0
Total Suspended Solids	mg/L	23	36.0	25.0
Oxidation-Reduction Potential	mV	-	1135.0	-2.7
Major Ions				
Chloride	mg/L	1	0.93	0.89
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	8	9.38	8.83
Nutrients and Chlorophyll a				
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Nutrients				
Aluminum - Dissolved	mg/L	0	< 0.004	0.01
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0	0.0	0.01
Barium - Dissolved	mg/L	0	0.01	0.02
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0	0.1	0.1
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0	0.0	0.0
Iron - Dissolved	mg/L	< 0.010	< 0.010	0.03
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	20	17.5	19.4
Manganese - Dissolved	mg/L	0	0.03	0.03
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	< 0.002	0.0	< 0.002
Nickel - Dissolved	mg/L	< 0.001	0.0	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	0.0
Silicon - Dissolved	mg/L	6	5.6	6.2
Silver - Dissolved	mg/L	< 0.0001	0.0	0.0
Sodium - Dissolved	mg/L	0	0.44	0.39
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	0.0
Tin - Dissolved	mg/L	< 0.002	0.01	0.01
Titanium - Dissolved	mg/L	< 0.002	< 0.002	0.01
Uranium - Dissolved	mg/L	0	0.0	0.0
Vanadium - Dissolved	mg/L	0	0.0	0.0
Zinc - Dissolved	mg/L	< 0.005	< 0.005	0.01
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB19D (2)	MW22-UB19D (2)	MW22-UB19D (2)
Sampling Date	**Unit**	**2023-05-09**	**2023-08-21**	**2023-11-03**
Field Measured				
Temperature Field	°C	6.3	6.4	5.6
pH Field	pH units	8.38	8.92	8.05
Conductivity Field	µS/cm	524	386	389
Dissolved Oxygen Field	mg/L	1.8	1.27	1.45
Oxidation-Reduction Potential Field	mV	-115	-	-
Conventional Parameters				
pH	pH units	8.28	8.2	8.05
Hardness (as CaCO3)	mg/L	133	204	232
Alkalinity, Total (as CaCO3)	mg/L	229	232	230
Acidity (as CaCO3)	mg/L	< 5.0	< 5.0	6.1
Total Dissolved Solids	mg/L	328	258	204
Total Suspended Solids	mg/L	51100	39800	9260
Oxidation-Reduction Potential	mV	-	322	-9.5
Major Ions				
Chloride	mg/L	9.38	0.92	0.64
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	0.53	< 0.05
Sulphate	mg/L	70.9	1.31	1.01
Nutrients				
Ammonia, Total (as N)	mg/L	1.16	0.2	0.12
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.009	0.015	0.011
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.003	0.004	0.008
Barium - Dissolved	mg/L	0.063	0.065	0.082
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.034	0.023	0.03
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Iron - Dissolved	mg/L	0.098	0.293	0.878
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	13.2	23.6	23.5
Manganese - Dissolved	mg/L	0.042	0.044	0.047
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.02	0.006	0.007
Nickel - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	0.003
Silicon - Dissolved	mg/L	6.22	6.6	6.78
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.303	0.325	0.331
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.0021	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB19S (2)	MW22-UB19S (2)	MW22-UB19S (2)
Sampling Date	**Unit**	**2023-05-09**	**2023-08-21**	**2023-11-03**
Field Measured				
Temperature Field	°C	6.1	7.5	7.5
pH Field	pH units	7.64	8.18	7.43
Conductivity Field	µS/cm	668.9	657.3	681
Dissolved Oxygen Field	mg/L	3.4	5.8	5.01
Oxidation-Reduction Potential Field	mV	-95	-	-
Conventional Parameters				
pH	pH units	8.08	8.2	8.04
Hardness (as CaCO3)	mg/L	333	344	323
Alkalinity, Total (as CaCO3)	mg/L	385	398	361
Acidity (as CaCO3)	mg/L	10.1	6.6	13
Total Dissolved Solids	mg/L	326	360	398
Total Suspended Solids	mg/L	6820	9080	3500
Oxidation-Reduction Potential	mV	-	307.8	176.9
Major Ions				
Chloride	mg/L	0.52	1.24	0.94
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	1.19	0.26	4.62
Nutrients				
Ammonia, Total (as N)	mg/L	0.06	0.11	0.06
Nitrate (as N)	mg/L	< 0.05	< 0.05	0.1
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.008	< 0.004	0.068
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.007	0.006	0.007
Barium - Dissolved	mg/L	0.073	0.075	0.061
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.019	0.017	0.016
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Iron - Dissolved	mg/L	0.324	0.017	0.036
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	30.5	31.1	27.3
Manganese - Dissolved	mg/L	0.24	0.137	0.206
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.006	0.002	< 0.002
Nickel - Dissolved	mg/L	0.001	0.001	0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	0.003
Silicon - Dissolved	mg/L	7.53	8.6	9.03
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	0.0001
Sodium - Dissolved	mg/L	0.45	0.602	0.47
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	< 0.002	< 0.002	0.015
Uranium - Dissolved	mg/L	0.0049	0.0019	0.0018
Vanadium - Dissolved	mg/L	0.003	0.006	0.007
Zinc - Dissolved	mg/L	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB20D (2)	MW22-UB20D (2)	MW22-UB20D (2)
Sampling Date	**Unit**	**2023-05-12**	**2023-08-23**	**2023-11-08**
Field Measured				
Temperature Field	°C	5.8	7.1	5.5
pH Field	pH units	7.86	7.97	7.6
Conductivity Field	µS/cm	439	485	459
Dissolved Oxygen Field	mg/L	4.3	4.04	3.94
Oxidation-Reduction Potential Field	mV	-201	-	-
Conventional Parameters				
pH	pH units	8.16	7.75	7.76
Hardness (as CaCO3)	mg/L	180	149	199
Alkalinity, Total (as CaCO3)	mg/L	227	173	220
Acidity (as CaCO3)	mg/L	8.3	< 5.0	11.3
Total Dissolved Solids	mg/L	226	158	214
Total Suspended Solids	mg/L	211	41.0	55.0
Oxidation-Reduction Potential	mV	-	-150	-1.1
Major Ions				
Chloride	mg/L	3.35	0.57	1.41
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	0.08	< 0.05	< 0.05
Sulphate	mg/L	14.0	6.57	8.66
Nutrients				
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	0.04
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.004	< 0.004	< 0.004
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.002	< 0.001	0.003
Barium - Dissolved	mg/L	0.067	0.017	0.056
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.018	0.012	0.016
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Iron - Dissolved	mg/L	0.155	< 0.010	0.89
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	13.1	12.9	15.2
Manganese - Dissolved	mg/L	0.217	0.074	0.208
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.007	< 0.002	0.005
Nickel - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	6.05	3.1	6.78
Silver - Dissolved	mg/L	< 0.0001	0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.234	0.129	0.232
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.0016	0.0006	0.0012
Vanadium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.863	0.187	0.224
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB21D (2)	MW22-UB21D (2)	MW22-UB21D (2)
Sampling Date	**Unit**	**2023-05-12**	**2023-08-23**	**2023-11-09**
Field Measured				
Temperature Field	°C	5.3	8.1	6.4
pH Field	pH units	7.72	8.34	7.74
Conductivity Field	µS/cm	339	315	302
Dissolved Oxygen Field	mg/L	8.67	4.85	6.54
Oxidation-Reduction Potential Field	mV	180	-	-
Conventional Parameters				
pH	pH units	8.08	7.64	7.73
Hardness (as CaCO3)	mg/L	149	202	159
Alkalinity, Total (as CaCO3)	mg/L	181	232	177
Acidity (as CaCO3)	mg/L	7.1	< 5.0	7.7
Total Dissolved Solids	mg/L	184	292	172
Total Suspended Solids	mg/L	48.0	169	103
Oxidation-Reduction Potential	mV	-	-54.4	59.7
Major Ions				
Chloride	mg/L	0.36	3.62	0.56
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	6.37	22.0	5.74
Nutrients				
Ammonia, Total (as N)	mg/L	< 0.02	0.21	< 0.02
Nitrate (as N)	mg/L	0.06	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.006	< 0.004	0.014
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	< 0.001	0.004	< 0.001
Barium - Dissolved	mg/L	0.018	0.048	0.014
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.014	0.015	0.019
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.001	< 0.001	< 0.001
Iron - Dissolved	mg/L	< 0.010	0.926	0.021
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	11.7	15.3	12.4
Manganese - Dissolved	mg/L	0.026	0.208	0.043
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	< 0.002	0.005	0.003
Nickel - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	5.09	5.6	5.02
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.155	0.255	0.14
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Titanium - Dissolved	mg/L	0.003	< 0.002	< 0.002
Uranium - Dissolved	mg/L	< 0.0005	0.0016	< 0.0005
Vanadium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	0.603	0.198	0.352
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB22D (2)	MW22-UB22D (2)	MW22-UB22D (2)
Sampling Date	**Unit**	**2023-05-12**	**2023-08-21**	**2023-11-02**
Field Measured				
Temperature Field	°C	4.5	10.6	5.9
pH Field	pH units	7.78	7.79	7.62
Conductivity Field	µS/cm	265	276	267
Dissolved Oxygen Field	mg/L	7.29	9.53	5.65
Oxidation-Reduction Potential Field	mV	270	-	-
Conventional Parameters				
pH	pH units	7.96	7.85	7.46
Hardness (as CaCO3)	mg/L	124	142	127
Alkalinity, Total (as CaCO3)	mg/L	133	142	139
Acidity (as CaCO3)	mg/L	6.7	< 5.0	6.7
Total Dissolved Solids	mg/L	160	156	144
Total Suspended Solids	mg/L	284	80.0	< 10
Oxidation-Reduction Potential	mV	-	73.2	179
Major Ions				
Chloride	mg/L	0.31	1.88	0.53
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	7.11	9.39	7.02
Nutrients				
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.02	0.06	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.01	0.017	0.011
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.001	< 0.001	< 0.001
Barium - Dissolved	mg/L	0.016	0.014	0.008
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	< 0.010	< 0.010	< 0.010
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	< 0.001	0.001	0.002
Iron - Dissolved	mg/L	0.028	0.025	< 0.010
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	3.76	3.9	3.75
Manganese - Dissolved	mg/L	0.264	0.305	0.321
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	4.51	4.3	4.55
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.042	0.053	0.053
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	0.011	< 0.002
Titanium - Dissolved	mg/L	0.003	< 0.002	< 0.002
Uranium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Vanadium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB23D (2)	MW22-UB23D (2)	MW22-UB23D (2)
Sampling Date	**Unit**	**2023-05-11**	**2023-08-22**	**2023-11-08**
Field Measured				
Temperature Field	°C	4.6	9.8	7.0
pH Field	pH units	7.26	7.47	7.06
Conductivity Field	µS/cm	224	326	223
Dissolved Oxygen Field	mg/L	8.78	9.74	8.35
Oxidation-Reduction Potential Field	mV	250	-	-
Conventional Parameters				
pH	pH units	7.97	7.66	7.43
Hardness (as CaCO3)	mg/L	92.7	168	101
Alkalinity, Total (as CaCO3)	mg/L	120	159	129
Acidity (as CaCO3)	mg/L	7.3	6.4	9.3
Total Dissolved Solids	mg/L	130	306	120
Total Suspended Solids	mg/L	408	1650	347
Oxidation-Reduction Potential	mV	-	610	173
Major Ions				
Chloride	mg/L	0.38	0.86	0.49
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	7.49	21.4	6.53
Nutrients				
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.018	0.006	0.089
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	< 0.001	0.004	< 0.001
Barium - Dissolved	mg/L	0.006	0.015	0.004
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	< 0.010	0.023	< 0.010
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	0.001	< 0.0005
Copper - Dissolved	mg/L	0.003	0.002	0.007
Iron - Dissolved	mg/L	0.014	0.256	0.127
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	1.36	3.5	1.26
Manganese - Dissolved	mg/L	0.154	0.543	0.055
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	< 0.001	0.003	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	4.15	3.8	4.75
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.028	0.032	0.018
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	0.003	< 0.002
Titanium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	< 0.0005	0.001	< 0.0005
Vanadium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Zinc - Dissolved	mg/L	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB25D (2)	MW22-UB25D (2)	MW22-UB25D (2)
Sampling Date	**Unit**	**2023-05-08**	**2023-08-21**	**2023-11-01**
Field Measured				
Temperature Field	°C	5.4	5.6	5.0
pH Field	pH units	8.55	8.41	8.22
Conductivity Field	µS/cm	305	262	249
Dissolved Oxygen Field	mg/L	4.15	2.84	5.48
Oxidation-Reduction Potential Field	mV	-155	-	-
Conventional Parameters				
pH	pH units	8.21	7.96	-
Hardness (as CaCO3)	mg/L	93.9	98.4	-
Alkalinity, Total (as CaCO3)	mg/L	132	139	-
Acidity (as CaCO3)	mg/L	< 5.0	< 5.0	-
Total Dissolved Solids	mg/L	184	160	-
Total Suspended Solids	mg/L	259	274	-
Oxidation-Reduction Potential	mV	-	806	-24.6
Major Ions				
Chloride	mg/L	1.14	0.7	-
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	-
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	-
Fluoride	mg/L	< 0.05	< 0.05	-
Sulphate	mg/L	26.4	7.05	-
Nutrients				
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	-
Nitrate (as N)	mg/L	< 0.05	< 0.05	-
Nitrite (as N)	mg/L	< 0.02	< 0.02	-
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.01	0.013	-
Antimony - Dissolved	mg/L	< 0.001	< 0.001	-
Arsenic - Dissolved	mg/L	0.003	0.001	-
Barium - Dissolved	mg/L	0.026	0.029	-
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	-
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	-
Boron - Dissolved	mg/L	0.012	< 0.010	-
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	-
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	-
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	-
Copper - Dissolved	mg/L	< 0.001	0.001	-
Iron - Dissolved	mg/L	0.061	0.135	-
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	-
Lithium - Dissolved	mg/L	< 0.050	< 0.050	-
Magnesium - Dissolved	mg/L	3.59	4.18	-
Manganese - Dissolved	mg/L	0.155	0.21	-
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	-
Molybdenum - Dissolved	mg/L	0.034	0.02	-
Nickel - Dissolved	mg/L	0.005	0.002	-
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	-
Silicon - Dissolved	mg/L	4.48	4.8	-
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	-
Sodium - Dissolved	mg/L	0.089	0.085	-
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	-
Tin - Dissolved	mg/L	< 0.002	0.002	-
Titanium - Dissolved	mg/L	< 0.002	< 0.002	-
Uranium - Dissolved	mg/L	< 0.0005	< 0.0005	-
Vanadium - Dissolved	mg/L	< 0.002	< 0.002	-
Zinc - Dissolved	mg/L	< 0.005	< 0.005	-
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	-

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB26D (2)	MW22-UB26D (2)	MW22-UB26D (2)
Sampling Date	**Unit**	**2023-05-17**	**2023-08-22**	**2023-11-02**
Field Measured				
Temperature Field	°C	-	7.0	5.0
pH Field	pH units	-	8.19	8.19
Conductivity Field	µS/cm	-	161	149
Dissolved Oxygen Field	mg/L	-	4.31	5.52
Oxidation-Reduction Potential Field	mV	-	-	-
Conventional Parameters				
pH	pH units	7.79	7.56	6.91
Hardness (as CaCO3)	mg/L	74.5	80.7	62.2
Alkalinity, Total (as CaCO3)	mg/L	78.0	87.0	90.0
Acidity (as CaCO3)	mg/L	< 5.0	< 5.0	6.1
Total Dissolved Solids	mg/L	106	126	76.0
Total Suspended Solids	mg/L	1220	690	208
Oxidation-Reduction Potential	mV	-	1021	87.6
Major Ions				
Chloride	mg/L	0.31	0.36	0.29
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	9.98	11.2	9.11
Nutrients				
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	< 0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	0.031	0.031	0.009
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Barium - Dissolved	mg/L	0.007	0.006	0.007
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.072	0.086	0.072
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.002	0.002	< 0.001
Iron - Dissolved	mg/L	0.011	0.014	< 0.010
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	3.48	3.46	2.43
Manganese - Dissolved	mg/L	0.013	0.006	0.002
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.025	0.024	0.005
Nickel - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	3.7	3.8	4.36
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.078	0.088	0.078
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	0.007	0.004
Titanium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.0006	0.0005	< 0.0005
Vanadium - Dissolved	mg/L	0.003	0.003	0.002
Zinc - Dissolved	mg/L	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		MW22-UB27D (2)	MW22-UB27D (2)
Sampling Date	**Unit**	**2023-08-22**	**2023-11-02**
Field Measured			
Temperature Field	°C	10.2	7.2
pH Field	pH units	8.1	7.92
Conductivity Field	µS/cm	278	295
Dissolved Oxygen Field	mg/L	5.19	6.97
Oxidation-Reduction Potential Field	mV	-	-
Conventional Parameters			
pH	pH units	7.79	7.48
Hardness (as CaCO3)	mg/L	113	88.5
Alkalinity, Total (as CaCO3)	mg/L	147	142
Acidity (as CaCO3)	mg/L	< 5.0	5.8
Total Dissolved Solids	mg/L	162	154
Total Suspended Solids	mg/L	10.0	64.0
Oxidation-Reduction Potential	mV	1022	106
Major Ions			
Chloride	mg/L	0.63	0.81
Cyanide (CN), Free	mg/L	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05
Sulphate	mg/L	8.33	12.7
Nutrients			
Ammonia, Total (as N)	mg/L	0.03	< 0.02
Nitrate (as N)	mg/L	< 0.05	< 0.05
Nitrite (as N)	mg/L	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-
Nitrate + Nitrite (as N)	mg/L	-	-
Dissolved Metals			
Aluminum - Dissolved	mg/L	0.011	0.02
Antimony - Dissolved	mg/L	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	0.001	< 0.001
Barium - Dissolved	mg/L	0.009	0.017
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002
Boron - Dissolved	mg/L	0.149	0.173
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.002	0.002
Iron - Dissolved	mg/L	0.016	0.015
Lead - Dissolved	mg/L	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	6.96	6.28
Manganese - Dissolved	mg/L	0.025	0.01
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	0.011	0.021
Nickel - Dissolved	mg/L	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	-	-
Potassium - Dissolved	mg/L	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001
Silicon - Dissolved	mg/L	5.5	4.78
Silver - Dissolved	mg/L	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.092	0.096
Strontium - Dissolved	mg/L	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	< 0.002	0.003
Titanium - Dissolved	mg/L	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.0006	0.0012
Vanadium - Dissolved	mg/L	0.003	0.003
Zinc - Dissolved	mg/L	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks

Monitoring Well ID.		*MW23-UB33S (2)*	*MW23-UB33S (2)*	*MW23-UB33S (2)*
Sampling Date	**Unit**	**2023-05-18**	**2023-08-21**	**2023-10-30**
Field Measured				
Temperature Field	°C	4.8	7.2	7.1
pH Field	pH units	7.49	7.64	7.44
Conductivity Field	µS/cm	462	454	474
Dissolved Oxygen Field	mg/L	12.4	4.22	8.85
Oxidation-Reduction Potential Field	mV	89.9	-	-
Conventional Parameters				
pH	pH units	8.05	7.97	7.79
Hardness (as CaCO3)	mg/L	248	258	237
Alkalinity, Total (as CaCO3)	mg/L	263	270	238
Acidity (as CaCO3)	mg/L	6.0	< 5.0	10.6
Total Dissolved Solids	mg/L	258	250	264
Total Suspended Solids	mg/L	1020	423	605
Oxidation-Reduction Potential	mV	-	473	-
Major Ions				
Chloride	mg/L	0.81	1.03	0.88
Cyanide (CN), Free	mg/L	< 0.002	< 0.002	< 0.002
Cyanide (CN), Total	mg/L	< 0.002	< 0.002	< 0.002
Fluoride	mg/L	< 0.05	< 0.05	< 0.05
Sulphate	mg/L	8.3	7.87	10.1
Nutrients				
Ammonia, Total (as N)	mg/L	< 0.02	< 0.02	< 0.02
Nitrate (as N)	mg/L	0.2	< 0.05	0.12
Nitrite (as N)	mg/L	< 0.02	< 0.02	< 0.02
Ammonia, Un-ionized (as N)	mg/L	-	-	-
Nitrate + Nitrite (as N)	mg/L	-	-	-
Dissolved Metals				
Aluminum - Dissolved	mg/L	< 0.004	0.007	0.013
Antimony - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Arsenic - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Barium - Dissolved	mg/L	0.015	0.02	0.012
Beryllium - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Bismuth - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Boron - Dissolved	mg/L	< 0.010	< 0.010	< 0.010
Cadmium - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Calcium - Dissolved	mg/L	-	-	-
Chromium - Dissolved	mg/L	< 0.003	< 0.003	< 0.003
Cobalt - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Copper - Dissolved	mg/L	0.001	< 0.001	< 0.001
Iron - Dissolved	mg/L	< 0.010	0.026	0.012
Lead - Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005
Lithium - Dissolved	mg/L	< 0.050	< 0.050	< 0.050
Magnesium - Dissolved	mg/L	21.3	21.8	20.3
Manganese - Dissolved	mg/L	0.059	0.084	0.047
Mercury - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Molybdenum - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Nickel - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Phosphorus - Dissolved	mg/L	-	-	-
Potassium - Dissolved	mg/L	-	-	-
Selenium - Dissolved	mg/L	< 0.001	< 0.001	< 0.001
Silicon - Dissolved	mg/L	6.7	6.9	7.44
Silver - Dissolved	mg/L	< 0.0001	< 0.0001	< 0.0001
Sodium - Dissolved	mg/L	0.068	0.067	0.064
Strontium - Dissolved	mg/L	-	-	-
Thallium - Dissolved	mg/L	< 0.0003	< 0.0003	< 0.0003
Tin - Dissolved	mg/L	0.002	< 0.002	0.004
Titanium - Dissolved	mg/L	< 0.002	< 0.002	< 0.002
Uranium - Dissolved	mg/L	0.0008	0.0007	0.0009
Vanadium - Dissolved	mg/L	< 0.002	< 0.002	0.002
Zinc - Dissolved	mg/L	< 0.005	< 0.005	< 0.005
Zirconium - Dissolved	mg/L	< 0.004	< 0.004	< 0.004

Notes:
1 WQG PAL: Water Quality Guidelines for the Protection of Aquatic Life, as identified in Table 3-4
- value not available
Grey highlighted values are greater than WQG PAL benchmarks