

PE:7008 QUARTER 3 REPORT

October - December 2023

Environmental Department

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SUMMARY OF EVENTS FOR THE THIRD QUARTER

During the 3rd Quarter (Q3) October 1st through December 31st, Quinsam Mine maintained the environmental obligations for permits PE: 7008 and C-172 under the Environmental Management Act and the Mines Act permit, respectively. The mine continues to be operated in a “*care and maintenance*” mode with MNP, formerly the Bowra Group Inc. as the Receiver.

Authorized discharge locations include Settling Pond #1 (SPD), (EMS ID: E218582) on the south side, Settling Pond # 4 (WD), (EMS ID: E207409) on the north side and 7-South Surface Decant (7SSD), (EMS ID: E292069) for the 7-South Mine. Discharge occurred from two authorized discharge locations (WD and SPD) during Q3 with no discharge occurring from 7SSD. Characteristics of the discharge, (water quality and quantity) from the authorized discharge locations are compared to the applicable permit limits.

The receiving environment monitoring program for both lakes (Middle Quinsam and Long Lake) and river/stream stations (Iron and Quinsam Rivers, No Name and Long Lake outlet channels) were completed along with other necessary environmental monitoring pertaining to permit PE:7008. The receiving environment monitoring program followed the 5 samples in 30 days schedule, with sampling events spanning October 4th through November 7th for rivers and lakes. These events were completed during fall anticipating a “fall flush” period. The accumulated precipitation from September 1st through November 7th resulted in 257 mm compared to last fall where 92 mm of accumulated precipitation was recorded. Low flow rates were observed in the rivers during this event, which may not have been representative of a full fall flush event. The rainy season seems to be occurring later in the winter season with fall being a dryer period.

Receiving environment water quality in rivers and lakes are compared to British Columbia Water Quality Guideline's – Freshwater Aquatic Life (BC WQG-FWAL) both acute and chronic guidelines. Chronic WQG's are averaged over a five-week period with individual results compared to the chronic guideline and acute WQG's.

Parameters of interest (dissolved copper and total manganese) were slightly elevated above BC WQG-FWAL, in the receiving environment at individual sites. In Long Lake, total manganese was elevated above the chronic guideline on two occasions at 1 metre from bottom depth (1MB), but the average of the five weeks was not above elevated above the chronic WQG. Dissolved copper was elevated throughout the receiving environment, both upstream and downstream of mine influence.

For groundwater / potential seepage locations (S & S2) total arsenic, boron, dissolved iron, and dissolved sulphate were trending slightly above BC WQG-FWAL. Total iron and dissolved sulphate were elevated at the Long lake Seep (LLS) for the one sampling event this quarter.

The wetland location in the South mine area at Long Lake Entrance (LLE), average weekly concentrations of sulphate were elevated above chronic WQG of 128 mg/L. One individual dissolved zinc was elevated compared to the chronic WQG with the average not calculated, as this is a monthly sample.

Sampling was performed for groundwater and underground mine contact areas. Groundwater outside the mine footprint is referred to as ex-situ. Flooded mine voids and underground sumps are referred to as in-situ. This Quarter both in-situ and ex-situ sites were compared to Contaminated Sites Regulations, Schedule 6 - Aquatic Life (CSR-AL). Apart from some slightly elevated parameters of interest (i.e., dissolved arsenic (As-D), chloride (Cl-D), selenium (Se-D), sulphate (SO₄-D), and sulfide calculated as hydrogen sulfide (H₂S)), concentrations were not elevated above CSR-AL.

Routine inspections were conducted, and any required maintenance of the water management structures was completed.

1.0 Non-Compliance Events

1.1 PERMIT LIMIT EXCEEDANCE

There were no parameters above permit limits this quarter.

1.2 COMPLIANCE WITH PERMIT

The following represents a summary of permit non-compliance(s) (PNC) specific to missed samples / parameter analysis, continuous flow requirements and unauthorized discharges. This information is also summarized in Appendix I, Table 3.

A bypass of the authorized works occurred from the smaller Seep (LLS) for 1 week in late December with flows remaining minimal averaging approximately 250 mL/min. The larger Seep (LLSM) was dry for Q3. This is a result of dewatering efforts from 2-South mine void and low precipitation rates in summer and fall.

Natural flow paths with possible mine related seepage at locations S, S2 (A and B) and SUS were discovered in 2021. This quarter flows were not observed at the sites S2B and S2US. The locations S and

S2A continued to flow all quarter. Underground 2-North mine water elevations have been measured below the elevation of the river and potential seepage locations. Mine water does not seem to be influencing S2 A, but rather perched water tables interacting with the Dunsmuir sandstone and underlying coal seams. It has not been determined if this flow path is a groundwater discharge zone related to mine water seepage. Further investigation is underway.

2.0 WATER MANAGEMENT SYSTEMS

2.1 NORTH WATER MANAGEMENT SYSTEMS (NWMS)

Stage pumping / dewatering continued from 7-South Area 5 (7SA5) into 1-Mains 7-South (1M7S) sump, where it then pumps into the flooded 5-South mine with no further pumping occurring. Previously, the 5-South mine water (5SMW) was pumped into 3-Mains, 2-North underground mine (3M2N) until the pump failed in January 2022 and was not replaced. The 5SMW levels are monitored (Figure 1) to ensure water remains below the portal, 290 meters above sea level (masl).

North water management system (NWMS) consists of underground 2-North mine water pumped to surface and discharged into either Brinco brook or the 2-North pit pond, (WP). When discharged to Brinco brook, the combined water is released from the authorized discharge location, Settling Pond 4, with flows directed to the inlet of Middle Quinsam Lake. Refer to Graphs (Figure 2 and Figure 3) for underground water levels in 2-North mine.

Pumping systems include the following:

- 3-Mains 2-North (3M2N), dewatering 3-Mains area of 2-North mine
- 2-North Portal Sump (2NPS) collects seepage water from the tailings dam and underground 2-North mine
- 1-Mains, 2-North (1M2N) dewatering 1-Mains area of 2-North mine
- 5-Mains 2-North (5M2N) dewatering 5-Mains area of 2-North mine.

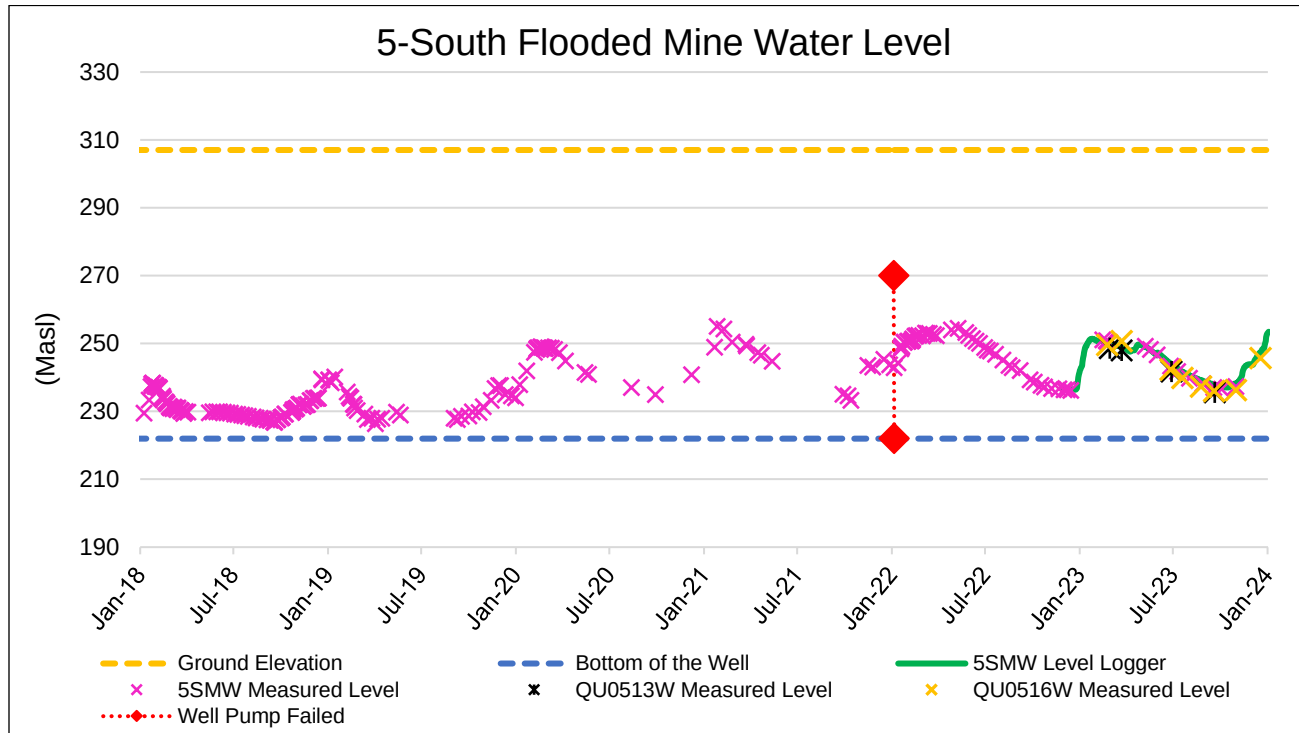


Figure 1: 5-South Flooded Mine Water Level

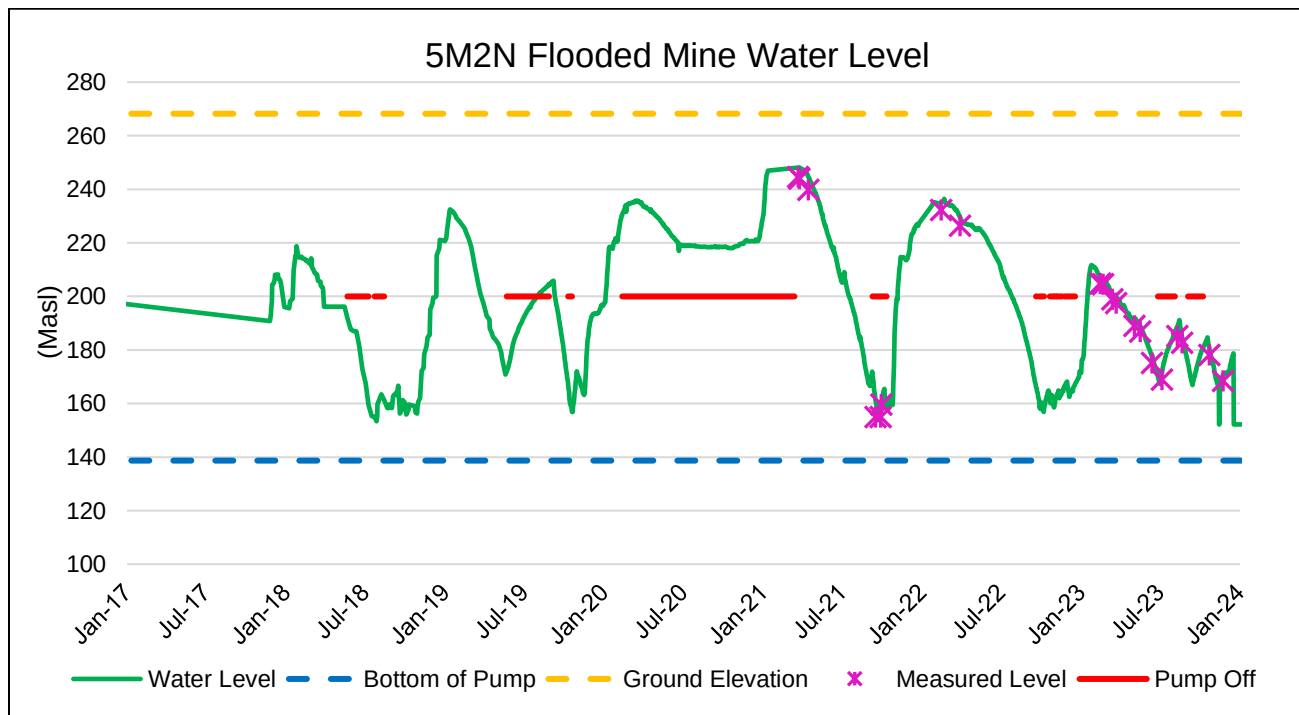


Figure 2: 5M2N Flooded Mine Water Level

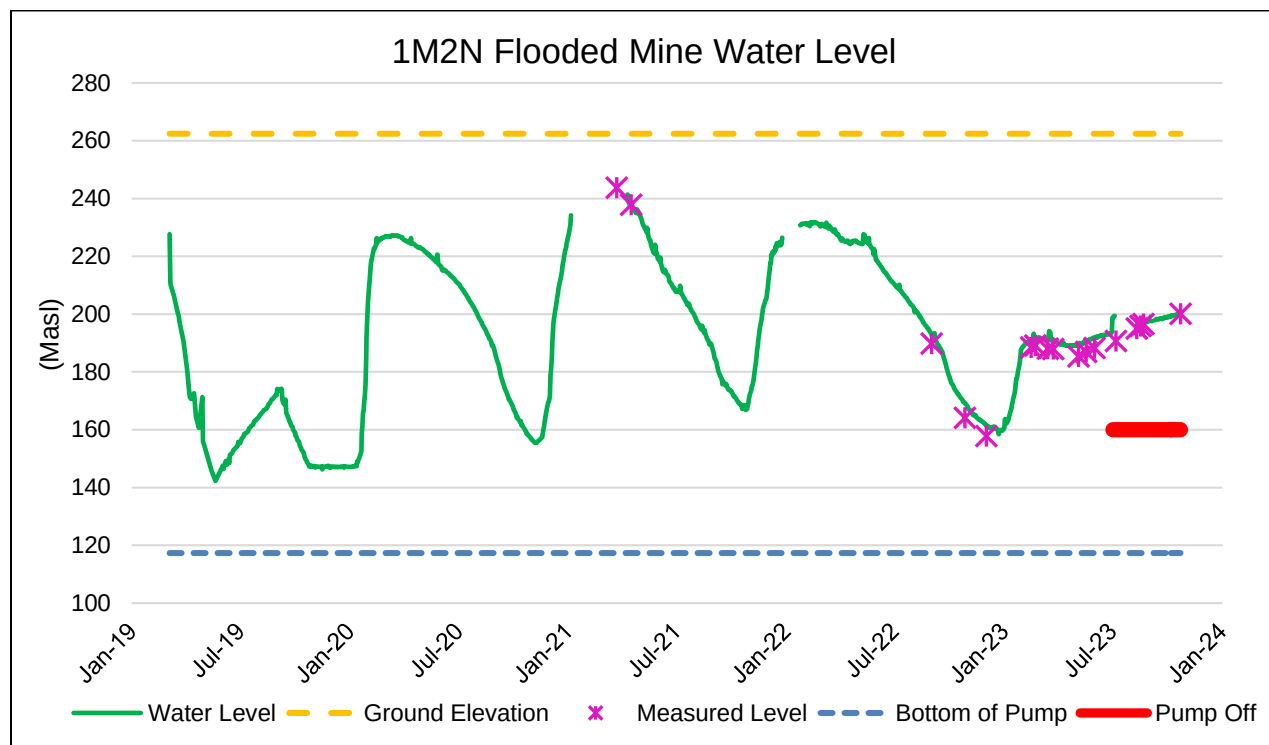


Figure 3: 1M2N Flooded Mine Water Level

Discharge water from pumps (3M2N, 2NPS and 1M2N) enter either Brinco brook by opening gate valves or moving pipelines, or water can be directed into the 2-North pit pond, (WP). The discharge from 5M2N does not have a gate valve and can only discharge into Brinco brook. Water is used to supply sufficient water cover over the Potentially Acid Generating, Course Coal Refuse (PAG-CCR) stored in WP. Table 1, below describes the pumping on / off sequence and direction of water for Q3.

Table 1: Pumping On / Off Sequences and Discharge Direction

Date	Pump	Pump Power On / Off	Discharged to:
Jun.15 to Sep. 5	3M2N	On	WP
Jun. 29 to Nov 23	1M2N	Off	
Jul. 10 to 17	Temporary WD to WP	On	WP
Jul. 1 to 7	5M2N	On	Brinco Brook
Jul. 7 to Aug. 15	5M2N	Off	
Aug. 16 to Sep. 13	5M2N	On	Brinco Brook
Sep. 14 to Oct. 18	5M2N	Off	Brinco Brook
Sep. 5 to Oct. 4	3M2N and 2NPS	On	WP
Oct. 4 to Oct 11	3M2N and 2NPS	On	Brinco Brook
Oct 11 to Nov 6	3M2N	On	WP
Nov 23	1M2N	On	WP
Nov 29	1M2N	On	Brinco Brook
Sept. 18 to Jan. 7	1Main 7South	Off	Overflow directed to 2Mains 7-South

The 1M2N well pump was removed in July 2023 for maintenance and troubleshooting due to degraded operating performance. The mine procured new equipment for the 1M2N well pump installation including a new 125hp motor, pump-end, and stainless-steel riser pipe. The exiting motor and pump-end were sent out for repair to be available as spares. On November 23rd, 2023, the new pump was operating.

Notification was provided to ENV on July 10, 2023, and an update was sent on October 24, 2023 (PE:7008 Maintenance of Works and Notice of Equipment Failure).

2.2 NORTH WATER MANAGEMENT – SETTLING POND 4 (WD / SP4)

Discharge at Settling Pond 4 (SP4) occurred for all 92 days during this quarter with an average daily flow rate of 0.078 m³/s and a quarterly maximum flow rate of 0.232 m³/s. Appendix I, Table 26 and Figure 4 below display the results for flow at SP4.

Dewatering of the underground 2-North mine continued throughout this quarter with pumping from 1-Mains 2-North (1M2N) (starting November 23rd), 5-Mains 2-North (5M2N) and 3-Mains 2-North (3M2N) with discharge to surface at Brinco Brook or 2-North Pond (WP). Brinco Brook mixes with water pumped from 2-North Portal Sump and flows into SP4 where it is either released to the receiving environment (Middle Quinsam Lake), used to maintain cover over the 2-North Pond (WP) or used for coal processing activities

(when operating).

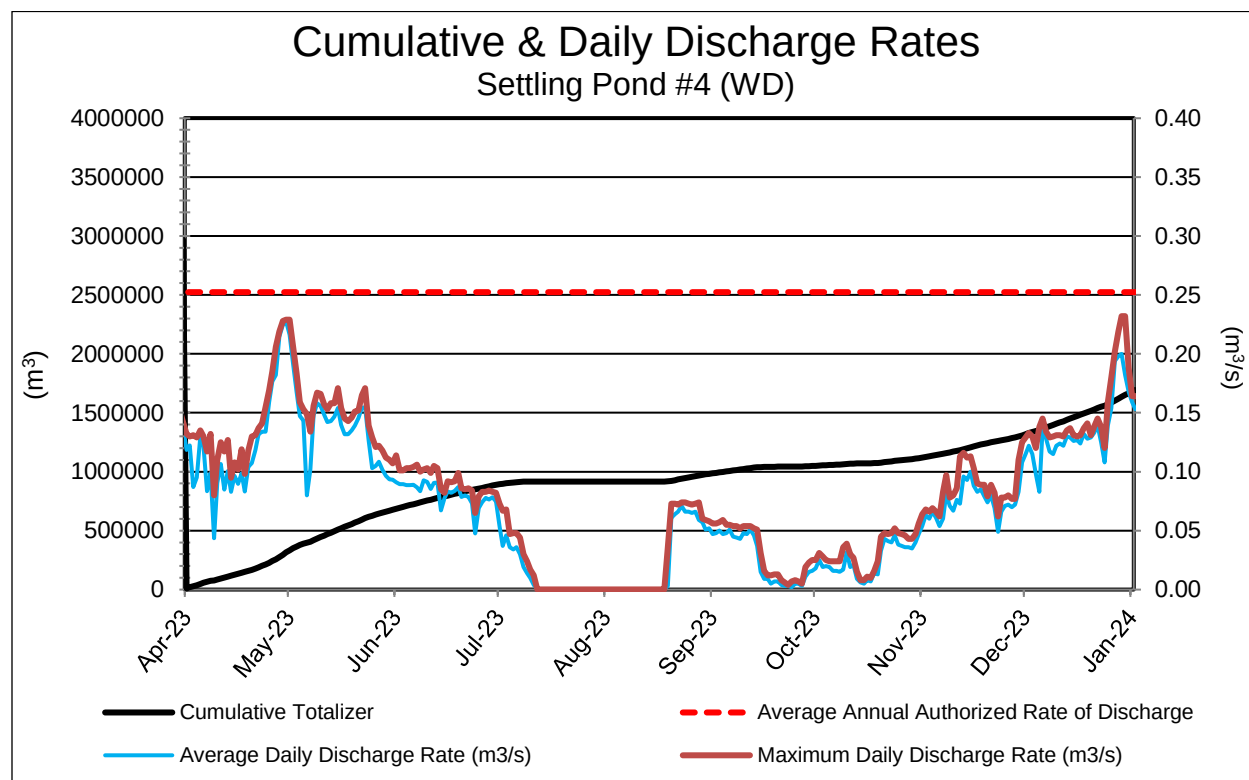


Figure 4: Settling Pond 4 (WD) Cumulative and Daily Discharge Rates

All permitted parameters applied to discharge at SP4 were found in compliance with permit limits. Average quarterly results for dissolved sulphate and total suspended solids (TSS) were 405 mg/L and 2.04 mg/L, respectively. With pH remaining neutral ranging from 7.23 to 7.87 and averaging 7.48 throughout the quarter. Complete results for Settling Pond 4 are displayed in Appendix I, Table 6.

2.3 SOUTH WATER MANAGEMENT - SETTLING POND 1 (SPD / SP1)

Discharge at Settling Pond 1 (SP1) occurred for 92 days during this quarter with an average daily flow rate of 0.042 m^3/s and quarterly maximum of 0.197 m^3/s . Appendix I, Table 27 and Figure 5 below display the results for flow at SP1.

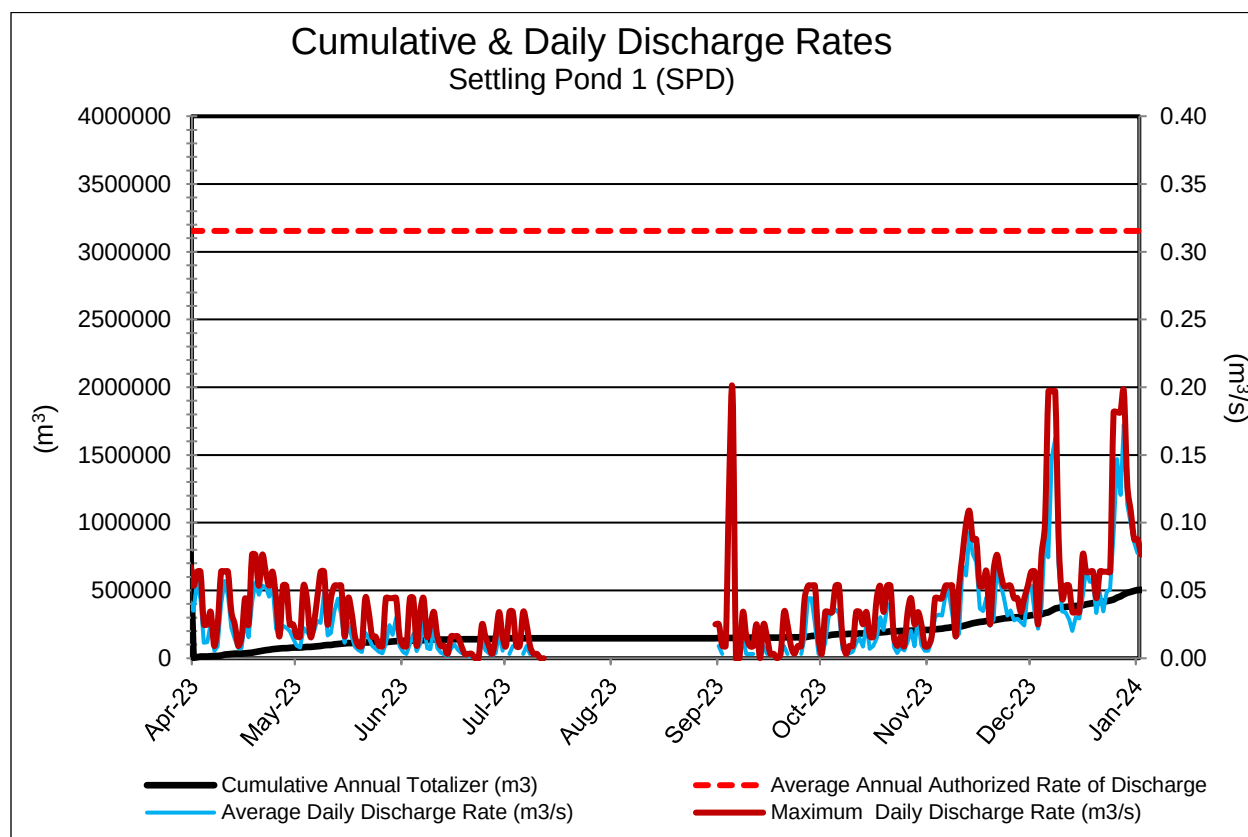


Figure 5: Settling Pond 1 (SP1 / SPD) Cumulative and Daily Discharge Rates

Water from 2-South and 3-South PAG-CCR storage facilities (pits) was routinely pumped into SP1 throughout the quarter. Dewatering of the 2S mine pool at QU11-11 (INF) continued with water directed through the Passive Treatment System (PTS) at cells, Biochemical Reactor (BCREFF) and Sulphide Polishing Cell (SPCEFF) and some raw water bypassing the PTS and entering 2SI. The discharge from the PTS is directed into the 2-South pit where it overflows into the 3-South pit and is pumped to SP1.

All permitted parameters applied to SP1 discharge were found in compliance with permit limits. Averaged quarterly results for dissolved sulphate and TSS were 805 mg/L and 1.68 mg/L, respectively. Weekly pH remained neutral ranging from 6.6 to 7.59 and averaging 7.09, throughout the quarter. Complete results for SP1 are displayed in Appendix I, Table 11.

2.4 96-HOUR RAINBOW TROUT BIOASSAYS

Discharge from Settling Pond 1 and 4 were collected for 96-hour rainbow trout bioassays on November 6th, 2023. Each test passed with 100 % survival rates.

2.5 7-SOUTH (7SSD) WATER MANAGEMENT

No discharge occurred from the 7-South Surface Decant Pond (7SSD). All water is directed into the 7-South portal sump (7SPS) where it is pumped into the 5-South flooded mine void. The supernatant from 7SSD was sampled on November 6th this quarter as required by the amended permit. Complete results for 7SSD are displayed in Appendix 1, Tables 23 and 28.

Water quality at 7S, Stream 1 remained within water quality guidelines during the December monthly sampling event for all parameters. The stream was until mid-October. Appendix 1, Tables 25 with flow rates on Table 30.

Underground sumps collect mine water from 7-South Area 5 (7SA5) that is pumped into 1 Mains 7-South (1M7S). This underground water combines with the 7-South Portal water and is pumped into the 5-South Mine workings. The pipelines transporting water from these areas are equipped with totalizers that record water in cubic meters (m³). For Q3 a total of 9,639,117 m³ was pumped from 7SA5 into the 1M7S sump with 94,176,569 m³ pumped into the 5-South Underground mine. Refer to the Graphs (Figure 6 and Figure 7) for totalized values from these areas.

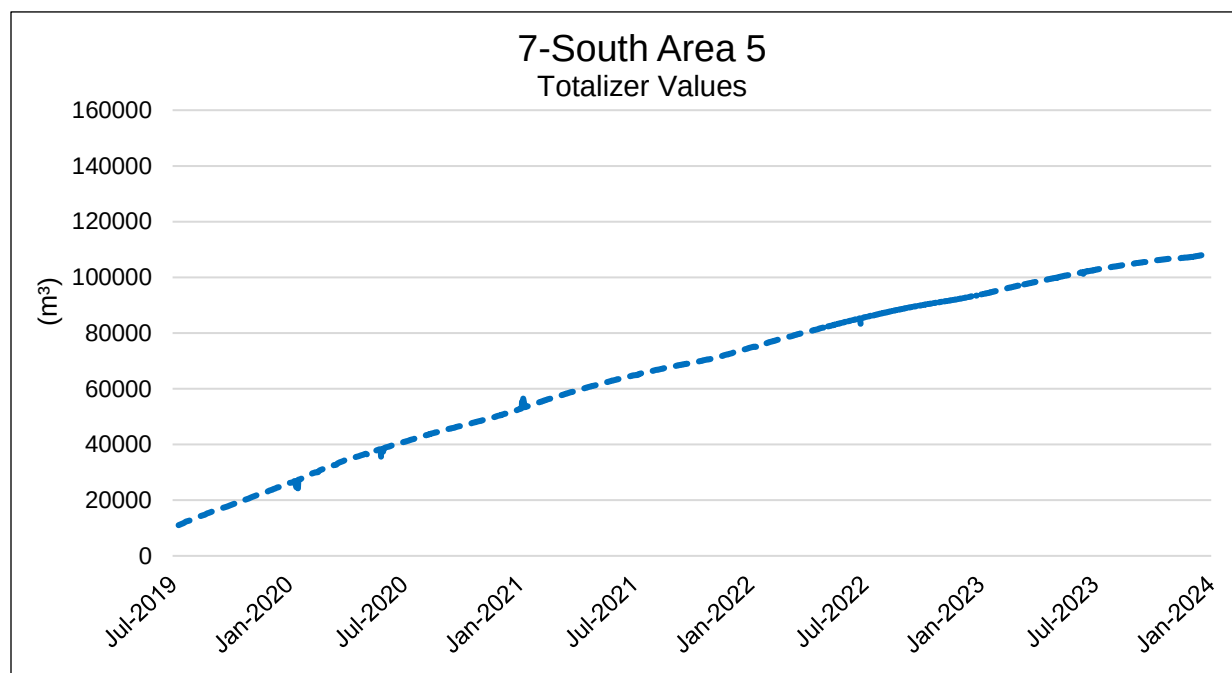


Figure 6: 7-South Area 5 Totalizer Values

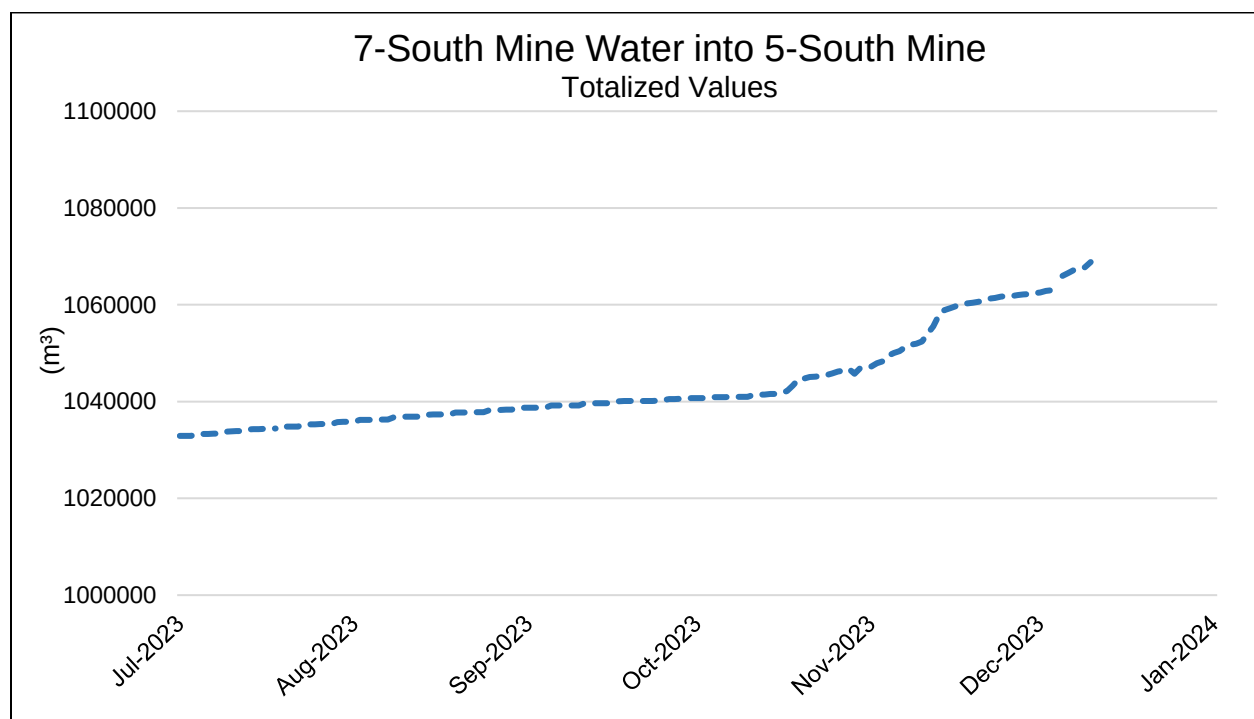


Figure 7: 7-South Mine Water Pumped into 5-South Mine - Totalized Values

3.0 WATER QUANTITIES & FLOW RATES

Flow data is presented tabularly in Appendix I Tables 29 and 30 for the following sites:

- EMS ID E292127 - 2 South Pit Inflow and outflow,
- EMS ID E292130 - Long Lake Seeps (LLS and LLSM),
- EMS ID E292109 - Stream1 7S,
- EMS ID 126402 - Quinsam River at Argonaut Bridge (WA),
- EMS ID 900504 - Middle Quinsam Lake Outlet (WB),
- EMS ID E219412 - Long Lake Outlet (LLO),
- EMS ID E297232 - Iron River Site 8 (IR8)

Flow data for WA has been obtained from the Environment Canada weather monitoring station.

Continuous flow data was not obtained from the pressure transducers at EMS ID E219412 - Long Lake Outlet (LLO), EMS ID E297232 - Iron River Site 8 (IR8) for Q3 due to high flow rates and snow making sites inaccessible. The data will be submitted with Q4.

The Quinsam environmental department has established flow curves for all sites required under the effluent permit. Flows were observed to increase during December with peaks correlating with heavy rains. The below hydrographs display the flow conditions for the site up to January 2024.

Monthly (October through December) precipitation accumulations of 138.2 mm, 134.60 and 270.70 mm was received at the site, respectively. With the greatest accumulation observed in the month of December (270.70 mm). December experienced the most isolated events of heavy rain (i.e., on December 26th the site experienced 72 mm of precipitation). Total accumulated precipitation was 543.50 mm during Q3. Precipitation data for the site is included in Appendix I, Table 31 and Figure 16 below.

As a result of limited precipitation, flow rates in the rivers (Quinsam and Iron) were unseasonably low for fall with flow rates not increasing until late December. Refer to Figure 12 through Figure 15.

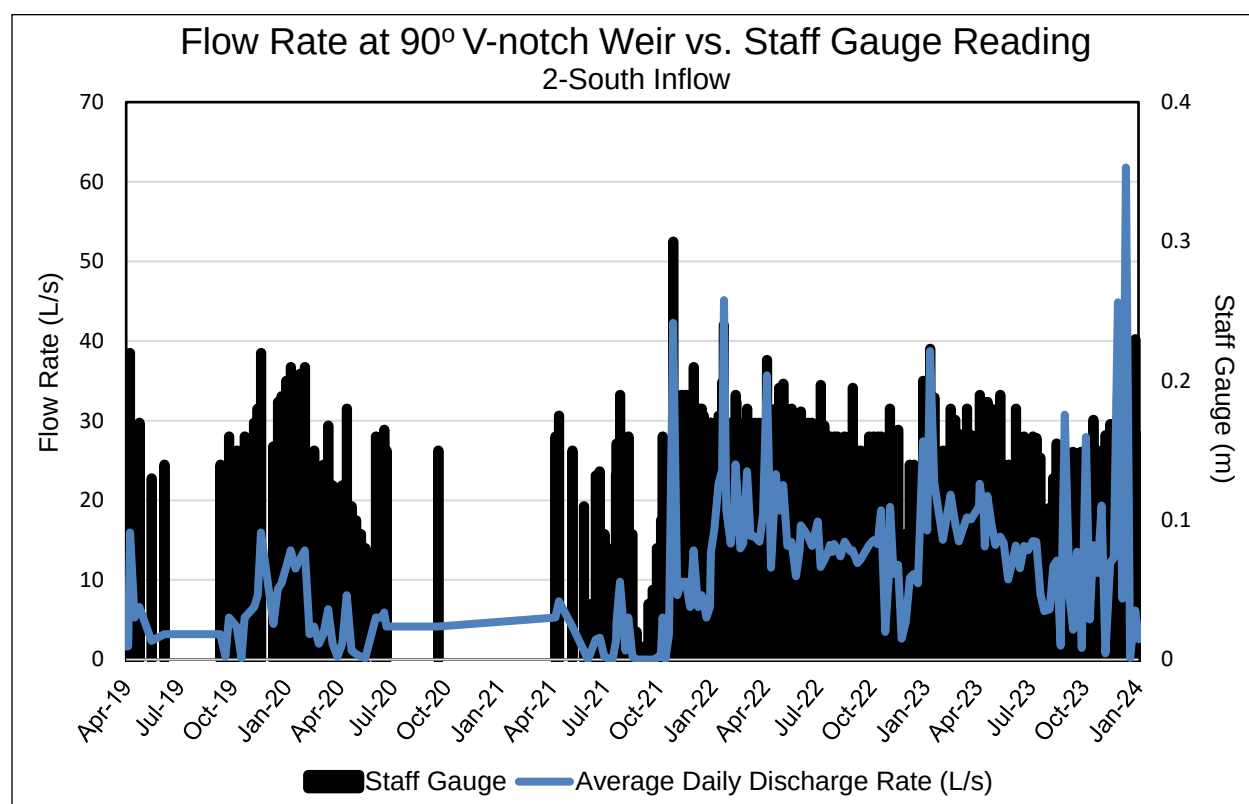


Figure 8: 2-South Pit Continuous Inflow

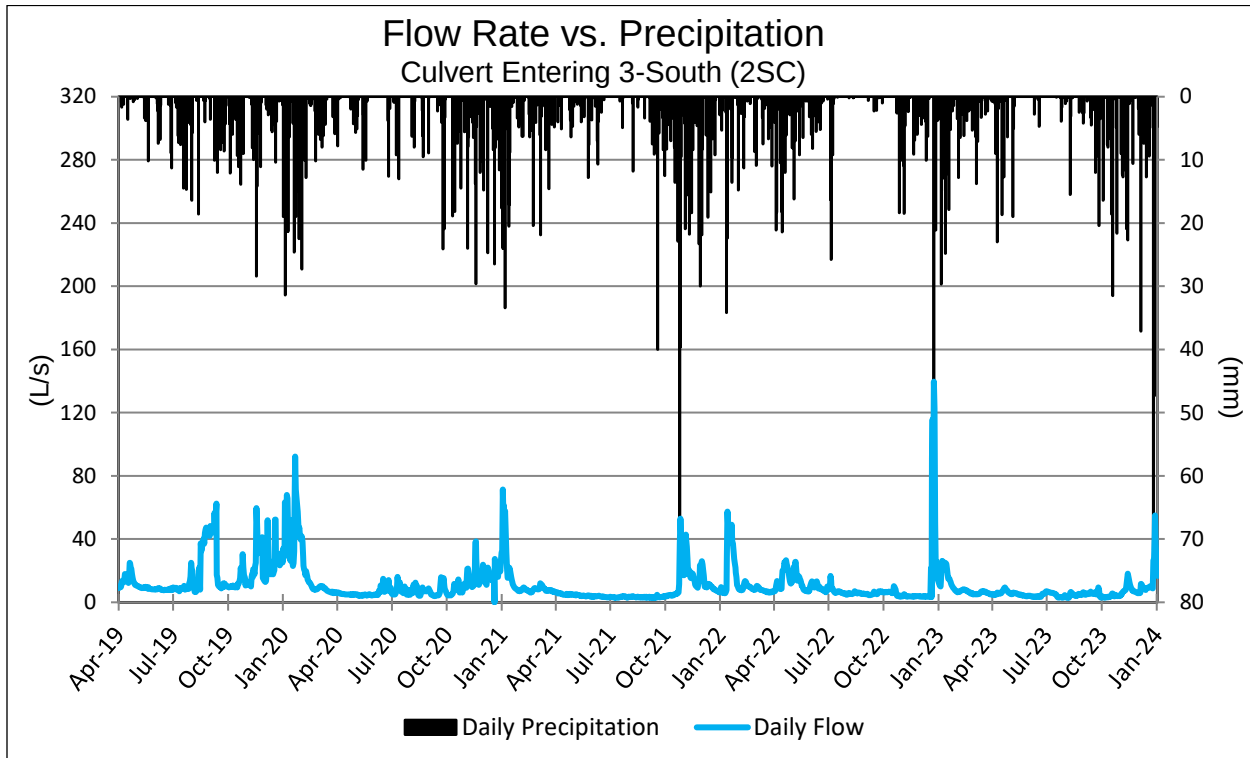


Figure 9: 2-South Pit Continuous Outflow

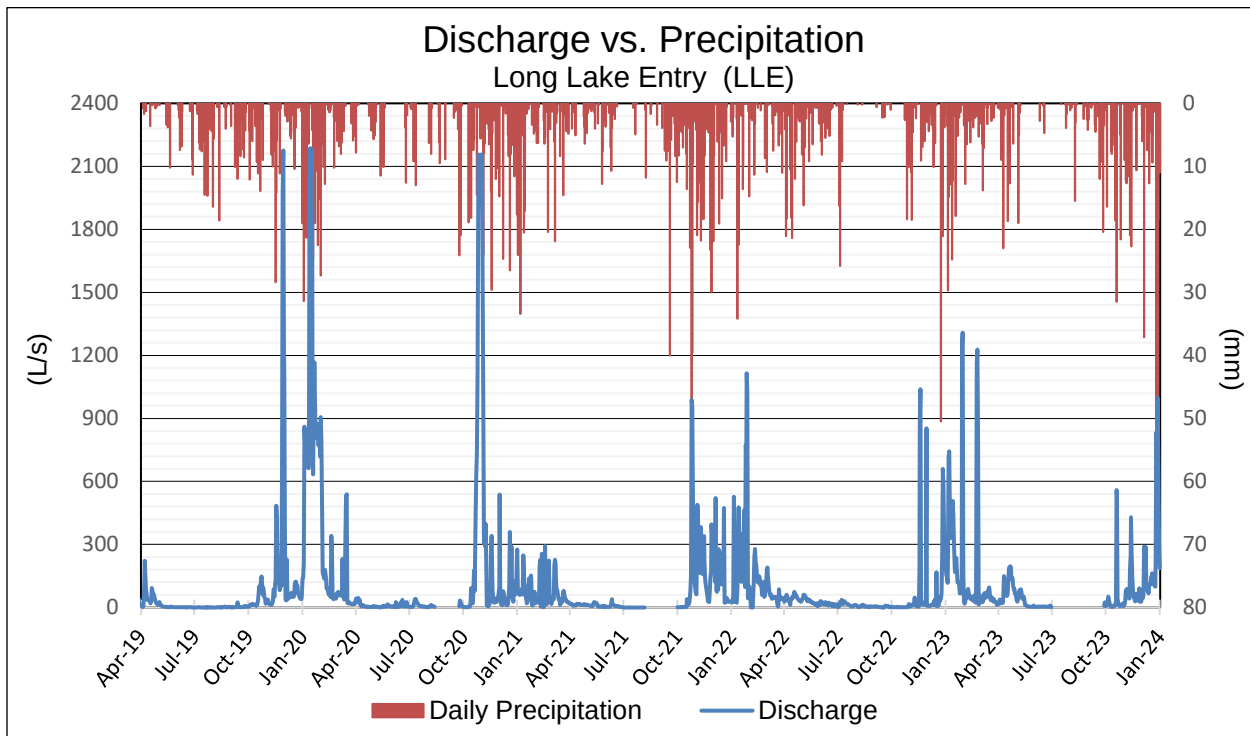


Figure 10: Inflow to Long Lake from the South Mine Area (LLE)

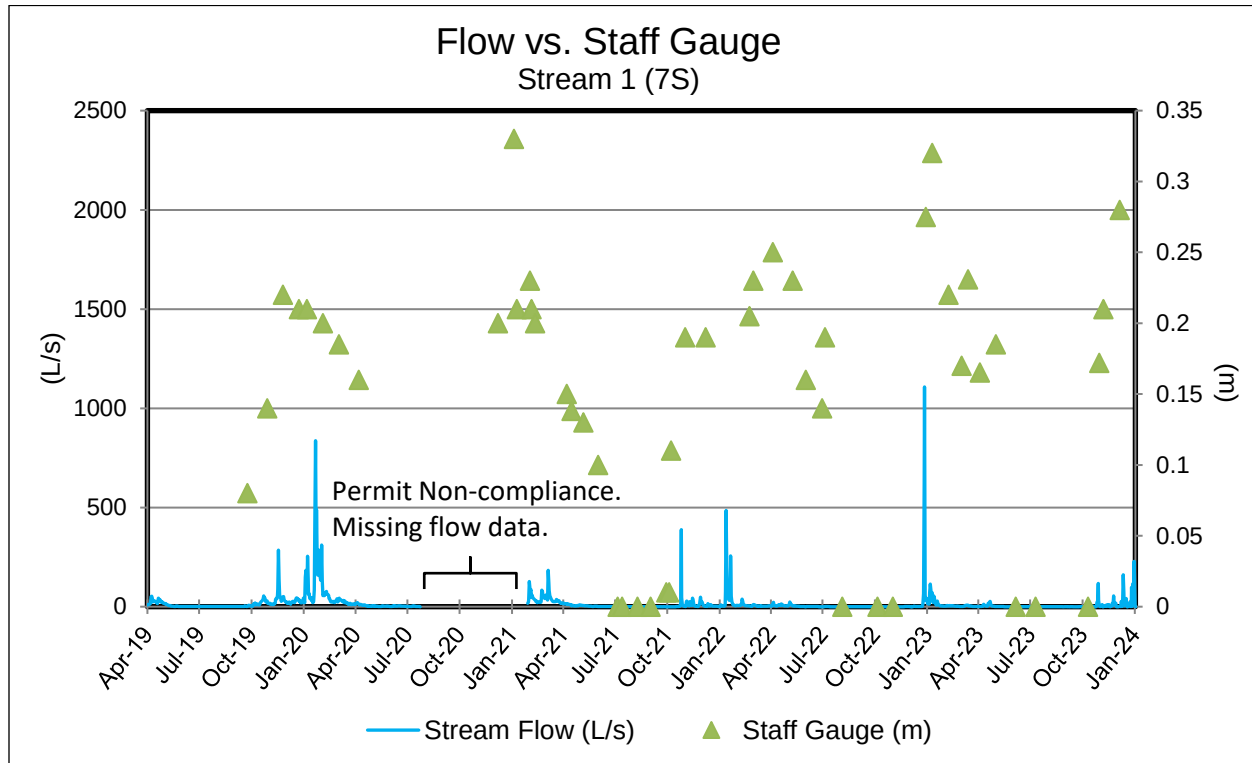


Figure 11: Stream 1 (7S)

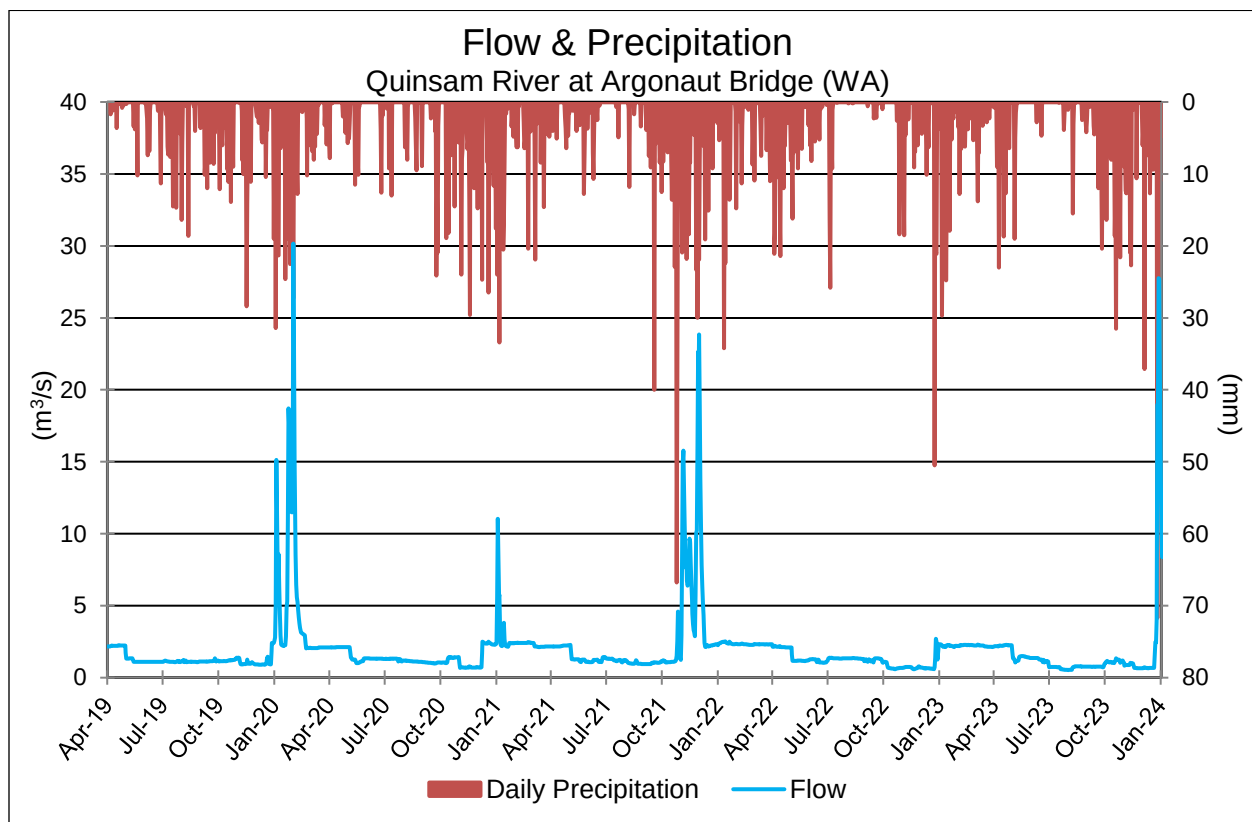


Figure 12: Quinsam River at Argonaut Bridge (WA)

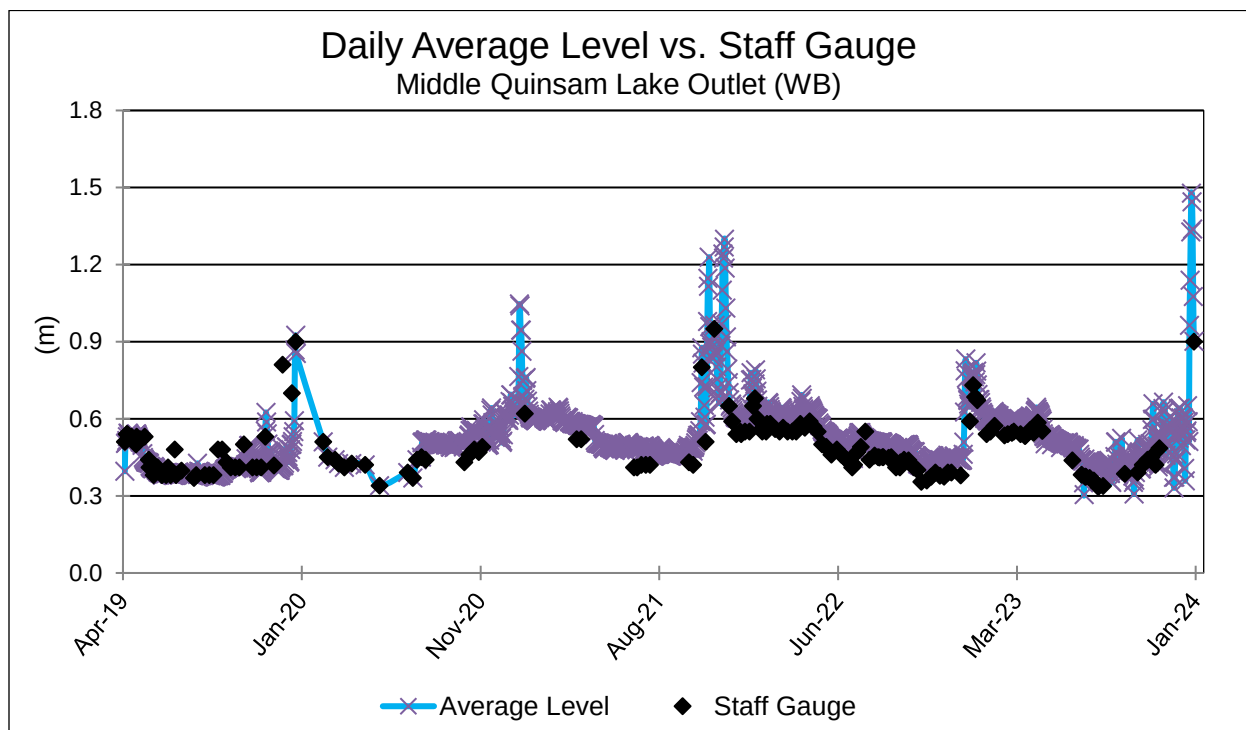


Figure 13: Middle Quinsam Lake Outlet (WB)

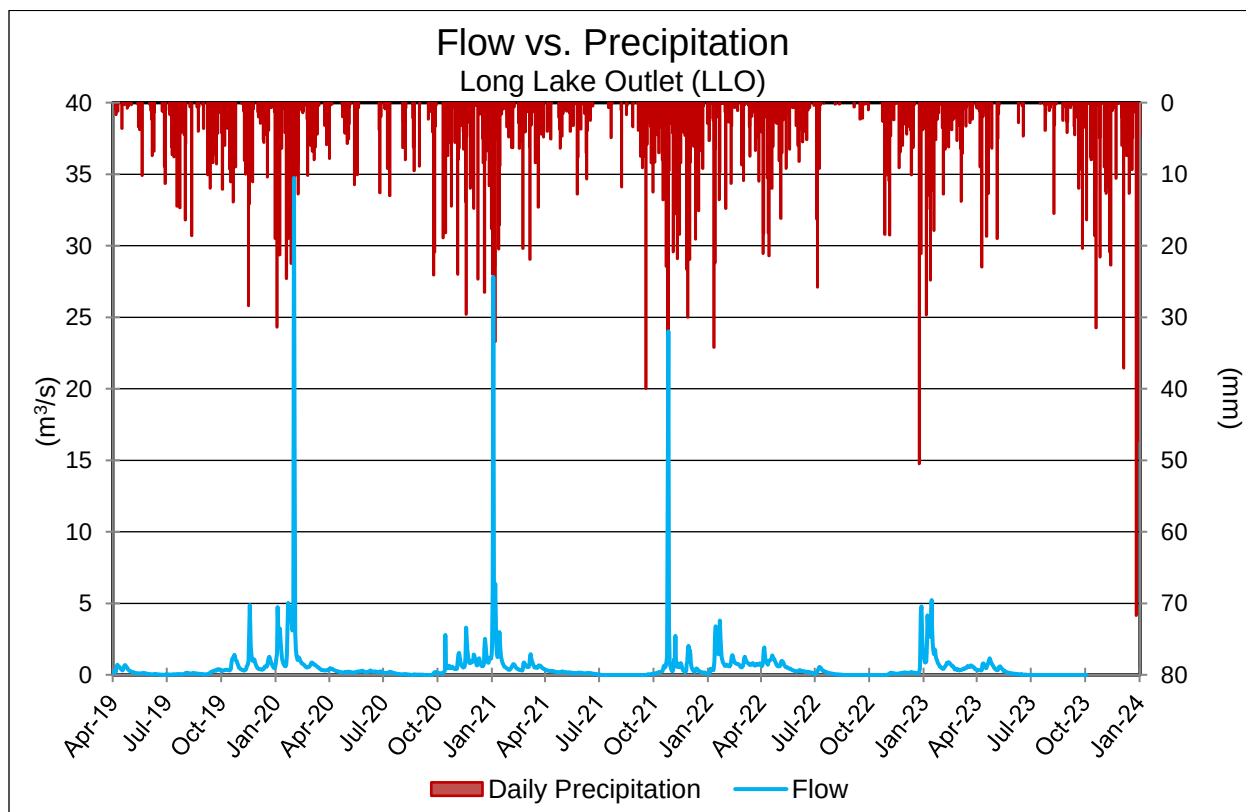


Figure 14: Long Lake Outlet (LLO)

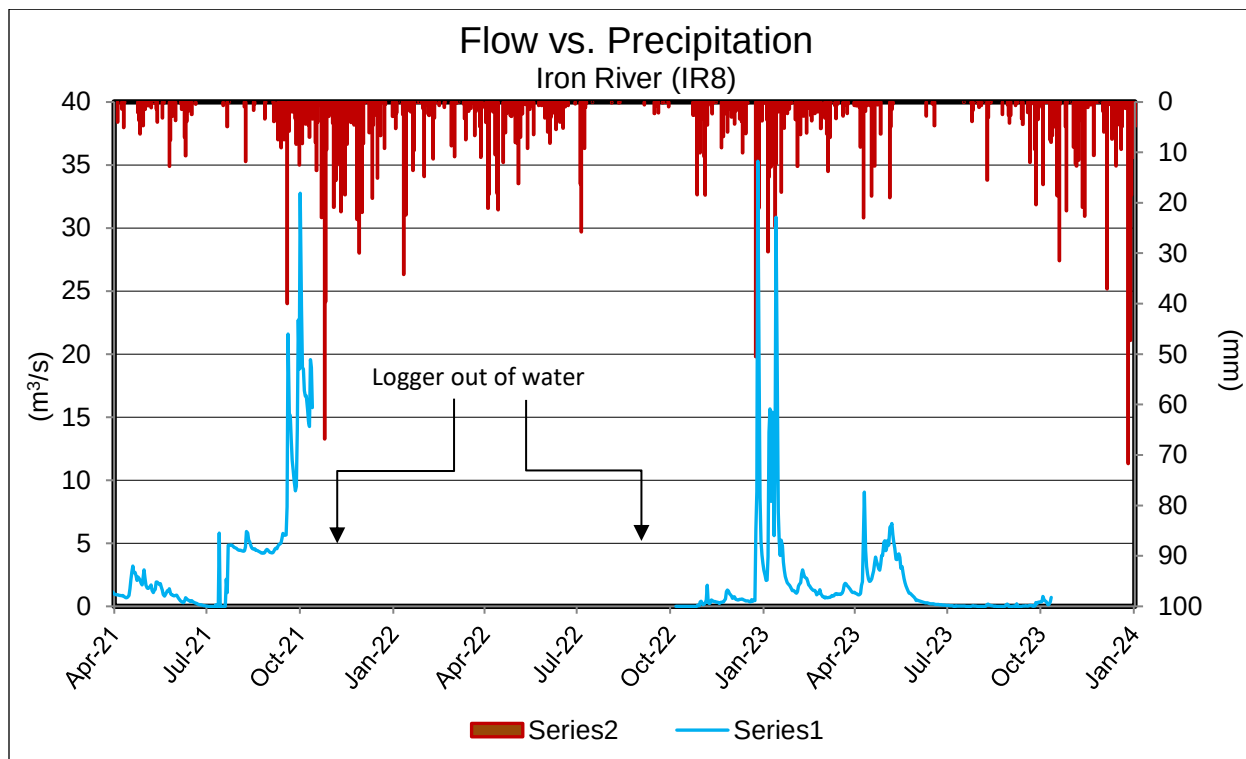


Figure 15: Iron River (IR8)

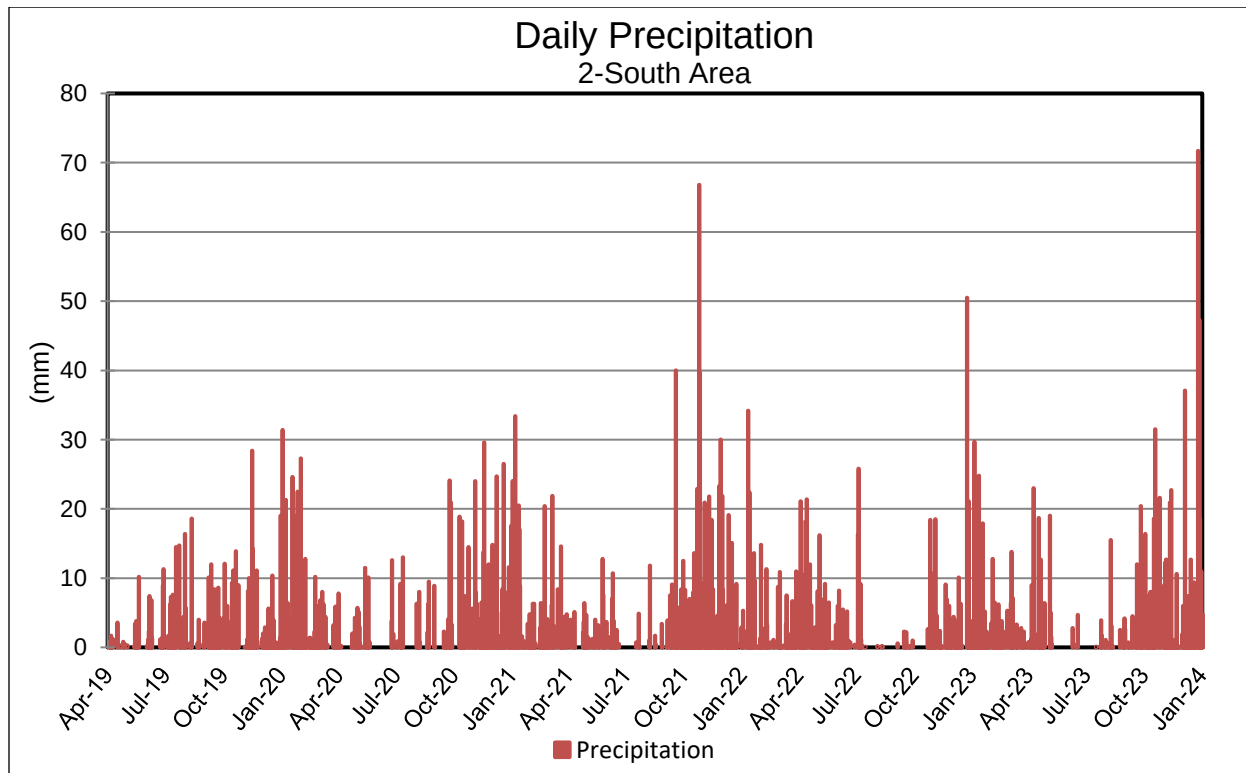


Figure 16: Daily Precipitation (mm)

4.0 RECEIVING WATER (STREAMS AND LAKES) MONITORING SITES

Monitoring stations captured within the Quinsam Mine Site are listed in the table below.

Table 2: Receiving Water (Streams and Lakes) Monitoring Sites

Streams	Lakes	Site Code for Lakes
North Mining Operation		
Quinsam River at Argonaut Road (WA) (EMS # 0126402) – Upstream of mine influence Outflow from Middle Quinsam Lake (WB) (EMS # 0900504)	Middle Quinsam Lake (MQL) Centre at depths of 1 metre (1m), 4 metre (4m), 9 metre (9m) and 1 metre from bottom (1MB) (EMS # E206618)	MQL1, MQL4, MQL9 and MQLB
South Mining Operation		
Long Lake Outlet (LLO) (EMS # E219412) No Name Lake Outlet (NNO) (EMS # E217017)	Long Lake at Centre (LLM) at depths of 1m, 4m, 9m, and 1MB (EMS # E206619) No Name Lake (NNL) at depths of 1m, 4m, 9m, and 1MB (EMS # E217018)	LLM1, LLM4, LLM9 and LLMB NNL1, NNL4, NNL9 and NNLB
7-South Mining Operation (Areas 1 to 4)		
Quinsam River upstream of 7 South Mining Operation (QRDS1) (EMS # E286930) Quinsam River downstream of 7 South Mining Operation (7SQR) (EMS # E292113) Lower Wetland Outlet at the confluence of Quinsam River (LWO) (EMS # E292112)	Lower Quinsam Lake (LQL) (EMS # E292118) at depths of 1m, 4m, 9m, and 1MB	LQL1, LQL4, LQL9 and LQLB
7-South Area 5 Mining Operation		
Iron River upstream of 7SA5 (IR6) (EMS # E297231) Iron River downstream of 7SA5 and 242 inputs (IR8) (EMS # E297232) Quinsam River downstream of confluence with Iron River (IRQR) (EMS # E299256)	Lower Quinsam Lake (LQL) (EMS # E292118)	LQL1, LQL4, LQL9 and LQLB

Preamble – Water Hardness and Dissolved Copper

For the purposes of this report, water quality in the receiving environment is compared to Acute and Chronic BC Water Quality Guidelines for Freshwater Aquatic Life (WQG). For those parameters that are hardness dependent the guideline has been derived using background (i.e., monitoring location WA) hardness (~30mg/L) at all stations. Quinsam Coal has adopted this approach for the Iron River as well. Using a hardness of 30 mg/L provides a conservative comparison of receiving environment water quality when comparing to hardness dependent WQG's. Dissolved copper and total aluminum are the only parameters where the actual ambient water chemistry is used.

To obtain the dissolved copper guideline ambient water quality from the site-specific receiving environment sites is uploaded into the British Columbia Copper Biotic Ligand Model Database. The database uses specific water chemistry per site such as hardness, pH, temperature and dissolved organic carbon and derives a site specific acute and chronic WQG for copper. The below graphs display the acute and chronic Aquatic Life – WQG's derived for copper compared to individual copper results from receiving environment sites during fall.

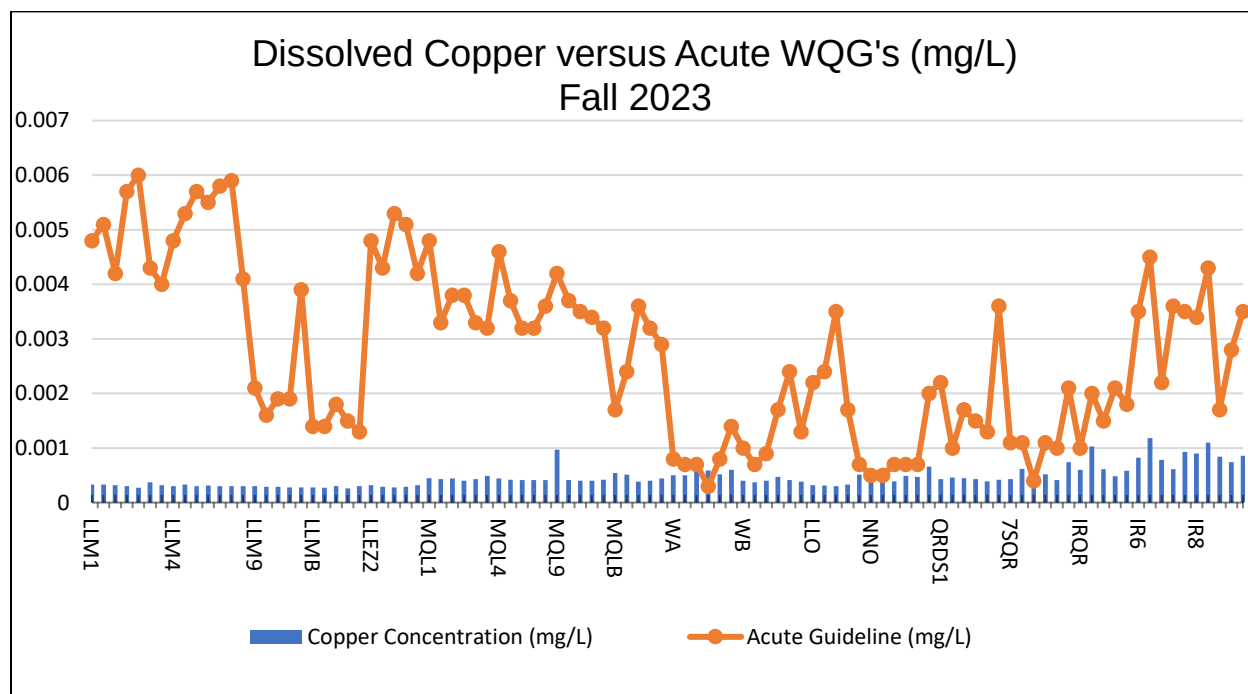


Figure 17: Dissolved Copper versus Acute WQG's (mg/L)

Receiving water quality during fall mostly remained below the acute copper guidelines derived from site specific chemistry. Elevated sites include upstream of mine influence on the Quinsam River at site WA for

one out of five results. No Name Lake outlet (NNO) water quality results were nearing the acute guidelines. The location 7SQR downstream on the Quinsam River had one out of five results above the acute WQG.

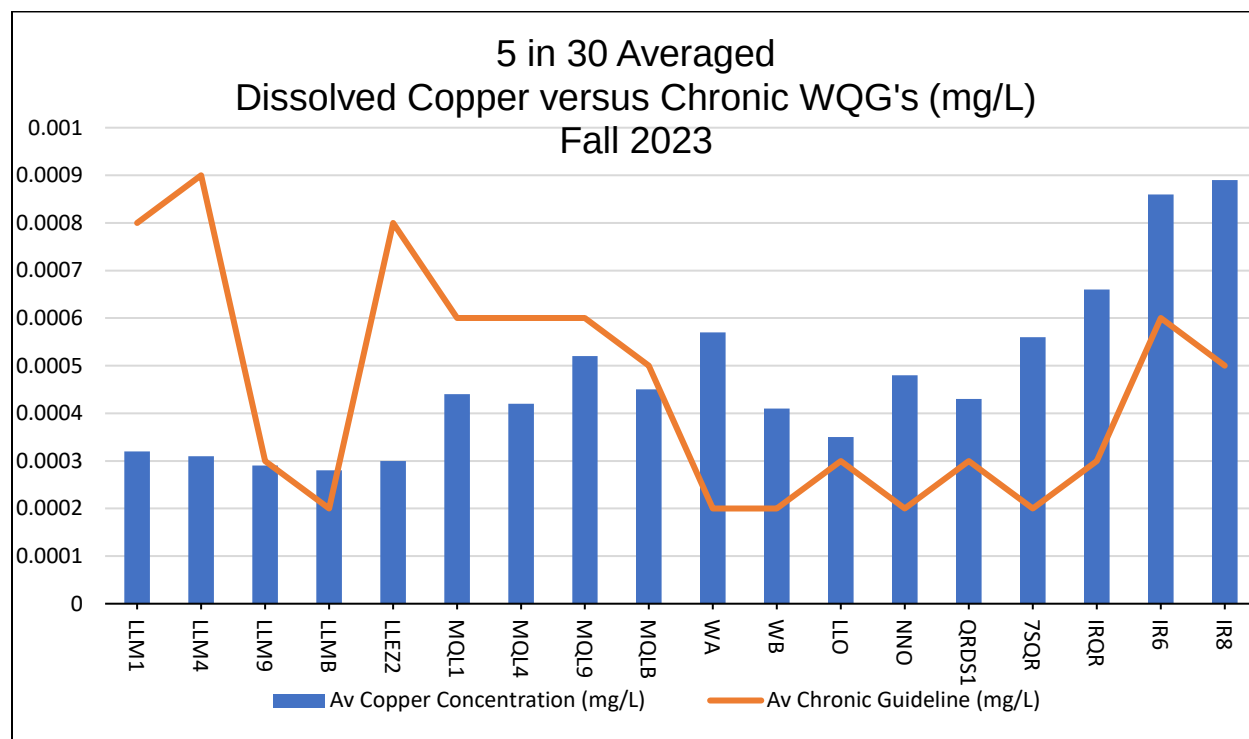


Figure 18: 5 in 30 Average Fall Copper versus Chronic WQG's (mg/L)

Receiving water quality during fall remained below the chronic copper guidelines (derived from averaged water quality) in both Middle Quinsam and Long Lake except at 1MB in Long Lake. All other locations on the Quinsam and Iron rivers including tributaries were observed above the chronic guideline upstream of mine influence (WA, NNO and IR6) to downstream of mine influence (WB, QRDS1, 7SQR, IRQR, IR8 and LLO).

4.1 LAKES

Lake sampling commenced on October 4th following the 5 samples in 30 days approach "5 in 30" and completed on October 30th. This program included Long Lake (LLM) and Middle Quinsam Lake (MQL). Depth profiling for physical parameters is performed at every meter from surface to 1 meter from bottom with an Exo Sonde that captures pH, conductivity, temperature, dissolved oxygen (DO) and oxidation reduction potential (ORP). Water chemistry samples are collected for laboratory analysis at 1 metre (1m), 4 metre (4m), 9 metre (9m) and 1 metre from bottom (1MB). Appendix 1, Tables 36 through 37 display the depth profiling chemical water quality results compared WQG-FWAL.

Fall monitoring is meant to capture the fall turn over event when the deeper portions (hypolimnion) have been replenished with dissolved oxygen. This was evident in Middle Quinsam Lake (MQL) as it is a long, shallow lake (13m to 15m) with inputs controlled by the upstream dam on the Quinsam River.

Long lake (LL) is deeper (19m to 22m) and shorter in length with inputs received from No Name Lake and groundwater inputs including Long Lake seeps and mine related discharge at the outlet (LLE). In LL turnover was slow as temperature gradients were differing 9 degrees Celsius from surface (epilimnion), middle (metalimnion), to bottom (hypolimnion) depths during the first weeks compared to the last week with a 3-degree Celsius difference between surface and bottom depths. Refer to Figure 19 below.

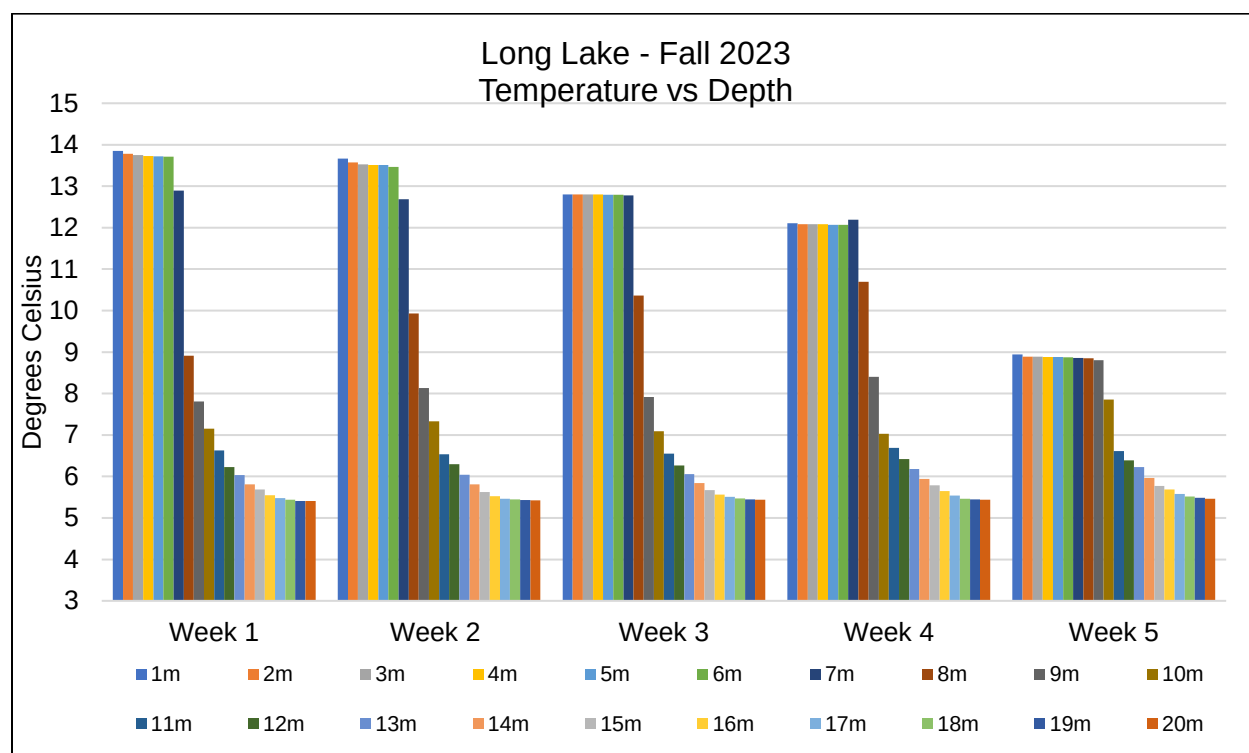


Figure 19: LLM Temperature Profile

When there is limited inflow at the inlet (from No Name Lake) and ambient temperatures remain warm, lake stratification is extended in LL compared to MQL. In LL, turnover occurs late in the fall, with stratification remaining into November and dissolved oxygen levels depleted (<3 mg/L) in the hypolimnion, referred to as anoxic conditions. Anoxic conditions at depth causes manganese concentrations to increase at the sediment / water interface. Anoxic conditions were observed during the fall sampling events in the hypolimnion zone (16 m to 20 m). Refer to Figure 20, below.

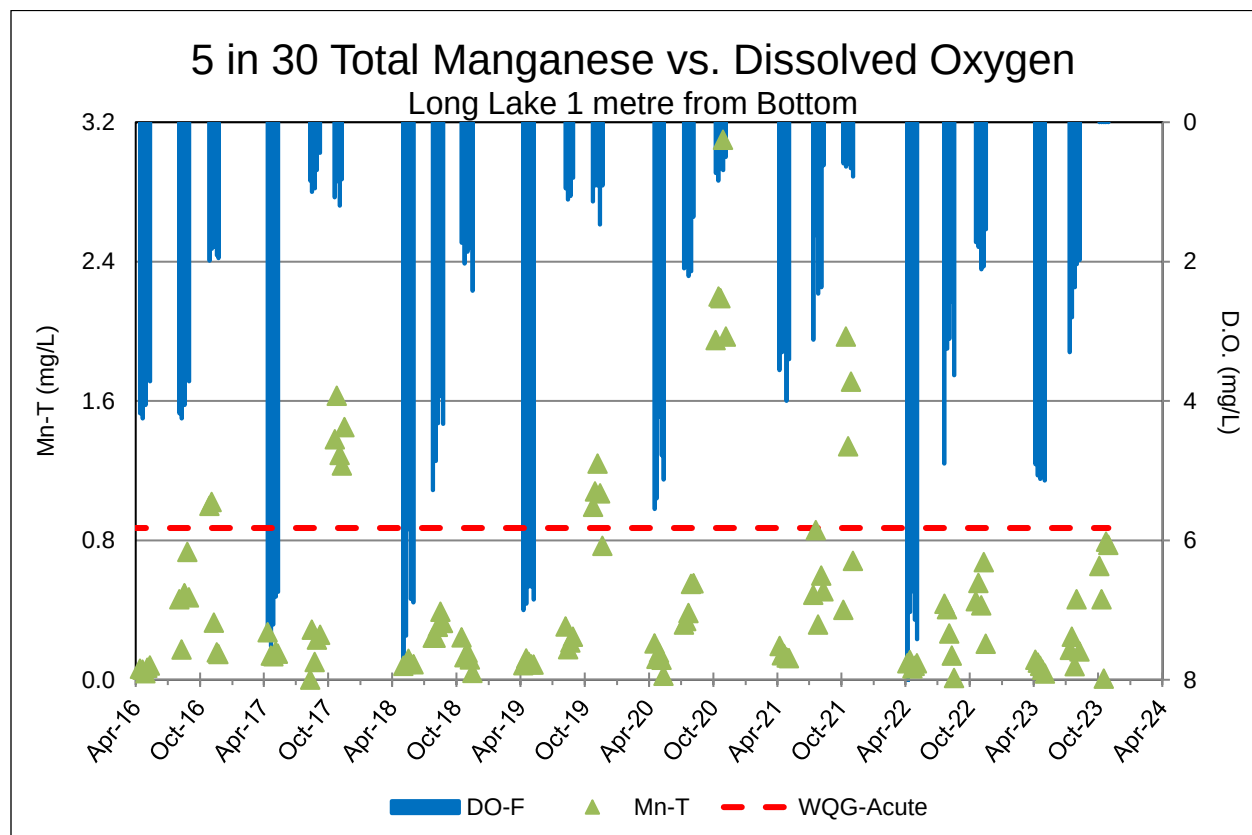


Figure 20: Dissolved Oxygen at 1MB in LL

In MQL, turnover was apparent, distinguished by a less pronounced temperature gradient of less than 1 degree Celsius between epilimnion to hypolimnion during the last 4 weeks, with week 5 displaying the lowest temperatures. Refer to Figure 21, below.

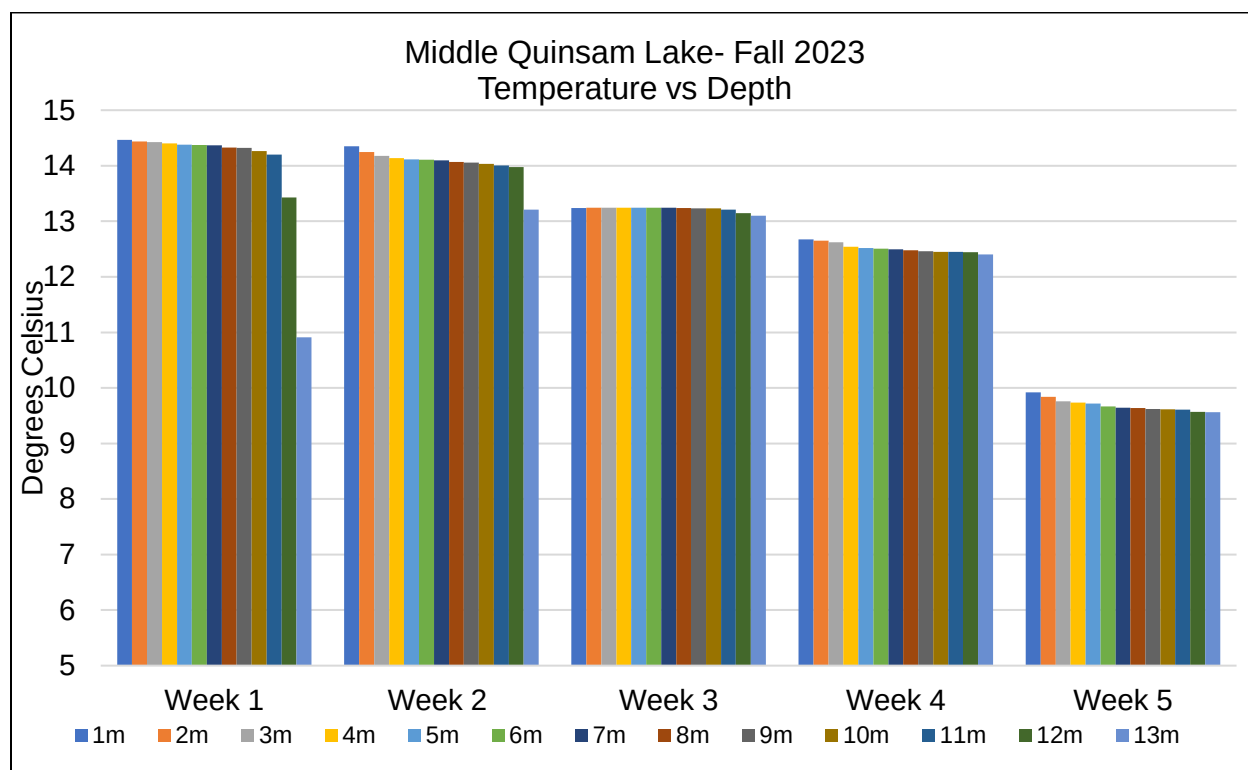


Figure 21: MQL Temperature Profile

Dissolved sulphate concentrations in both lakes remained below the chronic WQG (128 mg/L). Refer to Figure 22 and Figure 23, showing both lakes (LLM and MQL), 5 in 30 average dissolved sulphate over time. For Long Lake, dissolved sulphate concentrations have been declining over time as a result of dewatering efforts creating less loading from the underground workings (Long Lake Seeps). Concentrations of sulphate are much higher in Long Lake compared to MQL ranging from 73 mg/L to 93 mg/L. The 9m metre depth (93.25 mg/L) displayed higher concentrations than the 1MB depth (87.25 mg/L) possibly due to the influence of groundwater infiltration within that zone or other factors such as temperature gradients causing sulphate to sink from surface and stratify within that zone.

Dissolved sulphate in MQL remained below 10 mg/L throughout the lake during fall. This was a result of limited discharge during this period due to dry conditions on site and the 1 Mains 2 North pump not operating until late November. This is the lowest average dissolved sulphate recorded throughout the lake, since the 5 in 30 monitoring began.

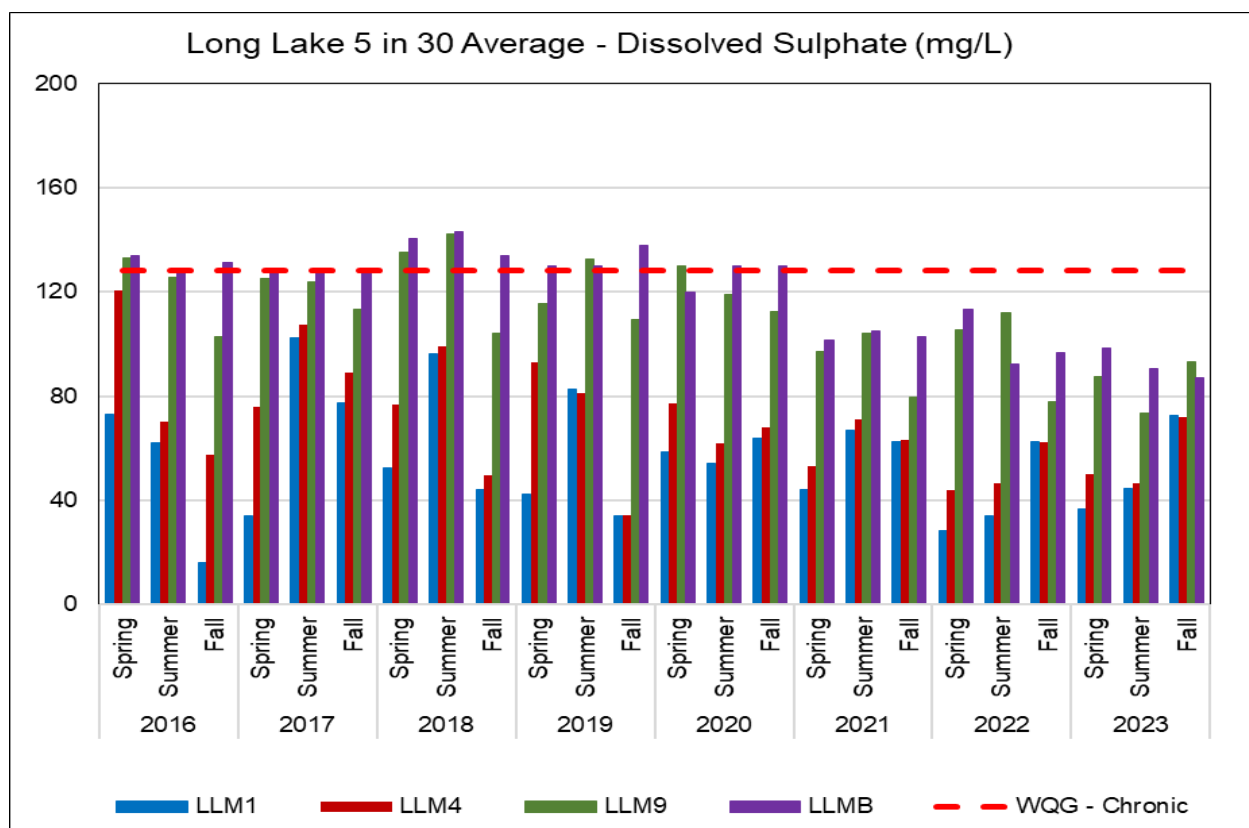


Figure 22: Dissolved Sulphate in LL

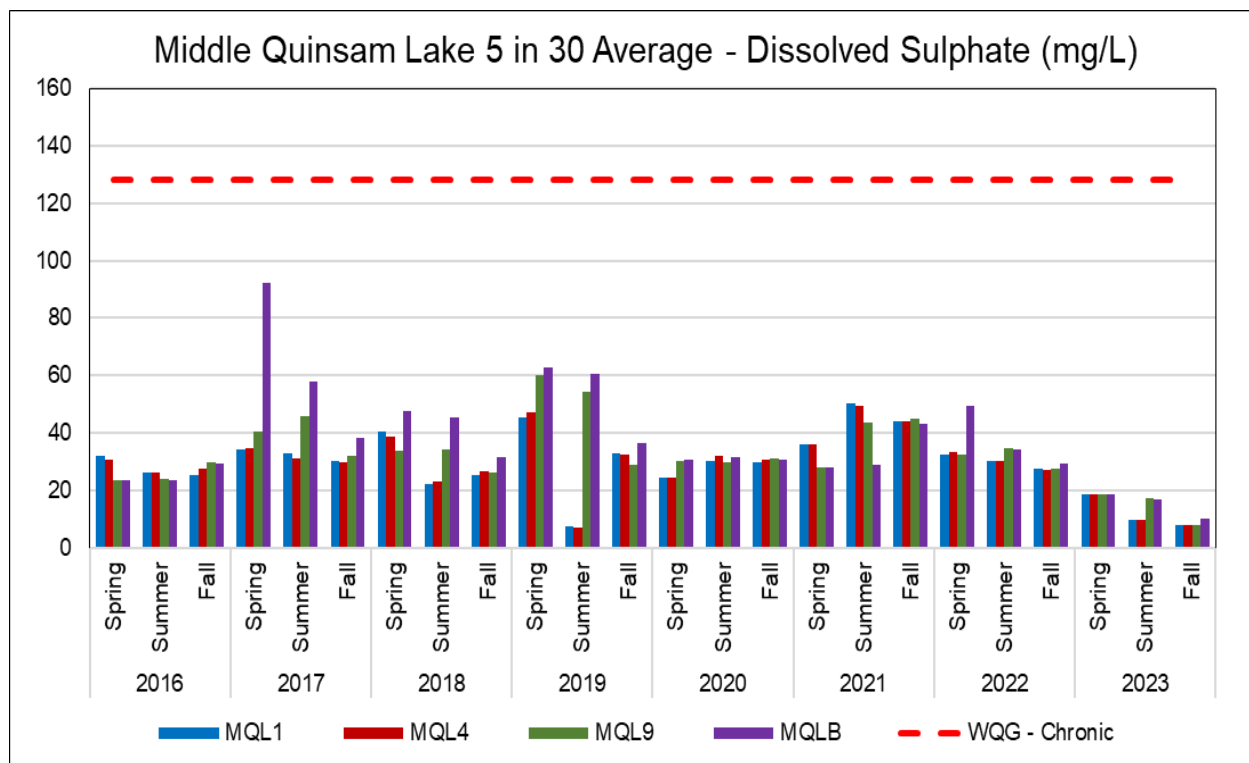


Figure 23: Dissolved Sulphate in MQL

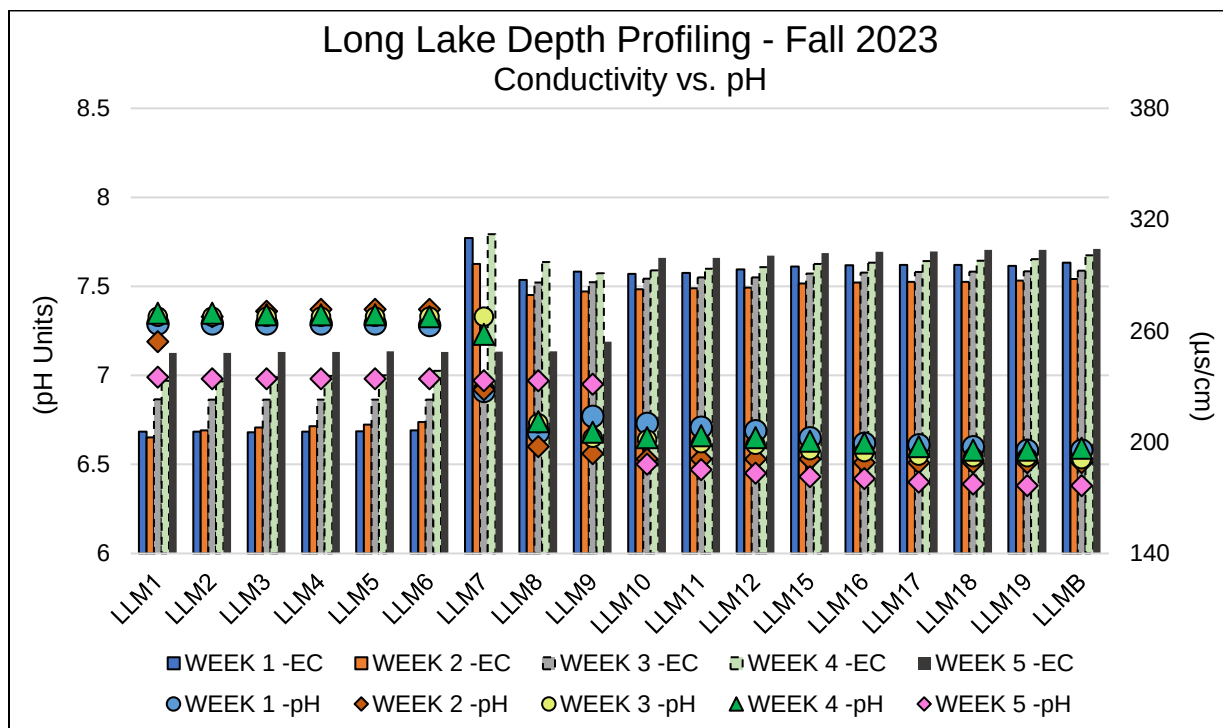


Figure 24: Long Lake Depth Profiling - Conductivity vs. pH

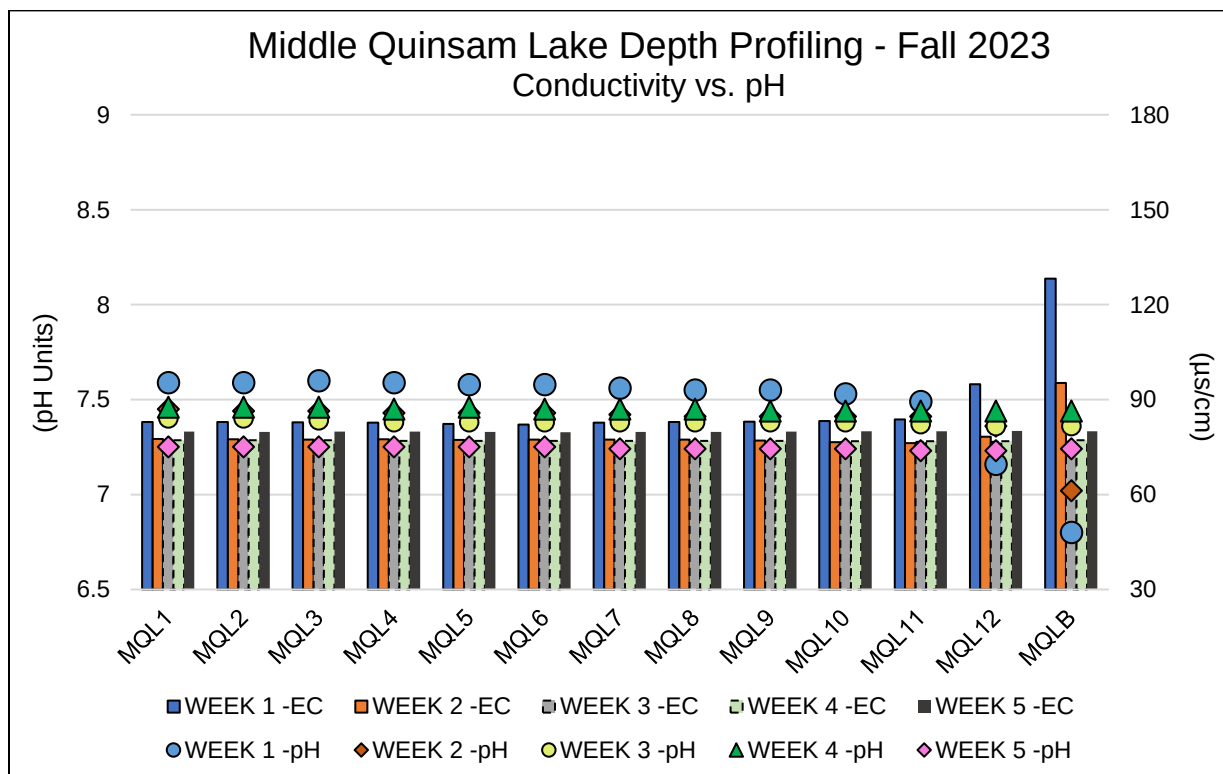


Figure 25: Fall Depth Profiling - Middle Quinsam Lake- Conductivity vs. pH

Noteworthy observations resulting from the lake monitoring program include:

- Average dissolved sulphate in MQL was well below the chronic WQG (128 mg/L) at all depths resulting in 7.85 mg/L to 9.95 mg/L from surface to 1 metre from bottom during fall.
- Average dissolved sulphate in LL was below the chronic WQG (128 mg/L) at all depths averaging 72 to 73 mg/L at 1 meter and 4 meters, 93 mg/L at 9 meters and 87 mg/L at 1MB depths.
- The fall turnover was apparent in MQL, observed through temperatures remaining consistent per depth.
- Stratification was still apparent during the first four weeks in LLM, again observed through temperature gradients. Turnover was starting to occur during week five.
- Dissolved oxygen (DO) was below 3 mg/L in Long Lake in the hypolimnion zone resulting in anoxic conditions at depth, but Mn-T was not observed to be elevated above WQG's.
- Low DO is correlated with lake stratification depleting DO where manganese is released at the sediment / water interface.
- LL displays elevated conductivity, increasing with depth ranging from 195 $\mu\text{S}/\text{cm}$ to 494 $\mu\text{S}/\text{cm}$, increases are observed between 6-meter and 7-meter depths.
- MQL does not have elevated conductivity like LL ranging from 76 $\mu\text{S}/\text{cm}$ to 128 $\mu\text{S}/\text{cm}$, throughout the five weeks of sampling.
- The Long Lake Seeps stopped flowing by the end of June with no flow in Q3 until the last week of December only from the smaller seep (LLS), indicating LL had no surface influence from the seeps during this period.
- LLE displayed low flow rates during October while lake sampling was occurring.

4.2 STREAMS AND RIVERS

The '5 in 30' receiving environment program at river and stream sites commenced October 19th and concluded November 14th.

Appendix I, Tables 3, 4 and 39 display water quality results for this program compared to WQG-FWAL for the receiving environment sites.

Figure 26, displays averaged total arsenic concentrations for the Quinsam river. As observed, the results remained below the chronic-WQG-FWAL during spring, summer and fall sampling periods with IRQR having the highest results after contributions from the Iron River. Figure 27, displays averaged dissolved sulphate concentrations for the Quinsam River compared to the chronic-WQG of 128 mg/L, with all results remaining in low concentrations.

Noteworthy observations resulting from the river/stream Q3 monitoring program include:

- Total arsenic was not elevated in the Iron River at IR6 and IR8
- Acute dissolved copper was elevated upstream on the Quinsam River at WA and downstream at site 7SQR for two out of five results.
- Average dissolved copper concentrations were above the chronic WQG-FWAL in the Quinsam and Iron river's including tributaries in locations upstream and downstream of mine influence.

While monitoring location LLE is considered the initial dilution zone (for water quality evaluation purposes) it is important to note, that this location is a wetland and represents the uppermost extent of an initial dilution zone for the South water management system discharge into Long Lake. The Long Lake Seeps (LLSM and LLS) and newly discovered potential mine related seepage areas (S, S2A and S2B) sites are not considered receiving environment sites with results compared to WQG-FWAL, for assessment purposes only.

LLE and Potential Mine Related Seepage Area (S2A) Observations:

- LLE displayed low flow and elevated weekly results for dissolved sulphate and one dissolved zinc result above the chronic guidelines.
- LLS displayed low flow and out of one result dissolved sulphate and total iron were elevated.
- S2A displayed elevated total arsenic and dissolved iron above WQG's.
- S displayed elevated total arsenic, total boron, and dissolved sulphate above WQG's.

A summary of receiving environment guideline observations for river/stream stations is provided in Appendix 1, Table 3.

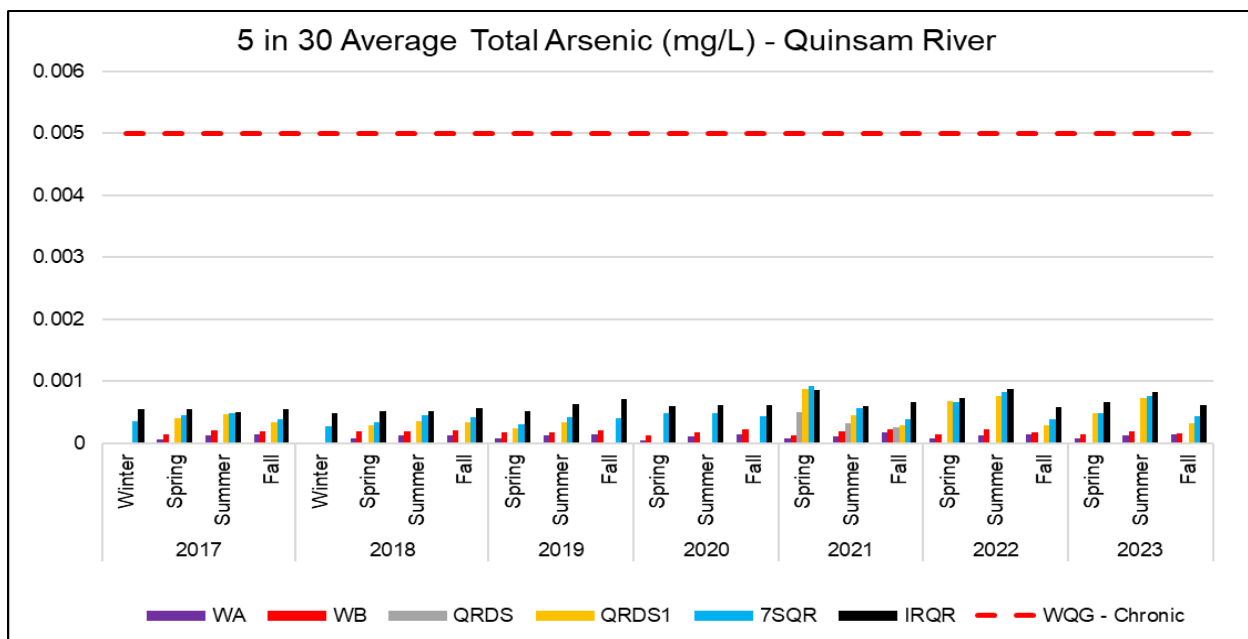


Figure 26: Total Arsenic in Quinsam River

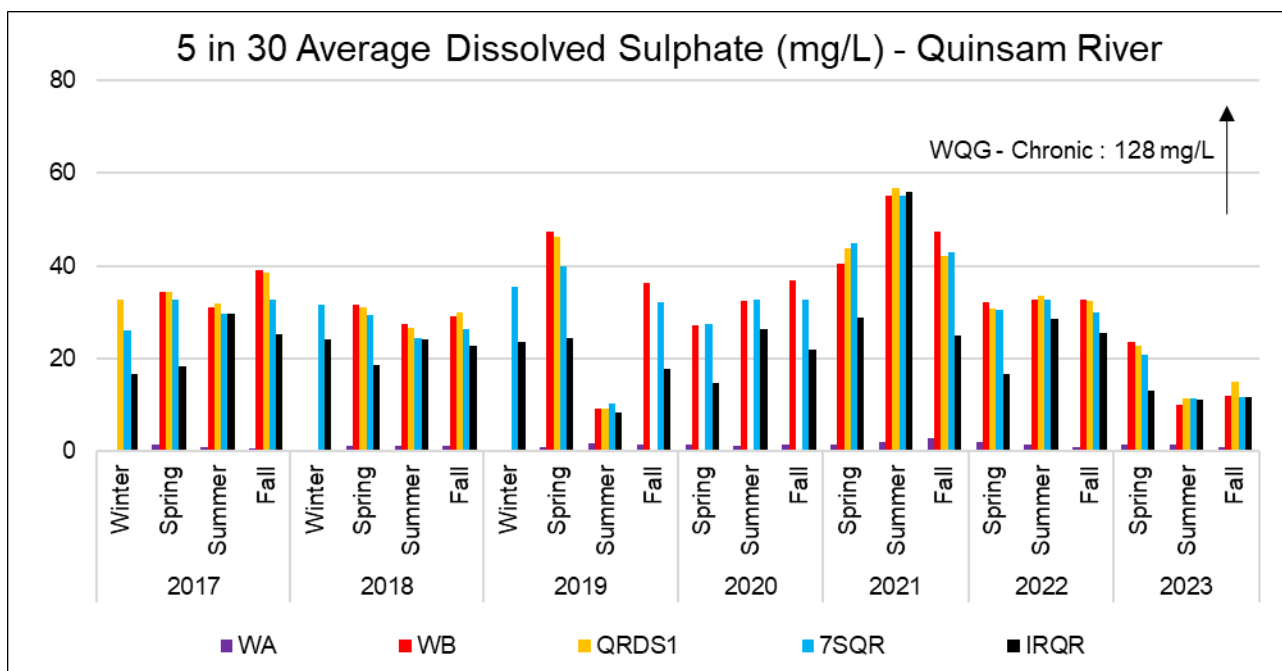


Figure 27: Averaged Dissolved Sulphate Quinsam River

5.0 BIOLOGICAL MONITORING

Chlorophyll “a”, phytoplankton and zooplankton samples were collected during one sampling event concurrent to the “5 in 30” fall turnover period. Samples for zooplankton were collected using a zooplankton net that was deployed to 10 metres and vertically towed to surface. These samples were analyzed for zooplankton count and identification of species. Chlorophyll “a” and phytoplankton were collected at one

metre below surface and analyzed for count, total abundance, and identification. During Q3, Middle Quinsam and Long Lakes displayed similar chlorophyll “a” and total abundance for phytoplankton with MQL (5878) having much higher counts of zooplankton compared to Long Lake (1337). Long Lake displayed the greatest abundance for Phytoplankton compared to Middle Quinsam Lake. Refer to Figure 28 through Figure 30, below. Species composition for Zooplankton resulted in the Rotifera being the most abundant in Middle Quinsam Lake and Cladocera being the most abundant in Long Lake (Figure 31).

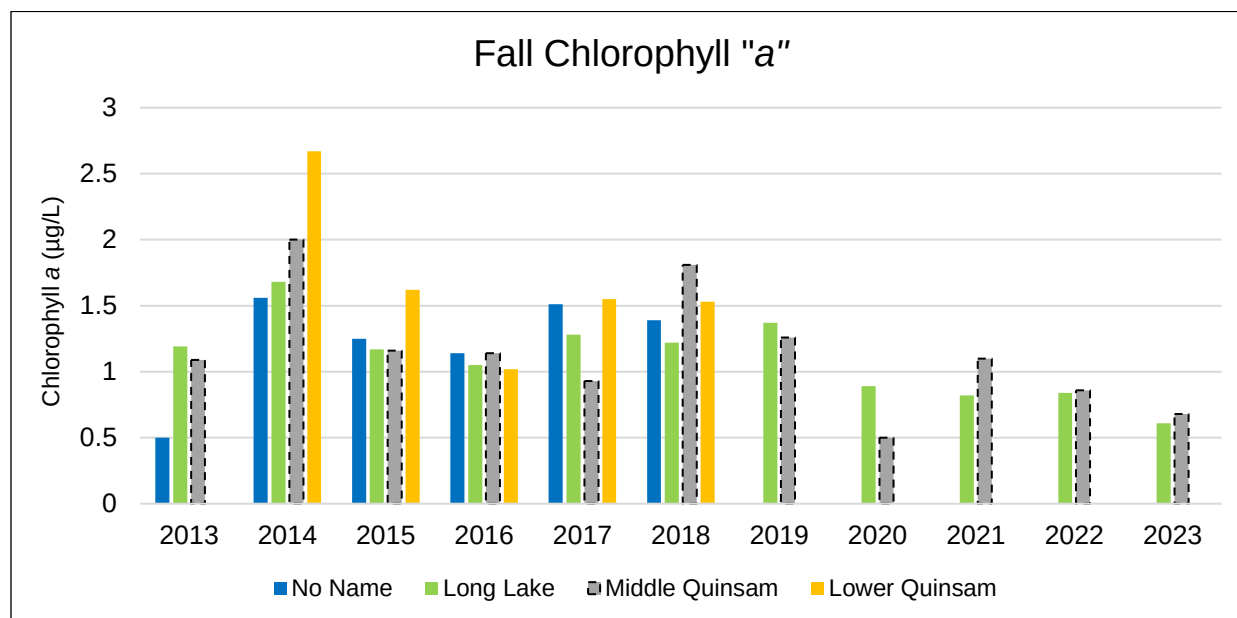


Figure 28: Fall Chlorophyll "a"

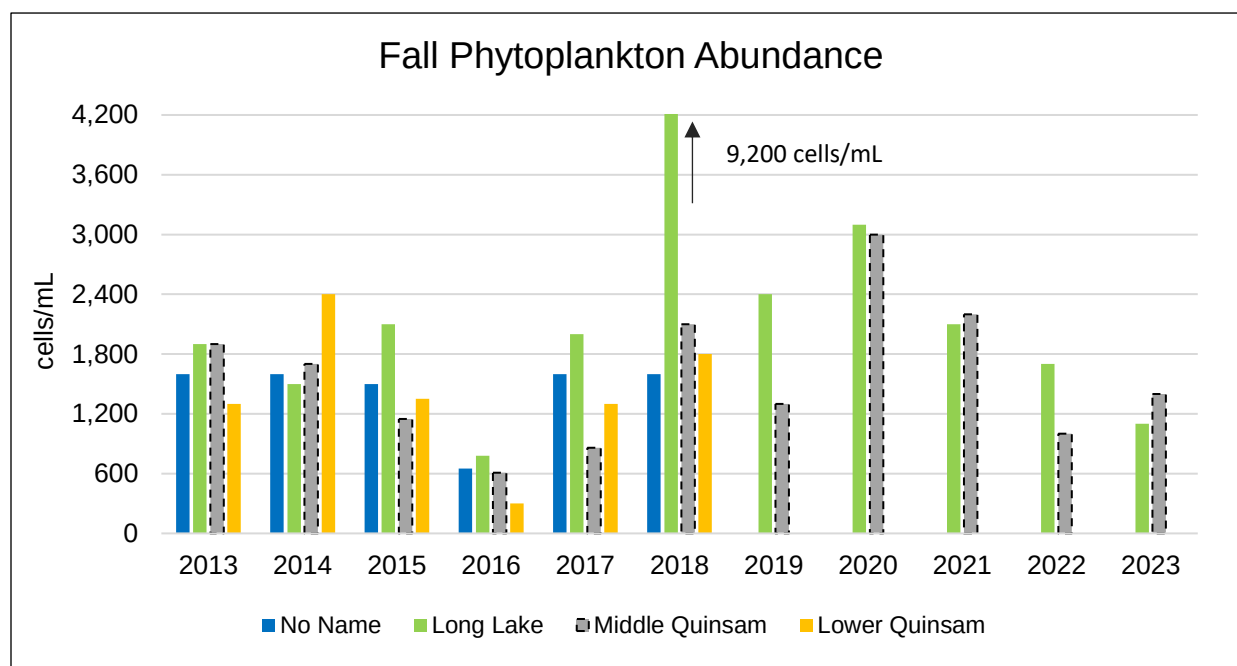


Figure 29: Fall Phytoplankton Abundance

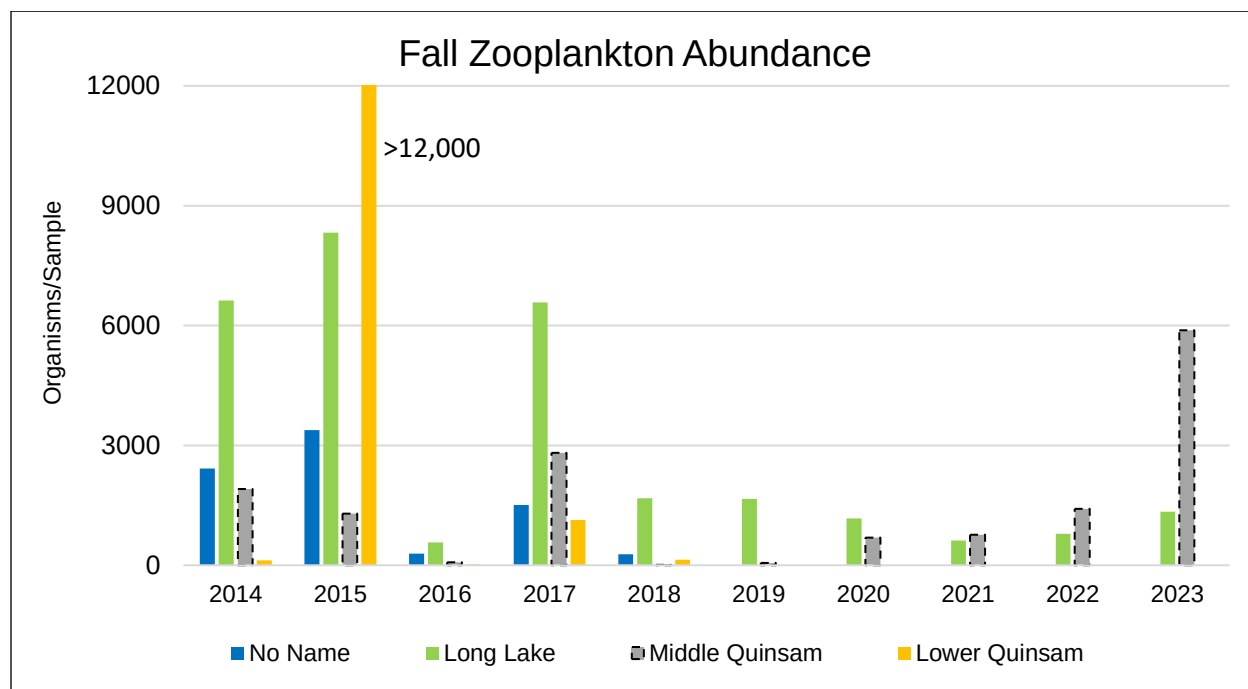


Figure 30: Fall Zooplankton Abundance

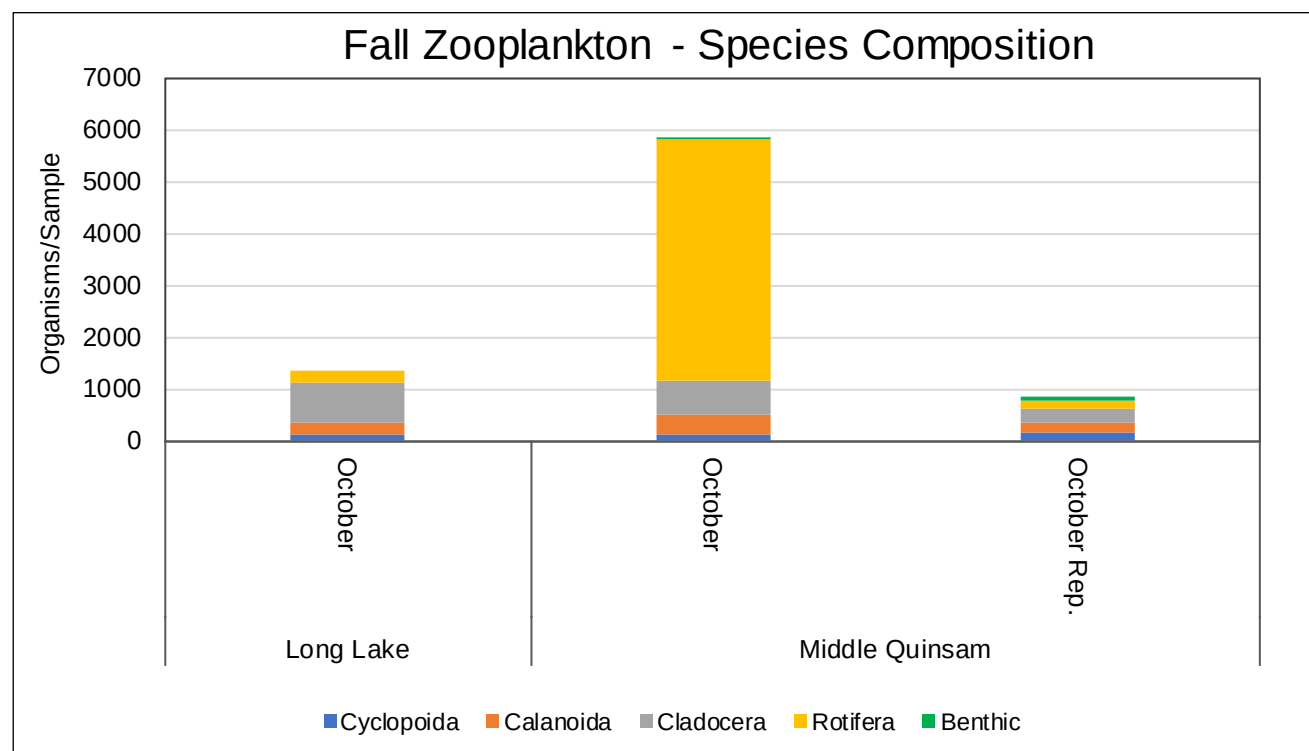


Figure 31: Fall Zooplankton - Species Composition

6.0 GROUNDWATER

This quarter, ex-situ groundwater wells, in-situ flooded mine voids and sumps were monitored. These included ten groundwater wells outside the mine footprint (ex-situ), eleven flooded mine voids (in-situ) and three underground sumps. Normally only Ex-situ groundwater is compared to the British Columbia Contaminated Site Regulation (CSR) (BC reg.375/96. O.C. 1480/96), Schedule 6, Aquatic life (CSR-AL) however, all the underground mine water was compared to these standards for evaluation. Apart from some slightly elevated parameters of interest (i.e., arsenic, chloride, selenium, sulphate, and sulfide calculated as hydrogen sulfide), most concentrations were not elevated above CSR-AL.

Refer to Appendix I, Table 5 for those parameters displayed in both ex-situ and in-situ groundwater and flooded mine voids above the CSR-AL. Appendix I, Table 32 provides details on the well and sump designations and locations. Appendix 1, Tables 33 provide the water quality analyses. Certain parameters found in ex-situ groundwater repeatedly exceed CSR-AL. Those include the following dissolved parameters: arsenic, chloride, and sulphide as H₂S and occasionally selenium. Selenium is observed periodically in the ex-situ deep and shallow groundwater of QU1105 D and S. This ground water well is situated down gradient of underground tailings disposal in 1Mains 2-North and measures water quality and hydraulic head downgradient of 2-North and River Barrier Pillar. Some of these parameters (Arsenic) are naturally elevated in ex-situ groundwater due to the regional geology of the area. Quinsam monitors trends for arsenic, sulphate and H₂S in in-situ wells and compares them to predictive water quality and source terms developed for certain areas. This is discussed in detail in the Annual Water Quality Monitoring Report due to the frequency of monitoring for groundwater wells and expected travel time of groundwater movement.

7.0 PASSIVE TREATMENT SYSTEM (PTS)

The PTS was operational for Q3 with minor interruptions due to power outages. The PTS was operating between 3.6 L/s to 6.8 L/s, averaging 5.84 L/s. Average amount of treated mine water pumped over the quarter (92 days) was approximately 46,421 m³. The mine pool water level ranged from 3.7 m above the pump to 14.3 m by the end of December. The Seeps (LLS and LLSM) were not flowing for most of the Q3 with LLS starting the last week of December and LLSM just starting to seep with no flow through the H-Flume or reaching the lake. Normally both Seeps would be flowing by mid-November. Increasing flow rates up to 8.2 L/s from the mine void, in addition to limited surface precipitation during fall have prevented the mine from filling up and prolonged the period of no flow at the seeps (Figure 32).

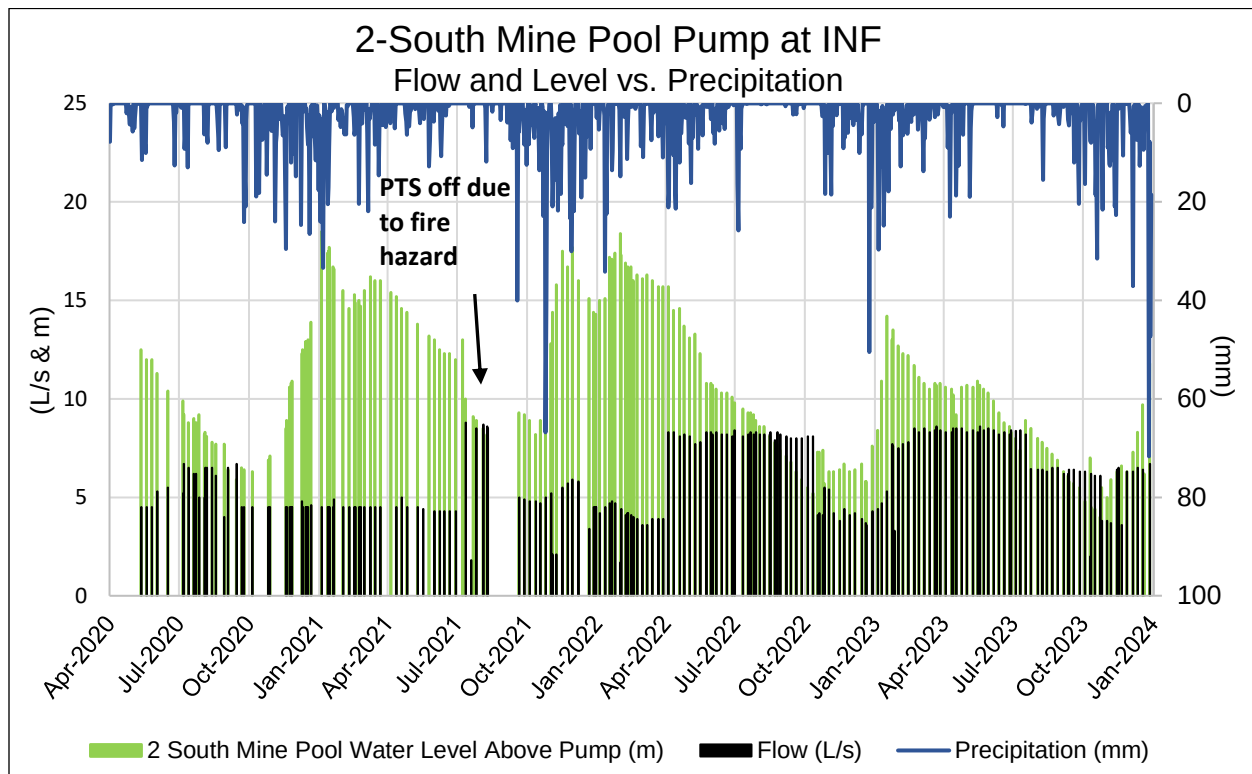


Figure 32: 2-South Mine Pool at INF Flow & Level vs. Precipitation

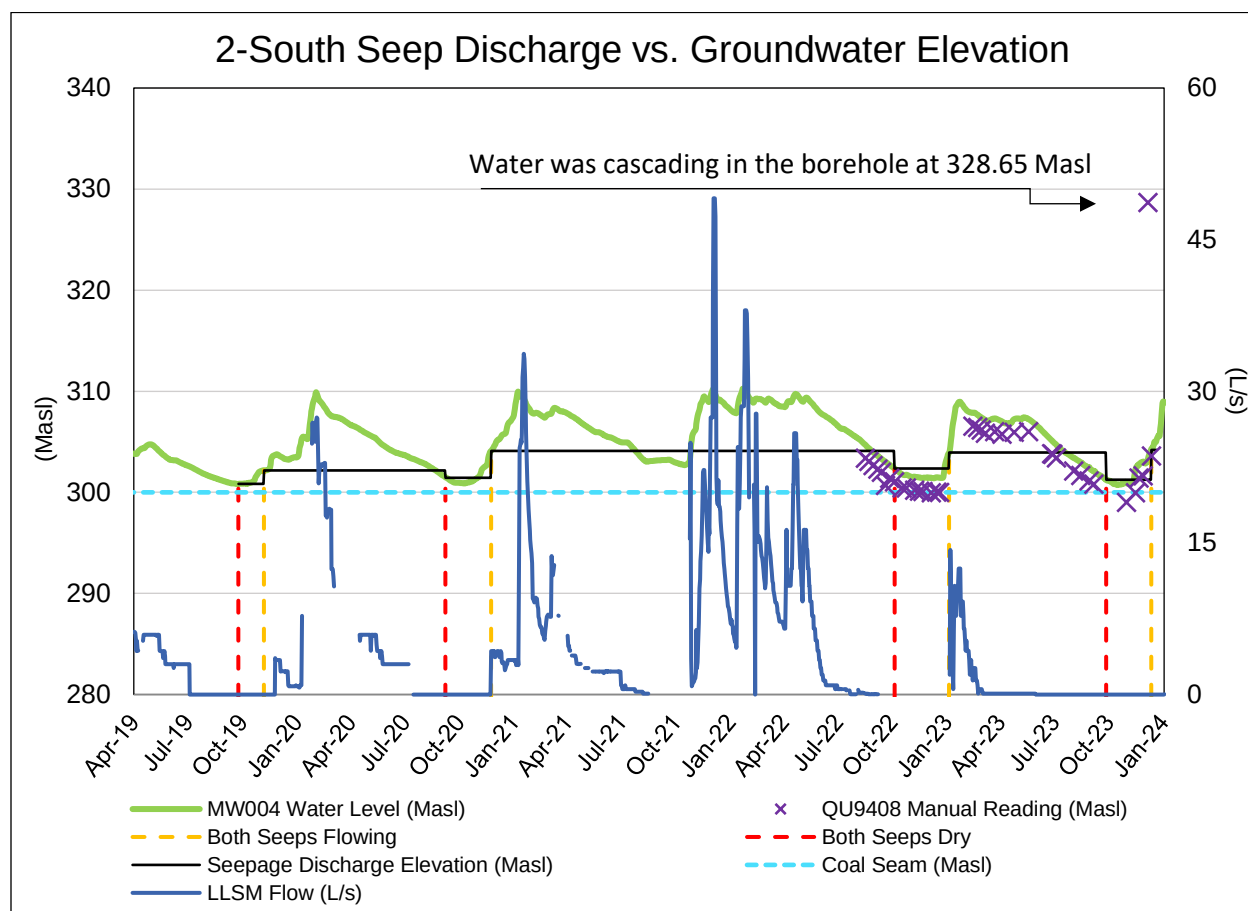


Figure 33: 2-South Mine Pool Versus Long Lake Seep Middle (LLSM) Flow

Figure 33 depicts the 2-South mine pool elevations measured at different locations in the mine area compared to discharge at LLSM. It includes the groundwater well closest to the seeps (MW004) and the 2-South dewatering well (QU11-11). Measurements are compared to the period where discharge is measured at the Seeps and the period of no flow. The mine pool elevation required for the Seep to stop discharging is approximately 300 meters above sea level (MASL).

For Q3 average concentrations of dissolved sulphate entering the PTS from the 2-South mine pool measured at INF were 605 mg/L and leaving the system at the Sulphide Polishing Cell (SPCEFF) resulting in 355 mg/L, (Table 3 and Figure 34). This has led to a reduction in average sulphate concentrations of 250 mg/L, (Figure 35). Sulphate reduction between INF and Biochemical Reactor (BCR) averaged 151 mg/L. The station, 2-South Inflow (2SI), receives discharge from the PTS including untreated mine water from INF, had an average sulphate concentration of 409 mg/L with a reduction between INF and 2SI of 196 mg/L. SPD had an average sulphate of 343 mg/L with an average reduction rate between INF and SPD of 262 mg/L for Q3.

Table 3: Summary of Site Dissolved Sulphate and Reduction Rates

Q3	INF	BCREFF	SPCEFF	2SI	2S	3S	SPD
Average	605	506	355	409	427	607	343
Count	13	13	13	13	3	3	13
Minimum	550	460	290	250	320	510	93
Maximum	680	590	440	550	530	670	570
Sulphate reduction	INF to BCR	INF to SPCEFF	BCR to SPCEFF	INF to 2SI	INF to 2S	INF to 3S	INF to SPD
	99	250	151	196	179	-1	262

Overall, the greatest average sulphate reduction through the PTS exists between INF to SPCEFF resulting in 250 mg/L. Warmer ambient temperatures normally increase microbial metabolic activity within the BCR and SPCEFF during summer and early fall. The low average reduction rate (151 mg/L) between INF and BCR could indicate that the substrate requires replacement in the BCR, or the cooler ambient temperatures decreased microbial activities. Overall, a sulphate reduction of 262 mg/L was attained within the South Water Management System between INF and SPD. The original reduction goal for the PTS was to reduce sulphate concentrations to 300 mg/L. This was not achieved in Q3 but discharge concentrations at SPD remained relatively low, 343 mg/L. Increased pumping from 3-South pit and the 2-South pit may have contributed to higher average concentrations displayed at SPD.

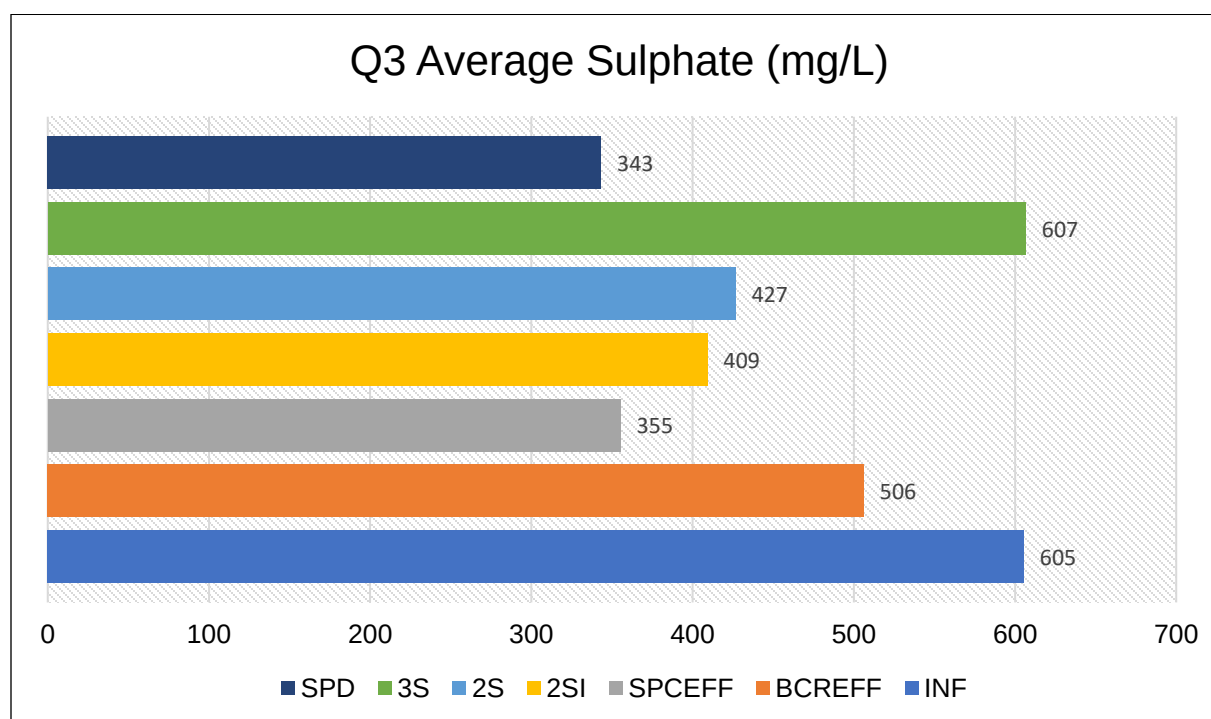


Figure 34: Average Sulphate Concentrations in 2-South Area

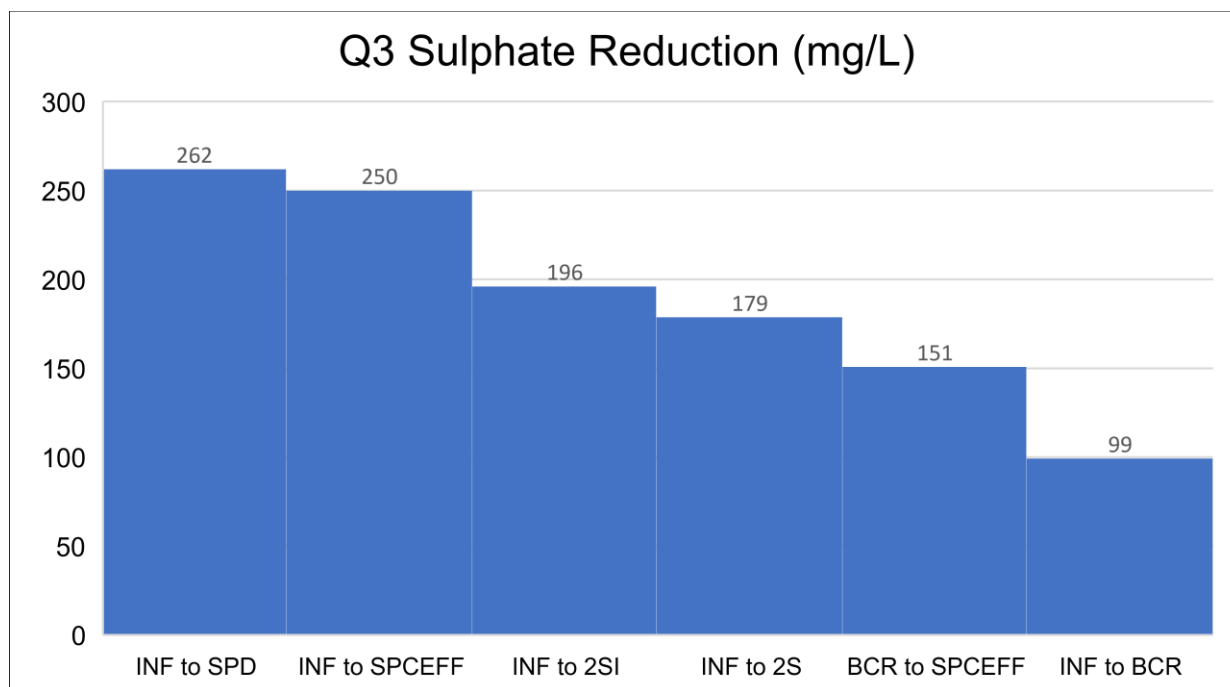


Figure 35: Sulphate Reduction through the Water Management System.

The PTS is effective at reducing sulphate and iron in mine water, maintaining water cover over the PAG-CCR in the 2-South pit and reducing discharge at the Seeps into Long Lake. This is accomplished by decreasing the elevation of the mine pool, below the elevation of the Seeps. The period of “no flow” at the Middle Seep into Long Lake (LLSM) has been observed to be extended by pumping down the mine pool.

Further monitoring of the PTS continues and includes the 2-South Mine pool at (QU11-11 / INF), 2-South and 3-South systems, groundwater wells (MW003, MW004 and MW005) and the Seeps. A relationship between the Seep flows and the elevation of the mine pool at the INF location continues to be developed with observations noted every quarter.

8.0 QUALITY ASSURANCE QUALITY CONTROL

All replicate sampling was performed in compliance with the *British Columbia Field Sampling Manual for Continuous Monitoring and the Collection of Air, Air Emission, Water, Wastewater, Soil, Sediment, and Biological Samples, 2013 Edition*.

As per these guidelines and in accordance with the Quinsam Coal Quality Assurance/Quality Control (QA/QC) program, one field replicate sample was collected per sampling event. Relative Percent Difference, RPD values were calculated in accordance with the B.C. field sampling manual, Appendix 1, Table 40 to 42).

9.0 CONCLUSION

The surface monitoring program at Quinsam Coal has been established to capture the effects of mine-related surface and underground disturbance areas (contact water) with the receiving environment. The comprehensive nature of this program allows Quinsam to generate water quality predictions, strategically manage surplus water generated because of mining activities and create management plans with a focus on mitigating potential receiving environment impacts.

The monitoring period during the fall flush in the receiving environment is meant to capture lake turnover events and increased flow rates on the rivers and streams. This period provides valuable information for water quality during higher flow periods. It is acknowledged that flow rates were low on the rivers during this period, but water quality remained below most applicable guidelines indicating excellent water quality in the receiving environment.

Long Lake remains stratified longer compared to Middle Quinsam Lake and as a result, it turns over slower. Fall sampling in October represented a period when Long Lake was beginning to turnover but was still slightly stratified. Stratification was observed by a broader range of temperature gradients between the epilimnion and hypolimnion, which slowly decreased throughout the program as well with increasing dissolved oxygen levels in the hypolimnion. Middle Quinsam Lake was unstratified and demonstrated a true representation for lake turnover.

As demonstrated by the Q3 monitoring program results, water quality in the Middle Quinsam Lake sub basin remains favorable with concentrations of dissolved copper, once again trending above WQG's both upstream and downstream of mine influence. Many parameters exhibit stable concentrations with some (e.g., sulphate) decreasing in concentration within the lakes. Quinsam is committed to limiting impacts placed on the environment through operational procedures. Quinsam strives to prevent adverse environmental impacts and is dedicated to internally investigating those parameters displaying an increasing trend.

In closing, we trust the information presented in this report satisfies the conditions under Effluent Permit PE-7008. Please contact the Quinsam Coal Environmental Department if you have any questions or comments.

Sincerely,

Quinsam Coal Environmental Department

Kathleen Russell B.Sc. EP

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Appendix 1 - Q3 Water Quality Report

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Appendix 1 - Tables

Table 1 Description of Effluent, In-Mine Releases Receiving Environment Monitoring Sites 1 Page(s)

Description of Effluent, In-Mine Releases & Receiving Environment Monitoring Sites			
EMS ID #	Monitoring Sites	Abbreviation (Station Code)	*Type of Water (MW, FW or GW)
North Coal Mining			
E207409	Settling Pond #4 Decant	WD	Discharge (MW)
E207411	Culvert, at Middle Quinsam Lake Road	WC	MW & FW
E283433	2-North Portal Sump (Adit Sump)	2NPS	MW
E207412	2-North Pit Sump CCR Cover	WP	PAG-CCR Water Cover - MW
South Coal Mine			
E218582	Settling Pond #1 Decant	SPD	Discharge (MW)
E217014	Culvert, Downstream End at Access Road	SPC	MW & FW
E217015	South Pit Main Sump Water	3S	PAG-CCR Water Cover (MW & FW)
E292127	2-South Pit In Pit Water Cover (2-South Standpipe)	2S	PAG-CCR Water Cover (MW & FW)
7-South Mining			
E292069	7-South Surface Decant	7SSD	Discharge (SW)
E292110	7-South Adit Sump	7SPS	MW
Seep Monitoring Sites			
E292131	Long Lake Seeps	LLS & LLSM	GW / MW
	Culvert that collects groundwater and Coal Main logging road water entering MQL (PDSR)	PDSR	GW / SW
	Possible Seepage Area by QU1109	S	GW/SW
	Possible Seepage Area by QU1105	S2	GW/SW
Receiving Environment Monitoring Sites - Near Initial Zone of Dilution (NIDZ)			
Near Initial Dilution Zone (NIDZ) Monitoring Sites			
E292130	Long Lake Entrance (South end water entering Long Lake near the outlet)	LLE	NIDZ
E292109	Road Crossing Bridge on Stream 1 above the Lower Wetland (Downstream of 7SSD).The site name is Stream 1, 7S.	7S	NIDZ
Receiving Water (Rivers & Lakes Monitoring Sites) 5 in 30 Monitoring Locations			
North Coal Mine Area			
E0126402	Quinsam River at Argonaut Bridge	WA	FW
E206618	Middle Quinsam Lake Centre	MQL (1, 4, 9 & 1m from Bottom)	FW
E0900504	Outflow from Middle Quinsam Lake	WB	FW
South Coal Mine Area			
E217018	No Name Lake	NNL (1, 4, 9 & 1m from Bottom)	FW
E217017	No Name Lake Outlet	NNO	FW
E206619	Long Lake at Centre	LLM (1, 4, 9 & 1m from Bottom)	FW
E219412	Long Lake Outlet	LLO	FW
7-South Mine Areas (1 to 4)			
E286930	Quinsam River Upstream of 7-South Mining Operation	QRDS1	FW
E292113	Quinsam River Downstream of 7-South Mining Operation	7SQR	FW
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
7-South Mine Area 5			
E297231	Iron River upstream of 7SA5 and 242 influence	IR6	FW
E297232	Iron River downstream of 7SA5 and 242 inputs	IR8	FW
E299256	Quinsam River downstream of confluence with Iron River	IRQR	FW
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
Long Lake Seep Passive Treatment System			
N/A	Groundwater well (2-South Mine Pool) influent to the Passive Treatment System (PTS)	QU11-11 (INF-EFF)	MW
N/A	Biochemical Reactor	BCR-EFF	MW
N/A	Sulphide Polishing Cell	SPC-EFF	MW
N/A	2-South Inflow (From Passive Treatment System)	2SI	MW
N/A	2-South Culvert into 3-South Pit (Seepage under liner and overflow from 2S-pit)	2SC	MW

* MW= Mine Water, FW= Freshwater, GW =Groundwater NIDZ = Near Initial Dilution Zone

Appendix 1 - Tables

Table 2 Summary of Permit Limit Exceedances, Permit Non-Compliances and Unauthorised Discharges 1 Page(s)

Summary of Permit Non-Compliances
There were no missed samples in Q3.
Section 3.10 - Bypasses - Effluent that is discharge without being processed through the authorised works are considered bypasses of authorised works. These occurred at S, S2A and LLS during Q3.

Appendix 1 - Tables

Table 3 Summary of Water Quality Guideline Observations at Monitoring Locations 1 Page(s)

Summary of Water Quality Guideline Observations at Receiving Environment Monitoring Locations Fall 2023 (excluding dissolved copper)										
Quarter 3 (October 1st through December 31st, 2023)										
EMS ID.	Station Name	Stn.Code	Date	mg/L As-T	mg/L B-T	mg/L Fe-D	mg/L Fe-T	mg/L Mn-T	mg/L SO4-D	mg/L Zn-D
B.C Water Quality Guideline (WQG) - Freshwater Aquatic Life		WQG-Chronic (A)		0.005	1.2			0.737	128	0.0075
		WQG-Acute (M)				0.35	1	0.8706		0.033
E206619	Long Lake Middle 1M From B	LLMB	23-10-2023					0.792		
			30-10-2023					0.774		
E292130	Culvert into Long Lake	LLE	03-10-2023						500	
			11-10-2023						430	
			16-10-2023						440	
			23-10-2023						420	
			30-10-2023						450	
			30-10-2023						450	
			06-11-2023						250	0.0099
			14-11-2023						140	
			27-11-2023						170	
			18-12-2023						140	
E292131	Seep into Long Lake	LLS	27-12-2023				1.77		480	
N/A	Potential Seepage (S)	S	04-10-2023	0.0585	1.67				150	
			02-11-2023	0.0549	1.25				130	
			05-12-2023	0.0247						
N/A	Seepage 2A (S2A)	S2A	04-10-2023	0.0558		0.414				
			07-11-2023	0.0203						
			05-12-2023	0.0108						
Notes: Highlighted Blue indicates result is above Acute - WQG Highlighted Green indicates result is above Chronic - WQG When comparing Chronic-WQG's results are normally averaged from 5 weekly samples collected over 30 days. LLE (except sulphate) and Seep samples are monthly individual results. For all Middle Quinsam Lake Sub-basin and Iron River results background hardness of 30 mg/L was used to calculate those parameters that are hardness dependent.										

Appendix 1 - Tables

Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guidelines 5 Page(s)

Average Results Above Freshwater Aquatic Life (FWAL), **Chronic** - Guidelines for Dissolved Copper - Fall 2023. Calculated from the Biotic Ligand Model (BLM)

Average of 5 Weeks Compared to the Chronic-WQG

Sample Name	Av 5 in 30 Copper Concentration (mg/L)	Av Chronic Guideline (mg/L)
LLMB	0.00028	0.0002
WA	0.00057	0.0002
WB	0.00041	0.0002
LLO	0.00035	0.0003
NNO	0.00048	0.0002
QRDS1	0.00043	0.0003
7SQR	0.00056	0.0002
IRQR	0.00066	0.0003
IR6	0.00086	0.0006
IR8	0.00089	0.0005

Highlighted red indicates the calculated GL is below 0.0002 mg/L, however, 0.0002 mg/L is considered to be the lowest concentration routinely measured and therefore replaces the calculated HC5 value for this water chemistry.

Highlighted green indicates the Averaged results are greater than the Chronic-WQG.

Appendix 1 - Tables

Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guidelines 5 Page(s)

Results Above FWAL Acute Guidelines for Dissolved Copper - Fall 2023. Calculated from the Biotic Ligand Model (BLM)				
Site	Sample No.	Copper Concentration (mg/L)	Acute Guideline (mg/L)	# of results above WQG
WA	WA-25OCT23-M	0.00059	0.0003	1 out of 5
7SQR	7SQR-25OCT23-M	0.00049	0.0004	1 out of 5
Highlighted Blue indicates the results are greater than the Acute-WQG.				

Appendix 1 - Tables

Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guidelines 5 Page(s)

Results Above FWAL Chronic Guidelines for Dissolved Copper, Fall 2023. Calculated from the Biotic Ligand Model (BLM)				
Site	Sample No.	Copper Concentration (mg/L)	Chronic Guideline (mg/L)	# of results above WQG
LLM9	LLM9-11OCT23-M	0.00029	0.0002	1 out of 5
LLMB	LLMB-4OCT23-M	0.00028	0.0002	4 out of 5
LLMB	LLMB-11OCT23-M	0.00027	0.0002	
LLMB	LLMB-23OCT23-M	0.00026	0.0002	
LLMB	LLMB-30OCT23-M	0.0003	0.0002	
MQL9	MQL9-4OCT23-M	0.00097	0.0007	1 out of 5
MQLB	MQLB-4OCT23-M	0.00054	0.0003	2 out of 5
MQLB	MQLB-11OCT23-M	0.00051	0.0004	
WA	WA-11OCT23-M	0.0005	0.0002	6 out of 6
WA	WA-11OCT23-R	0.0005	0.0002	
WA	WA-19OCT23-M	0.00066	0.0002	
WA	WA-25OCT23-M	0.00059	0.0002	
WA	WA-1NOV23-M	0.00052	0.0002	
WA	WA-7NOV23-M	0.0006	0.0002	
WB	WB-11OCT23-M	0.0004	0.0002	6 out of 6
WB	WB-19OCT23-M	0.00037	0.0002	
WB	WB-19OCT23-R	0.0004	0.0002	
WB	WB-25OCT23-M	0.00047	0.0003	
WB	WB-1NOV23-M	0.00041	0.0004	
WB	WB-7NOV23-M	0.00038	0.0002	
LLO	LLO-19OCT23-M	0.00032	0.0003	3 out of 5
LLO	LLO-7NOV23-M	0.00033	0.0003	
LLO	LLO-14NOV23-M	0.00051	0.0002	
Highlighted red indictaes the calculated GL is below 0.0002 mg/L, however, 0.0002 mg/L is considered to be the lowest concentration routinely measured and therefore replaces the calculated HC5 value for this water chemistry.				
Highlighted green indictaes the individual result is greater then the individual Chronic-WQG. These results are not averaged.				

Appendix 1 - Tables

Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guidelines 5 Page(s)

Results Above FWAL Chronic Guidelines for Dissolved Copper, Fall 2023. Calculated from the Biotic Ligand Model (BLM)				
Site	Sample No.	Copper Concentration (mg/L)	Chronic Guideline (mg/L)	# of results above WQG
NNO	NNO-19OCT23-M	0.00043	0.0002	6 out of 6
NNO	NNO-25OCT23-M	0.00043	0.0002	
NNO	NNO-1NOV23-M	0.00039	0.0002	
NNO	NNO-7NOV23-R	0.00049	0.0002	
NNO	NNO-7NOV23-M	0.00047	0.0002	
NNO	NNO-14NOV23-M	0.00066	0.0003	
QRDS1	QRDS1-11OCT23-M	0.00043	0.0004	5 out of 5
QRDS1	QRDS1-19OCT23-M	0.00046	0.0002	
QRDS1	QRDS1-25OCT23-M	0.00045	0.0003	
QRDS1	QRDS1-25OCT23-R	0.00043	0.0002	
QRDS1	QRDS1-1NOV23-M	0.00039	0.0002	
7SQR	7SQR-11OCT23-M	0.00043	0.0002	6 out of 6
7SQR	7SQR-19OCT23-M	0.00062	0.0002	
7SQR	7SQR-25OCT23-M	0.00049	0.0002	
7SQR	7SQR-1NOV23-M	0.00052	0.0002	
7SQR	7SQR-1NOV23-R	0.00041	0.0002	
7SQR	7SQR-7NOV23-M	0.00074	0.0003	
Highlighted red indictaes the calculated GL is below 0.0002 mg/L, however, 0.0002 mg/L is considered to be the lowest concentration routinely measured and therefore replaces the calculated HC5 value for this water chemistry.				
Highlighted green indictaes the individual result is greater then the individual Chronic-WQG. These results are not averaged.				

Appendix 1 - Tables

Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guidelines 5 Page(s)

Results Above FWAL Chronic Guidelines for Dissolved Copper, Fall 2023. Calculated from the Biotic Ligand Model (BLM)				
Site	Sample No.	Copper Concentration (mg/L)	Chronic Guideline (mg/L)	# of results above WQG
IRQR	IRQR-11OCT23-M	0.0006	0.0002	5 out of 5
IRQR	IRQR-19OCT23-M	0.00103	0.0003	
IRQR	IRQR-25OCT23-M	0.00061	0.0002	
IRQR	IRQR-1NOV23-M	0.00048	0.0003	
IRQR	IRQR-7NOV23-M	0.00058	0.0003	
IR6	IR6-11OCT23-M	0.00082	0.0006	
IR6	IR6-19OCT23-M	0.00118	0.0007	
IR6	IR6-25OCT23-M	0.00078	0.0003	
IR6	IR6-1NOV23-M	0.00061	0.0006	
IR6	IR6-7NOV23-M	0.00093	0.0005	
IR8	IR8-11OCT23-M	0.0009	0.0005	5 out of 5
IR8	IR8-19OCT23-M	0.0011	0.0007	
IR8	IR8-25OCT23-M	0.00084	0.0002	
IR8	IR8-1NOV23-M	0.00074	0.0004	
IR8	IR8-7NOV23-M	0.00086	0.0005	
Highlighted red indictaes the calculated GL is below 0.0002 mg/L, however, 0.0002 mg/L is considered to be the lowest concentration routinely measured and therefore replaces the calculated HC5 value for this water chemistry.				
Highlighted green indictaes the individual result is greater then the individual Chronic-WQG. These results are not averaged.				

Appendix 1 - Tables

Table 5 Contaminated Sites Regulations - Aquatic Life Standards 1 Page(s)

Q3 Groundwater (GW) and Flooded Mine Void Water (MW)							
CSR-AL							
Stn.Code	Date	Sample Class	SO4-D	H2SEquiv	As-D	Cl-D	Se-D
	CSR-AL		1280	0.02	0.05	1500	0.01
1M2N	27-11-2023	M		0.0680			
1M2N	13-12-2023	M		0.0659			
5M#2	24-10-2023	M		0.0276			
5M#2	23-11-2023	M		0.0223			
5M#2	13-12-2023	M		0.0330			
INF	18-12-2023	M		0.0266			
MW005	14-12-2023	M	1800				
MW006D	30-11-2023	M		0.149			
QU0516W	31-10-2023	M		0.457			
QU0516W	18-12-2023	M		0.446			
QU0813A	24-10-2023	M		0.234	0.400		
QU0813B	18-10-2023	M			0.555		
QU0821GD	16-10-2023	M		0.0755	0.187		
QU0821GS	16-10-2023	M		0.0595	0.187		
QU1010D	20-12-2023	M				3200	
QU1010S	20-12-2023	M		0.191	0.108		
QU1013D	23-11-2023	M		0.128			
QU1013D	23-11-2023	R		0.149			
QU1105D	08-11-2023	M		47.8			0.0387
QU1105S	08-11-2023	M		0.138			
QU1109M	02-11-2023	M		0.0553			
QU1109S	02-11-2023	M		0.627	0.0789		
7SA5	17-10-2023	M			0.180		
7SA5	14-11-2023	M			0.222		
7SA5	13-12-2023	M			0.207		
QU1410	18-10-2023	M	1900		0.105		
Notes: Only results that exceed standards are shown. Sample classes included in query: Regular Monitoring (M) and Replicate (R) Only results that exceed standards are shown. S indicates shallow GW and D indicates deep GW Station Type: Groundwater (GW) and Flooded Mine Void or contact water (MW)							

Appendix 1 - Tables

Table 6 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 1 Page(s)

EMS ID	E207409													
	Std Std PL-N													
Site Description	Settling Pond # 4 - Authorized Discharge Location for North Mine Water													
Site Name	WD Std Val													
Date		Max	03-10-2023	10-10-2023	23-10-2023	30-10-2023	06-11-2023	14-11-2023	20-11-2023	27-11-2023	05-12-2023	11-12-2023	18-12-2023	27-12-2023
Wlevel	m		0.027	0.052	0.056	0.06	0.61	0.148	0.11	0.104	0.087	0.169	0.175	0.444
pH-F	pH Units	6.00 - 8.50	7.51	7.57	7.39	7.24	7.87	7.38	7.45	7.51	7.51	7.38	7.23	7.38
Cond-F	uS/cm		1456	1805	1472	1403	1381	1494.3	1734	1704.1	1193.7	1700.5	16167	1477.9
SO4-D	mg/L		360	520	320	180	180	500	540	470	340	440	400	450
TSS	mg/L	25	1.6	1.6	1.2	<1.0	<1.0	1.2	1.2	<1.0	1.6	1.6	2.4	4.8
Alk-T	mg/L		430				520				360			
Acidity83	mg/L		9.5				<1.0				<1.0			
Al-T	mg/L						0.0074							
As-T	mg/L						0.00241							
Ba-T	mg/L						0.0228							
B-T	mg/L						0.827							
Cd-T	mg/L						<0.000010							
Ca-T	mg/L						64.2							
Cr-T	mg/L						<0.0010							
Co-T	mg/L						<0.00020							
Cu-T	mg/L						<0.00050							
Hard-T	mg/L						185							
Fe-T	mg/L						0.201							
Pb-T	mg/L						<0.00020							
Mg-T	mg/L						6.00							
Mn-T	mg/L						0.0550							
Mo-T	mg/L						<0.0010							
Ni-T	mg/L						<0.0010							
K-T	mg/L						2.42							
S-T	mg/L						56.9							
Se-T	mg/L						<0.00010							
Si-T	mg/L						3.34							
Ag-T	mg/L						<0.000020							
Na-T	mg/L						221							
Sr-T	mg/L						0.644							
Zn-T	mg/L						<0.0050							
Al-D	mg/L	0.5	<0.0030				0.0033				0.0063			
As-D	mg/L		0.00172				0.00219				0.00139			
Ba-D	mg/L		0.0223				0.0249				0.0203			
B-D	mg/L		0.895				0.824				0.828			
Be-D	mg/L		<0.00010				<0.00010				<0.00010			
Cd-D	mg/L		<0.000010				<0.000010				<0.000010			
Ca-D	mg/L		101				69.3				104			
Cr-D	mg/L		<0.0010				<0.0010				<0.0010			
Co-D	mg/L		<0.00020				<0.00020				0.00040			
Cu-D	mg/L	0.02	<0.00020				<0.00020				0.00023			
Hard-D	mg/L		308				199				310			
Fe-D	mg/L	0.3	0.0385				0.0368				0.0150			
Pb-D	mg/L	0.05	<0.00020				<0.00020				<0.00020			
Mg-D	mg/L		13.7				6.29				12.5			
Mn-D	mg/L		0.0129				0.0593				0.114			
Mo-D	mg/L		<0.0010				<0.0010				<0.0010			
Ni-D	mg/L		<0.0010				<0.0010				0.0012			
K-D	mg/L		3.15				2.52				3.02			
S-D	mg/L		138				61.1				137			
Se-D	mg/L		<0.00010				<0.00010				<0.00010			
Si-D	mg/L		4.66				3.75				3.38			
Na-D	mg/L		258				231				228			
Sr-D	mg/L		1.05				0.675				0.964			
Zn-D	mg/L	0.1	<0.0050				<0.0050				<0.0050			
O&G	mg/L	10	<1.0								<1.0			

Appendix 1 - Tables

Table 7 2 North Pit Sump CCR Water Cover 1 Page(s)

EMS ID		E207412		
Site Description		2 North Pit Sump CCR Water Cover		
Site Name		WP		
Date		03-10-2023	06-11-2023	05-12-2023
pH-F	pH Units	7.77	7.75	7.48
Cond-F	uS/cm	1764	1484	1180.2
SO4-D	mg/L	670	690	440
TSS	mg/L	1.6	2.8	1.6
Alk-T	mg/L	260	240	140
Acidity83	mg/L	<1.0	14.8	1.1
Al-T	mg/L	0.0044	0.0571	0.0496
As-T	mg/L	0.00042	0.00036	0.00066
Ba-T	mg/L	0.0113	0.0120	0.0126
B-T	mg/L	0.821	0.671	0.482
Cd-T	mg/L	<0.000010	0.000056	0.000069
Ca-T	mg/L	130	156	146
Cr-T	mg/L	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	0.00625	0.00909
Cu-T	mg/L	<0.00050	0.00288	0.00250
Hard-T	mg/L	414	482	444
Fe-T	mg/L	0.017	0.146	0.293
Pb-T	mg/L	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	21.9	22.2	19.6
Mn-T	mg/L	0.0035	0.203	0.273
Mo-T	mg/L	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	0.0107	0.0141
K-T	mg/L	3.68	2.83	1.96
S-T	mg/L	254	231	167
Se-T	mg/L	<0.00010	0.00014	0.00016
Si-T	mg/L	3.01	2.86	2.87
Ag-T	mg/L	<0.000020	<0.000020	<0.000020
Na-T	mg/L	247	163	102
Sr-T	mg/L	1.36	1.21	0.842
Zn-T	mg/L	<0.0050	0.0151	0.0188
Al-D	mg/L	<0.0030	0.0252	0.0099
As-D	mg/L	0.00042	0.00033	0.00044
Ba-D	mg/L	0.0116	0.0125	0.0126
B-D	mg/L	0.890	0.710	0.510
Be-D	mg/L	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	0.000037	0.000064
Ca-D	mg/L	132	163	132
Cr-D	mg/L	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00020	0.00422	0.00815
Cu-D	mg/L	<0.00020	0.00142	0.00156
Hard-D	mg/L	422	503	408
Fe-D	mg/L	<0.0050	0.0142	0.0107
Pb-D	mg/L	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	22.5	23.2	18.9
Mn-D	mg/L	<0.0010	0.137	0.264
Mo-D	mg/L	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	0.0078	0.0133
K-D	mg/L	3.73	3.25	1.91
S-D	mg/L	264	252	163
Se-D	mg/L	<0.00010	0.00010	0.00017
Si-D	mg/L	3.07	3.10	2.76
Na-D	mg/L	248	200	99.0
Sr-D	mg/L	1.41	1.29	0.873
Zn-D	mg/L	<0.0050	0.0102	0.0161

Appendix 1 - Tables

Table 8 2-North Portal Sump Effluent 1 Page(s)

EMS ID		E283433		
Site Description		2-North Portal Sump Effluent		
Site Name		2NPS		
Date		03-10-2023	06-11-2023	05-12-2023
pH-F	pH Units	7.18	7.47	7.09
Cond-F	uS/cm	1888	2160	422.8
SO4-D	mg/L	550	790	180
Alk-T	mg/L	320	310	45
Acidity83	mg/L	4.9	23.5	1.1
Al-T	mg/L	0.0385	0.0568	1.22
As-T	mg/L	0.00063	0.00044	0.00141
Ba-T	mg/L	0.0117	0.0122	0.0118
B-T	mg/L	0.823	0.861	0.151
Cd-T	mg/L	<0.000010	0.000011	0.000023
Ca-T	mg/L	199	215	63.2
Cr-T	mg/L	<0.0010	<0.0010	0.0023
Co-T	mg/L	0.00117	0.00114	0.00275
Cu-T	mg/L	0.00091	0.00088	0.00790
Hard-T	mg/L	590	636	182
Fe-T	mg/L	0.227	0.155	1.33
Pb-T	mg/L	<0.00020	<0.00020	0.00024
Mg-T	mg/L	22.9	24.0	5.84
Mn-T	mg/L	0.126	0.129	0.0835
Mo-T	mg/L	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0028	0.0038	0.0054
K-T	mg/L	3.46	3.51	0.831
S-T	mg/L	280	279	55.9
Se-T	mg/L	<0.00010	<0.00010	0.00014
Si-T	mg/L	3.08	3.15	2.58
Ag-T	mg/L	<0.000020	<0.000020	<0.000020
Na-T	mg/L	213	205	17.5
Sr-T	mg/L	1.52	1.63	0.235
Zn-T	mg/L	<0.0050	0.0061	0.0078
Al-D	mg/L	0.0132	0.0155	0.0093
As-D	mg/L	0.00042	0.00026	<0.00010
Ba-D	mg/L	0.0121	0.0127	0.0105
B-D	mg/L	0.878	0.82	0.224
Be-D	mg/L	<0.00010	<0.00020	<0.00010
Cd-D	mg/L	<0.000010	<0.000020	0.000015
Ca-D	mg/L	203	230	63.2
Cr-D	mg/L	<0.0010	<0.0020	<0.0010
Co-D	mg/L	0.00118	0.00117	0.00142
Cu-D	mg/L	0.00047	<0.00040	0.00068
Hard-D	mg/L	603	682	183
Fe-D	mg/L	0.0084	0.021	<0.0050
Pb-D	mg/L	<0.00020	<0.00040	<0.00020
Mg-D	mg/L	23.6	26.4	6.08
Mn-D	mg/L	0.133	0.134	0.0649
Mo-D	mg/L	<0.0010	<0.0020	<0.0010
Ni-D	mg/L	0.0029	0.0041	0.0037
K-D	mg/L	3.55	3.64	0.880
S-D	mg/L	280	293	62.9
Se-D	mg/L	<0.00010	<0.00020	0.00015
Si-D	mg/L	3.12	3.44	1.15
Na-D	mg/L	218	222	20.7
Sr-D	mg/L	1.56	1.62	0.277
Zn-D	mg/L	<0.0050	<0.010	<0.0050

Appendix 1 - Tables

Table 9 Road Side Ditch Draining into MQL 1 Page(s)

EMS ID				
Site Description		Road Side Ditch Draining into MQL		
Site Name		PDSR		
Date		14-11-2023		05-12-2023
pH-F	pH Units	7.4		7.43
Cond-F	uS/cm	1002.2		884.8
SO4-D	mg/L	430		340
TSS	mg/L	<1.0		<1.0
Al-T	mg/L	0.0109		0.0184
As-T	mg/L	<0.00010		<0.00010
Ba-T	mg/L	0.0138		0.0115
B-T	mg/L	0.161		0.162
Cd-T	mg/L	<0.000010		<0.000010
Ca-T	mg/L	134		136
Cr-T	mg/L	<0.0010		<0.0010
Co-T	mg/L	<0.00020		<0.00020
Cu-T	mg/L	<0.00050		<0.00050
Hard-T	mg/L	432		434
Fe-T	mg/L	<0.010		<0.010
Pb-T	mg/L	<0.00020		<0.00020
Mg-T	mg/L	23.4		23.2
Mn-T	mg/L	<0.0010		<0.0010
Mo-T	mg/L	<0.0010		<0.0010
Ni-T	mg/L	<0.0010		<0.0010
K-T	mg/L	0.933		0.904
S-T	mg/L	137		121
Se-T	mg/L	<0.00010		<0.00010
Si-T	mg/L	3.13		3.55
Ag-T	mg/L	<0.000020		<0.000020
Na-T	mg/L	34.4		33.3
Sr-T	mg/L	0.820		0.711
Zn-T	mg/L	<0.0050		<0.0050
Al-D	mg/L	0.0117		0.0127
As-D	mg/L	0.00011		<0.00010
Ba-D	mg/L	0.0162		0.0115
B-D	mg/L	0.197		0.170
Be-D	mg/L	<0.00010		<0.00010
Cd-D	mg/L	0.000012		<0.000010
Ca-D	mg/L	165		121
Cr-D	mg/L	<0.0010		<0.0010
Co-D	mg/L	<0.00020		<0.00020
Cu-D	mg/L	0.00107		0.00044
Hard-D	mg/L	530		396
Fe-D	mg/L	<0.0050		<0.0050
Pb-D	mg/L	<0.00020		<0.00020
Mg-D	mg/L	28.8		22.5
Mn-D	mg/L	<0.0010		<0.0010
Mo-D	mg/L	<0.0010		<0.0010
Ni-D	mg/L	<0.0010		<0.0010
K-D	mg/L	1.14		0.919
S-D	mg/L	166		127
Se-D	mg/L	<0.00010		<0.00010
Si-D	mg/L	3.71		3.43
Na-D	mg/L	41.6		31.7
Sr-D	mg/L	1.01		0.740
Zn-D	mg/L	<0.0050		<0.0050

Appendix 1 - Tables

Table 10 Culvert at Middle Quinsam Lake Road 1 Page(s)

EMS ID		E207411		
Site Description		Culvert at Middle Quinsam Lake Road		
Site Name		WC		
Date		03-10-2023	06-11-2023	05-12-2023
pH-F	pH Units	7.98	8.49	8.07
Cond-F	uS/cm	1141	1260	1071.2
SO4-D	mg/L	190	170	260
TSS	mg/L	<1.0	2.8	1.2
Al-T	mg/L		0.0071	
As-T	mg/L		0.00060	
Ba-T	mg/L		0.0095	
B-T	mg/L		0.767	
Cd-T	mg/L		<0.000010	
Ca-T	mg/L		49.3	
Cr-T	mg/L		<0.0010	
Co-T	mg/L		<0.00020	
Cu-T	mg/L		<0.00050	
Hard-T	mg/L		150	
Fe-T	mg/L		0.030	
Pb-T	mg/L		<0.00020	
Mg-T	mg/L		6.41	
Mn-T	mg/L		0.0050	
Mo-T	mg/L		<0.0010	
Ni-T	mg/L		<0.0010	
K-T	mg/L		2.32	
S-T	mg/L		60.8	
Se-T	mg/L		<0.00010	
Si-T	mg/L		3.52	
Ag-T	mg/L		<0.000020	
Na-T	mg/L		205	
Sr-T	mg/L		0.584	
Zn-T	mg/L		<0.0050	
Al-D	mg/L		0.0085	
As-D	mg/L		0.00058	
Ba-D	mg/L		0.0102	
B-D	mg/L		0.732	
Be-D	mg/L		<0.00010	
Cd-D	mg/L		<0.000010	
Ca-D	mg/L		52.3	
Cr-D	mg/L		<0.0010	
Co-D	mg/L		<0.00020	
Cu-D	mg/L		0.00028	
Hard-D	mg/L		158	
Fe-D	mg/L		0.0261	
Pb-D	mg/L		<0.00020	
Mg-D	mg/L		6.59	
Mn-D	mg/L		0.0051	
Mo-D	mg/L		<0.0010	
Ni-D	mg/L		<0.0010	
K-D	mg/L		2.37	
S-D	mg/L		63.1	
Se-D	mg/L		<0.00010	
Si-D	mg/L		3.88	
Na-D	mg/L		210	
Sr-D	mg/L		0.577	
Zn-D	mg/L		<0.0050	

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 1 Page(s)

EMS ID	E218582	Stn Std	Stn Std	PL-S												
Site Description	Settling Pond #1 - Authorized Discharge Location for South Mine Water															
Date		Max	03-10-2023	10-10-2023	16-10-2023	23-10-2023	30-10-2023	06-11-2023	14-11-2023	20-11-2023	27-11-2023	05-12-2023	11-12-2023	18-12-2023	27-12-2023	27-12-2023
Wlevel	m		0.05	0.01	0.02	0.01	-0.1	0.06	0.83	0.025	0.02	0.106	0.038	0.07	0.12	0.12
pH-F	pH Units	8.5	7.21	7.59	7.29	7.56	7.31	7.35	6.75	6.91	6.85	6.74	6.6	6.96	7.06	7.06
Cond-F	uS/cm		1267	1306	1281	1239	1189	1121	310.3	471.2	639.8	410.2	289.6	513.3	424.5	424.5
SO4-D	mg/L		570	550	510	530	500	430	220	190	350	120	93	240	160	160
TSS	mg/L	25	1.6	1.6	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	2.0	<1.0	1.6
Alk-T	mg/L		120					110				47				
Acidity83	mg/L		4.4					<1.0				1.1				
Al-T	mg/L							0.0200								
As-T	mg/L							0.00159								
Ba-T	mg/L							0.0139								
B-T	mg/L							0.354								
Cd-T	mg/L							<0.000010								
Ca-T	mg/L							141								
Cr-T	mg/L							<0.0010								
Co-T	mg/L							<0.00020								
Cu-T	mg/L							<0.00050								
Hard-T	mg/L							426								
Fe-T	mg/L							0.226								
Pb-T	mg/L							<0.00020								
Mg-T	mg/L							17.6								
Mn-T	mg/L							0.0438								
Mo-T	mg/L							<0.0010								
Ni-T	mg/L							<0.0010								
K-T	mg/L							1.79								
S-T	mg/L							155								
Se-T	mg/L							<0.00010								
Si-T	mg/L							2.75								
Ag-T	mg/L							<0.000020								
Na-T	mg/L							54.5								
Sr-T	mg/L							1.07								
Zn-T	mg/L							<0.0050								
Al-D	mg/L	0.5	<0.0030					0.0117				0.0632				
As-D	mg/L		0.00138					0.00125				0.00129				
Ba-D	mg/L		0.0174					0.0142				0.0070				
B-D	mg/L		0.470					0.329				0.168				
Be-D	mg/L		<0.00010					<0.00010				<0.00010				
Cd-D	mg/L		<0.000010					<0.000010				<0.000010				
Ca-D	mg/L		191					155				66.7				
Cr-D	mg/L		<0.0010					<0.0010				<0.0010				
Co-D	mg/L		<0.00020					<0.00020				<0.00020				
Cu-D	mg/L	0.02	<0.00020					<0.00020				0.00080				
Hard-D	mg/L		575					461				201				
Fe-D	mg/L	0.5	0.0605					0.0613				0.140				
Pb-D	mg/L	0.05	<0.00020					<0.00020				<0.00020				
Mg-D	mg/L		23.9					18.0				8.41				
Mn-D	mg/L		0.0141					0.0426				0.0340				
Mo-D	mg/L		<0.0010					<0.0010				<0.0010				
Ni-D	mg/L		<0.0010					<0.0010				<0.0010				
K-D	mg/L		2.31					1.84				0.803				
S-D	mg/L		225					161				61.9				
Se-D	mg/L		<0.00010					<0.00010				<0.00010				
Si-D	mg/L		3.11					3.14				3.36				
Na-D	mg/L		64.6					55.9				18.8				
Sr-D	mg/L		1.42					1.05				0.428				
Zn-D	mg/L	0.2	<0.0050					<0.0050				<0.0050				
O&G	mg/L	10	<1.0									<1.0				

Appendix 1 - Tables

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 1 Page(s)

Site Description		Passive Treatment System (PTS) Influent from 2-S Mine Pool																
Site Name		INF																
Date		03-10-2023	10-10-2023	16-10-2023	23-10-2023	30-10-2023	06-11-2023	06-11-2023	14-11-2023	20-11-2023	20-11-2023	27-11-2023	05-12-2023	11-12-2023	18-12-2023	18-12-2023	27-12-2023	
Flow	m ³ /s	0.0063	0.0002	0.0061	0.0061		0.0037	0.0037	0.0064	0.0036	0.0036	0.0063	0.0063	0.0065		0.0064	0.0067	
pH-F	pH Units	6.8	6.99	6.95	6.93	6.87	7	7	6.71	6.9	6.9	6.94	6.94	6.9	6.84	6.84	6.7	
Cond-F	uS/cm	1477	1493	1494	1446	1465	1623	1623	1439	1402	1402	1487.5	1645.3	1571.4	1502.2	1502.2	1445.6	
H2S	mg/L	0.0032	0.0090	0.0027	0.0041	0.012	0.0032	0.0037	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0022			
SO4-D	mg/L	560	550	570	580	550	560	560	590	610	600	640	680	650	670	670	650	
TSS	mg/L						6.4	7.2					7.6					
Turb	NTU	37																
Alk-T	mg/L	260					260	260					240					
Acidity83	mg/L	12.0					19.6	35.2					8.7					
Al-T	mg/L	<0.0030					0.0449	<0.0030					<0.0060					
As-T	mg/L	0.00429					0.00380	0.00389					0.00488					
Ba-T	mg/L	0.0177					0.0171	0.0174					0.0210					
B-T	mg/L	0.711					0.714	0.723					0.81					
Cd-T	mg/L	<0.000010					<0.000010	<0.000010					<0.000020					
Ca-T	mg/L	210					203	209					280					
Cr-T	mg/L	<0.0010					<0.0010	<0.0010					<0.0020					
Co-T	mg/L	0.00036					0.00041	0.00040					0.00051					
Cu-T	mg/L	<0.00050					<0.00050	<0.00050					<0.0010					
Hard-T	mg/L	588					568	581					786					
Fe-T	mg/L	2.93					2.82	2.86					3.80					
Pb-T	mg/L	<0.00020					<0.00020	<0.00020					<0.00040					
Mg-T	mg/L	15.5					14.6	14.7					21.2					
Mn-T	mg/L	0.311					0.329	0.333					0.419					
Mo-T	mg/L	<0.0010					<0.0010	<0.0010					<0.0020					
Ni-T	mg/L	<0.0010					<0.0010	<0.0010					<0.0020					
K-T	mg/L	1.88					1.82	1.86					2.14					
S-T	mg/L	210					195	195					242					
Se-T	mg/L	<0.00010					<0.00010	<0.00010					<0.00020					
Si-T	mg/L	3.06					2.96	3.01					3.37					
Ag-T	mg/L	<0.000020					<0.000020	<0.000020					<0.000040					
Na-T	mg/L	102					100	101					111					
Sr-T	mg/L	2.01					1.91	1.94					2.32					
Zn-T	mg/L	<0.0050					<0.0050	<0.0050					<0.010					
Al-D	mg/L	<0.0030					<0.0060	<0.0060					<0.0060					
As-D	mg/L	0.00437					0.00402	0.00400					0.00492					
Ba-D	mg/L	0.0184					0.0183	0.0184					0.0213					
B-D	mg/L	0.731					0.70	0.69					0.79					
Be-D	mg/L	<0.00010					<0.00020	<0.00020					<0.00020					
Cd-D	mg/L	<0.000010					<0.000020	<0.000020					<0.000020					
Ca-D	mg/L	220					225	219					263					
Cr-D	mg/L	<0.0010					<0.0020	<0.0020					<0.0020					
Co-D	mg/L	0.00039					0.00048	0.00046					0.00049					
Cu-D	mg/L	<0.00020					<0.00040	<0.00040					<0.00040					
Hard-D	mg/L	616					627	611					740					
Fe-D	mg/L	3.08					3.12	3.04					3.64					
Pb-D	mg/L	<0.00020					<0.00040	<0.00040					<0.00040					
Mg-D	mg/L	16.1					15.9	15.8					19.9					
Mn-D	mg/L	0.328					0.345	0.344					0.445					
Mo-D	mg/L	<0.0010					<0.0020	<0.0020					<0.0020					
Ni-D	mg/L	<0.0010					<0.0020	<0.0020					<0.0020					
K-D	mg/L	1.96					1.95	1.92					2.20					
S-D	mg/L	222					205	202					250					
Se-D	mg/L	<0.00010					<0.00020	<0.00020					0.00021					
Si-D	mg/L	3.19					3.31	3.25					3.39					
Na-D	mg/L	108					107	106					106					
Sr-D	mg/L	2.12					1.96	1.99					2.45					
Zn-D	mg/L	<0.0050					<0.010	<0.010					<0.010					

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Table 13 PTS Biochemical Reactor Cell 1 Page(s)

Passive Treatment System Biochemical Reactor Cell													
Site Description		BCR											
Site Name		BCR											
Date		03-10-2023	10-10-2023	16-10-2023	23-10-2023	30-10-2023	06-11-2023	14-11-2023	20-11-2023	27-11-2023	27-11-2023	11-12-2023	27-12-2023
pH-F	pH Units	6.84	6.92	6.94	6.95	6.83	7.49	6.91	6.87	6.94	6.94	6.82	6.88
Cond-F	uS/cm	1410	1426	1451	1389	1383	1500	1334.9	1287.5	1348.4	1348.4	1482.3	1439.3
H2S	mg/L	12	25	23	16	15	30	20	22	17	16	16	4.8
SO4-D	mg/L	490	480	480	510	500	470	480	460	500	490	550	590
TSS	mg/L						1.2						
Turb	NTU	24											
Alk-T	mg/L	290					260						
Acidity83	mg/L	17.2					27.2						
Al-T	mg/L	0.0058					0.0103						
As-T	mg/L	<0.00010					<0.00010						
Ba-T	mg/L	0.0236					0.0203						
B-T	mg/L	0.605					0.568						
Cd-T	mg/L	<0.000010					<0.000010						
Ca-T	mg/L	200					187						
Cr-T	mg/L	<0.0010					<0.0010						
Co-T	mg/L	<0.00020					<0.00020						
Cu-T	mg/L	<0.00050					<0.00050						
Hard-T	mg/L	563					525						
Fe-T	mg/L	<0.010					0.012						
Pb-T	mg/L	<0.00020					<0.00020						
Mg-T	mg/L	15.8					13.9						
Mn-T	mg/L	0.128					0.120						
Mo-T	mg/L	<0.0010					<0.0010						
Ni-T	mg/L	<0.0010					<0.0010						
K-T	mg/L	1.84					1.61						
S-T	mg/L	179					170						
Se-T	mg/L	<0.00010					<0.00010						
Si-T	mg/L	3.33					3.01						
Ag-T	mg/L	<0.000020					<0.000020						
Na-T	mg/L	99.6					96.0						
Sr-T	mg/L	1.98					1.75						
Zn-T	mg/L	<0.0050					0.0204						
Al-D	mg/L	0.0071					0.0122						
As-D	mg/L	0.00013					<0.00010						
Ba-D	mg/L	0.0233					0.0216						
B-D	mg/L	0.612					0.557						
Be-D	mg/L	<0.00010					<0.00010						
Cd-D	mg/L	<0.000010					<0.000010						
Ca-D	mg/L	205					204						
Cr-D	mg/L	<0.0010					<0.0010						
Co-D	mg/L	<0.00020					<0.00020						
Cu-D	mg/L	<0.00020					<0.00020						
Hard-D	mg/L	576					573						
Fe-D	mg/L	<0.0050					0.0141						
Pb-D	mg/L	<0.00020					<0.00020						
Mg-D	mg/L	15.7					15.4						
Mn-D	mg/L	0.133					0.133						
Mo-D	mg/L	<0.0010					<0.0010						
Ni-D	mg/L	<0.0010					<0.0010						
K-D	mg/L	1.78					1.70						
S-D	mg/L	258					188						
Se-D	mg/L	0.00091					0.00688						
Si-D	mg/L	3.24					3.37						
Na-D	mg/L	105					103						
Sr-D	mg/L	1.95					1.80						
Zn-D	mg/L	<0.0050					<0.0050						

Appendix 1 - Tables

Table 14 PTS Sulphide Polishing Cell 1 Page(s)

Passive Treatment System Sulphide Polishing Cell														
Site Name		SPCEFF												
Date		03-10-2023	10-10-2023	16-10-2023	16-10-2023	30-10-2023	06-11-2023	14-11-2023	20-11-2023	27-11-2023	05-12-2023	11-12-2023	18-12-2023	27-12-2023
pH-F	pH Units	7.29	7.42	7.43	7.43	7.31	7.49	7.17	7.21	7.2	7.25	7.03	7.34	7.53
Cond-F	uS/cm	1204	1215	1165	1165	1240	1250	1287.7	1238.5	1327	1276.9	1336.5	1113.1	898.3
H2S	mg/L	<0.0020	0.010	0.0022	<0.0020	0.018	0.0051	3.2	0.035	0.30	0.037	0.10	0.017	0.019
SO4-D	mg/L	320	300	290	290	320	290	440	420	420	410	390	360	300
TSS	mg/L						1.2				3.2			
Turb	NTU	2.9												
Alk-T	mg/L	360					340				290			
Acidity83	mg/L	8.9					8.1				3.1			
Al-T	mg/L	0.0106					0.0532				0.0158			
As-T	mg/L	0.00130					0.00119				0.00152			
Ba-T	mg/L	0.0140					0.0150				0.0357			
B-T	mg/L	0.666					0.590				0.625			
Cd-T	mg/L	<0.000010					<0.000010				<0.000010			
Ca-T	mg/L	152					156				207			
Cr-T	mg/L	<0.0010					<0.0010				<0.0010			
Co-T	mg/L	<0.00020					0.00024				<0.00020			
Cu-T	mg/L	0.00357					0.00389				0.00332			
Hard-T	mg/L	435					442				582			
Fe-T	mg/L	0.385					0.403				0.513			
Pb-T	mg/L	<0.00020					<0.00020				<0.00020			
Mg-T	mg/L	13.7					12.8				15.6			
Mn-T	mg/L	0.0180					0.0422				0.117			
Mo-T	mg/L	<0.0010					<0.0010				<0.0010			
Ni-T	mg/L	<0.0010					<0.0010				<0.0010			
K-T	mg/L	1.70					1.77				1.82			
S-T	mg/L	109					108				159			
Se-T	mg/L	<0.00010					<0.00010				<0.00010			
Si-T	mg/L	2.41					2.72				3.58			
Ag-T	mg/L	<0.000020					<0.000020				<0.000020			
Na-T	mg/L	96.4					89.6				103			
Sr-T	mg/L	1.72					1.62				1.81			
Zn-T	mg/L	<0.0050					<0.0050				<0.0050			
Al-D	mg/L	0.0059					0.0236				0.0041			
As-D	mg/L	0.00113					0.00091				0.00129			
Ba-D	mg/L	0.0144					0.0156				0.0343			
B-D	mg/L	0.698					0.531				0.597			
Be-D	mg/L	<0.00010					<0.00010				<0.00010			
Cd-D	mg/L	0.000013					<0.000010				<0.000010			
Ca-D	mg/L	162					162				182			
Cr-D	mg/L	<0.0010					<0.0010				<0.0010			
Co-D	mg/L	<0.00020					0.00024				<0.00020			
Cu-D	mg/L	0.00155					0.00072				<0.00020			
Hard-D	mg/L	466					460				511			
Fe-D	mg/L	0.210					0.125				0.0855			
Pb-D	mg/L	<0.00020					<0.00020				<0.00020			
Mg-D	mg/L	15.0					13.3				13.9			
Mn-D	mg/L	0.0191					0.0442				0.114			
Mo-D	mg/L	<0.0010					<0.0010				<0.0010			
Ni-D	mg/L	<0.0010					<0.0010				<0.0010			
K-D	mg/L	1.82					1.77				1.69			
S-D	mg/L	118					111				151			
Se-D	mg/L	<0.00010					<0.00010				0.00037			
Si-D	mg/L	2.61					2.92				3.43			
Na-D	mg/L	104					90.4				91.3			
Sr-D	mg/L	1.84					1.62				1.79			
Zn-D	mg/L	<0.0050					<0.0050				<0.0050			

Appendix 1 - Tables

Table 15 2 South Pit Inflow 1 Page(s)

Site Description		2 South Pit Inflow												
Site Name		2SI												
Date		03-10-2023	10-10-2023	16-10-2023	23-10-2023	30-10-2023	06-11-2023	14-11-2023	14-11-2023	20-11-2023	27-11-2023	05-12-2023	11-12-2023	18-12-2023
pH-F	pH Units	7.4	7.65	7.6	7.51	7.4	7.26	6.95	6.95	7.28	7.45	7.2	7.33	7.29
Cond-F	uS/cm	1408	1408	1334	1394	1391	1105	716.2	716.2	985.3	1249.3	723.9	1109.6	848.8
H2S	mg/L	0.051	0.023	0.044	0.024	0.012	0.0071	<0.0020	<0.0020	<0.0020	<0.0020	0.012	0.0072	0.0032
SO4-D	mg/L	520	500	460	550	520	370	290	290	370	490	250	420	330
TSS	mg/L						2.0					1.2		
Turb	NTU	1.5												
Alk-T	mg/L	250					140					83		
Acidity83	mg/L	1.9					7.6					1.7		
Al-T	mg/L	0.0043					0.0167					0.0328		
As-T	mg/L	0.00040					0.00026					0.00017		
Ba-T	mg/L	0.0240					0.0200					0.0142		
B-T	mg/L	0.566					0.360					0.219		
Cd-T	mg/L	<0.000010					<0.000010					<0.000010		
Ca-T	mg/L	184					139					105		
Cr-T	mg/L	<0.0010					<0.0010					<0.0010		
Co-T	mg/L	<0.00020					0.00045					0.00028		
Cu-T	mg/L	<0.00050					<0.00050					<0.00050		
Hard-T	mg/L	519					400					306		
Fe-T	mg/L	0.148					0.188					0.157		
Pb-T	mg/L	<0.00020					<0.00020					<0.00020		
Mg-T	mg/L	14.7					13.0					10.6		
Mn-T	mg/L	0.0949					0.119					0.0848		
Mo-T	mg/L	<0.0010					<0.0010					<0.0010		
Ni-T	mg/L	<0.0010					0.0020					0.0010		
K-T	mg/L	1.70					1.12					0.742		
S-T	mg/L	176					134					91.6		
Se-T	mg/L	<0.00010					<0.00010					<0.00010		
Si-T	mg/L	3.28					4.08					3.99		
Ag-T	mg/L	<0.000020					<0.000020					<0.000020		
Na-T	mg/L	94.7					55.6					32.8		
Sr-T	mg/L	1.74					1.10					0.706		
Zn-T	mg/L	<0.0050					<0.0050					<0.0050		
Al-D	mg/L	0.0042					0.0149					0.0203		
As-D	mg/L	0.00043					0.00021					0.00016		
Ba-D	mg/L	0.0261					0.0207					0.0137		
B-D	mg/L	0.640					0.334					0.224		
Be-D	mg/L	<0.00010					<0.00010					<0.00010		
Cd-D	mg/L	<0.000010					<0.000010					<0.000010		
Ca-D	mg/L	201					149					96.7		
Cr-D	mg/L	<0.0010					<0.0010					<0.0010		
Co-D	mg/L	<0.00020					0.00042					0.00038		
Cu-D	mg/L	<0.00020					0.00037					0.00052		
Hard-D	mg/L	572					428					284		
Fe-D	mg/L	0.0763					0.146					0.0935		
Pb-D	mg/L	<0.00020					<0.00020					<0.00020		
Mg-D	mg/L	16.7					13.9					10.3		
Mn-D	mg/L	0.104					0.121					0.0775		
Mo-D	mg/L	<0.0010					<0.0010					<0.0010		
Ni-D	mg/L	<0.0010					0.0017					0.0017		
K-D	mg/L	1.80					1.24					0.763		
S-D	mg/L	209					140					89.7		
Se-D	mg/L	<0.00010					<0.00010					<0.00010		
Si-D	mg/L	3.65					4.36					4.11		
Na-D	mg/L	102					60.5					29.4		
Sr-D	mg/L	1.91					1.16					0.714		
Zn-D	mg/L	<0.0050					<0.0050					<0.0050		

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Table 16 2-South Pit in Pit Water Cover Over PAG-CCR 1 Page(s)

EMS ID	E292127			
Site Description	2-South Pit in Pit Water Cover Over PAG-CCR			
Site Name	2S			
Date		03-10-2023	06-11-2023	05-12-2023
pH-F	pH Units	7.67	7.91	7.77
Cond-F	uS/cm	1278	1300	906.1
SO4-D	mg/L	530	430	320
Alk-T	mg/L	150	170	120
Acidity83	mg/L	<1.0	1.2	<1.0
Al-T	mg/L	0.0037	0.0100	0.0357
As-T	mg/L	0.00029	0.00024	0.00017
Ba-T	mg/L	0.0182	0.0201	0.0158
B-T	mg/L	0.580	0.553	0.339
Cd-T	mg/L	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	160	166	137
Cr-T	mg/L	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	464	471	392
Fe-T	mg/L	0.023	0.037	0.077
Pb-T	mg/L	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	15.7	13.7	12.3
Mn-T	mg/L	0.0035	0.0159	0.0384
Mo-T	mg/L	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010
K-T	mg/L	1.76	1.69	1.08
S-T	mg/L	188	158	117
Se-T	mg/L	<0.00010	<0.00010	<0.00010
Si-T	mg/L	2.66	3.26	3.68
Ag-T	mg/L	<0.000020	<0.000020	<0.000020
Na-T	mg/L	99.4	82.8	53.6
Sr-T	mg/L	1.77	1.52	1.02
Zn-T	mg/L	<0.0050	<0.0050	<0.0050
Al-D	mg/L	<0.0030	0.0074	0.0064
As-D	mg/L	0.00030	0.00020	0.00015
Ba-D	mg/L	0.0194	0.0204	0.0157
B-D	mg/L	0.659	0.476	0.345
Be-D	mg/L	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	169	165	125
Cr-D	mg/L	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	<0.00020	0.00028	0.00035
Hard-D	mg/L	493	473	358
Fe-D	mg/L	0.0084	0.0201	0.0130
Pb-D	mg/L	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	16.9	14.8	11.2
Mn-D	mg/L	0.0012	0.0126	0.0324
Mo-D	mg/L	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0010	<0.0010
K-D	mg/L	1.86	1.64	1.06
S-D	mg/L	211	166	114
Se-D	mg/L	<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.83	3.59	3.58
Na-D	mg/L	107	86.2	49.6
Sr-D	mg/L	1.90	1.51	1.06
Zn-D	mg/L	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 17 2-South Outflow Culvert into 3-South Pit 1 Page(s)

EMS ID				
Site Description 2-South Outflow Culvert into 3-South Pit				
Site Name 2SC				
Date		03-10-2023	06-11-2023	05-12-2023
pH-F	pH Units	7.66	7.8	7.64
Cond-F	uS/cm	1472	1587	1236.6
SO4-D	mg/L	670	650	500
Alk-T	mg/L	200	200	150
Acidity ⁸³	mg/L	1.4	3.5	1.4
Al-T	mg/L	<0.0030	<0.0060	0.0113
As-T	mg/L	0.00028	0.00024	0.00017
Ba-T	mg/L	0.0136	0.0145	0.0115
B-T	mg/L	0.432	0.41	0.262
Cd-T	mg/L	<0.000010	<0.000020	<0.000010
Ca-T	mg/L	231	269	230
Cr-T	mg/L	<0.0010	<0.0020	<0.0010
Co-T	mg/L	<0.00020	<0.00040	<0.00020
Cu-T	mg/L	<0.00050	<0.0010	<0.00050
Hard-T	mg/L	684	790	684
Fe-T	mg/L	<0.010	<0.020	0.012
Pb-T	mg/L	<0.00020	<0.00040	<0.00020
Mg-T	mg/L	26.2	28.5	26.9
Mn-T	mg/L	0.0034	0.0096	0.0092
Mo-T	mg/L	<0.0010	<0.0020	<0.0010
Ni-T	mg/L	<0.0010	<0.0020	<0.0010
K-T	mg/L	2.40	2.47	1.73
S-T	mg/L	240	219	188
Se-T	mg/L	0.00018	0.00027	0.00021
Si-T	mg/L	2.52	2.68	3.14
Ag-T	mg/L	<0.000020	<0.000040	<0.000020
Na-T	mg/L	57.8	48.2	33.3
Sr-T	mg/L	1.49	1.56	1.21
Zn-T	mg/L	<0.0050	<0.010	<0.0050
Al-D	mg/L	<0.0060	<0.0060	0.0066
As-D	mg/L	0.00028	0.00022	0.00017
Ba-D	mg/L	0.0144	0.0140	0.0121
B-D	mg/L	0.50	0.38	0.288
Be-D	mg/L	<0.00020	<0.00020	<0.00010
Cd-D	mg/L	<0.000020	<0.000020	<0.000010
Ca-D	mg/L	256	254	206
Cr-D	mg/L	<0.0020	<0.0020	<0.0010
Co-D	mg/L	<0.00040	<0.00040	<0.00020
Cu-D	mg/L	<0.00040	<0.00040	0.00027
Hard-D	mg/L	755	754	619
Fe-D	mg/L	<0.010	0.011	<0.0050
Pb-D	mg/L	<0.00040	<0.00040	<0.00020
Mg-D	mg/L	27.8	29.1	25.3
Mn-D	mg/L	0.0036	0.0093	0.0084
Mo-D	mg/L	<0.0020	<0.0020	<0.0010
Ni-D	mg/L	<0.0020	<0.0020	<0.0010
K-D	mg/L	2.60	2.30	1.69
S-D	mg/L	238	226	186
Se-D	mg/L	<0.00020	0.00028	0.00024
Si-D	mg/L	2.75	2.83	3.04
Na-D	mg/L	62.2	50.5	30.1
Sr-D	mg/L	1.56	1.47	1.24
Zn-D	mg/L	<0.010	<0.010	<0.0050

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Table 18 3-South Pit Water Cover Over PAG-CCR 1 Page(s)

EMS ID		E217015		
Site Description		3-South Pit Water Cover Over PAG-CCR		
Site Name		3S		
Date		03-10-2023	06-11-2023	05-12-2023
pH-F	pH Units	7.58	7.74	7.69
Cond-F	uS/cm	1482	1592	1226.9
SO4-D	mg/L	670	640	510
Alk-T	mg/L	190	200	150
Acidity83	mg/L	2.0	3.1	<1.0
Al-T	mg/L		<0.0060	0.0189
As-T	mg/L		0.00022	0.00019
Ba-T	mg/L		0.0147	0.0115
B-T	mg/L		0.42	0.262
Cd-T	mg/L		<0.000020	<0.000010
Ca-T	mg/L		265	222
Cr-T	mg/L		<0.0020	<0.0010
Co-T	mg/L		<0.00040	<0.00020
Cu-T	mg/L		<0.0010	<0.00050
Hard-T	mg/L		777	670
Fe-T	mg/L		<0.020	0.017
Pb-T	mg/L		<0.00040	<0.00020
Mg-T	mg/L		28.1	28.0
Mn-T	mg/L		0.0086	0.0094
Mo-T	mg/L		<0.0020	<0.0010
Ni-T	mg/L		<0.0020	<0.0010
K-T	mg/L		2.41	1.78
S-T	mg/L		212	197
Se-T	mg/L		0.00029	0.00020
Si-T	mg/L		2.65	3.05
Ag-T	mg/L		<0.000040	<0.000020
Na-T	mg/L		47.9	34.7
Sr-T	mg/L		1.53	1.24
Zn-T	mg/L		<0.010	<0.0050
Al-D	mg/L		<0.0060	0.0063
As-D	mg/L		0.00025	0.00017
Ba-D	mg/L		0.0141	0.0110
B-D	mg/L		0.37	0.269
Be-D	mg/L		<0.00020	<0.00010
Cd-D	mg/L		<0.000020	<0.000010
Ca-D	mg/L		253	204
Cr-D	mg/L		<0.0020	<0.0010
Co-D	mg/L		<0.00040	<0.00020
Cu-D	mg/L		<0.00040	0.00027
Hard-D	mg/L		752	611
Fe-D	mg/L		0.013	<0.0050
Pb-D	mg/L		<0.00040	<0.00020
Mg-D	mg/L		29.3	24.9
Mn-D	mg/L		0.0088	0.0080
Mo-D	mg/L		<0.0020	<0.0010
Ni-D	mg/L		<0.0020	<0.0010
K-D	mg/L		2.31	1.66
S-D	mg/L		225	183
Se-D	mg/L		0.00033	0.00022
Si-D	mg/L		2.79	3.02
Na-D	mg/L		49.9	30.5
Sr-D	mg/L		1.47	1.21
Zn-D	mg/L		<0.010	<0.0050

Appendix 1 - Tables

Table 19 Culvert Downstream End at Access Road 1 Page(s)

EMS ID		E217014			
Site Description		Culvert Downstream End at Access Road			
Site Name		SPC			
Date		Oct	06-Nov-23	05-Dec-23	05-Dec-23
pH-F	pH Units	Dry	7.14	7.57	7.57
Cond-F	uS/cm		723	406.1	406.1
SO4-D	mg/L		270	140	140
TSS	mg/L		1.6	<1.0	2.4
Alk-T	mg/L		59	41	40
Acidity83	mg/L		1.4	<1.0	<1.0
Al-T	mg/L		0.0671	0.133	0.120
As-T	mg/L		0.00037	0.00035	0.00033
Ba-T	mg/L		0.0167	0.0099	0.0104
B-T	mg/L		0.199	0.105	0.105
Cd-T	mg/L		<0.000010	<0.000010	<0.000010
Ca-T	mg/L		85.7	53.2	53.1
Cr-T	mg/L		<0.0010	<0.0010	<0.0010
Co-T	mg/L		<0.00020	<0.00020	<0.00020
Cu-T	mg/L		0.00059	0.00057	0.00058
Hard-T	mg/L		259	161	159
Fe-T	mg/L		0.091	0.138	0.129
Pb-T	mg/L		<0.00020	<0.00020	<0.00020
Mg-T	mg/L		11.0	6.78	6.49
Mn-T	mg/L		0.0029	0.0028	0.0025
Mo-T	mg/L		<0.0010	<0.0010	<0.0010
Ni-T	mg/L		<0.0010	<0.0010	<0.0010
K-T	mg/L		1.03	0.607	0.588
S-T	mg/L		92.3	48.5	46.9
Se-T	mg/L		<0.00010	<0.00010	<0.00010
Si-T	mg/L		3.65	3.63	3.60
Ag-T	mg/L		<0.000020	<0.000020	<0.000020
Na-T	mg/L		31.7	18.2	17.4
Sr-T	mg/L		0.587	0.324	0.309
Zn-T	mg/L		<0.0050	<0.0050	<0.0050
Al-D	mg/L		0.0528	0.0877	0.0883
As-D	mg/L		0.00030	0.00032	0.00032
Ba-D	mg/L		0.0168	0.0099	0.0098
B-D	mg/L		0.180	0.116	0.114
Be-D	mg/L		<0.00010	<0.00010	<0.00010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010
Ca-D	mg/L		87.6	48.9	47.5
Cr-D	mg/L		<0.0010	<0.0010	<0.0010
Co-D	mg/L		<0.00020	<0.00020	<0.00020
Cu-D	mg/L		0.00049	0.00056	0.00056
Hard-D	mg/L		265	149	145
Fe-D	mg/L		0.0678	0.0836	0.0832
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Mg-D	mg/L		11.2	6.43	6.42
Mn-D	mg/L		0.0014	0.0013	0.0013
Mo-D	mg/L		<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010
K-D	mg/L		1.09	0.611	0.595
S-D	mg/L		93.8	48.6	46.9
Se-D	mg/L		<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.91	3.50	3.43
Na-D	mg/L		32.2	17.0	16.4
Sr-D	mg/L		0.568	0.326	0.322
Zn-D	mg/L		<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 1 Page(s)

EMS ID	E292130																	
Site Description	South End Mine Water Entering Long Lake Near the Outlet																	
Site Name	LLE		Std Val															
Date			Acute-WQG	Chronic-WQG	03-10-2023	11-10-2023	16-10-2023	23-10-2023	30-10-2023	30-10-2023	06-11-2023	14-11-2023	20-11-2023	27-11-2023	05-12-2023	11-12-2023	18-12-2023	27-12-2023
Flow	m3/s				0.01674	0.00578	0.00868	0.0095	0.02116	0.02116	0.07532	0.2254	0.02661	0.02265	0.3189	0.07431	0.1278	0.5841
pH-F	pH Units				6.96	6.83	6.79	7.08	7.14	7.14	6.8	6.72	6.97	7.13	6.46	6.82	7.21	7.43
Cond-F	uS/cm				1129	1032	1143	971	1076	1076	669	370.6	342.2	460.7	355.2	307.1	401.9	247.8
SO4-D	mg/L		128		500	430	440	420	450	450	250	140	120	170	120	110	140	82
TSS	mg/L				6.8						<1.0				<1.0			
DOC	mg/L				4.8						8.0				8.5			
Alk-T	mg/L				88						52				37			
Acidity83	mg/L				5.6						<1.0				<1.0			
N-NH3	mg/L	12.9	0		<0.015						<0.015				<0.015			
N-NO23	mg/L				0.027						0.244				0.042			
P-T	mg/L				0.012						0.0061				0.0064			
Al-T	mg/L				0.106						0.0580				0.126			
As-T	mg/L		0.005		0.00104						0.00060				0.00051			
Ba-T	mg/L		1		0.0443						0.0215				0.0113			
B-T	mg/L		1.2		0.302						0.169				0.097			
Cd-T	mg/L				<0.000010						<0.000010				<0.000010			
Ca-T	mg/L				161						83.5				46.7			
Cr-T	mg/L				<0.0010						<0.0010				<0.0010			
Co-T	mg/L	0.11	0.004		0.00029						<0.00020				<0.00020			
Cu-T	mg/L				0.00065						0.00063				0.00063			
Hard-T	mg/L				493						251				142			
Fe-T	mg/L	1.0			0.981						0.146				0.414			
Pb-T	mg/L	0.0176	0.004		<0.00020						<0.00020				<0.00020			
Mg-T	mg/L				22.1						10.2				6.07			
Mn-T	mg/L	0.8706	0.737		0.139						0.0202				0.0204			
Mo-T	mg/L	46.0	7.6		<0.0010						<0.0010				<0.0010			
Ni-T	mg/L		0.025		<0.0010						<0.0010				<0.0010			
K-T	mg/L				1.58						1.02				0.545			
S-T	mg/L				179						79.2				42.4			
Se-T	mg/L		0.002		<0.00010						<0.00010				<0.00010			
Si-T	mg/L				4.14						3.54				3.61			
Ag-T	mg/L	0.0001	0.00005		<0.000020						<0.000020				<0.000020			
Na-T	mg/L				49.0						27.9				15.7			
Sr-T	mg/L				1.05						0.518				0.276			
Zn-T	mg/L	0.033	0.0075		<0.0050						<0.0050				<0.0050			
Al-D	mg/L		0.26		0.0047						0.0435				0.0725			
As-D	mg/L				0.00066						0.00049				0.00045			
Ba-D	mg/L				0.0482						0.0225				0.0118			
B-D	mg/L				0.275						0.178				0.124			
Be-D	mg/L				<0.00010						<0.00010				<0.00010			
Cd-D	mg/L	0.00017	0.000087		<0.000010						<0.000010				<0.000010			
Ca-D	mg/L				176						83.2				43.3			
Cr-D	mg/L				<0.0010						<0.0010				<0.0010			
Co-D	mg/L				0.00024						<0.00020				<0.00020			
Cu-D	mg/L				0.00027						0.00062				0.00074			
Hard-D	mg/L				537						252				131			
Fe-D	mg/L	0.35			0.169						0.117				0.298			
Pb-D	mg/L				<0.00020						<0.00020				<0.00020			
Mg-D	mg/L				23.7						10.8				5.62			
Mn-D	mg/L				0.151						0.0203				0.0175			
Mo-D	mg/L				<0.0010						<0.0010				<0.0010			
Ni-D	mg/L				<0.0010						<0.0010				<0.0010			
K-D	mg/L				1.66						1.03				0.548			
S-D	mg/L				197						89.9				42.7			
Se-D	mg/L				<0.00010						<0.00010				<0.00010			
Si-D	mg/L				4.29						4.02				3.46			
Na-D	mg/L				52.5						30.1				14.7			
Sr-D	mg/L				1.15						0.518				0.277			
Zn-D	mg/L	0.033	0.0075		<0.0050						0.0099				<0.0050			

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Table 21 Seep into Long Lake 1 Page(s)

EMS ID	E292131	Max-WQG	Max-WQG
Site Description	Seep into Long Lake		
Site Name	LLS	Std Val	
Date	Acute-WQG	27-11-2023	05-12-2023
		11-12-2023	20-12-2023
			27-12-2023
SG	m	0	0
pH-F	pH Units	No flow for October and November	
Cond-F	uS/cm		1068.5
SO4-D	mg/L		480
TSS	mg/L		6.0
Alk-T	mg/L		120
Acidity83	mg/L		2.5
Al-T	mg/L		0.273
As-T	mg/L		0.00293
Ba-T	mg/L		0.0181
B-T	mg/L		0.384
Cd-T	mg/L		0.000010
Ca-T	mg/L		167
Cr-T	mg/L		<0.0010
Co-T	mg/L	0.11	0.00201
Cu-T	mg/L		0.00350
Hard-T	mg/L		488
Fe-T	mg/L	1.0	1.77
Pb-T	mg/L	0.0176	<0.00020
Mg-T	mg/L		16.9
Mn-T	mg/L	0.8706	0.177
Mo-T	mg/L	46.0	<0.0010
Ni-T	mg/L		0.0068
K-T	mg/L		1.93
S-T	mg/L		168
Se-T	mg/L		<0.00010
Si-T	mg/L		3.70
Ag-T	mg/L	0.0001	<0.000020
Na-T	mg/L		52.6
Sr-T	mg/L		1.50
Zn-T	mg/L	0.033	0.0055
Al-D	mg/L		0.0156
As-D	mg/L		0.00050
Ba-D	mg/L		0.0189
B-D	mg/L		0.430
Be-D	mg/L		<0.00010
Cd-D	mg/L	0.00017	<0.000010
Ca-D	mg/L		175
Cr-D	mg/L		<0.0010
Co-D	mg/L		0.00188
Cu-D	mg/L		0.00044
Hard-D	mg/L		514
Fe-D	mg/L	0.35	0.175
Pb-D	mg/L		<0.00020
Mg-D	mg/L		18.5
Mn-D	mg/L		0.158
Mo-D	mg/L		<0.0010
Ni-D	mg/L		0.0069
K-D	mg/L		2.15
S-D	mg/L		180
Se-D	mg/L		<0.00010
Si-D	mg/L		3.50
Na-D	mg/L		56.4
Sr-D	mg/L		1.59
Zn-D	mg/L	0.033	<0.0050

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Table 22 Long Lake Middle Seep 1 Page(s)

EMS ID	E292131	Max-WQG			
Site Description	Long Lake Middle Seep				
Site Name	LLSM	Std Val			
Date	Max				
Flow	m3/s				
SG	m		No flow for Q3 (October through December)		
pH-F	pH Units				
Cond-F	uS/cm				
SO4-D	mg/L				
TSS	mg/L				
Alk-T	mg/L				
Acidity83	mg/L				
Al-T	mg/L				
As-T	mg/L				
Ba-T	mg/L				
B-T	mg/L				
Cd-T	mg/L				
Ca-T	mg/L				
Cr-T	mg/L				
Co-T	mg/L	0.11			
Cu-T	mg/L				
Hard-T	mg/L				
Fe-T	mg/L	1.0			
Pb-T	mg/L	0.0176			
Mg-T	mg/L				
Mn-T	mg/L	0.8706			
Mo-T	mg/L	46.0			
Ni-T	mg/L				
K-T	mg/L				
S-T	mg/L				
Se-T	mg/L				
Si-T	mg/L				
Ag-T	mg/L	0.0001			
Na-T	mg/L				
Sr-T	mg/L				
Zn-T	mg/L	0.033			
Al-D	mg/L				
As-D	mg/L				
Ba-D	mg/L				
B-D	mg/L				
Be-D	mg/L				
Cd-D	mg/L	0.00017			
Ca-D	mg/L				
Cr-D	mg/L				
Co-D	mg/L				
Cu-D	mg/L				
Hard-D	mg/L				
Fe-D	mg/L	0.35			
Pb-D	mg/L				
Mg-D	mg/L				
Mn-D	mg/L				
Mo-D	mg/L				
Ni-D	mg/L				
K-D	mg/L				
S-D	mg/L				
Se-D	mg/L				
Si-D	mg/L				
Na-D	mg/L				
Sr-D	mg/L				
Zn-D	mg/L	0.033			

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Table 23 Authorised Discharge Location for 7S South Mine Water 1 Page(s)

EMS ID		E292069	PL-7S
Site Description		Authorised Discharge Location for 7S South Mine Water	
Site Name		7SSD	Std Val
Date		Max	06-11-2023
pH-F	pH Units	6.00 - 8.00	7.16
Cond-F	uS/cm		321
SO4-D	mg/L	500	25
TSS	mg/L	25	<1.0
Alk-T	mg/L		140
Acidity83	mg/L		11.9
DOC	mg/L		2.4
Al-T	mg/L		0.0148
As-T	mg/L		0.00067
Ba-T	mg/L		0.0066
B-T	mg/L		<0.050
Cd-T	mg/L		<0.000010
Ca-T	mg/L		45.4
Cr-T	mg/L		<0.0010
Co-T	mg/L		<0.00020
Cu-T	mg/L		0.00085
Hard-T	mg/L		153
Fe-T	mg/L		0.028
Pb-T	mg/L		0.00064
Mg-T	mg/L		9.60
Mn-T	mg/L		0.0405
Mo-T	mg/L		<0.0010
Ni-T	mg/L		<0.0010
K-T	mg/L		0.532
S-T	mg/L		7.9
Se-T	mg/L		<0.00010
Si-T	mg/L		5.30
Ag-T	mg/L		<0.000020
Na-T	mg/L		5.45
Sr-T	mg/L		0.161
Zn-T	mg/L		<0.0050
Al-D	mg/L	0.1	0.0054
As-D	mg/L		0.00048
Ba-D	mg/L		0.0066
B-D	mg/L		<0.050
Be-D	mg/L		<0.00010
Cd-D	mg/L	0.000045	<0.000010
Ca-D	mg/L		44.4
Cr-D	mg/L		<0.0010
Co-D	mg/L		<0.00020
Cu-D	mg/L	0.014	0.00085
Hard-D	mg/L		151
Fe-D	mg/L	0.35	0.0267
Pb-D	mg/L		<0.00020
Mg-D	mg/L		9.80
Mn-D	mg/L		0.0302
Mo-D	mg/L		<0.0010
Ni-D	mg/L		<0.0010
K-D	mg/L		0.543
S-D	mg/L		8.3
Se-D	mg/L	0.016	<0.00010
Si-D	mg/L		5.81
Na-D	mg/L		5.82
Sr-D	mg/L		0.154
Zn-D	mg/L		<0.0050

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Table 24 7 South Portal Sump 1 Page(s)

EMS ID		E292110		
Site Description		7 South Portal Sump		
Site Name		7SPS		
Date		03-10-2023	06-11-2023	05-12-2023
pH-F	pH Units	6.88	4.69	3.51
Cond-F	uS/cm	854	956	638.2
SO4-D	mg/L	360	520	260
TSS	mg/L	7.6	56	30
Alk-T	mg/L	70	<1.0	<1.0
Acidity83	mg/L	3.6	202	49.6
Al-T	mg/L	0.216	4.84	2.16
As-T	mg/L	0.00070	0.00856	0.00400
Ba-T	mg/L	0.0207	0.0181	0.0125
B-T	mg/L	0.173	0.128	0.064
Cd-T	mg/L	0.000042	0.000337	0.000159
Ca-T	mg/L	124	118	65.7
Cr-T	mg/L	<0.0010	0.0161	0.0057
Co-T	mg/L	0.00555	0.0541	0.0274
Cu-T	mg/L	0.00577	0.131	0.0566
Hard-T	mg/L	413	419	251
Fe-T	mg/L	1.34	77.1	22.0
Pb-T	mg/L	<0.00020	0.00030	<0.00020
Mg-T	mg/L	25.0	30.4	21.1
Mn-T	mg/L	0.179	1.04	0.565
Mo-T	mg/L	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0119	0.0896	0.0477
K-T	mg/L	1.67	1.01	0.660
S-T	mg/L	126	186	97.5
Se-T	mg/L	0.00028	0.00014	<0.00010
Si-T	mg/L	4.14	7.17	6.02
Ag-T	mg/L	<0.000020	<0.000020	<0.000020
Na-T	mg/L	12.4	4.33	3.40
Sr-T	mg/L	0.437	0.419	0.231
Zn-T	mg/L	0.0110	0.159	0.0775
Al-D	mg/L	0.0112	5.55	1.77
As-D	mg/L	0.00018	0.00414	0.00046
Ba-D	mg/L	0.0215	0.0196	0.0122
B-D	mg/L	0.153	0.120	0.085
Be-D	mg/L	<0.00010	0.00043	0.00022
Cd-D	mg/L	0.000038	0.000339	0.000159
Ca-D	mg/L	133	116	61.7
Cr-D	mg/L	<0.0010	0.0165	0.0042
Co-D	mg/L	0.00597	0.0548	0.0246
Cu-D	mg/L	0.00223	0.130	0.0523
Hard-D	mg/L	444	431	234
Fe-D	mg/L	0.0472	67.5	12.2
Pb-D	mg/L	<0.00020	0.00030	<0.00020
Mg-D	mg/L	27.4	34.4	19.5
Mn-D	mg/L	0.195	1.01	0.533
Mo-D	mg/L	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.0130	0.0912	0.0454
K-D	mg/L	1.79	1.04	0.621
S-D	mg/L	141	214	93.2
Se-D	mg/L	0.00031	0.00016	0.00010
Si-D	mg/L	4.27	8.25	5.66
Na-D	mg/L	13.3	4.87	3.12
Sr-D	mg/L	0.470	0.432	0.228
Zn-D	mg/L	0.0088	0.159	0.0742

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Table 25 Road Side Crossing Bridge on Stream 1 above the Lower Wetland 1 Page(s)

EMS ID	E292109	Stn Std	Max-WQG			
Site Description	Road Side Crossing Bridge on Stream 1 above the Lower Wetland					
Site Name	7S	Std Val				7S-5DEC23-M
Date		Max	10-10-2023	30-10-2023	06-11-2023	05-12-2023
SG	m		0	0.172	0.21	0.28
pH-F	pH Units		No Flow until late October.	6.37	6.55	6.98
Cond-F	uS/cm			54.6	50.8	55.8
SO4-D	mg/L			4.2	3.6	2.2
TSS	mg/L			<1.0	<1.0	<1.0
Alk-T	mg/L			15	13	12
Acidity83	mg/L			2.0	<1.0	1.6
DOC	mg/L			2.8	3.0	4.3
Al-T	mg/L			0.0220	0.0316	0.0510
As-T	mg/L			0.00013	0.00010	<0.00010
Ba-T	mg/L			0.0015	0.0015	0.0014
B-T	mg/L			<0.050	<0.050	<0.050
Cd-T	mg/L			<0.000010	<0.000010	<0.000010
Ca-T	mg/L			5.25	4.96	4.52
Cr-T	mg/L			<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.11		<0.00020	<0.00020	<0.00020
Cu-T	mg/L			0.00104	<0.00050	<0.00050
Hard-T	mg/L			18.1	16.9	15.5
Fe-T	mg/L	1.0		<0.010	<0.010	0.020
Pb-T	mg/L	0.0176		<0.00020	<0.00020	<0.00020
Mg-T	mg/L			1.20	1.10	1.02
Mn-T	mg/L	0.8706		<0.0010	<0.0010	<0.0010
Mo-T	mg/L	46.0		<0.0010	<0.0010	<0.0010
Ni-T	mg/L			<0.0010	<0.0010	<0.0010
K-T	mg/L			0.069	0.079	0.079
S-T	mg/L			<3.0	<3.0	<3.0
Se-T	mg/L			<0.00010	<0.00010	<0.00010
Si-T	mg/L			4.62	4.58	4.57
Ag-T	mg/L	0.0001		<0.000020	<0.000020	<0.000020
Na-T	mg/L			1.77	1.65	1.64
Sr-T	mg/L			0.0214	0.0193	0.0168
Zn-T	mg/L	0.033		<0.0050	<0.0050	<0.0050
Al-D	mg/L			0.0211	0.0320	0.0459
As-D	mg/L			0.00020	<0.00010	0.00011
Ba-D	mg/L			0.0017	0.0016	0.0014
B-D	mg/L			<0.050	<0.050	<0.050
Be-D	mg/L			<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017		<0.000010	<0.000010	<0.000010
Ca-D	mg/L			5.73	5.00	4.25
Cr-D	mg/L			<0.0010	<0.0010	<0.0010
Co-D	mg/L			<0.00020	<0.00020	<0.00020
Cu-D	mg/L	≤ 0.00334		0.00031	0.00041	0.00053
Hard-D	mg/L			19.9	17.2	14.8
Fe-D	mg/L	0.35		0.0058	0.0123	0.0118
Pb-D	mg/L			<0.00020	<0.00020	<0.00020
Mg-D	mg/L			1.37	1.15	1.02
Mn-D	mg/L			<0.0010	<0.0010	<0.0010
Mo-D	mg/L			<0.0010	<0.0010	<0.0010
Ni-D	mg/L			<0.0010	<0.0010	<0.0010
K-D	mg/L			0.074	0.078	0.081
S-D	mg/L			<3.0	<3.0	<3.0
Se-D	mg/L			<0.00010	<0.00010	<0.00010
Si-D	mg/L			5.13	5.10	4.35
Na-D	mg/L			1.93	1.75	1.60
Sr-D	mg/L			0.0237	0.0208	0.0167
Zn-D	mg/L	0.033		<0.0050	<0.0050	<0.0050

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Table 26 Continuous Discharge at Settling Pond # 4 1 Page(s)

EMS ID E207409 Discharge From Settling Pond #4 (SP4/WD)						
Date	October Max. (m3/s)	October Daily (m3/s)	November Max. (m3/s)	November Daily (m3/s)	December Max. (m3/s)	December Daily (m3/s)
1	0.0250	0.0180	0.0640	0.0540	0.1290	0.1150
2	0.0310	0.0250	0.0680	0.0630	0.1330	0.1220
3	0.0280	0.0190	0.0660	0.0600	0.1300	0.1150
4	0.0250	0.0200	0.0690	0.0660	0.1200	0.0980
5	0.0240	0.0190	0.0660	0.0610	0.1380	0.0830
6	0.0240	0.0160	0.0620	0.0540	0.1450	0.1360
7	0.0240	0.0160	0.0830	0.0600	0.1340	0.1280
8	0.0240	0.0150	0.0970	0.0810	0.1290	0.1170
9	0.0360	0.0170	0.0780	0.0710	0.1300	0.1150
10	0.0390	0.0320	0.0800	0.0670	0.1310	0.1220
11	0.0300	0.0190	0.0860	0.0760	0.1310	0.1240
12	0.0270	0.0210	0.1130	0.0730	0.1300	0.1220
13	0.0150	0.0090	0.1160	0.0960	0.1350	0.1300
14	0.0080	0.0060	0.1120	0.0930	0.1370	0.1290
15	0.0080	0.0050	0.1130	0.1000	0.1310	0.1260
16	0.0110	0.008	0.1030	0.0880	0.1300	0.1270
17	0.0100	0.0070	0.0900	0.0830	0.1310	0.1240
18	0.0160	0.0140	0.0890	0.0850	0.1370	0.1320
19	0.0240	0.0130	0.0890	0.0790	0.1410	0.1280
20	0.0450	0.0330	0.0790	0.0740	0.1310	0.1290
21	0.0480	0.0430	0.0890	0.0800	0.1380	0.1330
22	0.0470	0.0410	0.0820	0.0690	0.1450	0.1390
23	0.0480	0.0400	0.0620	0.0490	0.1380	0.1250
24	0.0520	0.0460	0.0780	0.0660	0.1200	0.1080
25	0.0480	0.0380	0.0780	0.0710	0.1590	0.1390
26	0.0470	0.0370	0.0800	0.0720	0.1800	0.1540
27	0.0460	0.0360	0.0770	0.0700	0.2020	0.1940
28	0.0430	0.0360	0.0770	0.0720	0.2190	0.1980
29	0.0430	0.0350	0.1100	0.0830	0.2320	0.2000
30	0.0470	0.0400	0.1250	0.1080	0.2320	0.1820
31	0.0560	0.0470			0.1880	0.1680
Monthly Max	0.0560		0.1250		0.2320	
Monthly Avg		0.0249		0.0741		0.1343
TSS is required weekly when max daily flow > 0.054 m ³ /s						
NF= No Flow PNC= Permit Non-compliance All flow data is subject to review						

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Table 27 Continuous Discharge at Settling Pond # 1 1 Page(s)

EMS ID E218582						
Discharge From Settling Pond #1 (SP1/SPD)						
Date	October Max. (m ³ /s)	October Daily (m ³ /s)	November Max. (m ³ /s)	November Daily (m ³ /s)	December Max. (m ³ /s)	December Daily (m ³ /s)
1	0.0032	0.0025	0.0091	0.0055	0.0639	0.0534
2	0.0341	0.0114	0.0160	0.0131	0.0639	0.0344
3	0.0341	0.0316	0.0443	0.0306	0.0250	0.0218
4	0.0341	0.0332	0.0443	0.0322	0.0764	0.0380
5	0.0534	0.0360	0.0443	0.0316	0.0989	0.0949
6	0.0534	0.0331	0.0534	0.0452	0.1970	0.0744
7	0.0160	0.0066	0.0534	0.0490	0.1970	0.1481
8	0.0032	0.0032	0.0534	0.0325	0.1970	0.1624
9	0.0091	0.0035	0.0160	0.0152	0.0877	0.0691
10	0.0091	0.0048	0.0534	0.0177	0.0443	0.0346
11	0.0341	0.0113	0.0764	0.0680	0.0534	0.0339
12	0.0341	0.0147	0.0989	0.0611	0.0534	0.0286
13	0.0250	0.0086	0.1088	0.0929	0.0341	0.0202
14	0.0341	0.0258	0.0877	0.0769	0.0341	0.0303
15	0.0160	0.0070	0.0877	0.0710	0.0341	0.0294
16	0.0160	0.0091	0.0534	0.0366	0.0764	0.0463
17	0.0443	0.0150	0.0534	0.0347	0.0639	0.0659
18	0.0534	0.0302	0.0639	0.0449	0.0639	0.0566
19	0.0341	0.0209	0.0250	0.0239	0.0639	0.0561
20	0.0534	0.0369	0.0639	0.0287	0.0443	0.0334
21	0.0534	0.0408	0.0764	0.0650	0.0639	0.0483
22	0.0160	0.0080	0.0639	0.0554	0.0639	0.0346
23	0.0091	0.0038	0.0534	0.0449	0.0639	0.0494
24	0.0160	0.0079	0.0534	0.0315	0.0639	0.0505
25	0.0091	0.0058	0.0534	0.0352	0.1816	0.0915
26	0.0341	0.0118	0.0443	0.0279	0.1816	0.1470
27	0.0443	0.0204	0.0443	0.0292	0.1816	0.1206
28	0.0250	0.0087	0.0341	0.0267	0.1970	0.1726
29	0.0341	0.0300	0.0443	0.0242	0.1279	0.1133
30	0.0250	0.0100	0.0534	0.0495	0.1088	0.0990
31	0.0091	0.0054			0.0877	0.0858
Monthly Max	0.0534		0.109		0.1970	
Monthly Avg		0.016		0.040		0.069
PNC = Permit Non-compliance						
TSS is required weekly when max daily flow > 0.046m ³ /s						
NF= No Flow						
All flow data is subject to revisions						

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Table 28 Continuous Discharge at 7-South 1 Page(s)

EMS ID E292069									
Discharge From 7 South Surface Decant Pond (7SSD)									
Date	April	May	June	July	August	September	October	November	December
	Daily Average L/S			Daily Average L/S			Daily Average L/S		
1	NF	NF	NF	NF	NF	NF	NF	NF	NF
2	NF	NF	NF	NF	NF	NF	NF	NF	NF
3	NF	NF	NF	NF	NF	NF	NF	NF	NF
4	NF	NF	NF	NF	NF	NF	NF	NF	NF
5	NF	NF	NF	NF	NF	NF	NF	NF	NF
6	NF	NF	NF	NF	NF	NF	NF	NF	NF
7	NF	NF	NF	NF	NF	NF	NF	NF	NF
8	NF	NF	NF	NF	NF	NF	NF	NF	NF
9	NF	NF	NF	NF	NF	NF	NF	NF	NF
10	NF	NF	NF	NF	NF	NF	NF	NF	NF
11	NF	NF	NF	NF	NF	NF	NF	NF	NF
12	NF	NF	NF	NF	NF	NF	NF	NF	NF
13	NF	NF	NF	NF	NF	NF	NF	NF	NF
14	NF	NF	NF	NF	NF	NF	NF	NF	NF
15	NF	NF	NF	NF	NF	NF	NF	NF	NF
16	NF	NF	NF	NF	NF	NF	NF	NF	NF
17	NF	NF	NF	NF	NF	NF	NF	NF	NF
18	NF	NF	NF	NF	NF	NF	NF	NF	NF
19	NF	NF	NF	NF	NF	NF	NF	NF	NF
20	NF	NF	NF	NF	NF	NF	NF	NF	NF
21	NF	NF	NF	NF	NF	NF	NF	NF	NF
22	NF	NF	NF	NF	NF	NF	NF	NF	NF
23	NF	NF	NF	NF	NF	NF	NF	NF	NF
24	NF	NF	NF	NF	NF	NF	NF	NF	NF
25	NF	NF	NF	NF	NF	NF	NF	NF	NF
26	NF	NF	NF	NF	NF	NF	NF	NF	NF
27	NF	NF	NF	NF	NF	NF	NF	NF	NF
28	NF	NF	NF	NF	NF	NF	NF	NF	NF
29	NF	NF	NF	NF	NF	NF	NF	NF	NF
30	NF	NF	NF	NF	NF	NF	NF	NF	NF
31	NF	NF	NF	NF	NF	NF	NF	NF	NF
Monthly Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Annual Avg									
Cummulative Daily Totalizer Value									
For Maximum Decant Flow (5.00 L/s)									

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Table 29 2-South Inflow and Outflow 1 Page(s)

EMS ID: E292127 2-South Pit Inflow				EMS ID: E292127 2-South Pit Outflow			
2S Inflow				2S Outflow Culvert into 3S Pit			
Date	October Q (L/s)	November Q (L/s)	December Q (L/s)	Date	October Q (L/s)	November Q (L/s)	December Q (L/s)
1	12.566	5.888	0.000	1	3.256	4.245	5.769
2	14.302	4.469	1.169	2	3.805	5.155	5.995
3	27.956	11.326	7.304	3	3.209	4.952	5.818
4	11.885	19.574	10.476	4	3.302	6.092	5.901
5	11.684	0.475	7.664	5	3.087	6.653	11.569
6	11.049	0.767	6.140	6	2.962	7.043	11.643
7	6.863	12.334	8.351	7	2.981	7.065	11.087
8	2.766	6.395	36.776	8	3.324	7.400	10.006
9	3.479	9.289	9.700	9	3.349	7.520	9.345
10	5.020	11.727	21.452	10	3.603	7.899	8.924
11	14.052	18.094	61.788	11	3.236	11.298	8.251
12	12.288	5.136	44.524	12	3.516	14.755	7.923
13	9.267	11.754	13.734	13	3.430	18.043	7.801
14	5.680	12.220	27.209	14	3.521	17.077	8.776
15	14.935	21.691	24.937	15	3.477	15.126	8.886
16	14.370	29.733	36.936	16	4.140	12.870	9.227
17	13.660	12.769	28.044	17	4.172	11.092	9.046
18	20.104	1.935	0.199	18	5.643	9.779	9.132
19	16.030	33.509	0.000	19	5.540	8.850	9.578
20	9.913	12.702	9.086	20	4.603	7.912	10.055
21	2.971	16.812	22.648	21	4.352	7.474	10.266
22	1.986	39.166	21.053	22	3.845	7.642	10.183
23	10.858	44.450	28.372	23	3.951	6.982	9.602
24	5.992	74.546	8.520	24	4.735	6.753	8.991
25	12.112	61.852	5.222	25	4.075	6.696	8.759
26	27.730	44.537	31.118	26	3.902	6.486	26.593
27	43.282	44.848	6.171	27	3.900	6.291	27.145
28	75.654	32.769	29.737	28	4.006	6.213	42.330
29	43.973	8.772	46.451	29	4.064	5.996	55.064
30	19.342	0.455	96.190	30	4.001	5.858	37.551
31	9.398		77.265	31	4.048		26.908

Appendix 1 - Tables

Table 30 Flow Tables LLS, LLSM, 7S, WA, WB, LLO and IR8 7 Page(s)

Water Level			
EMS ID: E292131			
Site LLS			
Water Level (m)			
Weeks	Level (m)	Weeks	Level
1	0.010	32	NF
2	0.010	33	NF
3	0.010	34	NF
4	0.010	35	NF
5	0.010	36	NF
6	0.010	37	NF
7	0.010	38	NF
8	0.010	39	0.005
9	0.010	40	
10	0.009	41	
11	0.009	42	
12	0.009	43	
13	0.009	44	
14	NF	45	
15	NF	46	
16	NF	47	
17	NF	48	
18	NF	49	
19	NF	50	
20	NF	51	
21	NF	52	
22	NF		
23	NF		
24	NF		
25	NF		
26	NF		
27	NF		
28	NF		
29	NF		
30	NF		
31	NF		
Notes: No flow = NF			

Appendix 1 - Tables

Table 30 Flow Tables LLS, LLSM, 7S, WA, WB, LLO and IR8 7 Page(s)

Weekly Flow Requirements (L/s)									
EMS ID:		E292131							
Site		LLSM							
Flow (L/s)									
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	0.078	0.078	NF	NF	NF	NF	(NF) Dry for Q3		
2	0.078	0.078	NF	NF	NF	NF			
3	0.078	0.078	NF	NF	NF	NF			
4	0.078	0.078	NF	NF	NF	NF			
5	0.078	0.078	NF	NF	NF	NF			
6	0.078	0.078	NF	NF	NF	NF			
7	0.078	0.078	NF	NF	NF	NF			
8	0.078	0.078	NF	NF	NF	NF			
9	0.078	0.078	NF	NF	NF	NF			
10	0.078	0.078	NF	NF	NF	NF			
11	0.078	0.078	NF	NF	NF	NF			
12	0.078	0.078	NF	NF	NF	NF			
13	0.078	0.078	NF	NF	NF	NF			
14	0.078	0.078	NF	NF	NF	NF			
15	0.078	0.078	NF	NF	NF	NF			
16	0.078	0.078	NF	NF	NF	NF			
17	0.078	0.078	NF	NF	NF	NF			
18	0.078	0.078	NF	NF	NF	NF			
19	0.078	0.078	NF	NF	NF	NF			
20	0.078	0.078	NF	NF	NF	NF			
21	0.078	0.078	NF	NF	NF	NF			
22	0.078	0.078	NF	NF	NF	NF			
23	0.078	0.078	NF	NF	NF	NF			
24	0.078	0.078	NF	NF	NF	NF			
25	0.078	0.078	NF	NF	NF	NF			
26	0.078	0.078	NF	NF	NF	NF			
27	0.078	0.078	NF	NF	NF	NF			
28	0.078	0.078	NF	NF	NF	NF			
29	0.078	0.078	NF	NF	NF	NF			
30	0.078	NF	NF	NF	NF	NF			
31		NF		NF	NF				
Notes: No flow = NF									

Appendix 1 - Tables

Table 30 Flow Tables LLS, LLSM, 7S, WA, WB, LLO and IR8 7 Page(s)

Continuous Flow Requirements (L/s)									
EMS ID: E292109									
Site 7S									
Flow (L/s)	Estimated Flow								
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	0.86	1.03	NF	NF	NF	NF	NF	0.40	0.00
2	0.86	0.88	NF	NF	NF	NF	NF	0.85	0.00
3	0.84	0.76	NF	NF	NF	NF	0.14	4.11	0.39
4	0.76	0.65	NF	NF	NF	NF	NF	11.04	1.01
5	0.78	1.06	NF	NF	NF	NF	NF	0.03	2.70
6	1.74	0.50	NF	NF	NF	NF	NF	0.03	1.42
7	2.50	1.64	NF	NF	NF	NF	NF	5.44	1.34
8	1.91	1.34	NF	NF	NF	NF	NF	2.32	27.43
9	5.81	1.13	NF	NF	NF	NF	NF	3.67	1.90
10	12.06	1.09	NF	NF	NF	NF	NF	4.05	14.96
11	7.36	0.90	NF	NF	NF	NF	NF	7.35	160.41
12	5.17	0.73	NF	NF	NF	NF	NF	1.48	68.58
13	3.60	0.61	NF	NF	NF	NF	NF	9.07	3.73
14	3.06	0.49	NF	NF	NF	NF	NF	7.39	27.18
15	2.24	0.35	NF	NF	NF	NF	NF	4.71	23.57
16	2.13	0.05	NF	NF	NF	NF	NF	11.56	42.00
17	4.61	0.24	NF	NF	NF	NF	NF	2.76	23.25
18	18.00	0.17	NF	NF	NF	NF	0.25	0.06	0.03
19	14.08	0.15	NF	NF	NF	NF	2.00	4.54	0.00
20	20.49	0.13	NF	NF	NF	NF	0.47	1.70	4.47
21	26.55	0.10	NF	NF	NF	NF	0.03	1.99	6.92
22	13.21	0.09	NF	NF	NF	NF	0.01	17.95	6.31
23	7.52	0.07	NF	NF	NF	NF	0.34	7.41	23.17
24	4.09	0.04	NF	NF	NF	NF	0.06	54.67	1.45
25	3.24	0.02	NF	NF	NF	NF	0.64	30.97	0.62
26	2.76	0.01	NF	NF	NF	NF	21.83	12.49	97.21
27	2.62	0.01	NF	NF	NF	NF	28.81	19.67	2.24
28	2.00	NF	NF	NF	NF	NF	118.02	16.56	115.25
29	1.59	NF	NF	NF	NF	NF	31.95	0.82	51.45
30	1.16	NF	NF	NF	NF	NF	5.19	0.00	228.53
31		NF		NF	NF		0.98		158.50
Notes: No flow = NF									

Appendix 1 - Tables

Table 30 Flow Tables LLS, LLSM, 7S, WA, WB, LLO and IR8 7 Page(s)

5 in 30 Flow Requirements									
EMS ID: 126402									
Site WA									
Flow (m ³ /s)									
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	2.17	1.75	1.35	0.72	0.52	0.76	0.99	1.02	0.65
2	2.18	1.33	1.36	0.73	0.53	0.76	1.07	0.83	0.65
3	2.18	1.32	1.36	0.74	0.53	0.76	1.08	0.84	0.65
4	2.18	1.32	1.36	0.74	0.53	0.76	1.16	0.89	0.68
5	2.18	1.23	1.36	0.73	0.53	0.76	1.14	0.88	0.72
6	2.18	1.05	1.36	0.73	0.53	0.76	1.10	0.87	0.69
7	2.18	1.13	1.36	0.73	0.53	0.76	1.07	0.88	0.68
8	2.17	1.14	1.36	0.73	0.62	0.75	1.06	0.88	0.66
9	2.20	1.15	1.36	0.73	0.71	0.75	1.06	0.86	0.66
10	2.22	1.16	1.36	0.73	0.73	0.75	1.09	0.87	0.66
11	2.22	1.17	1.36	0.73	0.75	0.76	1.05	0.99	0.66
12	2.21	1.40	1.37	0.73	0.78	0.76	1.06	1.02	0.66
13	2.20	1.44	1.33	0.73	0.78	0.75	1.02	1.01	0.66
14	2.20	1.47	1.27	0.72	0.78	0.75	1.03	0.98	0.67
15	2.20	1.47	1.25	0.72	0.78	0.75	1.02	0.97	0.67
16	2.21	1.48	1.25	0.72	0.78	0.76	1.01	0.98	0.66
17	2.24	1.49	1.25	0.73	0.78	0.77	1.10	0.83	0.66
18	2.26	1.49	1.24	0.72	0.78	0.76	1.16	0.67	0.67
19	2.26	1.49	1.23	0.65	0.78	0.77	1.33	0.67	0.68
20	2.27	1.48	1.08	0.58	0.78	0.77	1.29	0.66	0.68
21	2.28	1.47	1.23	0.57	0.77	0.76	1.25	0.66	0.67
22	2.27	1.46	1.22	0.57	0.77	0.75	1.22	0.66	1.57
23	2.26	1.46	1.05	0.56	0.77	0.75	1.20	0.66	2.47
24	2.25	1.44	1.08	0.56	0.76	0.75	1.24	0.65	2.43
25	2.23	1.42	1.12	0.55	0.76	0.76	1.21	0.65	4.01
26	2.25	1.41	1.14	0.54	0.76	0.73	1.03	0.65	18.96
27	2.25	1.41	1.10	0.53	0.76	0.72	1.12	0.65	19.07
28	2.24	1.40	1.14	0.53	0.77	0.70	1.10	0.65	27.75
29	2.24	1.39	1.11	0.53	0.77	0.80	1.19	0.65	27.71
30	2.24	1.37	0.93	0.53	0.77	0.96	1.19	0.65	23.37
31		1.35		0.53	0.77		1.08		18.74
Av	2.22	1.37	1.25	0.66	0.71	0.76			

Appendix 1 - Tables

Table 30 Flow Tables LLS, LLSM, 7S, WA, WB, LLO and IR8 7 Page(s)

5 in 30 Flow Requirements (Level)									
EMS ID: 900504									
Site WB									
Average Level (m)									
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	0.5843	0.5913	0.5069	0.4615	0.3922	0.3800	0.4512	0.4665	0.3311
2	0.5833	0.5597	0.5044	0.4507	0.3897	0.3861	0.4576	0.4302	0.3737
3	0.5843	0.5409	0.5040	0.4412	0.3955	0.4120	0.5174	0.4935	0.4433
4	0.5831	0.5326	0.5037	0.4390	0.3956	0.4498	0.4628	0.5134	0.4364
5	0.5845	0.5298	0.5055	0.4373	0.3964	0.4172	0.4683	0.4125	0.4631
6	0.5872	0.5031	0.5063	0.4349	0.3960	0.4167	0.4710	0.4246	0.5335
7	0.5821	0.5227	0.5034	0.3508	0.3977	0.5243	0.4415	0.5343	0.5527
8	0.5791	0.5257	0.5029	0.3049	0.4054	0.4467	0.4048	0.5232	0.6395
9	0.5868	0.5277	0.5032	0.4426	0.4158	0.4101	0.4060	0.5426	0.5238
10	0.6043	0.5319	0.5060	0.4305	0.4212	0.3931	0.4268	0.5406	0.5480
11	0.6055	0.5303	0.5081	0.4312	0.4237	0.3826	0.4652	0.5253	0.6403
12	0.6111	0.5312	0.5088	0.4243	0.4285	0.4120	0.4726	0.5300	0.6040
13	0.6064	0.5381	0.5058	0.4299	0.4351	0.4403	0.4563	0.6391	0.4948
14	0.6017	0.5393	0.4994	0.4303	0.4353	0.4433	0.4265	0.6650	0.5457
15	0.5969	0.5354	0.4957	0.4307	0.4356	0.4405	0.4819	0.6286	0.5624
16	0.5946	0.4994	0.4959	0.4310	0.4251	0.4530	0.4635	0.6313	0.6034
17	0.6030	0.5316	0.4971	0.4248	0.4375	0.4446	0.4759	0.5670	0.5858
18	0.6079	0.5240	0.4943	0.4286	0.4073	0.4435	0.4896	0.4584	0.4063
19	0.6126	0.5243	0.4910	0.4282	0.3878	0.4453	0.5008	0.5726	0.3584
20	0.6274	0.5232	0.4867	0.4201	0.3871	0.4486	0.4927	0.5104	0.5171
21	0.6319	0.5210	0.4884	0.4150	0.3563	0.4432	0.4436	0.5000	0.5458
22	0.6443	0.5190	0.4947	0.4096	0.3522	0.4437	0.4319	0.5644	0.5520
23	0.6366	0.5167	0.4881	0.4080	0.4199	0.4132	0.5021	0.5646	0.6508
24	0.6290	0.5158	0.4815	0.4061	0.4055	0.4361	0.4732	0.6064	0.5887
25	0.6269	0.5145	0.4832	0.4054	0.3954	0.3772	0.5019	0.5812	0.5120
26	0.6223	0.5129	0.4858	0.4086	0.4180	0.3514	0.5575	0.5460	0.9632
27	0.6173	0.5110	0.4796	0.4055	0.4535	0.3075	0.5973	0.5612	1.1390
28	0.6119	0.5109	0.4807	0.4028	0.5088	0.3612	0.6583	0.5517	1.3275
29	0.6038	0.5099	0.4815	0.3990	0.5099	0.3908	0.5989	0.4622	1.4777
30	0.5976	0.5069	0.4810	0.3971	0.4229	0.4367	0.5338	0.3721	1.4437
31		0.4872		0.3961	0.3953		0.4896		1.3381
Notes: Flow curve is being developed.									

Appendix 1 - Tables

Table 30 Flow Tables LLS, LLSM, 7S, WA, WB, LLO and IR8 7 Page(s)

5 in 30 Flow Requirements												
EMS ID: E219412												
Site		LLO										
Average Level (m)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.3316	0.3602	0.2089	0.0816	NF	NF	Unable to retrieve the data due to dangerous high flow condirions. Data will be supplied with Q4.					
2	0.3283	0.3475	0.2031	0.0750	NF	NF						
3	0.3301	0.3360	0.1983	0.0631	NF	NF						
4	0.3271	0.3272	0.1930	0.0560	NF	NF						
5	0.3231	0.3288	0.1895	0.0513	NF	NF						
6	0.3231	0.3302	0.1856	0.0429	NF	NF						
7	0.3262	0.3719	0.1772	-0.0483	NF	NF						
8	0.3200	0.3913	0.1742	-0.0993	NF	NF						
9	0.3359	0.4002	0.1726	0.0331	NF	NF						
10	0.4188	0.4027	0.1734	0.0129	NF	NF						
11	0.4458	0.3863	0.1733	0.0084	NF	NF						
12	0.4433	0.3698	0.1710	NF	NF	NF						
13	0.4196	0.3615	0.1642	NF	NF	NF						
14	0.3964	0.3527	0.1568	NF	NF	NF						
15	0.3794	0.3370	0.1527	NF	NF	NF						
16	0.3686	0.2883	0.1537	NF	NF	NF						
17	0.3774	0.3105	0.1529	NF	NF	NF						
18	0.4122	0.2948	0.1465	NF	NF	NF						
19	0.4376	0.2871	0.1406	NF	NF	NF						
20	0.4568	0.2777	0.1365	NF	NF	NF						
21	0.4768	0.2676	0.1379	NF	NF	NF						
22	0.4995	0.2578	0.1374	NF	NF	NF						
23	0.4859	0.2515	0.1296	NF	NF	NF						
24	0.4688	0.2473	0.1230	NF	NF	NF						
25	0.4562	0.2436	0.1218	NF	NF	NF						
26	0.4367	0.2369	0.1178	NF	NF	NF						
27	0.4230	0.2280	0.1110	NF	NF	NF						
28	0.4100	0.2241	0.1020	NF	NF	NF						
29	0.3902	0.2190	0.0951	NF	NF	NF						
30	0.3724	0.2106	0.0908	NF	NF	NF						
31		0.1908		NF	NF							
Notes: Flow curve is being developed.												

Appendix 1 - Tables

Table 30 Flow Tables LLS, LLSM, 7S, WA, WB, LLO and IR8 7 Page(s)

5 in 30 Flow Requirements									
EMS ID: E297232									
Site		IR8							
Average Level (m)							Oct	Nov	Dec
Date	Apr	May	June	July	Aug	Sep	Unable to retrieve the flow information due to snow. Data will be supplied with Q4.		
1	0.91	1.16	0.81	0.67	0.63	0.58			
2	0.90	1.17	0.79	0.67	0.63	0.59			
3	0.89	1.20	0.79	0.66	0.64	0.61			
4	0.88	1.18	0.78	0.66	0.64	0.64			
5	0.88	1.23	0.77	0.66	0.63	0.61			
6	0.90	1.24	0.77	0.66	0.63	0.61			
7	0.98	1.24	0.76	0.57	0.64	0.72			
8	1.01	1.21	0.75	0.52	0.66	0.64			
9	1.20	1.19	0.75	0.66	0.70	0.60			
10	1.31	1.17	0.75	0.65	0.70	0.58			
11	1.16	1.13	0.74	0.65	0.68	0.58			
12	1.10	1.13	0.74	0.64	0.67	0.62			
13	1.06	1.15	0.73	0.64	0.66	0.65			
14	1.03	1.15	0.72	0.64	0.65	0.65			
15	1.01	1.14	0.72	0.64	0.65	0.64			
16	1.01	1.09	0.72	0.64	0.63	0.65			
17	1.03	1.10	0.72	0.64	0.64	0.64			
18	1.06	1.06	0.71	0.64	0.61	0.64			
19	1.08	1.03	0.70	0.64	0.58	0.65			
20	1.11	1.00	0.70	0.64	0.58	0.67			
21	1.14	0.98	0.70	0.64	0.55	0.66			
22	1.12	0.95	0.70	0.63	0.54	0.66			
23	1.10	0.93	0.69	0.64	0.62	0.62			
24	1.09	0.91	0.69	0.64	0.60	0.65			
25	1.08	0.90	0.69	0.65	0.59	0.64			
26	1.11	0.89	0.68	0.65	0.61	0.75			
27	1.15	0.88	0.68	0.65	0.64	0.72			
28	1.15	0.86	0.67	0.64	0.70	0.76			
29	1.19	0.85	0.67	0.64	0.71	0.75			
30	1.20	0.83	0.67	0.64	0.62	0.77			
31		0.80		0.64	0.60				
Notes: Flow curve is being developed.									

Appendix 1 - Tables

Table 31 Precipitation 1 Page(s)

Daily Precipitation (mm)									
DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.0	0.0	0.0	0.0	1.1	2.6	0.0	0.0	1.9
2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	9.0	6.0
3	0.0	0.0	0.0	0.0	0.7	0.0	16.4	7.6	3.7
4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.3	3.8
5	1.1	19.0	0.0	0.0	0.0	0.0	0.0	12.7	37.1
6	9.0	5.0	0.0	0.0	0.0	0.7	0.1	1.8	0.6
7	0.6	1.5	0.0	0.0	0.1	0.3	0.1	11.6	0.4
8	0.5	0.4	0.0	0.0	0.0	0.1	0.1	0.3	0.1
9	23.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.1
10	1.6	0.0	2.8	0.0	3.1	0.0	7.6	3.7	7.4
11	1.9	0.0	0.0	0.0	0.0	0.0	8.0	20.9	4.1
12	0.0	0.0	0.0	0.0	0.2	3.3	6.7	18.4	0.1
13	0.7	0.0	0.0	0.0	0.1	4.5	0.1	22.7	0.3
14	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	12.7
15	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	4.4
16	0.8	0.0	0.4	0.0	0.0	0.0	3.7	1.1	0.8
17	18.7	0.0	0.0	0.1	0.0	0.0	18.6	0.2	2.6
18	5.6	0.0	4.7	0.0	0.0	2.1	12.3	0.0	4.7
19	0.4	0.0	0.0	0.0	0.0	0.1	31.5	0.6	9.4
20	12.7	0.0	0.0	0.0	0.0	12.0	0.4	0.3	4.9
21	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	1.0
23	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3
24	0.2	0.0	0.0	0.2	2.5	0.4	0.0	0.1	0.0
25	0.0	0.0	0.0	3.9	0.0	9.4	4.9	0.1	0.0
26	6.4	0.0	0.0	1.7	0.0	20.4	21.6	0.0	71.7
27	0.0	0.0	0.0	0.0	0.0	3.0	0.1	0.1	7.8
28	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	47.3
29	0.0	0.0	0.0	0.0	0.6	1.1	0.0	0.0	18.5
30	0.0	0.0	0.0	0.2	2.6	0.2	0.0	0.0	6.5
31		0.0		0.0	4.2		0.1		11.0
Monthly Total (mm)	84.80	25.90	7.90	6.10	30.70	63.80	138.20	134.60	270.70
Quarterly Total (mm)	118.60				100.60		Quarterly Total (mm)	543.50	

Appendix 1 - Tables

Table 32 Groundwater Description 1 Page(s)

Groundwater Wells - Description				
Area	Groundwater ID	In-situ / Ex-situ	Screened Interval	Comment
2-North	1 Mains 2-North (1M2N)	In-situ	No. 1 Seam	Flooded depillared mine void in 1-Mains Area, dewatering well
	5 Mains#2 (5M#2)	In-situ	No. 1 Seam	Flooded depillared mine void in 5-Mains Area, dewatering well
	3 Mains 2-North (3M2N)	In-situ	No. 1 Seam	Flooded depillared mine void in 3-Mains Area, underground pump system
	QU08-21GD	Ex-situ	No. 1 Seam	Down gradient of u/g tailings disposal, measures water quality and hydraulic head downgradient from forjan fault
	QU08-21GS	Ex-situ	No. 4 Coal Seam and No. 1 Seam	
	QU10-10D	Ex-situ	No. 1 Seam / mudstone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head, downgradient of 2 North workings
	QU10-10S	Ex-situ	No. 4 Seam /	
	QU10-11S	Ex-situ	Fractured Sandstone	Measures water quality and hydraulic gradient in Forjan Fault
	QU10-11D	Ex-situ	No.1 Seam	Down gradient of u/g tailings disposal, measures water quality and hydraulic head, downgradient of 2 North workings
	QU10-13D	In-situ	Caved Zone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head, downgradient of 2-North workings
5-South MineVoid	QU0516W	In-situ	Flooded Mine Void (1 Seam)	5-South Flooded Mine Void
River Barrier Pillar (RBP)	QU11-05S	Ex-situ	Sandstone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head, down gradient of 2-North workings
	QU11-05D	Ex-situ	Sandstone	Monitoring water quality and vertical gradients from of the RBP and 2-North mine.
	QU11-09S	Ex-situ	Sandstone	Monitoring water quality & upward vertical gradients of the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar
	QU11-09M	In-situ	RBP Mine Pool	Monitoring water quality in the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar.
2-North Plant Site	MW-00-1S	Ex-situ	Till	Shallow groundwater below coal pad
	MW-00-1D	Ex-situ	1-Seam	Deeper groundwater below the coal pad
	MW-00-6D	Ex-situ	Till	Deeper groundwater below the coal pad
	MW-00-6S	Ex-situ	Till	Shallow groundwater below coal pad
4-South	QU10-08D	Ex-situ	No. 3 Seam	4-South (just outside mine pool) up gradient of existing workings
	QU11-01	In-Situ	Foot print area of 4 South GOB	Assess 4-South flooded mine void water quality
	QU10-09S	Ex-situ	Down gradient of existing workings	Assess shallow vertical gradients and water quality adjacent to Long Lake
	QU10-09D	Ex-situ	Down gradient of existing workings	Assess deeper vertical gradients and water quality adjacent to Long Lake
2-South & 3-South	MW002	Ex-situ	1 Seam	3-South pit shallow groundwater
	MW004	In-Situ	Mine Pool (1 Seam)	2-South flooded mine void gob depillared area
	MW005	In-Situ	Mine Pool (1 Seam)	2-South mine pool gob depillared area
	QU11-11 (INF)	In-Situ	Mine Pool (1 Seam)	2-South mine pool dewatering well for Passive Treatment System
7-South	1M7SA5	In-Situ	No. 4 Coal Seam	Underground Sump
	QU08-10	Ex-situ	No. 4 Coal Seam	Downgradient of 7S - Screened No. 3 Coal - Southern margin of workings
	QU08-13A	Ex-situ	No. 4 Coal Seam	Downgradient of the CCR backfill towards QR
	QU08-13B	Ex-situ	Till & SST contact	Downgradient of the CCR backfill towards QR
	QU14-10	In-Situ	Mine Void	PAG-CCR water coover in mine void
7- South Area 5 242 AREA	7SA5	In-Situ	Sump	Underground Sump
	QU11-35	Ex-situ	Sandstone above No. 4 Seam	South end of 7SA5 footprint at 100280m N (mine grid)
	QU11-36S	Ex-situ	Sandstone below No. 5 seam	Downgradient of 7SA5
	QU11-36D	Ex-situ	Sandstone below No. 5 seam	Downgradient of 7SA5
	242MW	In-situ	No. 4 Seam	Mine pool

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

Description		2 - 3 North GW	
Well ID		QU0821GS	QU0821GD
Station Type		Ex-Situ GW	
Top Elev.		215.4279556	215.4279556
Bottom Elev.		135.1279556	39.6279556
Water Level (m)		At Surface	
Parameter	Units	16-Oct-23	16-Oct-23
SO4-D	mg/L	1280	<1.0
H2SEquiv	mg/L	0.02	0.0595
Cond-F	uS/cm	1084.9	4360.4
pH-F	pH Units	7.98	7.48
Temp-F	C	12.388	10.957
DO-F	mg/L	-0.65	-0.52
ORP-F	mV	-157.2	-140.3
Turb	NTU	2.9	21
Alk-T	mg/L	190	200
Acidity83	mg/L	8.8	17.1
N-D	mg/L	0.281	0.570
DOC	mg/L	1.0	0.86
Hydrox	mg/L	<1.0	<1.0
Bicarb	mg/L	240	250
Carb	mg/L	<1.0	<1.0
Cl-D	mg/L	1500	190
F-D	mg/L	1.6	0.90
Flu-CSR*	mg/L	3.00	3.00
Br-D	mg/L	0.291	1.69
P-D	mg/L	0.11	0.12
Al-D	mg/L	0.0032	<0.015
Ag-D	mg/L	<0.000020	<0.00010
Ag-CSR*	mg/L	0.000500	0.0150
As-D	mg/L	0.05	0.187
Ba-D	mg/L	10	0.670
B-D	mg/L	50	2.06
Be-D	mg/L	0.053	<0.00010
Bi-D	mg/L	<0.0010	<0.0050
Cd-D	mg/L	<0.000010	<0.000050
Cd-CSR*	mg/L	0.000500	0.000600
Ca-D	mg/L	28.5	141
Cr-D	mg/L	0.01	<0.0010
Co-D	mg/L	0.009	<0.00020
Cu-D	mg/L	<0.00020	<0.0010
Cu-CSR*	mg/L	0.0400	0.0900
Fe-D	mg/L	0.340	1.94
Hard-D	mg/L	93.2	421
Pb-D	mg/L	<0.00020	<0.0010
Pb-CSR*	mg/L	0.0500	0.160
Mg-D	mg/L	5.35	17.0
Mn-D	mg/L	0.0634	0.160
Hg-D	mg/L	0.001	
Na-D	mg/L	176	688
Mo-D	mg/L	10	<0.0010
Ni-D	mg/L	<0.0010	<0.0050
Ni-CSR*	mg/L	0.650	1.50
K-D	mg/L	4.56	10.3
S-D	mg/L	<3.0	<15
Sb-D	mg/L	0.2	<0.00050
Se-D	mg/L	0.01	<0.00010
Si-D	mg/L	3.62	4.65
Sr-D	mg/L	0.734	2.92
Ti-D	mg/L	0.003	<0.000010
Ti-D	mg/L	1	<0.0050
U-D	mg/L	3	<0.00010
V-D	mg/L	<0.0050	<0.025
Zn-D	mg/L	<0.0050	<0.025
Zn-CSR*	mg/L	0.150	2.400

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

		Description	RBP and 2 North GW		RBP and 2 North Shallow GW
		Well ID	QU1105S	QU1105D	QU1109S
		Station Type	Ex-Situ GW		Ex-Situ GW
		Top Elev.	228.95	228.95	226.897
		Bottom Elev.	195.383	98.65	202.097
		Water Level (m)	21.33	23.74	5.34
Parameter	Units	CSR-AL	8-Nov-23	8-Nov-23	2-Nov-23
S04-D	mg/L	1280	55	220	100
H2Sequiv	mg/L	0.02	0.138	47.8	0.627
Cond-F	uS/cm		263.2	4551.3	1289.4
pH-F	pH Units		7.39	7.64	7.96
Temp-F	C		9.781	9.076	8.596
DO-F	mg/L		-0.66	-0.65	-0.6
ORP-F	mV		-255.2	-334.2	-246.7
Turb	NTU		0.81	1.9	18
Alk-T	mg/L		79	370	480
Acidity83	mg/L		<1.0	<1.0	<1.0
N-D	mg/L		0.122	0.434	0.492
DOC	mg/L		1.3	3.9	1.2
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		96	400	540
Carb	mg/L		<1.0	24	21
Cl-D	mg/L	1500	<1.0	1200	52
F-D	mg/L		0.12	<0.050	0.74
Flu-CSR*	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.010	2.18	<0.10
P-D	mg/L		0.012	0.24	0.092
Al-D	mg/L		<0.0030	0.0108	<0.0060
Ag-D	mg/L		<0.000020	<0.000040	<0.000040
Ag-CSR*	mg/L		0.000500	0.0150	0.000500
As-D	mg/L	0.05	0.0268	0.00141	0.0789
Ba-D	mg/L	10	0.0790	0.135	0.0520
B-D	mg/L	50	0.177	0.53	2.16
Be-D	mg/L	0.053	<0.00010	<0.00020	<0.00020
Bi-D	mg/L		<0.0010	<0.0020	<0.0020
Cd-D	mg/L		<0.000010	<0.000020	<0.000020
Cd-CSR*	mg/L		0.000300	0.000600	0.000300
Ca-D	mg/L		25.0	139	15.1
Cr-D	mg/L	0.01	<0.0010	<0.0020	<0.0020
Co-D	mg/L	0.009	<0.00020	<0.00040	<0.00040
Cu-D	mg/L		<0.00020	<0.00040	<0.00040
Cu-CSR*	mg/L		0.0400	0.0900	0.0300
Fe-D	mg/L		0.271	0.014	0.098
Hard-D	mg/L		78.8	367	52.3
Pb-D	mg/L		<0.00020	<0.00040	<0.00040
Pb-CSR*	mg/L		0.0500	0.160	0.0500
Mg-D	mg/L		3.96	5.03	3.57
Mn-D	mg/L		0.0357	0.0927	0.0189
Hg-D	mg/L	0.001			
Na-D	mg/L		23.6	949	278
Mo-D	mg/L	10	<0.0010	<0.0020	<0.0020
Ni-D	mg/L		<0.0010	<0.0020	<0.0020
Ni-CSR*	mg/L		0.650	1.50	0.250
K-D	mg/L		1.21	5.05	3.49
S-D	mg/L		20.5	1200	42.9
Sb-D	mg/L	0.2	<0.00050	<0.0010	<0.0010
Se-D	mg/L	0.01	0.00012	0.0387	0.00059
Si-D	mg/L		2.73	6.20	5.87
Sr-D	mg/L		0.232	1.81	0.312
Ti-D	mg/L	0.003	<0.000010	<0.000020	<0.000020
Ti-D	mg/L	1	<0.0050	<0.010	<0.010
U-D	mg/L	3	<0.00010	<0.00020	<0.00020
V-D	mg/L		<0.0050	<0.010	<0.010
Zn-D	mg/L		<0.0050	<0.010	<0.010
Zn-CSR*	mg/L		0.075	2.400	0.075

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

Description		Below Coal Pad - shallow and deep GW		
Well ID		MW006S	MW006D	
Station Type		Ex-situ GW	Ex-Situ GW	
Top Elev.		312.3	312.3	
Bottom Elev.		303.6	294.3	
Water Level (m)		1.76	1.52	
Parameter	Units	CSR-AL	30-Nov-23	30-Nov-23
SO4-D	mg/L	1280	490	11
H2SEquiv	mg/L	0.02	0.000957	0.149
Cond-F	uS/cm		1281.4	171.6
pH-F	pH Units		7.38	8.62
Temp-F	C		8.313	8.098
DO-F	mg/L		-0.11	-0.19
ORP-F	mV		37.2	23.8
Turb	NTU		0.68	1.0
Alk-T	mg/L		150	78
Acidity83	mg/L		<1.0	<1.0
N-D	mg/L		0.487	0.321
DOC	mg/L		2.0	0.89
Hydrox	mg/L		<1.0	<1.0
Bicarb	mg/L		190	95
Carb	mg/L		<1.0	<1.0
Cl-D	mg/L	1500	2.4	<1.0
F-D	mg/L		0.057	0.091
Flu-CSR*	mg/L		3.00	2.00
Br-D	mg/L		0.014	<0.010
P-D	mg/L		0.063	0.15
Al-D	mg/L		0.0034	0.0228
Ag-D	mg/L		<0.000020	<0.000020
Ag-CSR*	mg/L		0.0150	0.000500
As-D	mg/L	0.05	0.00243	0.0281
Ba-D	mg/L	10	0.0290	0.0110
B-D	mg/L	50	0.141	0.054
Be-D	mg/L	0.053	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010
Cd-D	mg/L		0.000024	<0.000010
Cd-CSR*	mg/L		0.000600	0.000300
Ca-D	mg/L		117	17.5
Cr-D	mg/L	0.01	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00020	<0.00020
Cu-D	mg/L		0.00074	0.00052
Cu-CSR*	mg/L		0.0900	0.0200
Fe-D	mg/L		0.0147	<0.0050
Hard-D	mg/L		338	45.8
Pb-D	mg/L		<0.00020	<0.00020
Pb-CSR*	mg/L		0.160	0.0400
Mg-D	mg/L		11.1	0.530
Mn-D	mg/L		0.0611	0.0041
Hg-D	mg/L	0.001		
Na-D	mg/L		142	20.2
Mo-D	mg/L	10	0.0271	0.0031
Ni-D	mg/L		0.0010	<0.0010
Ni-CSR*	mg/L		1.50	0.250
K-D	mg/L		2.09	0.773
S-D	mg/L		178	3.6
Sb-D	mg/L	0.2	<0.00050	<0.00050
Se-D	mg/L	0.01	0.00027	<0.00010
Si-D	mg/L		4.85	3.94
Sr-D	mg/L		0.715	0.0807
Tl-D	mg/L	0.003	0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050
U-D	mg/L	3	0.00674	0.00062
V-D	mg/L		<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050
Zn-CSR*	mg/L		2.400	0.075

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

		Description	Ex-situ 7-South	
		Well ID	QU0813A	QU0813B
		Station Type	Ex-Situ GW	Ex-Situ GW
		Top Elev.	221.0979556	221.0979556
		Bottom Elev.	168.9979556	194.6979556
		Water Level (m)	13.15	14.93
Parameter	Units	CSR-AL	24-Oct-23	18-Oct-23
SO4-D	mg/L	1280	55	53
H2SEquiv	mg/L	0.02	0.234	0.0105
Cond-F	uS/cm		537.4	333.5
pH-F	pH Units		7.63	8
Temp-F	C		6.848	9.334
DO-F	mg/L		-0.64	-0.43
ORP-F	mV		-150	-141.1
Turb	NTU		3.0	6.9
Alk-T	mg/L		210	130
Acidity83	mg/L		<1.0	12.5
N-D	mg/L		0.365	0.330
DOC	mg/L		0.94	1.0
Hydrox	mg/L		<1.0	<1.0
Bicarb	mg/L		250	160
Carb	mg/L		<1.0	<1.0
Cl-D	mg/L	1500	13	<1.0
F-D	mg/L		0.69	0.38
Flu-CSR*	mg/L		3.00	3.00
Br-D	mg/L		0.027	<0.010
P-D	mg/L		0.058	0.20
Al-D	mg/L		<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020
Ag-CSR*	mg/L		0.0150	0.0150
As-D	mg/L	0.05	0.400	0.555
Ba-D	mg/L	10	0.178	0.0624
B-D	mg/L	50	0.813	0.324
Be-D	mg/L	0.053	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010
Cd-CSR*	mg/L		0.000600	0.000500
Ca-D	mg/L		44.6	35.5
Cr-D	mg/L	0.01	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020
Cu-CSR*	mg/L		0.0700	0.0500
Fe-D	mg/L		0.204	0.186
Hard-D	mg/L		153	115
Pb-D	mg/L		<0.00020	<0.00020
Pb-CSR*	mg/L		0.0600	0.0600
Mg-D	mg/L		10.2	6.31
Mn-D	mg/L		0.0355	0.0825
Hg-D	mg/L	0.001		
Na-D	mg/L		62.3	26.2
Mo-D	mg/L	10	<0.0010	0.0022
Ni-D	mg/L		<0.0010	<0.0010
Ni-CSR*	mg/L		1.10	0.650
K-D	mg/L		2.64	1.49
S-D	mg/L		20.0	17.8
Sb-D	mg/L	0.2	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010
Si-D	mg/L		4.47	4.43
Sr-D	mg/L		0.659	0.297
Ti-D	mg/L	0.003	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050
Zn-CSR*	mg/L		0.900	0.900

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

Description		2 North Flooded Mine Void		2 North Flooded Mine Void	
Well ID		5M#2	5M#2	1M2N	
Station Type		In-Situ	In-Situ	In-Situ	
Top Elev.		268.22	268.22	262.43	
Bottom Elev.		138.69	138.69	110	
Water Level (m)					
Parameter	Units	CSR-AL	24-Oct-23	23-Nov-23	27-Nov-23
SO4-D	mg/L	1280	160	160	210
H2SEquiv	mg/L	0.02	0.0276	0.0223	0.0680
Cond-F	uS/cm		1416		1246.4
pH-F	pH Units		7.36		7.17
Temp-F	C		9		11.166
DO-F	mg/L				
ORP-F	mV				
Turb	NTU		4.8	7.7	17
Alk-T	mg/L		560	580	440
Acidity83	mg/L		3.8	<1.0	4.1
N-D	mg/L		0.368	0.367	0.255
DOC	mg/L		0.75	0.66	1.2
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		690	710	540
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	22	20	21
F-D	mg/L		<0.050	0.055	0.19
Flu-CSR*	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.10	0.033	0.041
P-D	mg/L		<0.0030	<0.0030	<0.0030
Al-D	mg/L		0.0311	<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR*	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00684	0.00864	0.00694
Ba-D	mg/L	10	0.0345	0.0318	0.0265
B-D	mg/L	50	1.01	0.910	0.844
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	<0.000010
Cd-CSR*	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		73.1	66.8	58.2
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	0.00040	<0.00020
Cu-CSR*	mg/L		0.0900	0.0800	0.0700
Fe-D	mg/L		0.738	0.842	1.62
Hard-D	mg/L		206	191	173
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR*	mg/L		0.110	0.0600	0.0600
Mg-D	mg/L		5.79	5.84	6.70
Mn-D	mg/L		0.157	0.148	0.174
Hg-D	mg/L	0.001			
Na-D	mg/L		264	256	233
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010
Ni-CSR*	mg/L		1.50	1.50	1.10
K-D	mg/L		2.98	2.62	3.58
S-D	mg/L		57.2	58.4	74.2
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.90	3.19	3.57
Sr-D	mg/L		0.809	0.754	0.573
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-CSR*	mg/L		1.650	0.900	0.900

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

		Description	3-Mains 2 North	
		Well ID	3M2N	3M2N
		Station Type	In-Situ	In-Situ
		Top Elev.		
		Bottom Elev.		
		Water Level (m)		
Parameter	Units	CSR-AL	17-Oct-23	14-Nov-23
SO4-D	mg/L	1280	810	850
H2SEquiv	mg/L	0.02		
Cond-F	uS/cm		2330	270
pH-F	pH Units		7.21	6.97
Temp-F	C		14	12.7
DO-F	mg/L			
ORP-F	mV			
Turb	NTU		13	4.3
Alk-T	mg/L		390	390
Acidity83	mg/L		10.0	<1.0
N-D	mg/L		0.251	0.496
DOC	mg/L		0.64	0.89
Hydrox	mg/L		<1.0	<1.0
Bicarb	mg/L		480	470
Carb	mg/L		<1.0	<1.0
Cl-D	mg/L	1500	3.6	3.7
F-D	mg/L		0.14	0.13
Flu-CSR*	mg/L		3.00	3.00
Br-D	mg/L		<0.10	<0.10
P-D	mg/L		<0.0030	<0.0030
Al-D	mg/L		<0.0060	<0.0060
Ag-D	mg/L		<0.000040	<0.000040
Ag-CSR*	mg/L		0.0150	0.0150
As-D	mg/L	0.05	0.00032	0.00045
Ba-D	mg/L	10	0.0158	0.0154
B-D	mg/L	50	0.85	0.88
Be-D	mg/L	0.053	<0.00020	<0.00020
Bi-D	mg/L		<0.0020	<0.0020
Cd-D	mg/L		<0.000020	<0.000020
Cd-CSR*	mg/L		0.000600	0.000600
Ca-D	mg/L		163	159
Cr-D	mg/L	0.01	<0.0020	<0.0020
Co-D	mg/L	0.009	0.00074	0.00043
Cu-D	mg/L		0.00075	0.00040
Cu-CSR*	mg/L		0.0900	0.0900
Fe-D	mg/L		0.021	0.240
Hard-D	mg/L		501	487
Pb-D	mg/L		<0.00040	<0.00040
Pb-CSR*	mg/L		0.160	0.160
Mg-D	mg/L		22.9	21.7
Mn-D	mg/L		0.195	0.139
Hg-D	mg/L	0.001		
Na-D	mg/L		356	378
Mo-D	mg/L	10	<0.0020	<0.0020
Ni-D	mg/L		<0.0020	<0.0020
Ni-CSR*	mg/L		1.50	1.50
K-D	mg/L		3.84	3.64
S-D	mg/L		297	317
Sb-D	mg/L	0.2	<0.0010	<0.0010
Se-D	mg/L	0.01	<0.00020	<0.00020
Si-D	mg/L		3.39	3.42
Sr-D	mg/L		1.61	1.65
Tl-D	mg/L	0.003	<0.000020	<0.000020
Ti-D	mg/L	1	<0.010	<0.010
U-D	mg/L	3	<0.00020	<0.00020
V-D	mg/L		<0.010	<0.010
Zn-D	mg/L		<0.010	<0.010
Zn-CSR*	mg/L		2.400	2.400

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

Description		2 South Flooded Mine Void Well Pump				
		Well ID	INF	INF	INF-Rep	INF
		Station Type	In-Situ	In-Situ	In-Situ	In-Situ
		Top Elev.	353.5	353.5	353.5	353.5
		Bottom Elev.	291	291	291	291
Water Level (m)		4.8	5.9	5.9	7.3	
Parameter	Units	CSR-AL	3-Oct-23	6-Nov-23	6-Nov-23	5-Dec-23
SO4-D	mg/L	1280	560	560	560	680
H2SEquiv	mg/L	0.02	0.00319	0.00361	0.00319	0.000957
Cond-F	uS/cm		1477	1623	1623	1645.3
pH-F	pH Units		6.8	7	7	6.94
Temp-F	C		10	8.4	8.4	8.217
DO-F	mg/L					
ORP-F	mV					
Turb	NTU		37			
Alk-T	mg/L		260	260	260	240
Acidity83	mg/L		12.0	35.2	19.6	8.7
N-D	mg/L					
DOC	mg/L					
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		320	310	310	300
Carb	mg/L		<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500				
F-D	mg/L					
Flu-CSR*	mg/L		3.00	3.00	3.00	3.00
Br-D	mg/L					
P-D	mg/L					
Al-D	mg/L		<0.0030	<0.0060	<0.0060	<0.0060
Ag-D	mg/L		<0.000020	<0.000040	<0.000040	<0.000040
Ag-CSR*	mg/L		0.0150	0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00437	0.00400	0.00402	0.00492
Ba-D	mg/L	10	0.0184	0.0184	0.0183	0.0213
B-D	mg/L	50	0.731	0.69	0.70	0.79
Be-D	mg/L	0.053	<0.00010	<0.00020	<0.00020	<0.00020
Bi-D	mg/L		<0.0010	<0.0020	<0.0020	<0.0020
Cd-D	mg/L		<0.000010	<0.000020	<0.000020	<0.000020
Cd-CSR*	mg/L		0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L		220	219	225	263
Cr-D	mg/L	0.01	<0.0010	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.009	0.00039	0.00046	0.00048	0.00049
Cu-D	mg/L		<0.00020	<0.00040	<0.00040	<0.00040
Cu-CSR*	mg/L		0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L		3.08	3.04	3.12	3.64
Hard-D	mg/L		616	611	627	740
Pb-D	mg/L		<0.00020	<0.00040	<0.00040	<0.00040
Pb-CSR*	mg/L		0.160	0.160	0.160	0.160
Mg-D	mg/L		16.1	15.8	15.9	19.9
Mn-D	mg/L		0.328	0.344	0.345	0.445
Hg-D	mg/L	0.001				
Na-D	mg/L		108	106	107	106
Mo-D	mg/L	10	<0.0010	<0.0020	<0.0020	<0.0020
Ni-D	mg/L		<0.0010	<0.0020	<0.0020	<0.0020
Ni-CSR*	mg/L		1.50	1.50	1.50	1.50
K-D	mg/L		1.96	1.92	1.95	2.20
S-D	mg/L		222	202	205	250
Sb-D	mg/L	0.2	<0.00050	<0.0010	<0.0010	<0.0010
Se-D	mg/L	0.01	<0.00010	<0.00020	<0.00020	0.00021
Si-D	mg/L		3.19	3.25	3.31	3.39
Sr-D	mg/L		2.12	1.99	1.96	2.45
Tl-D	mg/L	0.003	<0.000010	<0.000020	<0.000020	<0.000020
Ti-D	mg/L	1	<0.0050	<0.010	<0.010	<0.010
U-D	mg/L	3	<0.00010	<0.00020	<0.00020	<0.00020
V-D	mg/L		<0.0050	<0.010	<0.010	<0.010
Zn-D	mg/L		<0.0050	<0.010	<0.010	<0.010
Zn-CSR*	mg/L		2.400	2.400	2.400	2.400

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

		Description	3-South Pit	2 / 3 South Flooded Mine Void
		Well ID	MW002	MW004
		Station Type	Ex-Situ	In-Situ
		Top Elev.	325	347.8
		Bottom Elev.	318.2	298.1
		Water Level (m)	3.66	46.38
Parameter	Units	CSR-AL	28-Nov-23	28-Nov-23
SO4-D	mg/L	1280	1200	350
H2SEquiv	mg/L	0.02	0.000957	0.000957
Cond-F	uS/cm		2334	866.3
pH-F	pH Units		6.74	6.67
Temp-F	C		10.8	6.942
DO-F	mg/L		0.74	4.3
ORP-F	mV		62.8	152.1
Turb	NTU		22	1.8
Alk-T	mg/L		270	85
Acidity83	mg/L		11.2	1.9
N-D	mg/L		0.291	0.210
DOC	mg/L		0.98	2.8
Hydrox	mg/L		<1.0	<1.0
Bicarb	mg/L		330	100
Carb	mg/L		<1.0	<1.0
Cl-D	mg/L	1500	1.2	<1.0
F-D	mg/L		0.11	0.064
Flu-CSR*	mg/L		3.000	3.00
Br-D	mg/L		<0.10	<0.010
P-D	mg/L		0.0032	<0.0030
Al-D	mg/L		<0.015	0.0080
Ag-D	mg/L		<0.00010	<0.000020
Ag-CSR*	mg/L		0.01500	0.0150
As-D	mg/L	0.05	0.00226	0.00042
Ba-D	mg/L	10	0.0137	0.0265
B-D	mg/L	50	0.74	0.240
Be-D	mg/L	0.053	<0.00050	<0.00010
Bi-D	mg/L		<0.0050	<0.0010
Cd-D	mg/L		<0.000050	<0.000010
Cd-CSR*	mg/L		0.0006000	0.000600
Ca-D	mg/L		466	137
Cr-D	mg/L	0.01	<0.0050	<0.0010
Co-D	mg/L	0.009	0.0028	<0.00020
Cu-D	mg/L		<0.0010	0.00138
Cu-CSR*	mg/L		0.09000	0.0900
Fe-D	mg/L		4.99	0.0074
Hard-D	mg/L		1370	409
Pb-D	mg/L		<0.0010	<0.00020
Pb-CSR*	mg/L		0.1600	0.160
Mg-D	mg/L		50.2	16.3
Mn-D	mg/L		1.49	0.0027
Hg-D	mg/L	0.001		
Na-D	mg/L		53.4	36.1
Mo-D	mg/L	10	<0.0050	<0.0010
Ni-D	mg/L		<0.0050	<0.0010
Ni-CSR*	mg/L		1.500	1.50
K-D	mg/L		5.74	1.51
S-D	mg/L		436	140
Sb-D	mg/L	0.2	<0.0025	<0.00050
Se-D	mg/L	0.01	<0.00050	<0.00010
Si-D	mg/L		3.86	3.78
Sr-D	mg/L		4.36	1.13
Tl-D	mg/L	0.003	<0.000050	<0.000010
Ti-D	mg/L	1	<0.025	<0.0050
U-D	mg/L	3	<0.00050	<0.00010
V-D	mg/L		<0.025	<0.0050
Zn-D	mg/L		<0.025	0.0060
Zn-CSR*	mg/L		2.400	2.400

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

Description		2-North Flooded Mine Void		
Well ID		QU1013D	QU1013D-Rep	
Station Type		In-Situ	In-Situ	
Top Elev.		270.68	270.68	
Bottom Elev.		127.68	127.68	
Water Level (m)		66.47	66.47	
Parameter	Units	CSR-AL	23-Nov-23	23-Nov-23
SO4-D	mg/L	1280	170	170
H2SEquiv	mg/L	0.02	0.128	0.149
Cond-F	uS/cm		1343.9	1343.9
pH-F	pH Units		7.11	7.11
Temp-F	C		7.68	7.68
DO-F	mg/L		-0.35	-0.35
ORP-F	mV		-180.2	-180.2
Turb	NTU		4.3	5.6
Alk-T	mg/L		520	520
Acidity83	mg/L		<1.0	<1.0
N-D	mg/L		0.353	0.413
DOC	mg/L		1.1	1.3
Hydrox	mg/L		<1.0	<1.0
Bicarb	mg/L		630	630
Carb	mg/L		<1.0	<1.0
Cl-D	mg/L	1500	33	33
F-D	mg/L		0.18	0.18
Flu-CSR*	mg/L		3.00	3.00
Br-D	mg/L		<0.10	<0.10
P-D	mg/L		0.0054	0.020
Al-D	mg/L		0.0062	<0.0030
Ag-D	mg/L		<0.000020	<0.000020
Ag-CSR*	mg/L		0.0150	0.0150
As-D	mg/L	0.05	0.00085	0.00088
Ba-D	mg/L	10	0.0425	0.0412
B-D	mg/L	50	1.12	1.01
Be-D	mg/L	0.053	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010
Cd-CSR*	mg/L		0.000500	0.000500
Ca-D	mg/L		42.5	39.7
Cr-D	mg/L	0.01	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020
Cu-CSR*	mg/L		0.0500	0.0500
Fe-D	mg/L		0.638	0.616
Hard-D	mg/L		122	114
Pb-D	mg/L		<0.00020	<0.00020
Pb-CSR*	mg/L		0.0600	0.0600
Mg-D	mg/L		3.87	3.64
Mn-D	mg/L		0.158	0.145
Hg-D	mg/L	0.001		
Na-D	mg/L		300	291
Mo-D	mg/L	10	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010
Ni-CSR*	mg/L		1.10	0.650
K-D	mg/L		3.04	3.00
S-D	mg/L		63.0	64.8
Sb-D	mg/L	0.2	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	0.00021
Si-D	mg/L		4.05	3.48
Sr-D	mg/L		0.457	0.483
Tl-D	mg/L	0.003	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050
Zn-CSR*	mg/L		0.900	0.900

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

		Description	RBP- Water Cover Over PAG-CCR
		Well ID	QU1109M
		Station Type	In-Situ
		Top Elev.	226.897
		Bottom Elev.	143.032
		Water Level (m)	26.29
Parameter	Units	CSR-AL	2-Nov-23
SO4-D	mg/L	1280	450
H2SEquiv	mg/L	0.02	0.0553
Cond-F	uS/cm		1896.7
pH-F	pH Units		7.15
Temp-F	C		8.461
DO-F	mg/L		-0.31
ORP-F	mV		-119.3
Turb	NTU		92
Alk-T	mg/L		460
Acidity83	mg/L		18.3
N-D	mg/L		0.424
DOC	mg/L		0.88
Hydrox	mg/L		<1.0
Bicarb	mg/L		560
Carb	mg/L		<1.0
Cl-D	mg/L	1500	28
F-D	mg/L		0.12
Flu-CSR*	mg/L		3.00
Br-D	mg/L		<0.10
P-D	mg/L		0.0041
Al-D	mg/L		<0.0060
Ag-D	mg/L		<0.000040
Ag-CSR*	mg/L		0.0150
As-D	mg/L	0.05	0.00168
Ba-D	mg/L	10	0.0183
B-D	mg/L	50	0.94
Be-D	mg/L	0.053	<0.00020
Bi-D	mg/L		<0.0020
Cd-D	mg/L		<0.000020
Cd-CSR*	mg/L		0.000600
Ca-D	mg/L		89.2
Cr-D	mg/L	0.01	<0.0020
Co-D	mg/L	0.009	<0.00040
Cu-D	mg/L		<0.00040
Cu-CSR*	mg/L		0.0900
Fe-D	mg/L		6.62
Hard-D	mg/L		267
Pb-D	mg/L		<0.00040
Pb-CSR*	mg/L		0.110
Mg-D	mg/L		10.8
Mn-D	mg/L		0.323
Hg-D	mg/L	0.001	
Na-D	mg/L		335
Mo-D	mg/L	10	<0.0020
Ni-D	mg/L		<0.0020
Ni-CSR*	mg/L		1.50
K-D	mg/L		4.94
S-D	mg/L		172
Sb-D	mg/L	0.2	<0.0010
Se-D	mg/L	0.01	<0.00020
Si-D	mg/L		3.95
Sr-D	mg/L		1.07
Tl-D	mg/L	0.003	<0.000020
Ti-D	mg/L	1	<0.010
U-D	mg/L	3	<0.00020
V-D	mg/L		<0.010
Zn-D	mg/L		<0.010
Zn-CSR*	mg/L		1.650

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

Description		2-Mains of 7 S - Water Cover Over PAG-CCR	
Well ID		QU1410	
Station Type		In-Situ	
Top Elev.		240.832	
Bottom Elev.		209.432	
Water Level (m)		8.89	
Parameter	Units	CSR-AL	18-Oct-23
SO4-D	mg/L	1280	1900
H2SEquiv	mg/L	0.02	0.000957
Cond-F	uS/cm		2984.3
pH-F	pH Units		6.69
Temp-F	C		9.582
DO-F	mg/L		-0.47
ORP-F	mV		27.9
Turb	NTU		12
Alk-T	mg/L		330
Acidity83	mg/L		68.9
N-D	mg/L		0.441
DOC	mg/L		1.2
Hydrox	mg/L		<1.0
Bicarb	mg/L		400
Carb	mg/L		<1.0
Cl-D	mg/L	1500	4.5
F-D	mg/L		0.17
Flu-CSR*	mg/L		3.000
Br-D	mg/L		<0.10
P-D	mg/L		0.010
Al-D	mg/L		<0.015
Ag-D	mg/L		<0.00010
Ag-CSR*	mg/L		0.01500
As-D	mg/L	0.05	0.105
Ba-D	mg/L	10	0.0160
B-D	mg/L	50	1.16
Be-D	mg/L	0.053	<0.00050
Bi-D	mg/L		<0.0050
Cd-D	mg/L		<0.000050
Cd-CSR*	mg/L		0.0006000
Ca-D	mg/L		539
Cr-D	mg/L	0.01	<0.0050
Co-D	mg/L	0.009	<0.0010
Cu-D	mg/L		<0.0010
Cu-CSR*	mg/L		0.09000
Fe-D	mg/L		2.60
Hard-D	mg/L		2120
Pb-D	mg/L		<0.0010
Pb-CSR*	mg/L		0.1600
Mg-D	mg/L		188
Mn-D	mg/L		1.45
Hg-D	mg/L	0.001	
Na-D	mg/L		60.4
Mo-D	mg/L	10	<0.0050
Ni-D	mg/L		<0.0050
Ni-CSR*	mg/L		1.500
K-D	mg/L		7.70
S-D	mg/L		718
Sb-D	mg/L	0.2	<0.0025
Se-D	mg/L	0.01	<0.00050
Si-D	mg/L		3.85
Sr-D	mg/L		4.77
Tl-D	mg/L	0.003	<0.000050
Ti-D	mg/L	1	<0.025
U-D	mg/L	3	0.00079
V-D	mg/L		<0.025
Zn-D	mg/L		<0.025
Zn-CSR*	mg/L		2.400

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

Description		242 Flooded Mine Void		7-South Underground Sump (1 Mains 75 and Area 5)	
Well ID		242MW		1M7SA5	
Station Type		In-Situ		In-Situ	
Top Elev.		290			
Bottom Elev.		256.5			
Water Level (m)		23.27			
Parameter	Units	CSR-AL	31-Oct-23	17-Oct-23	14-Nov-23
SO4-D	mg/L	1280	28	150	230
H2SEquiv	mg/L	0.02	0.0276		
Cond-F	uS/cm		294.6	595	751
pH-F	pH Units		6.62	7.59	7.05
Temp-F	C		8.478	14.6	10.4
DO-F	mg/L		-0.48		
ORP-F	mV		-71.1		
Turb	NTU		71	1.3	1.6
Alk-T	mg/L		94	140	120
Acidity83	mg/L		2.5	2.4	<1.0
N-D	mg/L		0.756	0.400	1.13
DOC	mg/L		0.78	0.77	0.91
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		110	170	140
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	1.3
F-D	mg/L		0.078	0.49	0.40
Flu-CSR*	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.10	<0.010
P-D	mg/L		0.010	0.0044	0.0064
Al-D	mg/L		0.0098	0.0175	0.0117
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR*	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.124	0.0330	0.0232
Ba-D	mg/L	10	0.0757	0.140	0.111
B-D	mg/L	50	0.056	0.568	0.522
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010	0.000011
Cd-CSR*	mg/L		0.000500	0.000600	0.000600
Ca-D	mg/L		44.0	69.6	86.4
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00058	0.00042	0.00285
Cu-D	mg/L		<0.00020	0.00095	0.00089
Cu-CSR*	mg/L		0.0500	0.0900	0.0900
Fe-D	mg/L		15.8	0.0724	0.0100
Hard-D	mg/L		124	256	307
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR*	mg/L		0.0600	0.110	0.160
Mg-D	mg/L		3.44	19.9	22.2
Mn-D	mg/L		0.574	0.0218	0.100
Hg-D	mg/L	0.001			
Na-D	mg/L		2.16	22.5	19.4
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	0.0019	0.0055
Ni-CSR*	mg/L		1.10	1.50	1.50
K-D	mg/L		0.443	2.38	2.24
S-D	mg/L		9.9	52.4	75.4
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.75	4.44	4.62
Sr-D	mg/L		0.0639	0.678	0.742
Tl-D	mg/L	0.003	<0.000010	0.000016	0.000044
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	0.0069	0.0123
Zn-CSR*	mg/L		0.900	1.650	2.400

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 33 Groundwater 13 Page(s)

		Description	7-South Underground Sump (Area 5)		5-South Flooded Mine Void
		Well ID	7SA5	7SA5	QU0516W
		Station Type	In-Situ	In-Situ	In-Situ
		Top Elev.			309.346
		Bottom Elev.			183.996
		Water Level (m)			73.81
Parameter	Units	CSR-AL	17-Oct-23	14-Nov-23	31-Oct-23
SO4-D	mg/L	1280	120	24	65
H2SEquiv	mg/L	0.02			0.457
Cond-F	uS/cm		508	429	906.2
pH-F	pH Units		7.79	7.44	8.1
Temp-F	C		14.8	10.1	9.294
DO-F	mg/L				-0.16
ORP-F	mV				-143.6
Turb	NTU		1.6	3.6	2.4
Alk-T	mg/L		150	170	350
Acidity83	mg/L		<1.0	<1.0	<1.0
N-D	mg/L		0.305	0.447	0.172
DOC	mg/L		0.58	<0.50	1.4
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		180	210	400
Carb	mg/L		<1.0	<1.0	18
Cl-D	mg/L	1500	1.0	<1.0	28
F-D	mg/L		0.56	0.44	1.8
Flu-CSR*	mg/L		3.00	3.00	2.00
Br-D	mg/L		<0.010	<0.010	0.044
P-D	mg/L		0.026	0.042	0.32
Al-D	mg/L		0.0049	0.0038	<0.015
Ag-D	mg/L		<0.000020	<0.000020	<0.00010
Ag-CSR*	mg/L		0.0150	0.0150	0.000500
As-D	mg/L	0.05	0.180	0.222	0.0450
Ba-D	mg/L	10	0.118	0.110	0.0451
B-D	mg/L	50	0.611	0.560	3.36
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00050
Bi-D	mg/L		<0.0010	<0.0010	<0.0050
Cd-D	mg/L		<0.000010	<0.000010	<0.000050
Cd-CSR*	mg/L		0.000600	0.000600	0.000100
Ca-D	mg/L		58.2	45.4	7.37
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0050
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.0010
Cu-D	mg/L		0.00056	0.00032	<0.0010
Cu-CSR*	mg/L		0.0900	0.0700	0.0200
Fe-D	mg/L		0.0485	0.0221	0.048
Hard-D	mg/L		212	157	22.3
Pb-D	mg/L		<0.00020	<0.00020	<0.0010
Pb-CSR*	mg/L		0.110	0.0600	0.0400
Mg-D	mg/L		16.2	10.5	0.94
Mn-D	mg/L		0.0053	0.0119	0.0588
Hg-D	mg/L	0.001			
Na-D	mg/L		26.0	24.9	212
Mo-D	mg/L	10	0.0012	0.0014	<0.0050
Ni-D	mg/L		0.0014	<0.0010	<0.0050
Ni-CSR*	mg/L		1.50	1.10	0.250
K-D	mg/L		2.30	1.91	1.45
S-D	mg/L		40.7	20.5	30
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.0025
Se-D	mg/L	0.01	<0.00010	<0.00010	0.00202
Si-D	mg/L		5.17	5.14	3.85
Sr-D	mg/L		0.640	0.547	0.119
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000050
Tl-D	mg/L	1	<0.0050	<0.0050	<0.025
U-D	mg/L	3	<0.00010	<0.00010	<0.00050
V-D	mg/L		<0.0050	<0.0050	<0.025
Zn-D	mg/L		<0.0050	<0.0050	<0.025
Zn-CSR*	mg/L		1.650	0.900	0.075

Mine Water (MW) = In-Situ
Groundwater (GW) = Ex-Situ
CSR* Calculated Standard

Appendix 1 - Tables

Table 34 Potential Seepage (S) 1 Page(s)

EMS ID	Stn Std			Chronic-WQG		
Site Description	Seepage near QU1109					
Site Name	S	Std Val				
Date		Acute	Chronic	04-10-2023	02-11-2023	05-12-2023
Flow	m3/s			0.00073	0.0001	0.0014
pH-F	pH Units			7.74	7.48	7.73
Cond-F	uS/cm			1236	1030	608.7
SO4-D	mg/L		128	150	130	120
Turb	NTU			0.38	1.3	0.93
Alk-T	mg/L			470	330	160
Acidity83	mg/L			<1.0	<1.0	<1.0
DOC	mg/L			36	6.4	4.1
Cl-D	mg/L	600	≤ 150	42	26	
F-D	mg/L	≤ 1.29		0.69	0.58	
Al-T	mg/L		0.37	0.0127	0.0585	0.0394
As-T	mg/L		0.005	0.0585	0.0549	0.0247
Ba-T	mg/L		≤ 1	0.0351	0.0365	0.0442
B-T	mg/L		≤ 1.2	1.67	1.25	0.868
Cd-T	mg/L			<0.000010	<0.000020	<0.000010
Ca-T	mg/L			20.3	18.0	31.1
Cr-T	mg/L			<0.0010	<0.0020	<0.0010
Co-T	mg/L	≤ 0.11	≤ 0.004	<0.00020	<0.00040	<0.00020
Cu-T	mg/L			<0.00050	0.0010	<0.00050
Hard-T	mg/L			72.2	65.9	112
Fe-T	mg/L	1.0		0.094	0.225	0.151
Pb-T	mg/L	0.0176	0.004	<0.00020	<0.00040	<0.00020
Mg-T	mg/L			5.22	5.08	8.32
Mn-T	mg/L	≤0.8706	≤0.737	0.0109	0.0506	0.0298
Mo-T	mg/L	≤ 2		<0.0010	<0.0020	<0.0010
Ni-T	mg/L		0.025	<0.0010	<0.0020	<0.0010
K-T	mg/L			3.55	2.67	1.96
S-T	mg/L			48.8	39.9	42.6
Se-T	mg/L		0.002	<0.00010	<0.00020	<0.00010
Si-T	mg/L			4.47	4.48	5.36
Ag-T	mg/L	0.0001	0.00005	<0.000020	<0.000040	<0.000020
Na-T	mg/L			248	182	92.1
Sr-T	mg/L			0.325	0.294	0.316
Zn-T	mg/L	0.033	0.0075	<0.0050	<0.010	<0.0050
Al-D	mg/L			0.0102	0.0524	0.0120
As-D	mg/L			0.0645	0.0592	0.0249
Ba-D	mg/L			0.0372	0.0412	0.0439
B-D	mg/L			1.75	1.39	0.759
Be-D	mg/L			<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017	0.000087	<0.000010	<0.000010	<0.000010
Ca-D	mg/L			21.9	21.7	28.6
Cr-D	mg/L			<0.0010	<0.0010	<0.0010
Co-D	mg/L			<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.0066		0.00032	0.00066	0.00035
DOC	mg/L			36	6.4	4.1
Hard-D	mg/L			77.8	77.2	103
Fe-D	mg/L	0.35		0.0855	0.127	0.0721
Pb-D	mg/L			<0.00020	<0.00020	<0.00020
Mg-D	mg/L			5.60	5.57	7.68
Mn-D	mg/L			0.0068	0.0158	0.0179
Mo-D	mg/L			<0.0010	<0.0010	<0.0010
Ni-D	mg/L			<0.0010	<0.0010	<0.0010
K-D	mg/L			3.71	3.02	1.91
S-D	mg/L			53.2	47.6	41.2
Se-D	mg/L			<0.00010	<0.00010	<0.00010
Si-D	mg/L			4.82	5.08	5.01
Na-D	mg/L			268	196	89.1
Sr-D	mg/L			0.341	0.337	0.326
Zn-D	mg/L	0.033	0.0075	<0.0050	<0.0050	<0.0050
Notes:						
Bold blue indicates result is greater than Acute -WQG,						
Bold green indicates result is greater than Chronic -WQG for observation only. Chronic- WQG is the average of 5 weekly samples, these are monthly.						

Appendix 1 - Tables

Table 35 Potential Seepage (S2A) 1 Page(s)

EMS ID		Stn Std				
Site Description		Potential Seepage (S2A) near QU1105 entering river				
Site Name	S2A	Std Val	WQG			
Date		Acute	Chronic	04-10-2023	07-11-2023	05-12-2023
Flow	m3/s			0.00076	0.00153	
pH-F	pH Units			6.61	6.85	7.18
Cond-F	uS/cm			496	38.6	2239
SO4-D	mg/L		128	65	60	31
Turb	NTU			0.96	2.3	7.1
Alk-T	mg/L			150	120	79
Acidity83	mg/L			8.2	<1.0	<1.0
DOC	mg/L			1.8	3.8	8.7
Cl-D	mg/L	600	≤ 150	6.7	5.2	
F-D	mg/L	≤ 1.29		0.35	0.22	
Al-T	mg/L		0.37	0.0179	0.0830	0.538
As-T	mg/L		0.005	0.0558	0.0203	0.0108
Ba-T	mg/L		≤ 1	0.0291	0.0301	0.0230
B-T	mg/L		≤ 1.2	0.352	0.304	0.207
Bicarb	mg/L			180	150	97
Cd-T	mg/L			<0.000010	<0.000010	<0.000010
Ca-T	mg/L			18.6	19.9	16.3
Cr-T	mg/L			<0.0010	<0.0010	<0.0010
Co-T	mg/L	≤ 0.11	≤ 0.004	<0.00020	<0.00020	<0.00020
Cu-T	mg/L			<0.00050	0.00051	0.00120
Hard-T	mg/L			62.8	67.2	55.3
Fe-T	mg/L		1	0.460	0.235	0.494
Pb-T	mg/L	0.0176	0.004	<0.00020	<0.00020	<0.00020
Mg-T	mg/L			3.95	4.24	3.57
Mn-T	mg/L	≤0.8706	≤0.737	0.138	0.0297	0.0243
Mo-T	mg/L	≤ 2		<0.0010	<0.0010	<0.0010
Ni-T	mg/L		0.025	<0.0010	<0.0010	<0.0010
K-T	mg/L			1.94	1.68	1.17
S-T	mg/L			20.6	18.5	10.5
Se-T	mg/L		0.002	<0.00010	<0.00010	<0.00010
Si-T	mg/L			2.92	3.27	4.24
Ag-T	mg/L	0.0001	0.00005	<0.000020	<0.000020	<0.000020
Na-T	mg/L			63.3	46.2	29.2
Sr-T	mg/L			0.275	0.300	0.189
Zn-T	mg/L	0.033	0.0075	<0.0050	<0.0050	<0.0050
Al-D	mg/L			0.0061	0.0115	0.0815
As-D	mg/L			0.0591	0.0183	0.00901
Ba-D	mg/L			0.0307	0.0308	0.0203
B-D	mg/L			0.385	0.338	0.236
Be-D	mg/L			<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017	0.000087	<0.000010	<0.000010	<0.000010
Ca-D	mg/L			19.8	21.4	14.4
Cr-D	mg/L			<0.0010	<0.0010	<0.0010
Co-D	mg/L			<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.0066		<0.00020	0.00045	0.00081
DOC	mg/L			1.8	3.8	8.7
Hard-D	mg/L			67.1	72.1	49.0
Fe-D	mg/L	0.35		0.414	0.0931	0.148
Pb-D	mg/L			<0.00020	<0.00020	<0.00020
Mg-D	mg/L			4.27	4.54	3.18
Mn-D	mg/L			0.147	0.0253	0.0157
Mo-D	mg/L			<0.0010	<0.0010	<0.0010
Ni-D	mg/L			<0.0010	<0.0010	<0.0010
K-D	mg/L			2.04	1.72	1.11
S-D	mg/L			26.5	21.6	8.9
Se-D	mg/L			<0.00010	<0.00010	<0.00010
Si-D	mg/L			3.25	3.76	3.49
Na-D	mg/L			68.7	47.9	25.8
Sr-D	mg/L			0.295	0.323	0.187
Zn-D	mg/L	0.033	0.0075	<0.0050	<0.0050	<0.0050
Notes:						
Bold blue indicates result is greater than Acute -WQG,						
Bold green indicates result is greater than Chronic -WQG for observation only. Chronic- WQG is the average of 5 weekly samples, these are monthly.						

Appendix 1 - Tables

Table 36 Depth Profiling Lakes 1 Page(s)

EMS ID: E206619																														
Site NAME: LONG LAKE (LLM)																														
LONG LAKE DEPTH PROFILING FALL																														
Sample Date	04-Oct						11-Oct						17-Oct						23-Oct						30-Oct					
Parameter	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP
Sample Depth (m)	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV
1	13.85	7.29	205.70	93.00	9.61	184.00	13.67	7.19	202.60	91.20	9.46	174.30	12.80	7.33	223.10	91.10	9.64	153.60	12.11	7.35	233.10	90.70	9.75	149.10	8.94	6.99	248.20	80.50	9.31	247.30
2	13.78	7.29	205.7	92.8	9.6	188.2	13.573	7.33	206.3	96.4	9.46	173.8	12.802	7.33	223	91.2	9.64	154.4	12.087	7.35	232.7	90.6	9.74	149.7	8.9	6.98	248.2	80.2	9.32	248.4
3	13.75	7.29	205.4	92.6	9.6	191.2	13.53	7.36	208	96.2	9.46	174.8	12.801	7.33	223	91.2	9.65	155.3	12.081	7.34	235	90.6	9.73	150.5	8.9	6.98	248.7	80.5	9.33	249
4	13.73	7.29	205.60	92.40	9.58	196.10	13.51	7.37	208.60	96.20	9.47	177.60	12.80	7.33	223.00	91.20	9.64	156.70	12.081	7.34	235	90.6	9.73	150.5	8.9	6.98	248.7	80.8	9.36	249.3
5	13.72	7.29	205.80	92.30	9.57	198.70	13.51	7.37	209.50	96.30	9.48	180.90	12.80	7.33	223.00	91.20	9.65	158.30	12.07	7.34	236.10	90.40	9.72	151.80	8.88	6.98	248.90	80.90	9.37	249.60
6	13.709	7.28	206.4	92.1	9.55	201	13.469	7.37	210.8	96.2	9.47	182.3	12.791	7.33	223	91.2	9.65	159.9	12.072	7.33	238.4	90.3	9.7	152.6	8.9	6.98	248.7	81	9.38	249.8
7	12.895	6.91	310	83.2	8.79	215.7	12.689	6.92	296.1	83.2	8.33	195.6	12.782	7.33	223.3	91.1	9.64	161.1	12.189	7.23	312.1	87.7	9.4	157.3	8.9	6.97	248.8	81	9.39	250.4
8	8.914	6.68	287.4	51.5	5.96	220.5	9.933	6.6	279.3	54	6.09	205	10.365	6.73	286	59.6	6.66	173.7	10.696	6.74	297.1	59.2	6.59	166	8.9	6.97	249	80.9	9.38	251
9	7.808	6.77	291.9	47.3	5.58	217.5	8.131	6.56	281.2	45.3	5.33	207.9	7.913	6.65	286.3	44.8	5.29	176.3	8.404	6.68	291.1	43.6	5.09	169.3	8.805	6.95	254.2	80.1	9.29	252.2
10	7.15	6.73	290.8	38.6	4.82	222.1	7.334	6.53	282.5	39.1	4.69	209.9	7.093	6.64	288.2	39.7	4.79	177.6	7.027	6.65	292.7	32.7	3.96	170.8	7.857	6.5	299.4	41.5	4.93	261.1
11	6.625	6.71	291.3	34.4	4.2	224.3	6.539	6.53	282.9	33.3	4.07	210.8	6.551	6.62	288.9	32.4	3.9	178.9	6.691	6.66	293.5	30.8	3.7	170.9	6.616	6.47	299.3	33.1	4.02	262.4
12	6.228	6.69	293.1	28	3.45	226.9	6.293	6.53	283.3	27.2	3.34	210.7	6.263	6.61	288.8	29.2	3.61	179.7	6.422	6.65	294.3	27.4	3.35	171.2	6.392	6.45	300.5	27.6	3.37	263.2
13	6.035	6.67	293.3	24.3	3.02	228.3	6.044	6.53	283.9	23.5	2.9	210.7	6.058	6.6	289.6	23.9	2.93	180.3	6.183	6.65	295.2	24.6	2.93	171.6	6.227	6.45	300.6	24.8	3.05	263.7
14	5.812	6.66	294.2	20.1	2.51	229.6	5.812	6.54	284.4	20.2	2.52	210.8	5.841	6.59	290.3	20.3	2.45	180.6	5.941	6.63	295.7	19.6	2.41	171.6	6.0	6.43	301.3	20.4	2.5	263.9
15	5.684	6.65	294.7	15.3	1.94	230.2	5.621	6.53	285.5	16.1	1.99	210.8	5.669	6.58	290.9	14.8	1.84	180.9	5.783	6.63	296.1	14.8	1.85	171.6	5.772	6.43	301.9	15.9	1.98	264.2
16	5.547	6.62	295.4	10.6	1.3	230.6	5.528	6.51	286.1	10.3	1.28	210.7	5.563	6.57	291.4	11.2	1.41	181.8	5.646	6.62	296.8	12.5	1.55	171.8	5.688	6.42	302.6	13	1.62	264.7
17	5.476	6.61	295.6	7.3	0.92	231	5.466	6.51	286.5	5.4	0.67	210.5	5.511	6.55	291.7	7.64	0.95	182	5.542	6.60	297.6	7.4	0.89	172.3	5.581	6.4	302.9	9.1	1.12	264.8
18	5.436	6.6	295.6	4.8	0.59	231.3	5.446	6.51	286.5	2.8	0.35	210.2	5.472	6.54	292	3.7	0.45	182	5.466	6.58	297.8	1.6	0.17	172.4	5.52	6.39	303.6	5.1	0.63	265.1
19	5.412	6.58	295.1	-1	-0.15	231.1	5.432	6.51	287.2	0.3	0.02	210	5.448	6.54	292.2	0.4	0.04	182	5.449	6.58	298.7	-2.3	-0.31	172.8	5.482	6.38	303.7	1.2	0.19	265.2
20	5.408	6.58	296.7	-3.2	-0.41	231.8	5.425	6.51	287.9	-2.4	-0.31	209.8	5.442	6.53	292.5	-0.9	-0.13	181.9	5.443	6.59	300.7	-3.5	-0.45	173.5	5.463	6.38	304.2	-0.9	-0.18	265.5
1m from Bottom (1MB)						1MB = 20 m						1MB = 20m						1MB = 20m						1MB = 20m						

Appendix 1 - Tables

Table 37 Depth Profiling Lakes 1 Page(s)

EMS ID E206618																														
Site NAME: MIDDLE QUINSAM LAKE (MQL)							MIDDLE QUINSAM LAKE DEPTH PROFILING FALL																							
Sample Date	04-Oct						11-Oct						17-Oct						23-Oct						30-Oct					
Parameter	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP
Sample Depth (m)	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV
1	14.468	7.59	82.9	94.1	9.6	199.2	14.351	7.45	77.6	91.6	9.36	176.3	13.24	7.40	76.6	92	9.64	188.1	12.674	7.46	77.2	90.8	9.64	172.1	9.922	7.25	79.9	8.2	9.73	204.6
2	14.438	7.59	82.9	94.2	9.61	201.2	14.248	7.44	77.5	91.4	9.36	179.5	13.245	7.40	76.5	91.8	9.62	188.6	12.65	7.46	77.2	90.7	9.63	172.8	9.841	7.25	79.8	85.8	9.72	206.3
3	14.427	7.6	82.8	94.1	9.61	203.7	14.177	7.44	77.4	91.2	9.36	180.8	13.245	7.39	76.4	91.7	9.61	188.8	12.625	7.46	77.2	90.6	9.62	173	9.757	7.25	79.9	85.6	9.72	207.7
4	14.404	7.59	82.7	94.1	9.61	205.1	14.139	7.43	77.5	91.1	9.35	182.1	13.244	7.38	76.4	91.7	9.61	189.1	12.541	7.45	77	90.3	9.61	173.8	9.733	7.25	79.9	85.6	9.72	209
5	14.381	7.58	82.3	93.9	9.6	206.1	14.117	7.43	77.3	91	9.35	183.5	13.247	7.38	76.4	91.6	9.6	189.4	12.516	7.46	77	90.2	9.61	173.5	9.719	7.25	79.8	85.5	9.72	209.9
6	14.372	7.58	82.1	93.6	9.57	207.3	14.106	7.43	77.4	90.9	9.34	185	13.247	7.38	76.5	91.5	9.59	189.8	12.507	7.45	77	90.1	9.6	174	9.665	7.25	79.7	85.4	9.72	211
7	14.366	7.56	82.7	93	9.51	208.7	14.095	7.42	77.4	90.7	9.33	185.9	13.243	7.38	76.5	91.5	9.59	189.8	12.496	7.45	77	90.1	9.6	174.2	9.643	7.24	79.8	85.3	9.71	211.9
8	14.326	7.55	82.9	92.6	9.51	210.1	14.07	7.41	77.4	90.5	9.31	186.7	13.239	7.38	76.5	91.5	9.58	190	12.48	7.45	77	90	9.59	174.5	9.638	7.24	79.8	85.3	9.7	212.9
9	14.319	7.55	83	92.2	9.43	211.7	14.057	7.41	77.1	90.3	9.3	187.5	13.23	7.38	76.5	91.4	9.58	190.2	12.463	7.44	77	89.9	9.59	175.1	9.619	7.24	79.9	85	9.69	213.8
10	14.264	7.53	83.2	91.7	9.39	213.3	14.036	7.41	76.5	90.5	9.32	188	13.23	7.38	76.5	91.3	9.57	190.4	12.448	7.44	76.9	89.9	9.58	175.3	9.615	7.24	80	85	9.68	214.7
	14.198	7.49	83.7	90.7	9.3	214.8	14.003	7.41	76.2	90.3	9.31	188.7	13.207	7.37	76.6	91.1	9.55	190.7	12.447	7.44	76.9	89.9	9.58	175.4	9.608	7.23	80	84.8	9.66	215.8
	13.429	7.16	94.9	75.5	7.89	223.5	13.974	7.36	78.3	88.4	9.12	191.6	13.146	7.36	76.6	90.4	9.49	191.2	12.444	7.44	76.9	89.9	9.58	175.7	9.571	7.23	80.1	84.9	9.68	216.5
13	10.91	6.8	128.2	24.6	2.64	235.7	13.21	7.02	95.3	65.4	6.88	202	13.098	7.36	76.6	90.4	9.48	191	12.404	7.44	77.2	89.6	9.57	176	9.563	7.24	80	84.9	9.68	218
1m from Bottom (1MB)	1MB = 13m						1MB = 13m						1MB = 13m						1MB = 13m						1MB = 13m					

Appendix 1 - Tables

Table 38 Lakes Fall 9 Page(s)

Lakes Fall 2023													
EMS ID		E206619					Water Quality Guidelines						
StnName		Long Lake Middle 1 M											
StnCode		LLM1											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	64	67	72	74	77	5	77	70.8	128		75.8	0
Turb	NTU	0.29	0.32	0.27	0.29	0.32	5	0.32	0.30			0.32	0
Alk-T	mg/L	31	33	34	32	31	5	34	32.2			33.6	0
Al-T	mg/L	0.0057	0.0168	0.0058	0.0060	0.0059	5	0.0168	0.0080	*		0.0125	0
As-T	mg/L	0.00052	0.00076	0.00063	0.00054	0.00045	5	0.00076	0.00058	0.005		0.00071	0
B-T	mg/L	0.060	0.057	0.069	0.057	0.053	5	0.069	0.059	1.2		0.065	0
Ba-T	mg/L	0.0050	0.0073	0.0075	0.0070	0.0065	5	0.0075	0.0067	1		0.0074	0
Cd-T	mg/L	<0.000010	0.000249	<0.000010	<0.000010	<0.000010	5	0.000249	0.0000538			0.0001514	0
Ca-T	mg/L	21.6	27.1	31.1	28.4	27.5	5	31.1	27.1			30	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	0.00025	<0.00020	<0.00020	<0.00020	5	0.00025	0.000130	0.004	0.11	0.00019	0
Cu-T	mg/L	<0.00050	0.00274	<0.00050	<0.00050	<0.00050	5	0.00274	0.000748			0.001744	0
Fe-T	mg/L	0.016	0.017	0.020	0.022	0.022	5	0.022	0.019		1	0.022	0
Hard-T	mg/L	66.0	82.3	94.9	86.6	83.1	5	94.9	82.6			91.6	0
Pb-T	mg/L	<0.00020	0.00022	<0.00020	<0.00020	<0.00020	5	0.00022	0.000124	0.0040	0.0176	0.000172	0
Mg-T	mg/L	2.90	3.57	4.19	3.84	3.49	5	4.19	3.60			4.05	0
Mn-T	mg/L	0.0055	0.0118	0.0071	0.0068	0.0110	5	0.0118	0.0084	0.737	0.8706	0.0115	0
P-T	mg/L	<0.0030	<0.0030	0.0031	0.0033	0.0041	5	0.0041	0.00270	0.007		0.00378	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.239	0.403	0.356	0.326	0.292	5	0.403	0.323			0.384	0
S-T	mg/L	16.9	21.3	26.9	25.0	23.5	5	26.9	22.7			26.1	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	6.14	7.93	9.04	8.42	7.82	5	9.04	7.87			8.79	0
Sr-T	mg/L	0.132	0.168	0.192	0.179	0.181	5	0.192	0.170			0.188	0
Zn-T	mg/L	<0.0050	0.0132	<0.0050	<0.0050	<0.0050	5	0.0132	0.00464	0.0075	0.033	0.00892	0
Al-D	mg/L	0.0043	0.0041	0.0038	0.0037	0.0049	5	0.0049	0.0042			0.0047	0
As-D	mg/L	0.00057	0.00058	0.00062	0.00052	0.00051	5	0.00062	0.00056			0.0006	0
Ba-D	mg/L	0.0062	0.0066	0.0069	0.0070	0.0074	5	0.0074	0.0068			0.0072	0
B-D	mg/L	0.060	0.061	0.070	0.063	0.068	5	0.070	0.064			0.069	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	27.1	27.7	29.7	29.9	30.9	5	30.9	29.1			30.5	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00033	0.00032	0.00030	0.00027	0.00037	5	0.00037	0.00032	*	*	0.00035	*
DOC	mg/L	2.9	2.9	3.2	3.3	3.8	5	3.8	3.2			3.6	0
Hard-D	mg/L	82.5	84.3	90.6	90.6	93.5	5	93.5	88.3			92.3	0
Fe-D	mg/L	0.0109	0.0088	0.0084	0.0087	0.0109	5	0.0109	0.0095		0.35	0.0109	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	3.63	3.70	3.97	3.89	3.97	5	3.97	3.83			3.97	0
Mn-D	mg/L	0.0017	<0.0010	<0.0010	0.0011	0.0046	5	0.0046	0.00168			0.00344	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.307	0.303	0.327	0.317	0.330	5	0.330	0.317			0.329	0
S-D	mg/L	22.8	24.2	24.6	25.4	27.6	5	27.6	24.9			26.7	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	7.87	7.95	8.56	8.39	8.87	5	8.87	8.33			8.75	0
Sr-D	mg/L	0.162	0.173	0.183	0.187	0.207	5	0.207	0.182			0.199	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	0.039	<0.020	0.061	<0.020	5	0.061	0.0260			0.0522	0
Chlr-a	ug/L		0.61				1	0.61	0.61			0.61	0
Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 38 Lakes Fall 9 Page(s)

EMS ID		E206619						Water Quality Guidelines					
StnName		Long Lake Middle 4 M											
StnCode		LLM4											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	62	67	72	76	77	5	77	70.8	128		76.6	0
Turb	NTU	0.24	0.25	0.22	0.25	0.40	5	0.40	0.27			0.34	0
Alk-T	mg/L	30	31	32	31	31	5	32	31.0			31.6	0
Al-T	mg/L	0.0068	0.0054	0.0051	0.0058	0.0058	5	0.0068	0.0058	*		0.0064	0
As-T	mg/L	0.00056	0.00057	0.00060	0.00053	0.00049	5	0.00060	0.00055	0.005		0.00059	0
B-T	mg/L	0.060	0.058	0.066	0.057	0.061	5	0.066	0.060	1.2		0.064	0
Ba-T	mg/L	0.0056	0.0061	0.0071	0.0069	0.0071	5	0.0071	0.0066	1		0.0071	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	24.8	25.5	30.0	28.4	30.6	5	30.6	27.9			30.4	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0
Fe-T	mg/L	0.022	0.016	0.018	0.019	0.024	5	0.024	0.020		1	0.023	0
Hard-T	mg/L	75.8	77.4	91.3	86.3	92.2	5	92.2	84.6			91.8	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	3.34	3.34	3.99	3.72	3.85	5	3.99	3.65			3.93	0
Mn-T	mg/L	0.0065	0.0056	0.0064	0.0066	0.0116	5	0.0116	0.0073	0.737	0.8706	0.0096	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.279	0.278	0.331	0.310	0.323	5	0.331	0.304			0.328	0
S-T	mg/L	19.8	21.2	26.5	24.9	25.4	5	26.5	23.6			26.1	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	7.08	7.15	8.53	8.21	8.63	5	8.63	7.92			8.59	0
Sr-T	mg/L	0.150	0.161	0.184	0.172	0.196	5	0.196	0.173			0.191	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0052	0.0043	0.0038	0.0038	0.0040	5	0.0052	0.0042			0.0048	0
As-D	mg/L	0.00059	0.00056	0.00057	0.00054	0.00052	5	0.00059	0.00056			0.00058	0
Ba-D	mg/L	0.0062	0.0065	0.0068	0.0071	0.0080	5	0.0080	0.0069			0.0076	0
B-D	mg/L	0.063	0.063	0.068	0.065	0.064	5	0.068	0.065			0.067	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	26.9	27.8	29.7	30.6	32.2	5	32.2	29.4			31.6	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00030	0.00033	0.00030	0.00030	0.00030	5	0.00033	0.00031	*	*	0.00032	*
DOC	mg/L	2.9	2.9	3.2	3.2	3.6	5	3.6	3.2			3.4	0
Hard-D	mg/L	82.2	84.9	90.4	92.7	97.4	5	97.4	89.5			95.5	0
Fe-D	mg/L	0.0102	0.0085	0.0081	0.0087	0.0082	5	0.0102	0.0087		0.35	0.0096	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	3.63	3.75	3.98	3.99	4.14	5	4.14	3.90			4.08	0
Mn-D	mg/L	0.0014	<0.0010	<0.0010	0.0011	0.0040	5	0.0040	0.00150			0.00296	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.309	0.301	0.324	0.316	0.354	5	0.354	0.321			0.342	0
S-D	mg/L	24.2	24.6	25.9	26.9	30.1	5	30.1	26.3			28.8	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	8.00	7.96	8.54	8.70	8.96	5	8.96	8.43			8.86	0
Sr-D	mg/L	0.164	0.177	0.184	0.182	0.201	5	0.201	0.182			0.194	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0
Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 38 Lakes Fall 9 Page(s)

EMS ID		E206619					Water Quality Guidelines						
StnName		Long Lake Middle 9 M											
StnCode		LLM9											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	91	88	92	95	95	5	95	92.2	128		95	0
Turb	NTU	0.30	0.26	0.21	0.48	0.48	5	0.48	0.35			0.48	0
Alk-T	mg/L	40	41	41	40	33	5	41	39.0			41	0
Al-T	mg/L	0.0073	0.0076	0.0065	0.0066	0.0055	5	0.0076	0.0067	*		0.0075	0
As-T	mg/L	0.00028	0.00030	0.00033	0.00031	0.00042	5	0.00042	0.00033	0.005		0.00038	0
B-T	mg/L	0.080	0.074	0.089	0.075	0.069	5	0.089	0.077	1.2		0.085	0
Ba-T	mg/L	0.0066	0.0066	0.0076	0.0072	0.0081	5	0.0081	0.0072	1		0.0079	0
Cd-T	mg/L	<0.000010	0.000033	<0.000010	<0.000010	<0.000010	5	0.000033	0.0000106			2.18E-05	0
Ca-T	mg/L	34.0	32.8	39.3	35.7	34.6	5	39.3	35.3			37.9	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	0.00056	<0.00050	<0.00050	<0.00050	5	0.00056	0.000312			0.000436	0
Fe-T	mg/L	0.024	0.027	0.021	0.022	0.029	5	0.029	0.025		1	0.028	0
Hard-T	mg/L	102	98.2	118	107	104	5	118	105.8			113.6	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	4.16	3.95	4.79	4.41	4.37	5	4.79	4.34			4.64	0
Mn-T	mg/L	0.0306	0.0358	0.0425	0.0390	0.0211	5	0.0425	0.0338	0.737	0.8706	0.0411	0
P-T	mg/L	<0.0030	<0.0030	0.0031	0.0032	<0.0030	5	0.0032	0.00216	0.007		0.00316	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.400	0.381	0.454	0.418	0.369	5	0.454	0.404			0.44	0
S-T	mg/L	28.4	28.1	33.4	31.3	32.1	5	33.4	30.7			32.9	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	11.1	10.4	12.7	11.5	10.5	5	12.7	11.2			12.2	0
Sr-T	mg/L	0.232	0.235	0.270	0.250	0.228	5	0.270	0.243			0.262	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0042	0.0041	0.0043	0.0041	0.0037	5	0.0043	0.0041			0.0043	0
As-D	mg/L	0.00030	0.00031	0.00027	0.00031	0.00043	5	0.00043	0.00032			0.00038	0
Ba-D	mg/L	0.0074	0.0073	0.0073	0.0074	0.0088	5	0.0088	0.0076			0.0082	0
B-D	mg/L	0.088	0.083	0.088	0.086	0.076	5	0.088	0.084			0.088	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	38.1	36.4	38.5	38.0	38.1	5	38.5	37.8			38.3	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00030	0.00029	0.00029	0.00028	0.00028	5	0.00030	0.00029	*	*	0.0003	*
DOC	mg/L	2.4	2.6	2.7	2.5	3.4	5	3.4	2.7			3.1	0
Hard-D	mg/L	114	109	115	114	115	5	115	113.4			115	0
Fe-D	mg/L	0.0120	0.0114	0.0118	0.0114	0.0117	5	0.0120	0.0117		0.35	0.0119	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	4.62	4.43	4.61	4.60	4.79	5	4.79	4.61			4.72	0
Mn-D	mg/L	0.0311	0.0309	0.0379	0.0335	0.0166	5	0.0379	0.0300			0.0361	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.433	0.399	0.442	0.419	0.403	5	0.442	0.419			0.438	0
S-D	mg/L	33.1	32.4	33.3	33.4	35.1	5	35.1	33.5			34.4	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	12.5	11.6	12.4	12.0	11.5	5	12.5	12.0			12.5	0
Sr-D	mg/L	0.258	0.255	0.264	0.264	0.259	5	0.264	0.260			0.264	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.039	0.043	0.036	0.028	<0.020	5	0.043	0.0312			0.0414	0
Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.													
Factor applied to less-than results when calculating statistics: 0.5													

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Table 38 Lakes Fall 9 Page(s)

EMS ID		E206619						Water Quality Guidelines					
StnName		Long Lake Middle 1M From B											
StnCode		LLMB											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	90	91	72	95	92	5	95	88.0	128		93.8	0
Turb	NTU	5.0	2.8	0.25	3.5	1.9	5	5.0	2.69			4.4	0
Alk-T	mg/L	43	43	34	45	40	5	45	41.0			44.2	0
Al-T	mg/L	0.0052	0.0083	0.0053	0.0058	0.0050	5	0.0083	0.0059	*		0.0073	0
As-T	mg/L	0.00028	0.00032	0.00060	0.00025	0.00028	5	0.00060	0.00035	0.005		0.00049	0
B-T	mg/L	0.082	0.075	0.065	0.078	0.092	5	0.092	0.078	1.2		0.088	0
Ba-T	mg/L	0.0061	0.0067	0.0071	0.0067	0.0068	5	0.0071	0.0067	1		0.007	0
Cd-T	mg/L	<0.000010	0.000073	<0.000010	<0.000010	<0.000010	5	0.000073	0.0000186			4.58E-05	0
Ca-T	mg/L	33.7	33.8	29.6	36.5	37.7	5	37.7	34.3			37.2	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	0.00088	<0.00050	<0.00050	<0.00050	5	0.00088	0.000376			0.000628	0
Fe-T	mg/L	0.052	0.070	0.018	0.038	0.033	5	0.070	0.042		1	0.063	0
Hard-T	mg/L	101	101	90.3	109	112	5	112	102.7			110.8	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	3.99	4.03	3.98	4.20	4.44	5	4.44	4.13			4.34	0
Mn-T	mg/L	0.652	0.461	0.0066	0.792	0.774	5	0.792	0.5371	0.737	0.8706	0.7848	2
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0032	<0.0030	5	0.0032	0.00184	0.007		0.00252	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.405	0.432	0.326	0.433	0.444	5	0.444	0.408			0.44	0
S-T	mg/L	29.1	28.8	25.8	30.5	32.4	5	32.4	29.3			31.6	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	11.1	11.1	8.64	11.8	12.3	5	12.3	10.99			12.1	0
Sr-T	mg/L	0.242	0.255	0.183	0.257	0.282	5	0.282	0.244			0.272	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	<0.0030	0.0034	0.0047	<0.0030	0.0034	5	0.0047	0.00290			0.00418	0
As-D	mg/L	0.00023	0.00021	0.00058	0.00025	0.00029	5	0.00058	0.00031			0.00046	0
Ba-D	mg/L	0.0047	0.0054	0.0071	0.0055	0.0062	5	0.0071	0.0058			0.0067	0
B-D	mg/L	0.090	0.091	0.067	0.090	0.083	5	0.091	0.084			0.091	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	39.3	38.6	30.1	39.1	39.4	5	39.4	37.3			39.4	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00028	0.00027	0.00030	0.00026	0.00030	5	0.00030	0.00028	*	*	0.0003	*
DOC	mg/L	2.2	2.5	3.4	2.3	3.1	5	3.4	2.7			3.3	0
Hard-D	mg/L	118	115	91.8	116	117	5	118	111.6			117.6	0
Fe-D	mg/L	0.0072	0.0057	0.0090	0.0059	0.0064	5	0.0090	0.0068		0.35	0.0083	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	4.69	4.59	4.06	4.52	4.55	5	4.69	4.48			4.65	0
Mn-D	mg/L	0.132	0.0792	<0.0010	0.509	0.418	5	0.509	0.22774			0.4726	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.470	0.444	0.338	0.444	0.452	5	0.470	0.430			0.463	0
S-D	mg/L	34.6	34.8	25.5	34.2	33.1	5	34.8	32.4			34.7	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	13.3	12.6	8.81	12.5	11.7	5	13.3	11.78			13.02	0
Sr-D	mg/L	0.279	0.283	0.185	0.280	0.276	5	0.283	0.261			0.282	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0065	5	0.0065	0.00530	0.0075	0.033	0.0049	0
N-NO23	mg/L	0.093	0.108	<0.020	0.088	0.067	5	0.108	0.0732			0.102	0
Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.													
Factor applied to less-than results when calculating statistics: 0.5													

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Table 38 Lakes Fall 9 Page(s)

EMS ID		E206618						Water Quality Guidelines					
StnName		Middle Quinsam Lake 1M											
StnCode		MQL1											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	8.4	7.6	7.4	7.6	8.0	5	8.4	7.8	128		8.2	0
Turb	NTU	0.25	0.29	0.41	0.28	0.32	5	0.41	0.31			0.37	0
Alk-T	mg/L	32	31	30	30	27	5	32	30.0			31.6	0
Al-T	mg/L	0.0076	0.0065	0.0083	0.0068	0.0081	5	0.0083	0.0075	*		0.0082	0
As-T	mg/L	0.00015	0.00014	0.00019	0.00013	0.00015	5	0.00019	0.00015	0.005		0.00017	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0010	<0.0010	0.0013	0.0011	0.0013	5	0.0013	0.00104	1		0.0013	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	7.80	7.17	8.96	7.47	8.12	5	8.96	7.90			8.62	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00064	<0.00050	<0.00050	<0.00050	<0.00050	5	0.00064	0.000328			0.000484	0
Fe-T	mg/L	0.028	0.025	0.037	0.030	0.034	5	0.037	0.031		1	0.036	0
Hard-T	mg/L	23.3	21.3	26.9	22.3	24.2	5	26.9	23.6			25.8	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	0.937	0.829	1.10	0.879	0.950	5	1.10	0.939			1.04	0
Mn-T	mg/L	0.0060	0.0091	0.0137	0.0087	0.0102	5	0.0137	0.0095	0.737	0.8706	0.0123	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.119	0.105	0.138	0.102	0.128	5	0.138	0.118			0.134	0
S-T	mg/L	3.4	<3.0	<3.0	<3.0	<3.0	5	3.4	1.88			2.64	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	5.94	5.07	6.35	5.02	5.52	5	6.35	5.58			6.19	0
Sr-T	mg/L	0.0267	0.0231	0.0298	0.0242	0.0273	5	0.0298	0.0262			0.0288	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0061	0.0052	0.0052	0.0043	0.0048	5	0.0061	0.0051			0.0057	0
As-D	mg/L	0.00016	0.00015	0.00011	0.00016	0.00016	5	0.00016	0.00015			0.00016	0
Ba-D	mg/L	0.0011	0.0012	0.0013	0.0012	0.0013	5	0.0013	0.0012			0.0013	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	9.04	8.86	8.98	8.55	8.52	5	9.04	8.79			9.02	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00045	0.00043	0.00040	0.00043	0.00049	5	0.00049	0.00044	*	*	0.00047	*
DOC	mg/L	2.3	1.9	2.3	1.9	2.4	5	2.4	2.2			2.4	0
Hard-D	mg/L	27.0	26.5	26.7	25.5	25.5	5	27.0	26.2			26.9	0
Fe-D	mg/L	0.0190	0.0168	0.0176	0.0168	0.0148	5	0.0190	0.0170		0.35	0.0184	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.07	1.08	1.04	1.01	1.02	5	1.08	1.04			1.08	0
Mn-D	mg/L	<0.0010	0.0028	0.0028	0.0016	0.0032	5	0.0032	0.00218			0.00304	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.138	0.127	0.145	0.125	0.136	5	0.145	0.134			0.142	0
S-D	mg/L	<3.0	<3.0	3.7	<3.0	<3.0	5	3.7	1.94			2.82	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	6.70	6.21	6.03	5.72	5.96	5	6.70	6.12			6.5	0
Sr-D	mg/L	0.0302	0.0278	0.0294	0.0261	0.0294	5	0.0302	0.0286			0.0299	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0

Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 38 Lakes Fall 9 Page(s)

EMS ID		E206618					Water Quality Guidelines						
StnName		Middle Quinsam Lake 4M											
StnCode		MQL4											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	8.5	7.5	7.4	8.3	8.0	5	8.5	7.9	128		8.4	0
Turb	NTU	0.29	0.37	0.40	0.32	0.44	5	0.44	0.36			0.42	0
Alk-T	mg/L	31	31	31	31	29	5	31	30.6			31	0
Al-T	mg/L	0.0082	0.0078	0.0081	0.0066	0.0073	5	0.0082	0.0076	*		0.0082	0
As-T	mg/L	0.00016	0.00015	0.00019	0.00015	0.00014	5	0.00019	0.00016	0.005		0.00018	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0011	0.0011	0.0013	0.0012	0.0013	5	0.0013	0.0012	1		0.0013	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	8.24	8.32	8.65	8.07	7.85	5	8.65	8.23			8.52	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0
Fe-T	mg/L	0.029	0.031	0.035	0.033	0.038	5	0.038	0.033		1	0.037	0
Hard-T	mg/L	24.7	24.8	25.9	24.0	23.4	5	25.9	24.6			25.5	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	0.994	0.968	1.04	0.931	0.922	5	1.04	0.971			1.022	0
Mn-T	mg/L	0.0064	0.0106	0.0132	0.0092	0.0104	5	0.0132	0.0100	0.737	0.8706	0.0122	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.121	0.128	0.135	0.110	0.124	5	0.135	0.124			0.132	0
S-T	mg/L	<3.0	<3.0	3.0	<3.0	<3.0	5	3.0	1.80			2.4	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	6.33	5.88	6.06	5.33	5.35	5	6.33	5.79			6.22	0
Sr-T	mg/L	0.0281	0.0267	0.0287	0.0259	0.0264	5	0.0287	0.0272			0.0285	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0066	0.0055	0.0051	0.0042	0.0048	5	0.0066	0.0052			0.0062	0
As-D	mg/L	0.00017	0.00014	0.00012	0.00017	0.00015	5	0.00017	0.00015			0.00017	0
Ba-D	mg/L	0.0011	0.0011	0.0012	0.0012	0.0013	5	0.0013	0.0012			0.0013	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	8.98	8.66	8.83	8.30	8.59	5	8.98	8.67			8.92	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00044	0.00042	0.00041	0.00041	0.00041	5	0.00044	0.00042	*	*	0.00043	*
DOC	mg/L	2.2	2.2	2.0	1.9	2.7	5	2.7	2.2			2.5	0
Hard-D	mg/L	26.9	26.0	26.3	24.8	25.6	5	26.9	25.9			26.7	0
Fe-D	mg/L	0.0192	0.0176	0.0164	0.0136	0.0161	5	0.0192	0.0166		0.35	0.0186	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.09	1.07	1.04	0.994	1.01	5	1.09	1.041			1.082	0
Mn-D	mg/L	<0.0010	0.0021	0.0023	0.0014	0.0031	5	0.0031	0.00188			0.00278	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.142	0.122	0.136	0.125	0.137	5	0.142	0.132			0.14	0
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	3.1	5	3.1	1.82			2.46	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	6.74	6.09	5.90	5.61	5.93	5	6.74	6.05			6.48	0
Sr-D	mg/L	0.0302	0.0274	0.0295	0.0257	0.0293	5	0.0302	0.0284			0.0299	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0
Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 38 Lakes Fall 9 Page(s)

EMS ID		E206618					Water Quality Guidelines						
StnName		Middle Quinsam Lake 9M											
StnCode		MQL9											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	8.5	7.4	7.4	7.4	8.1	5	8.5	7.8	128		8.3	0
Turb	NTU	0.26	0.27	0.31	0.28	0.40	5	0.40	0.30			0.36	0
Alk-T	mg/L	33	33	31	29	29	5	33	31.0			33	0
Al-T	mg/L	0.0071	0.0075	0.0072	0.0069	0.0072	5	0.0075	0.0072	*		0.0074	0
As-T	mg/L	0.00015	0.00015	0.00018	0.00014	0.00015	5	0.00018	0.00015	0.005		0.00017	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0011	0.0011	0.0012	0.0011	0.0012	5	0.0012	0.0011	1		0.0012	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	8.10	8.11	8.87	7.84	8.15	5	8.87	8.21			8.58	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0
Fe-T	mg/L	0.030	0.032	0.038	0.031	0.036	5	0.038	0.033		1	0.037	0
Hard-T	mg/L	24.2	24.1	26.5	23.2	24.3	5	26.5	24.5			25.6	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	0.958	0.936	1.06	0.892	0.956	5	1.06	0.960			1.019	0
Mn-T	mg/L	0.0075	0.0095	0.0136	0.0088	0.0106	5	0.0136	0.0100	0.737	0.8706	0.0124	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.122	0.117	0.131	0.112	0.127	5	0.131	0.122			0.129	0
S-T	mg/L	<3.0	<3.0	3.1	<3.0	<3.0	5	3.1	1.82			2.46	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	6.16	5.69	6.01	5.20	5.54	5	6.16	5.72			6.1	0
Sr-T	mg/L	0.0276	0.0261	0.0290	0.0246	0.0272	5	0.0290	0.0269			0.0284	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0282	0.0055	0.0051	0.0049	0.0050	5	0.0282	0.0097			0.0191	0
As-D	mg/L	0.00017	0.00014	0.00012	0.00016	0.00015	5	0.00017	0.00015			0.00017	0
Ba-D	mg/L	0.0012	0.0012	0.0012	0.0012	0.0013	5	0.0013	0.0012			0.0013	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	9.04	8.63	8.84	8.38	8.45	5	9.04	8.67			8.96	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00097	0.00041	0.00040	0.00040	0.00042	5	0.00097	0.00052	*	*	0.00075	*
DOC	mg/L	2.1	2.2	2.2	2.0	2.4	5	2.4	2.2			2.3	0
Hard-D	mg/L	27.0	25.9	26.4	25.1	25.2	5	27.0	25.9			26.8	0
Fe-D	mg/L	0.0190	0.0192	0.0165	0.0139	0.0154	5	0.0192	0.0168		0.35	0.0191	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.08	1.06	1.04	1.01	0.989	5	1.08	1.036			1.072	0
Mn-D	mg/L	<0.0010	0.0019	0.0022	0.0014	0.0030	5	0.0030	0.00180			0.00268	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.136	0.122	0.138	0.126	0.127	5	0.138	0.130			0.137	0
S-D	mg/L	<3.0	3.1	<3.0	<3.0	<3.0	5	3.1	1.82			2.46	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	6.85	6.09	5.88	5.70	5.77	5	6.85	6.06			6.55	0
Sr-D	mg/L	0.0309	0.0271	0.0293	0.0254	0.0285	5	0.0309	0.0282			0.0303	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0
Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 38 Lakes Fall 9 Page(s)

EMS ID		E206618						Water Quality Guidelines					
StnName		Middle Quinsam Lake 1MB											
StnCode		MLB											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	17	14	7.4	7.6	7.8	5	17	10.8	128		15.8	0
Turb	NTU	1.1	0.91	0.36	0.33	0.32	5	1.1	0.60			1.02	0
Alk-T	mg/L	40	38	30	31	28	5	40	33.4			39.2	0
Al-T	mg/L	0.0049	0.0058	0.0083	0.0075	0.0075	5	0.0083	0.0068	*		0.008	0
As-T	mg/L	0.00014	0.00013	0.00018	0.00015	0.00015	5	0.00018	0.00015	0.005		0.00017	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0023	0.0021	0.0013	0.0012	0.0013	5	0.0023	0.0016	1		0.0022	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	11.4	10.1	9.17	8.38	8.07	5	11.4	9.42			10.88	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00056	0.00051	<0.00050	<0.00050	<0.00050	5	0.00056	0.000364			0.00054	0
Fe-T	mg/L	0.107	0.095	0.043	0.034	0.036	5	0.107	0.063		1	0.102	0
Hard-T	mg/L	34.7	30.5	27.5	25.0	24.1	5	34.7	28.4			33	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	1.51	1.28	1.11	0.978	0.951	5	1.51	1.166			1.418	0
Mn-T	mg/L	0.442	0.407	0.0155	0.0096	0.0107	5	0.442	0.1770	0.737	0.8706	0.428	0
P-T	mg/L	0.0039	0.0033	<0.0030	<0.0030	<0.0030	5	0.0039	0.00234	0.007		0.00366	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.207	0.173	0.135	0.119	0.128	5	0.207	0.152			0.193	0
S-T	mg/L	5.3	4.5	<3.0	<3.0	<3.0	5	5.3	2.86			4.98	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	10.9	8.91	6.27	5.56	5.53	5	10.9	7.43			10.1	0
Sr-T	mg/L	0.0534	0.0438	0.0296	0.0269	0.0269	5	0.0534	0.0361			0.0496	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	<0.0030	<0.0030	0.0047	0.0041	0.0045	5	0.0047	0.00326			0.00462	0
As-D	mg/L	0.00014	0.00012	0.00014	0.00015	0.00015	5	0.00015	0.00014			0.00015	0
Ba-D	mg/L	0.0021	0.0021	0.0012	0.0012	0.0013	5	0.0021	0.0016			0.0021	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	12.1	11.1	9.00	8.37	8.49	5	12.1	9.81			11.7	0
Cl-D	mg/L	3.0	3.1	<1.0	<1.0	<1.0	5	3.1	1.52	150	600	3.06	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00054	0.00051	0.00038	0.00040	0.00044	5	0.00054	0.00045	*	*	0.00053	*
DOC	mg/L	2.1	2.1	2.3	1.9	2.2	5	2.3	2.1			2.3	0
Hard-D	mg/L	36.6	33.8	26.8	25.1	25.3	5	36.6	29.5			35.5	0
Fe-D	mg/L	0.0264	0.0292	0.0185	0.0134	0.0146	5	0.0292	0.0204		0.35	0.0281	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.58	1.48	1.04	1.02	0.994	5	1.58	1.223			1.54	0
Mn-D	mg/L	0.408	0.425	0.0041	0.0014	0.0029	5	0.425	0.1683			0.4182	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.223	0.190	0.142	0.124	0.128	5	0.223	0.161			0.21	0
S-D	mg/L	4.8	5.3	3.5	<3.0	<3.0	5	5.3	3.32			5.1	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	11.3	10.1	5.96	5.69	5.79	5	11.3	7.77			10.82	0
Sr-D	mg/L	0.0566	0.0477	0.0293	0.0259	0.0282	5	0.0566	0.0375			0.053	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0
Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 38 Lakes Fall 9 Page(s)

EMS ID		LLE Zone of Dilution 2						Water Quality Guidelines					
StnName		LLE72											
StnCode		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	Count of results exceeding standard
SO4-D	mg/L	62	67	74	76	80	5	80	71.8	128		78.4	0
Turb	NTU	0.23	0.39	0.29	0.28	0.35	5	0.39	0.31			0.37	0
Alk-T	mg/L	31	34	33	31	30	5	34	31.8			33.6	0
Al-T	mg/L	0.0062	0.0078	0.0063	0.0070	0.0065	5	0.0078	0.0068	*		0.0075	0
As-T	mg/L	0.00054	0.00056	0.00058	0.00051	0.00048	5	0.00058	0.00053	0.005		0.00057	0
B-T	mg/L	0.055	0.059	0.067	0.056	0.072	5	0.072	0.062	1.2		0.07	0
Ba-T	mg/L	0.0055	0.0062	0.0070	0.0064	0.0072	5	0.0072	0.0065	1		0.0071	0
Cd-T	mg/L	<0.000010	0.000028	<0.000010	<0.000010	<0.000010	5	0.000028	0.0000096			1.88E-05	0
Ca-T	mg/L	23.9	25.2	29.5	27.5	30.5	5	30.5	27.3			30.1	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00070	0.00055	<0.00050	<0.00050	<0.00050	5	0.00070	0.000400			0.00064	0
Fe-T	mg/L	0.017	0.026	0.018	0.017	0.022	5	0.026	0.020		1	0.024	0
Hard-T	mg/L	73.1	76.8	89.9	83.5	92.4	5	92.4	83.1			91.4	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	3.24	3.38	3.94	3.59	3.97	5	3.97	3.62			3.96	0
Mn-T	mg/L	0.0058	0.0063	0.0071	0.0060	0.0111	5	0.0111	0.0073	0.737	0.8706	0.0095	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.272	0.293	0.326	0.301	0.332	5	0.332	0.305			0.33	0
S-T	mg/L	17.8	21.5	26.6	23.8	26.6	5	26.6	23.3			26.6	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	6.89	7.25	8.56	7.83	8.91	5	8.91	7.89			8.77	0
Sr-T	mg/L	0.145	0.163	0.183	0.168	0.195	5	0.195	0.171			0.19	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0048	0.0040	0.0033	0.0044	0.0037	5	0.0048	0.0040			0.0046	0
As-D	mg/L	0.00060	0.00057	0.00055	0.00054	0.00055	5	0.00060	0.00056			0.00059	0
Ba-D	mg/L	0.0065	0.0068	0.0070	0.0074	0.0080	5	0.0080	0.0071			0.0078	0
B-D	mg/L	0.062	0.062	0.059	0.066	0.066	5	0.066	0.063			0.066	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	26.7	28.5	30.4	30.7	33.1	5	33.1	29.9			32.1	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00032	0.00029	0.00028	0.00029	0.00032	5	0.00032	0.00030	*	*	0.00032	*
DOC	mg/L	2.9	2.9	3.0	2.8	3.6	5	3.6	3.0			3.4	0
Hard-D	mg/L	81.7	86.5	92.2	92.8	100	5	100	90.6			97.1	0
Fe-D	mg/L	0.0111	0.0091	0.0079	0.0082	0.0081	5	0.0111	0.0089		0.35	0.0103	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	3.64	3.73	3.94	3.88	4.31	5	4.31	3.90			4.16	0
Mn-D	mg/L	0.0019	<0.0010	0.0014	0.0011	0.0035	5	0.0035	0.00168			0.00286	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.300	0.304	0.348	0.309	0.368	5	0.368	0.326			0.36	0
S-D	mg/L	22.7	24.6	27.2	25.9	29.3	5	29.3	25.9			28.5	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	7.75	8.06	8.44	8.39	9.31	5	9.31	8.39			8.96	0
Sr-D	mg/L	0.162	0.182	0.188	0.195	0.205	5	0.205	0.186			0.201	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	<0.020	<0.020	0.072	<0.020	5	0.072	0.0224			0.0472	0
Notes: * Variable, calculated guideline. Refer to Tables 3 and 4.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

River's Fall 2023													
EMS ID	E217017							Water Quality Guidelines					
StnName	No Name Lake Outlet												Count of results exceeding standard
StnCode	NNO											90th Percentile	
Date	Unit	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	14-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute		
pH-F	pH Units	6.23	6.23	6.33	6.33	6.66	5	6.66	6.36			6.53	0
Cond-F	uS/cm	38.4	39.3	39.3	39.2	39.8	5	39.8	39.2			39.6	0
SO4-D	mg/L	2.9	2.3	2.2	2.1	1.4	5	2.9	2.2	128		2.7	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	1.0	5	1.0	0.60	150	600	0.8	0
TSS	mg/L	1.2	<1.0	<1.0	1.2	<1.0	5	1.2	0.78			1.2	0
Alk-T	mg/L	15	14	13	12	11	5	15	13.0			14.6	0
Al-T	mg/L	0.0104	0.0172	0.0212	0.0268	0.0502	5	0.0502	0.0252			0.0408	0
As-T	mg/L	0.00031	0.00029	0.00030	0.00025	0.00022	5	0.00031	0.00027	0.005		0.00031	0
Ba-T	mg/L	0.0011	0.0011	0.0012	0.0011	0.0012	5	0.0012	0.0011	1		0.0012	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Bicarb	mg/L	18	17	16	15	13	5	18	15.8			17.6	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	4.46	4.13	4.46	4.05	3.62	5	4.46	4.14			4.46	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	0.00052	<0.00050	0.00060	5	0.00060	0.000374			0.000568	0
Hard-T	mg/L	15.2	14.0	14.9	13.5	12.2	5	15.2	14.0			15.1	0
Fe-T	mg/L	0.030	0.036	0.047	0.049	0.081	5	0.081	0.049		1	0.068	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	0.982	0.893	0.924	0.832	0.768	5	0.982	0.880			0.959	0
Mn-T	mg/L	0.0034	0.0028	0.0037	0.0043	0.0073	5	0.0073	0.0043	0.737	0.8706	0.0061	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.075	0.073	0.077	0.070	0.080	5	0.080	0.075			0.079	0
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	1.25	1.17	1.21	1.10	1.07	5	1.25	1.16			1.23	0
Sr-T	mg/L	0.0130	0.0136	0.0138	0.0125	0.0115	5	0.0138	0.0129			0.0137	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0079	0.0144	0.0169	0.0245	0.0469	5	0.0469	0.0221			0.0379	0
As-D	mg/L	0.00035	0.00030	0.00027	0.00026	0.00028	5	0.00035	0.00029			0.00033	0
Ba-D	mg/L	0.0012	0.0013	0.0012	0.0012	0.0014	5	0.0014	0.0013			0.0014	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	4.23	4.74	4.42	4.32	4.40	5	4.74	4.42			4.61	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00043	0.00043	0.00039	0.00047	0.00066	5	0.00066	0.00048	*	*	0.00058	0
Hard-D	mg/L	14.6	15.8	15.0	14.7	14.8	5	15.8	15.0			15.5	0
DOC	mg/L	3.2	3.4	3.9	4.0	5.0	5	5.0	3.9			4.6	0
Fe-D	mg/L	0.0210	0.0226	0.0299	0.0357	0.0645	5	0.0645	0.0347		0.35	0.053	0
Pb-D	mg/L	0.00389	<0.00020	<0.00020	<0.00020	<0.00020	5	0.00389	0.000858			0.002374	0
Mg-D	mg/L	0.972	0.973	0.969	0.957	0.925	5	0.973	0.959			0.973	0
Mn-D	mg/L	0.0018	0.0015	0.0026	0.0036	0.0070	5	0.0070	0.0033			0.0056	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.066	0.083	0.058	0.071	0.093	5	0.093	0.074			0.089	0
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	1.27	1.29	1.25	1.28	1.27	5	1.29	1.27			1.29	0
Sr-D	mg/L	0.0122	0.0151	0.0138	0.0131	0.0140	5	0.0151	0.0136			0.0147	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0

Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

EMS ID	E219412						Water Quality Guidelines						
StnName	Long Lake Outlet												
StnCode	LLO												
Date	Unit	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	14-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard
pH-F	pH Units	6.66	6.75	6.93	6.58	6.02	5	6.93	6.59			6.86	0
Cond-F	uS/cm	248	263	268	172.5	119.8	5	268	214.3			266	0
SO4-D	mg/L	75	77	78	50	31	5	78	62.2	128		77.6	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
TSS	mg/L	<1.0	<1.0	3.2	<1.0	1.2	5	3.2	1.18			2.4	0
Alk-T	mg/L	33	32	31	25	18	5	33	27.8			32.6	0
Al-T	mg/L	0.0115	0.0067	0.0058	0.0139	0.0380	5	0.0380	0.0152			0.0284	0
As-T	mg/L	0.00045	0.00048	0.00044	0.00039	0.00037	5	0.00048	0.00043	0.005		0.00047	0
Ba-T	mg/L	0.0066	0.0069	0.0073	0.0047	0.0037	5	0.0073	0.0058	1		0.0071	0
B-T	mg/L	0.062	0.062	0.060	<0.050	<0.050	5	0.062	0.0468	1.2		0.062	0
Bicarb	mg/L	41	38	38	31	21	5	41	33.8			39.8	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	26.8	29.1	29.6	18.8	12.3	5	29.6	23.3			29.4	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	0.00050	0.00267	<0.00050	<0.00050	5	0.00267	0.000784			0.001802	0
Hard-T	mg/L	82.1	88.9	90.8	57.8	38.5	5	90.8	71.6			90	0
Fe-T	mg/L	0.023	0.018	0.016	0.031	0.060	5	0.060	0.030		1	0.048	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	3.68	3.93	4.07	2.62	1.87	5	4.07	3.23			4.01	0
Mn-T	mg/L	0.0045	0.0047	0.0043	0.0062	0.0055	5	0.0062	0.0050	0.737	0.8706	0.0059	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	0.0036	<0.0010	<0.0010	5	0.0036	0.00112	0.025		0.00236	0
K-T	mg/L	0.336	0.316	0.324	0.229	0.184	5	0.336	0.278			0.331	0
S-T	mg/L	23.5	26.6	27.8	15.8	9.2	5	27.8	20.6			27.3	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	8.04	8.59	8.93	5.57	3.77	5	8.93	6.98			8.79	0
Sr-T	mg/L	0.166	0.192	0.181	0.112	0.0679	5	0.192	0.1438			0.1876	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0051	0.0036	0.0041	0.0104	0.0340	5	0.0340	0.0114			0.0246	0
As-D	mg/L	0.00049	0.00051	0.00044	0.00039	0.00040	5	0.00051	0.00045			0.0005	0
Ba-D	mg/L	0.0068	0.0081	0.0077	0.0046	0.0040	5	0.0081	0.0062			0.0079	0
B-D	mg/L	0.058	0.067	0.066	<0.050	<0.050	5	0.067	0.0482			0.0666	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	29.3	33.1	31.4	19.2	13.9	5	33.1	25.4			32.4	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00032	0.00031	0.00030	0.00033	0.00051	5	0.00051	0.00035	*	*	0.00044	0
Hard-D	mg/L	88.6	99.4	95.6	59.4	43.7	5	99.4	77.3			97.9	0
DOC	mg/L	3.4	3.0	3.3	3.4	5.5	5	5.5	3.7			4.7	0
Fe-D	mg/L	0.0101	0.0065	0.0084	0.0193	0.0495	5	0.0495	0.0188		0.35	0.0374	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	3.76	4.05	4.15	2.79	2.17	5	4.15	3.38			4.11	0
Mn-D	mg/L	0.0016	0.0014	0.0016	0.0030	0.0037	5	0.0037	0.0023			0.0034	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.307	0.352	0.346	0.219	0.207	5	0.352	0.286			0.35	0
S-D	mg/L	26.4	28.4	29.4	19.0	10.8	5	29.4	22.8			29	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	8.28	9.05	9.38	5.88	4.27	5	9.38	7.37			9.25	0
Sr-D	mg/L	0.175	0.216	0.213	0.109	0.0777	5	0.216	0.1581			0.2148	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0

Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

EMS ID	E0126402							Water Quality Guidelines					
StnName	Quinsam River at Argonaut Bridge												
StnCode	WA												
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard
pH-F	pH Units	6.61	6.24	6.18	6.59	6.73	5	6.73	6.47			6.68	0
Cond-F	uS/cm	45.6	41.3	47	47.4	44.2	5	47.4	45.1			47.2	0
SO4-D	mg/L	1.3	<1.0	<1.0	1.3	<1.0	5	1.3	0.82	128		1.3	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5	0
Alk-T	mg/L	22	18	22	18	17	5	22	19.4			22	0
Al-T	mg/L	0.0156	0.0374	0.0175	0.0144	0.0281	5	0.0374	0.0226			0.0337	0
As-T	mg/L	0.00012	0.00018	0.00013	0.00013	0.00015	5	0.00018	0.00014	0.005		0.00017	0
Ba-T	mg/L	<0.0010	0.0018	<0.0010	<0.0010	0.0014	5	0.0018	0.00094	1		0.00164	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Bicarb	mg/L	27	22	26	22	21	5	27	23.6			26.6	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	6.83	4.95	6.17	6.67	5.07	5	6.83	5.94			6.77	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00059	0.00062	0.00054	0.00054	0.00057	5	0.00062	0.00057			0.00061	0
Hard-T	mg/L	20.1	15.0	18.3	19.7	15.2	5	20.1	17.7			19.9	0
Fe-T	mg/L	0.015	0.023	0.017	0.015	0.020	5	0.023	0.018		1	0.022	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	0.738	0.636	0.706	0.734	0.608	5	0.738	0.684			0.736	0
Mn-T	mg/L	0.0017	0.0022	0.0015	0.0012	0.0012	5	0.0022	0.0016	0.737	0.8706	0.002	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.063	0.090	0.066	0.055	0.066	5	0.090	0.068			0.08	0
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	0.649	0.836	0.685	0.652	0.738	5	0.836	0.712			0.797	0
Sr-T	mg/L	0.0110	0.0091	0.0110	0.0109	0.0101	5	0.0110	0.0104			0.011	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0100	0.0404	0.0149	0.0104	0.0275	5	0.0404	0.0206			0.0352	0
As-D	mg/L	0.00013	0.00024	0.00014	0.00014	0.00018	5	0.00024	0.00017			0.00022	0
Ba-D	mg/L	<0.0010	0.0023	0.0011	<0.0010	0.0017	5	0.0023	0.00122			0.00206	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	6.98	5.98	7.23	6.91	6.02	5	7.23	6.62			7.13	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00050	0.00066	0.00059	0.00052	0.00060	5	0.00066	0.00057	*	*	0.00064	0
Hard-D	mg/L	20.6	18.0	21.4	20.5	18.2	5	21.4	19.7			21.1	0
DOC	mg/L	2.1	4.3	2.1	2.2	3.1	5	4.3	2.8			3.8	0
Fe-D	mg/L	0.0061	0.0172	0.0110	0.0080	0.0164	5	0.0172	0.0117		0.35	0.0169	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	0.779	0.750	0.818	0.787	0.766	5	0.818	0.780			0.806	0
Mn-D	mg/L	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	5	0.0011	0.00062			0.00086	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.059	0.099	0.078	0.063	0.073	5	0.099	0.074			0.091	0
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	0.666	0.946	0.796	0.707	0.880	5	0.946	0.799			0.92	0
Sr-D	mg/L	0.0115	0.0110	0.0120	0.0118	0.0116	5	0.0120	0.0116			0.0119	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

EMS ID	E0900504										Water Quality Guidelines		
StnName	Middle Quinsam Lake Outlet												
StnCode	WB											Count of results	
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	exceeding standard
pH-F	pH Units	6.64	6.59	6.92	7.04	6.66	5	7.04	6.77			6.99	0
Cond-F	uS/cm	80	78.9	86.9	90.2	108.8	5	108.8	89			101.4	0
SO4-D	mg/L	8.1	8.8	12	11	19	5	19	11.8	128		16.2	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	150	600	0.5	0
TSS	mg/L	<1.0	<1.0	<1.0	1.6	<1.0	5	1.6	0.72			1.16	0
Alk-T	mg/L	30	31	29	29	28	5	31	29.4			30.6	0
Al-T	mg/L	0.0075	0.0062	0.007	0.009	0.0084	5	0.009	0.0076			0.0088	0
As-T	mg/L	0.00016	0.00014	0.00017	0.00016	0.00018	5	0.00018	0.00016	0.005		0.00018	0
Ba-T	mg/L	0.0012	0.0013	0.0017	0.0016	0.0020	5	0.0020	0.0016	1		0.0019	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.025	1.2		0.025	0
Bicarb	mg/L	37	38	36	35	34	5	38	36			37.6	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	7.98	8.3	9.79	9.04	9.83	5	9.83	8.99			9.81	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.00025			0.00025	0
Hard-T	mg/L	24.0	25	29.5	27.2	30	5	30	27.1			29.8	0
Fe-T	mg/L	0.028	0.035	0.032	0.034	0.031	5	0.035	0.032		1	0.035	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	0.98	1.03	1.22	1.12	1.33	5	1.33	1.135			1.286	0
Mn-T	mg/L	0.0081	0.0101	0.0087	0.0093	0.0073	5	0.0101	0.0087	0.737	0.8706	0.0098	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.123	0.126	0.141	0.14	0.142	5	0.142	0.134			0.142	0
S-T	mg/L	<3.0	3	4	3.6	5.6	5	5.6	3.54			4.96	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	5.57	5.6	5.8	5.8	5.4	5	5.8	5.63			5.79	0
Sr-T	mg/L	0.0268	0.0256	0.0378	0.0327	0.0454	5	0.0454	0.0337			0.0424	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0062	0.0039	0.0051	0.0049	0.0053	5	0.0062	0.0051			0.0058	0
As-D	mg/L	0.00016	0.00016	0.00017	0.00017	0.0002	5	0.0002	0.00017			0.00019	0
Ba-D	mg/L	0.0013	0.0014	0.0017	0.0016	0.0021	5	0.0021	0.0016			0.0019	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.025			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	0.000016	<0.000010	<0.000010	5	0.000016	0.0000072	0.000087	0.00017	1.16E-05	0
Ca-D	mg/L	8.42	8.46	10.5	9.46	10.7	5	10.7	9.51			10.62	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.0004	0.00037	0.00047	0.00041	0.00038	5	0.00047	0.00041	*	*	0.00045	0
Hard-D	mg/L	25.4	25.3	31.7	28.3	32.6	5	32.6	28.7			32.2	0
DOC	mg/L	1.9	1.7	2	2.4	2.5	5	2.5	2.1			2.5	0
Fe-D	mg/L	0.0167	0.0176	0.0158	0.015	0.0179	5	0.0179	0.0166		0.35	0.0178	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.06	1.02	1.3	1.13	1.43	5	1.43	1.19			1.38	0
Mn-D	mg/L	0.002	0.0024	0.0027	0.0036	0.004	5	0.004	0.0029			0.0038	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.125	0.116	0.151	0.143	0.147	5	0.151	0.136			0.149	0
S-D	mg/L	3.3	<3.0	4.4	3.9	6.9	5	6.9	4			5.9	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	6.07	5.46	6.33	6	6.13	5	6.33	6			6.25	0
Sr-D	mg/L	0.0286	0.0261	0.038	0.036	0.0459	5	0.0459	0.0349			0.0427	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

EMS ID	E286930							Water Quality Guidelines					
StnName	Quinsam River Downstream Site 1												
StnCode	QRDS1												
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard
pH-F	pH Units	6.97	6.59	6.81	6.76	7.1	5	7.1	6.85			7.05	0
Cond-F	uS/cm	103.4	121.9	122.8	103.7	133.7	5	133.7	117.1			129.3	0
SO4-D	mg/L	8.6	12	14	13	27	5	27	14.9	128		21.8	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
TSS	mg/L	<1.0	2.0	<1.0	2.0	<1.0	5	2.0	1.10			2	0
Alk-T	mg/L	32	33	30	30	31	5	33	31.2			32.6	0
Al-T	mg/L	0.0130	0.0100	0.0084	0.0067	0.0122	5	0.0130	0.0101			0.0127	0
As-T	mg/L	0.00031	0.00037	0.00030	0.00028	0.00039	5	0.00039	0.00033	0.005		0.00038	0
Ba-T	mg/L	0.0015	0.0017	0.0018	0.0018	0.0027	5	0.0027	0.0019	1		0.0023	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Bicarb	mg/L	39	40	36	36	38	5	40	37.8			39.6	0
Cd-T	mg/L	0.000021	<0.000010	<0.000010	<0.000010	<0.000010	5	0.000021	0.0000082			1.46E-05	0
Ca-T	mg/L	8.10	8.93	9.81	9.53	11.8	5	11.8	9.63			11	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00072	<0.00050	<0.00050	<0.00050	<0.00050	5	0.00072	0.000344			0.000532	0
Hard-T	mg/L	24.4	27.0	29.7	28.5	36.2	5	36.2	29.2			33.6	0
Fe-T	mg/L	0.041	0.059	0.034	0.025	0.041	5	0.059	0.040		1	0.052	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	1.02	1.15	1.25	1.15	1.65	5	1.65	1.24			1.49	0
Mn-T	mg/L	0.0048	0.0054	0.0048	0.0039	0.0052	5	0.0054	0.0048	0.737	0.8706	0.0053	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.169	0.153	0.158	0.141	0.172	5	0.172	0.159			0.171	0
S-T	mg/L	<3.0	3.8	4.6	4.0	8.0	5	8.0	4.38			6.64	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	6.09	6.58	6.16	5.95	6.27	5	6.58	6.21			6.46	0
Sr-T	mg/L	0.0292	0.0312	0.0403	0.0392	0.0605	5	0.0605	0.0401			0.0524	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0048	0.0048	0.0048	0.0038	0.0071	5	0.0071	0.0051			0.0062	0
As-D	mg/L	0.00030	0.00037	0.00028	0.00029	0.00039	5	0.00039	0.00033			0.00038	0
Ba-D	mg/L	0.0015	0.0018	0.0020	0.0018	0.0029	5	0.0029	0.0020			0.0025	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	8.80	9.33	11.0	10.1	12.8	5	12.8	10.41			12.08	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00043	0.00046	0.00045	0.00039	0.00042	5	0.00046	0.00043	*	*	0.00046	0
Hard-D	mg/L	26.6	28.3	33.2	30.1	39.6	5	39.6	31.6			37	0
DOC	mg/L	2.4	2.1	2.3	2.1	3.1	5	3.1	2.4			2.8	0
Fe-D	mg/L	0.0210	0.0265	0.0193	0.0125	0.0250	5	0.0265	0.0209		0.35	0.0259	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.12	1.23	1.38	1.20	1.82	5	1.82	1.35			1.64	0
Mn-D	mg/L	0.0013	0.0017	0.0014	0.0011	0.0018	5	0.0018	0.0015			0.0018	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.172	0.154	0.172	0.149	0.179	5	0.179	0.165			0.176	0
S-D	mg/L	3.2	3.7	5.0	4.8	9.6	5	9.6	5.3			7.8	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	6.71	7.01	6.87	6.34	7.07	5	7.07	6.80			7.05	0
Sr-D	mg/L	0.0313	0.0313	0.0423	0.0410	0.0617	5	0.0617	0.0415			0.0539	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

EMS ID	E292113							Water Quality Guidelines					
StnName	7 South Quinsam River												
StnCode	7SQR												
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard
pH-F	pH Units	6.54	6.39	6.02	6.58	6.58	5	6.58	6.42			6.58	0
Cond-F	uS/cm	93.6	92.7	96.1	96.7	81.2	5	96.7	92.1			96.5	0
SO4-D	mg/L	8.9	11	13	13	12	5	13	11.6	128		13	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5	0
Alk-T	mg/L	32	34	29	29	23	5	34	29.4			33.2	0
Al-T	mg/L	0.0137	0.0265	0.0158	0.0103	0.0585	5	0.0585	0.0250			0.0457	0
As-T	mg/L	0.00040	0.00044	0.00035	0.00035	0.00061	5	0.00061	0.00043	0.005		0.00054	0
Ba-T	mg/L	0.0018	0.0021	0.0019	0.0020	0.0034	5	0.0034	0.0022	1		0.0029	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Bicarb	mg/L	38	41	36	35	28	5	41	35.6			39.8	0
Cd-T	mg/L	0.000015	<0.000010	<0.000010	<0.000010	0.000014	5	0.000015	0.0000088			1.46E-05	0
Ca-T	mg/L	8.61	8.65	9.11	9.86	8.77	5	9.86	9.00			9.56	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00054	0.00060	<0.00050	0.00065	0.00082	5	0.00082	0.000572			0.000752	0
Hard-T	mg/L	26.1	26.6	27.6	29.6	26.1	5	29.6	27.2			28.8	0
Fe-T	mg/L	0.084	0.117	0.075	0.063	0.078	5	0.117	0.083		1	0.104	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	1.11	1.22	1.19	1.20	1.03	5	1.22	1.15			1.21	0
Mn-T	mg/L	0.0050	0.0051	0.0054	0.0058	0.0033	5	0.0058	0.0049	0.737	0.8706	0.0056	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.180	0.186	0.167	0.148	0.166	5	0.186	0.169			0.184	0
S-T	mg/L	<3.0	3.4	4.1	4.3	<3.0	5	4.3	2.96			4.22	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00012	5	0.00012	0.000064	0.002		9.20E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	6.16	5.94	5.55	6.02	2.82	5	6.16	5.30			6.1	0
Sr-T	mg/L	0.0312	0.0301	0.0378	0.0388	0.0358	5	0.0388	0.0347			0.0384	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0067	0.0202	0.0115	0.0065	0.0461	5	0.0461	0.0182			0.0357	0
As-D	mg/L	0.00040	0.00045	0.00037	0.00036	0.00063	5	0.00063	0.00044			0.00056	0
Ba-D	mg/L	0.0019	0.0023	0.0023	0.0021	0.0036	5	0.0036	0.0024			0.0031	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	9.29	8.93	10.9	10.1	9.12	5	10.9	9.67			10.58	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00043	0.00062	0.00049	0.00052	0.00074	5	0.00074	0.00056	*	*	0.00069	0
Hard-D	mg/L	28.1	27.3	33.2	30.6	27.5	5	33.2	29.3			32.2	0
DOC	mg/L	2.6	3.6	2.9	2.5	5.2	5	5.2	3.4			4.6	0
Fe-D	mg/L	0.0579	0.0837	0.0606	0.0450	0.0490	5	0.0837	0.0592		0.35	0.0745	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.19	1.22	1.44	1.30	1.15	5	1.44	1.26			1.38	0
Mn-D	mg/L	0.0046	0.0049	0.0055	0.0057	0.0024	5	0.0057	0.0046			0.0056	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.193	0.189	0.195	0.169	0.162	5	0.195	0.182			0.194	0
S-D	mg/L	3.1	3.9	5.0	4.6	3.9	5	5.0	4.1			4.8	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	5	0.00014	0.000068			0.000104	0
Na-D	mg/L	6.88	6.23	6.74	6.62	3.17	5	6.88	5.93			6.82	0
Sr-D	mg/L	0.0341	0.0309	0.0427	0.0418	0.0363	5	0.0427	0.0372			0.0423	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

EMS ID	E297231							Water Quality Guidelines					
StnName	Iron River Site 6												Count of results
StnCode	IR6												exceeding
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	standard
pH-F	pH Units	7.05	6.75	6.72	7.17	6.82	5	7.17	6.90			7.12	0
Cond-F	uS/cm	116.3	52.6	70.7	74.8	55.3	5	116.3	73.9			99.7	0
SO4-D	mg/L	10	1.3	5.3	6.1	2.7	5	10	5.1	128		8.4	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
TSS	mg/L	<1.0	1.2	<1.0	<1.0	<1.0	5	1.2	0.64			0.92	0
Alk-T	mg/L	38	17	25	28	18	5	38	25.2			34	0
Al-T	mg/L	0.0387	0.125	0.0445	0.0328	0.0830	5	0.125	0.0648			0.1082	0
As-T	mg/L	0.00124	0.00046	0.00076	0.00113	0.00052	5	0.00124	0.00082	0.005		0.0012	0
Ba-T	mg/L	0.0067	0.0046	0.0044	0.0052	0.0037	5	0.0067	0.0049	1		0.0061	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Bicarb	mg/L	46	21	30	34	22	5	46	30.6			41.2	0
Cd-T	mg/L	0.000015	0.000022	<0.000010	<0.000010	0.000011	5	0.000022	0.0000116			1.92E-05	0
Ca-T	mg/L	15.7	7.72	9.05	11.2	6.89	5	15.7	10.11			13.9	0
Cr-T	mg/L	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	5	0.0012	0.00064			0.00092	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00089	0.00118	0.00072	0.00060	0.00171	5	0.00171	0.00102			0.0015	0
Hard-T	mg/L	44.0	22.7	26.1	32.1	20.1	5	44.0	29.0			39.2	0
Fe-T	mg/L	0.045	0.108	0.039	0.019	0.049	5	0.108	0.052		1	0.084	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	1.15	0.823	0.844	1.00	0.691	5	1.15	0.902			1.09	0
Mn-T	mg/L	0.0029	0.0030	0.0010	<0.0010	0.0012	5	0.0030	0.00172	0.737	0.8706	0.00296	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.230	0.203	0.153	0.151	0.143	5	0.230	0.176			0.219	0
S-T	mg/L	3.1	<3.0	<3.0	<3.0	<3.0	5	3.1	1.82			2.46	0
Se-T	mg/L	0.00035	0.00016	0.00020	0.00029	0.00017	5	0.00035	0.00023	0.002		0.00033	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	1.67	0.998	1.13	1.41	0.935	5	1.67	1.229			1.566	0
Sr-T	mg/L	0.0523	0.0243	0.0315	0.0382	0.0246	5	0.0523	0.0342			0.0467	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0248	0.115	0.0439	0.0308	0.0755	5	0.115	0.0580			0.0992	0
As-D	mg/L	0.00119	0.00050	0.00086	0.00121	0.00054	5	0.00121	0.00086			0.0012	0
Ba-D	mg/L	0.0068	0.0049	0.0053	0.0055	0.0039	5	0.0068	0.0053			0.0063	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	0.000016	<0.000010	<0.000010	0.000012	5	0.000016	0.0000086	0.000087	0.00017	1.44E-05	0
Ca-D	mg/L	16.3	7.76	10.7	11.7	7.46	5	16.3	10.78			14.46	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00082	0.00118	0.00078	0.00061	0.00093	5	0.00118	0.00086	*	*	0.00108	0
Hard-D	mg/L	45.7	23.0	30.8	33.5	21.8	5	45.7	31.0			40.8	0
DOC	mg/L	3.7	9.1	4.5	3.4	6.3	5	9.1	5.4			8	0
Fe-D	mg/L	0.0177	0.0630	0.0263	0.0146	0.0344	5	0.0630	0.0312		0.35	0.0516	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.23	0.867	0.972	1.02	0.781	5	1.23	0.974			1.146	0
Mn-D	mg/L	0.0013	0.0016	<0.0010	<0.0010	<0.0010	5	0.0016	0.00088			0.00148	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.237	0.192	0.179	0.161	0.146	5	0.237	0.183			0.219	0
S-D	mg/L	3.6	<3.0	<3.0	<3.0	<3.0	5	3.6	1.92			2.76	0
Se-D	mg/L	0.00037	0.00016	0.00025	0.00028	0.00021	5	0.00037	0.00025			0.00033	0
Na-D	mg/L	1.76	1.03	1.23	1.42	1.01	5	1.76	1.29			1.62	0
Sr-D	mg/L	0.0540	0.0236	0.0370	0.0416	0.0246	5	0.0540	0.0362			0.049	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

EMS ID	E297232	Water Quality Guidelines											
StnName	Iron River Site 8												
StnCode	IR8												
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard
pH-F	pH Units	7.02	6.74	6.56	6.99	6.85	5	7.02	6.83			7.01	0
Cond-F	uS/cm	107.2	53.5	71.9	77.4	53.1	5	107.2	72.6			95.3	0
SO4-D	mg/L	9.8	1.6	5.1	5.9	2.5	5	9.8	5.0	128		8.2	0
Cl-D	mg/L	1.1	<1.0	<1.0	<1.0	<1.0	5	1.1	0.62	150	600	0.86	0
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	5	2.4	0.88			1.64	0
Alk-T	mg/L	41	20	25	29	17	5	41	26.4			36.2	0
Al-T	mg/L	0.0353	0.115	0.0496	0.0294	0.0858	5	0.115	0.0630			0.1033	0
As-T	mg/L	0.00283	0.00064	0.00169	0.00262	0.00077	5	0.00283	0.00171	0.005		0.00275	0
Ba-T	mg/L	0.0076	0.0047	0.0049	0.0057	0.0042	5	0.0076	0.0054	1		0.0068	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Bicarb	mg/L	50	25	31	36	21	5	50	32.6			44.4	0
Cd-T	mg/L	0.000012	0.000020	0.000011	<0.000010	0.000011	5	0.000020	0.0000118			1.68E-05	0
Ca-T	mg/L	16.2	7.44	9.40	10.9	7.14	5	16.2	10.22			14.08	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00096	0.00116	0.00082	0.00064	0.00088	5	0.00116	0.00089			0.00108	0
Hard-T	mg/L	45.6	22.1	27.3	31.4	20.9	5	45.6	29.5			39.9	0
Fe-T	mg/L	0.048	0.104	0.042	0.018	0.048	5	0.104	0.052		1	0.082	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	1.23	0.847	0.928	1.01	0.744	5	1.23	0.952			1.142	0
Mn-T	mg/L	0.0042	0.0032	0.0019	<0.0010	0.0013	5	0.0042	0.00222	0.737	0.8706	0.0038	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.243	0.200	0.165	0.152	0.156	5	0.243	0.183			0.226	0
S-T	mg/L	3.1	<3.0	<3.0	<3.0	<3.0	5	3.1	1.82			2.46	0
Se-T	mg/L	0.00036	0.00014	0.00020	0.00025	0.00016	5	0.00036	0.00022	0.002		0.00032	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	1.76	1.03	1.29	1.50	1.02	5	1.76	1.32			1.66	0
Sr-T	mg/L	0.0539	0.0241	0.0333	0.0372	0.0258	5	0.0539	0.0349			0.0472	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0200	0.0967	0.0419	0.0311	0.0758	5	0.0967	0.0531			0.0883	0
As-D	mg/L	0.00271	0.00069	0.00180	0.00293	0.00079	5	0.00293	0.00178			0.00284	0
Ba-D	mg/L	0.0081	0.0049	0.0058	0.0060	0.0043	5	0.0081	0.0058			0.0073	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	0.000014	<0.000010	<0.000010	0.000011	5	0.000014	0.0000080	0.000087	0.00017	1.28E-05	0
Ca-D	mg/L	17.4	7.76	10.8	11.5	7.51	5	17.4	10.99			15.04	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00090	0.00110	0.00084	0.00074	0.00086	5	0.00110	0.00089	*	*	0.00102	0
Hard-D	mg/L	48.9	23.0	31.1	33.2	22.2	5	48.9	31.7			42.6	0
DOC	mg/L	3.6	8.9	4.5	3.4	5.9	5	8.9	5.3			7.7	0
Fe-D	mg/L	0.0154	0.0615	0.0251	0.0182	0.0342	5	0.0615	0.0309		0.35	0.0506	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.34	0.886	1.04	1.07	0.837	5	1.34	1.035			1.232	0
Mn-D	mg/L	0.0016	0.0015	0.0011	<0.0010	<0.0010	5	0.0016	0.00104			0.00156	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.270	0.187	0.183	0.163	0.156	5	0.270	0.192			0.237	0
S-D	mg/L	3.3	<3.0	<3.0	<3.0	<3.0	5	3.3	1.86			2.58	0
Se-D	mg/L	0.00040	0.00015	0.00022	0.00028	0.00019	5	0.00040	0.00025			0.00035	0
Na-D	mg/L	1.97	1.05	1.36	1.62	1.12	5	1.97	1.42			1.83	0
Sr-D	mg/L	0.0578	0.0235	0.0376	0.0414	0.0254	5	0.0578	0.0371			0.0512	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0

Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers Fall 9 Page(s)

EMS ID	E299256							Water Quality Guidelines					
StnName	Downstream of the Confluence of the Iron & Quinsam Rivers												
StnCode	IRQR												
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard
pH-F	pH Units	6.54	6.42	6.63	6.95	6.57	5	6.95	6.62			6.82	0
Cond-F	uS/cm	102.9	64.4	84.9	96.9	116.8	5	116.8	93.2			111.2	0
SO4-D	mg/L	9.3	4.9	10	11	23	5	23	11.6	128		18.2	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
TSS	mg/L	<1.0	1.6	<1.0	1.2	1.2	5	1.6	1.00			1.44	0
Alk-T	mg/L	38	25	29	29	28	5	38	29.8			34.4	0
Al-T	mg/L	0.0162	0.0885	0.0219	0.0138	0.0303	5	0.0885	0.0341			0.0652	0
As-T	mg/L	0.00085	0.00059	0.00065	0.00060	0.00040	5	0.00085	0.00062	0.005		0.00077	0
Ba-T	mg/L	0.0038	0.0039	0.0029	0.0029	0.0027	5	0.0039	0.0032	1		0.0039	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Bicarb	mg/L	46	31	35	36	35	5	46	36.6			42	0
Cd-T	mg/L	<0.000010	0.000015	<0.000010	<0.000010	<0.000010	5	0.000015	0.0000070			1.10E-05	0
Ca-T	mg/L	12.1	7.60	9.69	10.5	10.7	5	12.1	10.12			11.54	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	0.00059	0.00105	0.00060	0.00058	0.00060	5	0.00105	0.00068			0.00087	0
Hard-T	mg/L	35.7	22.7	29.0	31.3	33.0	5	35.7	30.3			34.6	0
Fe-T	mg/L	0.070	0.109	0.065	0.060	0.096	5	0.109	0.080		1	0.104	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0
Mg-T	mg/L	1.32	0.899	1.18	1.25	1.51	5	1.51	1.232			1.434	0
Mn-T	mg/L	0.0036	0.0039	0.0043	0.0049	0.0057	5	0.0057	0.0045	0.737	0.8706	0.0054	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.219	0.195	0.175	0.160	0.184	5	0.219	0.187			0.209	0
S-T	mg/L	3.5	<3.0	3.6	3.8	6.1	5	6.1	3.70			5.18	0
Se-T	mg/L	0.00013	0.00012	<0.00010	<0.00010	<0.00010	5	0.00013	0.000080	0.002		0.000126	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	5.38	2.18	4.52	5.31	5.47	5	5.47	4.57			5.43	0
Sr-T	mg/L	0.0419	0.0250	0.0382	0.0398	0.0519	5	0.0519	0.0394			0.0479	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0087	0.0677	0.0163	0.0093	0.0206	5	0.0677	0.0245			0.0489	0
As-D	mg/L	0.00083	0.00062	0.00064	0.00062	0.00042	5	0.00083	0.00063			0.00075	0
Ba-D	mg/L	0.0040	0.0040	0.0032	0.0029	0.0029	5	0.0040	0.0034			0.004	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	12.1	8.13	10.9	10.6	11.9	5	12.1	10.73			12.02	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00060	0.00103	0.00061	0.00048	0.00058	5	0.00103	0.00066	*	*	0.00086	0
Hard-D	mg/L	35.6	24.0	32.4	31.5	36.8	5	36.8	32.1			36.3	0
DOC	mg/L	2.4	7.3	3.1	2.4	4.0	5	7.3	3.8			6	0
Fe-D	mg/L	0.0488	0.0680	0.0514	0.0413	0.0658	5	0.0680	0.0551		0.35	0.0671	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.32	0.901	1.24	1.24	1.74	5	1.74	1.288			1.572	0
Mn-D	mg/L	0.0038	0.0022	0.0041	0.0044	0.0048	5	0.0048	0.0039			0.0046	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.217	0.194	0.190	0.165	0.200	5	0.217	0.193			0.21	0
S-D	mg/L	3.4	<3.0	3.5	4.1	7.3	5	7.3	3.96			6.02	0
Se-D	mg/L	0.00014	0.00014	0.00011	<0.00010	<0.00010	5	0.00014	0.000098			0.00014	0
Na-D	mg/L	5.34	2.19	4.62	5.27	6.34	5	6.34	4.75			5.94	0
Sr-D	mg/L	0.0421	0.0264	0.0425	0.0424	0.0548	5	0.0548	0.0416			0.0499	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0

Notes: *Copper is a variable guideline. Refer to Tables 2 and 40.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Ag-D	mg/L	0.000040	0.000040	<0.000040	<0.000040	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Ag-T	mg/L	0.000020	0.000040	<0.000020	<0.000040	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Al-D	mg/L	0.0060	0.0060	<0.0060	<0.0060	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Alk-T	mg/L	1.0	1.0	200	200	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Al-T	mg/L	0.0030	0.0060	<0.0030	<0.0060	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	As-D	mg/L	0.00020	0.00020	0.00028	0.00032	13.3	0.88	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	As-T	mg/L	0.00010	0.00020	0.00028	0.00025	11.3	1.12	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Ba-D	mg/L	0.0020	0.0020	0.0144	0.0155	7.4	0.93	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Ba-T	mg/L	0.0010	0.0020	0.0136	0.0135	0.7	1.01	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	B-D	mg/L	0.10	0.10	0.50	0.57	13.1	0.88	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Be-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Be-T	mg/L	0.00010	0.00020	<0.00010	<0.00020	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	B-T	mg/L	0.050	0.10	0.432	0.47	8.4	0.92	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Ca-D	mg/L	0.10	0.10	256	274	6.8	0.93	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Ca-T	mg/L	0.050	0.10	231	244	5.5	0.95	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Cd-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Cd-T	mg/L	0.000010	0.000020	<0.000010	<0.000020	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Cd-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Co-T	mg/L	0.00040	0.00040	<0.00020	<0.00040	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Cr-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Cr-T	mg/L	0.0010	0.0020	<0.0010	<0.0020	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Cu-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Cu-T	mg/L	0.00050	0.0010	<0.00050	<0.0010	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Fe-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Fe-T	mg/L	0.010	0.020	<0.010	<0.020	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Hard-D	mg/L	0.50	0.50	812	755	1.3	1.01	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Hard-T	mg/L	0.50	0.50	684	721	5.3	0.95	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	K-D	mg/L	0.10	0.10	2.76	2.76	6.0	0.94	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	K-T	mg/L	0.050	0.10	2.40	2.43	1.2	0.99	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Li-D	mg/L	0.0040	0.0040	0.0106	0.0117	9.9	0.91	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Li-T	mg/L	0.0020	0.0040	0.0096	0.0103	7.0	0.93	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Mg-D	mg/L	0.10	0.10	27.8	30.8	10.2	0.90	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Mg-T	mg/L	0.050	0.050	26.9	26.9	6.6	0.99	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Mn-D	mg/L	0.0020	0.0020	0.0036	0.0037	2.7	0.97	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Mn-T	mg/L	0.0010	0.0020	0.0034	0.0037	8.5	0.92	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Mo-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Mo-T	mg/L	0.0010	0.0020	<0.0010	<0.0020	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Na-D	mg/L	0.10	0.10	62.2	67.1	7.6	0.93	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Na-T	mg/L	0.050	0.10	57.8	59.1	2.2	0.98	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Ni-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Ni-T	mg/L	0.0010	0.0020	<0.0010	<0.0020	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Pb-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Pb-T	mg/L	0.00020	0.00040	<0.00020	<0.00040	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Sb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Sb-T	mg/L	0.00050	0.0010	<0.00050	<0.0010	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	S-D	mg/L	6.0	6.0	238	255	6.9	0.93	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Se-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Se-T	mg/L	0.00010	0.00020	0.00018	<0.00020	10.0	0.90	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Si-D	mg/L	0.20	0.20	2.75	2.95	7.0	0.93	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Si-T	mg/L	0.10	0.20	2.52	2.64	4.7	0.95	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Sn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Sn-T	mg/L	0.0050	0.010	<0.0050	<0.010	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	SOD-D	mg/L	10	10	670	680	1.5	0.99	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	So-D	mg/L	0.0020	0.0020	1.56	1.67	5.8	0.91	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	So-T	mg/L	0.0010	0.0020	1.49	1.46	6.7	1.03	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	S-T	mg/L	3.0	6.0	240	226	6.0	1.06	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Th-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Th-T	mg/L	0.0050	0.010	<0.0050	<0.010	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Th-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Th-T	mg/L	0.000010	0.000020	<0.000010	<0.000020	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	U-D	mg/L	0.00020	0.00020	0.00022	0.00022	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	U-T	mg/L	0.00010	0.00020	0.00019	<0.00020	5.1	0.95	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	V-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	V-T	mg/L	0.0050	0.010	<0.0050	<0.010	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Zn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Zn-T	mg/L	0.0050	0.010	<0.0050	<0.010	66.7	0.50	No
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Zr-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
25C	25C-30CT23-R	R	25C	25C-30CT23-M	M	3-Oct-23	Zr-T	mg/L	0.00010	0.00020	<0.00010	<0.00020	66.7	0.50	No
25I	25I-14NOV23-R	R	25I	25I-14NOV23-M	M	14-Nov-23	H2S	mg/L	0.0020	0.0018	<0.0020	<0.0018	0.0	1.00	
25I	25I-14NOV23-R	R	25I	25I-14NOV23-M	M	14-Nov-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00	
25I	25I-14NOV23-R	R	25I	25I-14NOV23-M	M	14-Nov-23	SOD-D	mg/L	5.0	5.0	290	290	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Al-D	mg/L	0.0030	0.0030	0.0069	0.0065	6.0	1.06	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Alk-T	mg/L	1.0	1.0	29	29	6.7	1.06	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Al-T	mg/L	0.0030	0.0030	0.0109	0.0103	5.7	1.06	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	As-D	mg/L	0.00010	0.00010	0.00037	0.00036	2.7	1.03	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	As-T	mg/L	0.00010	0.00010	0.00035	0.00035	0.0	1.00	
75QR															

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Sr-D	mg/L	0.0010	0.0010	0.0422	0.0418	1.0	1.01	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Sr-T	mg/L	0.0010	0.0010	0.0400	0.0388	3.0	1.03	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	S-T	mg/L	3.0	3.0	4.2	4.3	2.4	0.98	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Th-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Th-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Th-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Th-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	TSS	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
75QR	75QR-1NOV23-R	R	75QR	75QR-1NOV23-M	M	1-Nov-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
BCR	BCREFF-27NOV23-R	R	BCR	BCREFF-27NOV23-M	M	27-Nov-23	H2S	mg/L	0.19	0.15	17	16	6.1	1.06	
BCR	BCREFF-27NOV23-R	R	BCR	BCREFF-27NOV23-M	M	27-Nov-23	S2-T	mg/L	0.18	0.14	16	15	6.5	1.07	
BCR	BCREFF-27NOV23-R	R	BCR	BCREFF-27NOV23-M	M	27-Nov-23	S04-D	mg/L	5.0	5.0	500	490	2.0	1.02	
INF	INF-100CT23-R	R	INF	INF-100CT23-M	M	10-Oct-23	H2S	mg/L	0.0020	0.0020	0.0090	0.0056	46.6	1.51	Yes
INF	INF-100CT23-R	R	INF	INF-100CT23-M	M	10-Oct-23	S2-T	mg/L	0.0018	0.0018	0.0085	0.0053	46.4	1.60	Yes
INF	INF-100CT23-R	R	INF	INF-100CT23-M	M	10-Oct-23	S04-D	mg/L	5.0	5.0	550	560	1.8	0.98	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Ag-D	mg/L	0.000040	0.000040	<0.000040	<0.000040	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Al-D	mg/L	0.0060	0.0060	<0.0060	<0.0060	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Alk-T	mg/L	1.0	1.0	260	260	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Al-T	mg/L	0.0030	0.0030	0.0449	<0.0030	174.9	14.97	Yes
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	As-D	mg/L	0.00020	0.00020	0.00402	0.00400	0.5	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	As-T	mg/L	0.00010	0.00010	0.00380	0.00389	2.3	0.98	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Ba-D	mg/L	0.0020	0.0020	0.0183	0.0184	0.5	0.99	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Ba-T	mg/L	0.0010	0.0010	0.0171	0.0174	1.7	0.98	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	B-D	mg/L	0.10	0.10	0.70	0.69	1.4	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Be-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	B-T	mg/L	0.050	0.050	0.714	0.723	1.3	0.99	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Ca-D	mg/L	0.10	0.10	225	219	2.7	1.03	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Ca-T	mg/L	0.050	0.050	203	209	2.9	0.97	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Co-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Co-D	mg/L	0.00040	0.00040	0.00048	0.00046	4.3	1.04	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Co-T	mg/L	0.00020	0.00020	0.00041	0.00040	2.5	1.02	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Cr-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Cu-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Fe-D	mg/L	0.12	0.12	3.24	3.26	1.4	0.99	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Fe-T	mg/L	0.010	0.010	2.82	2.86	1.4	0.99	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	H2S	mg/L	0.0020	0.0020	0.0032	0.0037	14.5	0.86	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Hard-D	mg/L	0.50	0.50	627	611	2.6	1.03	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Hard-T	mg/L	0.50	0.50	568	581	2.3	0.98	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	K-D	mg/L	0.10	0.10	1.95	1.92	1.6	1.02	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	K-T	mg/L	0.050	0.050	1.82	1.86	2.2	0.98	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Li-D	mg/L	0.0040	0.0040	0.0201	0.0199	1.3	0.99	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Li-T	mg/L	0.0020	0.0020	0.0215	0.0211	1.9	1.02	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Mg-D	mg/L	0.10	0.10	15.9	15.8	0.6	1.01	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Mg-T	mg/L	0.050	0.050	14.6	14.7	0.7	0.99	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Mn-D	mg/L	0.0020	0.0020	0.345	0.344	0.3	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Mn-T	mg/L	0.0010	0.0010	0.329	0.333	1.2	0.99	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Mo-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Na-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Na-D	mg/L	0.10	0.10	107	106	0.9	1.01	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Na-T	mg/L	0.050	0.050	100	101	1.0	0.99	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Ni-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	N-NH3	mg/L	0.015	0.015	0.069	0.068	1.5	1.01	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	N-NO2	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	N-NO23	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	N-NO3	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00	Yes
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Pb-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00	Yes
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	P-T	mg/L	0.0030	0.0030	<0.0030	0.0031	3.3	0.97	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	S2-T	mg/L	0.0018	0.0018	0.0030	0.0034	12.5	0.88	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Sb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	S-D	mg/L	6.0	6.0	205	202	1.5	1.01	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Se-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Si-D	mg/L	0.20	0.20	3.31	3.25	1.8	1.02	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Si-T	mg/L	0.10	0.10	2.96	3.01	1.7	0.98	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Sn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	S04-D	mg/L	5.0	5.0	560	569	1.6	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-M	M	6-Nov-23	Sc-D	mg/L	0.0020	0.0020	1.96	1.99	1.5	0.98	

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	K-D	mg/L	0.10	0.10	1.95	1.95	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	K-T	mg/L	0.050	0.050	1.82	1.82	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Li-D	mg/L	0.0040	0.0040	0.0201	0.0201	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Li-T	mg/L	0.0020	0.0020	0.0215	0.0215	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Mg-D	mg/L	0.10	0.10	15.9	15.9	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Mg-T	mg/L	0.050	0.050	14.6	14.6	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Mn-D	mg/L	0.0020	0.0020	0.345	0.345	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Mn-T	mg/L	0.0010	0.0010	0.329	0.329	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Mo-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Na-D	mg/L	0.10	0.10	107	107	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Na-T	mg/L	0.050	0.050	100	100	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Ni-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	N-NH3	mg/L	0.015	0.015	0.069	0.069	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	N-NO2	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	N-NO23	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	N-NO3	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Pb-D	mg/L	0.0040	0.0040	<0.0040	<0.0040	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Pb-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	P-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	S2-T	mg/L	0.0018	0.0018	0.0030	0.0030	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Sb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Se-D	mg/L	6.0	6.0	205	205	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Se-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Si-D	mg/L	0.20	0.20	3.31	3.31	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Si-T	mg/L	0.10	0.10	2.96	2.96	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Sn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	SD4-D	mg/L	5.0	5.0	360	360	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Se-D	mg/L	0.0020	0.0020	1.96	1.96	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Sc-T	mg/L	0.0010	0.0010	1.91	1.91	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	S-T	mg/L	3.0	3.0	195	195	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Th-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Th-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Th-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Th-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	TSS	mg/L	1.0	1.0	6.4	6.4	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	U-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	V-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Zn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Zr-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
INF	INF-6NOV23-R	R	INF	INF-6NOV23-R	R	6-Nov-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
INF	INF-20NOV23-R	R	INF	INF-20NOV23-M	M	20-Nov-23	H2S	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
INF	INF-20NOV23-R	R	INF	INF-20NOV23-M	M	20-Nov-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00	
INF	INF-20NOV23-R	R	INF	INF-20NOV23-M	M	20-Nov-23	SO4-D	mg/L	5.0	5.0	610	610	1.7	0.98	
INF	INF-18DEC23-R	R	INF	INF-18DEC23-M	M	18-Dec-23	H2S	mg/L	0.0020	0.0020	0.0022	0.026	168.8	0.08	Yes
INF	INF-18DEC23-R	R	INF	INF-18DEC23-M	M	18-Dec-23	S2-T	mg/L	0.0018	0.0018	0.0021	0.025	169.0	0.08	Yes
LEE	LEE-30OCT23-R	R	LEE	LEE-30OCT23-M	M	30-Oct-23	SO4-D	mg/L	10	10	670	670	0.0	1.00	
LEE	LEE-30OCT23-R	R	LEE	LEE-30OCT23-M	M	30-Oct-23	SO4-D	mg/L	5.0	5.0	450	450	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Al-D	mg/L	0.0030	0.0030	0.0045	0.0043	4.5	1.05	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Alk-T	mg/L	1.0	1.0	32	31	3.2	1.03	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	As-D	mg/L	0.0030	0.0030	0.0058	0.0057	3.4	1.04	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	As-D	mg/L	0.00010	0.00010	0.00059	0.00057	3.4	1.04	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	As-T	mg/L	0.00010	0.00010	0.00053	0.00052	1.9	1.02	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Ba-D	mg/L	0.0010	0.0010	0.0063	0.0062	1.6	1.02	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Ba-T	mg/L	0.0010	0.0010	0.0056	0.0050	11.3	1.12	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	B-D	mg/L	0.050	0.050	0.062	0.060	3.3	1.03	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	B-T	mg/L	0.050	0.050	0.060	0.060	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Ca-D	mg/L	0.050	0.050	27.1	27.1	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Ca-T	mg/L	0.050	0.050	24.2	21.6	11.4	1.12	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Cu-D	mg/L	0.00020	0.00020	0.00033	0.00033	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	DOC	mg/L	0.50	0.50	3.1	2.9	6.7	1.07	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Fe-D	mg/L	0.0050	0.0050	0.0115	0.0109	5.4	1.06	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct-23	Fe-T	mg/L	0.010	0.010	0.018	0.016	11.8	1.04	
LLM1	LLM1-4OCT23-R	R	LLM1	LLM1-4OCT23-M	M	4-Oct									

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
LLM1	LLM1-40CT23-R	R	LLM1	LLM1-300CT23-M	M	4-Oct-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Ag-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Ag-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Al-D	mg/L	0.0030	0.0030	0.0040	0.0049	20.3	0.81	Yes
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Alk-T	mg/L	1.0	1.0	31	31	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Al-T	mg/L	0.0030	0.0030	0.0061	0.0059	3.3	1.03	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	As-D	mg/L	0.00010	0.00010	0.00049	0.00051	4.0	0.96	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	As-T	mg/L	0.00010	0.00010	0.00048	0.00045	6.5	1.07	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Ba-D	mg/L	0.0010	0.0010	0.0074	0.0074	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Be-T	mg/L	0.0010	0.0010	0.0069	0.0065	6.0	1.06	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	B-D	mg/L	0.050	0.050	0.067	0.068	1.5	0.99	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	B-T	mg/L	0.050	0.050	0.056	0.053	5.5	1.06	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Ca-D	mg/L	0.050	0.050	31.2	30.9	1.0	1.01	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Ca-T	mg/L	0.050	0.050	28.8	27.5	4.6	1.05	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Co-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Co-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Cr-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Cr-D	mg/L	0.00020	0.00020	0.00032	0.00037	14.5	0.86	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	DOC	mg/L	0.50	0.50	3.5	3.8	8.2	0.92	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Fe-D	mg/L	0.0050	0.0050	0.0091	0.0109	18.0	0.83	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Fe-T	mg/L	0.010	0.010	0.023	0.022	4.4	1.05	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Hard-D	mg/L	0.50	0.50	95.0	93.5	1.6	1.02	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Hard-T	mg/L	0.50	0.50	87.3	83.1	4.9	1.05	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	K-D	mg/L	0.050	0.050	0.331	0.330	0.3	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	K-T	mg/L	0.314	0.314	0.292	0.292	7.3	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Li-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Mg-D	mg/L	0.050	0.050	4.12	3.97	3.7	1.04	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Mg-T	mg/L	0.050	0.050	3.74	3.49	6.9	1.07	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Mn-D	mg/L	0.0010	0.0010	0.0042	0.0046	9.1	0.91	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Mn-T	mg/L	0.0010	0.0010	0.0115	0.0110	4.4	1.05	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Na-D	mg/L	0.050	0.050	9.03	8.87	1.8	1.02	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Na-T	mg/L	0.050	0.050	8.37	7.82	6.8	1.07	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	N-NO23	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	P-T	mg/L	0.0030	0.0030	<0.0030	0.0041	31.0	0.73	Yes
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	S-D	mg/L	3.0	3.0	27.6	27.6	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Si-D	mg/L	0.10	0.10	3.20	3.22	0.6	0.99	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Si-T	mg/L	0.10	0.10	3.00	2.86	4.8	1.05	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Sn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	SO4-D	mg/L	1.0	1.0	77	77	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Sr-D	mg/L	0.0010	0.0010	0.208	0.207	0.5	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Sr-T	mg/L	0.0010	0.0010	0.195	0.183	6.4	1.05	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	ST	mg/L	3.0	3.0	23.5	23.5	9.3	1.10	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Th-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Th-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Th-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Th-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Turb	NTU	0.10	0.10	0.37	0.32	14.5	1.16	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM1	LLM1-300CT23-R	R	LLM1	LLM1-300CT23-M	M	30-Oct-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Ag-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Al-D	mg/L	0.0030	0.0030	0.0047	0.0038	21.2	1.24	Yes
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Alk-T	mg/L	1.0	1					

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Si-D	mg/L	0.10	0.10	3.19	3.15	1.3	1.01	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Si-T	mg/L	0.10	0.10	3.30	3.26	1.2	1.01	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Sn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	SOD-D	mg/L	1.0	1.0	72	72	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Si-D	mg/L	0.0010	0.0010	0.184	0.184	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Si-T	mg/L	0.0010	0.0010	0.187	0.184	1.6	1.02	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	S-T	mg/L	3.0	3.0	26.1	26.5	1.5	0.98	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Th-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Th-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Th-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Th-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Turb	NTU	0.10	0.10	0.23	0.22	4.4	1.05	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-170CT23-R	R	LLM4	LLM4-170CT23-M	M	17-Oct-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Al-D	mg/L	0.0030	0.0030	0.0039	0.0038	2.6	1.03	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Al-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Alk-T	mg/L	1.0	1.0	31	31	6.2	1.09	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Al-T	mg/L	0.0030	0.0030	0.0063	0.0058	8.3	1.09	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	As-D	mg/L	0.00010	0.00010	0.00057	0.00054	5.4	1.06	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	As-T	mg/L	0.00010	0.00010	0.00051	0.00053	3.8	0.96	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Ba-D	mg/L	0.0010	0.0010	0.0070	0.0071	1.4	0.99	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Ba-T	mg/L	0.0010	0.0010	0.0071	0.0069	2.9	1.03	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Be-D	mg/L	0.0050	0.0050	0.0068	0.0065	4.5	1.05	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	B-T	mg/L	0.050	0.050	0.059	0.057	3.4	1.04	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Ca-D	mg/L	0.050	0.050	29.5	30.6	3.7	0.96	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Ca-T	mg/L	0.050	0.050	28.5	28.4	0.4	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Cu-D	mg/L	0.00020	0.00020	0.00030	0.00030	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	DOC	mg/L	0.50	0.50	0.3	0.3	2.1	0.93	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Fe-D	mg/L	0.0050	0.0050	0.0085	0.0087	2.3	0.98	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Fe-T	mg/L	0.010	0.010	0.020	0.019	5.1	1.05	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Hard-D	mg/L	0.50	0.50	89.8	92.7	3.2	0.97	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Hard-T	mg/L	0.50	0.50	86.7	86.3	0.5	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	K-D	mg/L	0.050	0.050	0.305	0.316	3.5	0.97	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	K-T	mg/L	0.050	0.050	0.329	0.310	3.2	1.03	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Li-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Mg-D	mg/L	0.050	0.050	3.94	3.99	1.3	0.99	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Mg-T	mg/L	0.050	0.050	3.80	3.72	2.1	1.02	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Mn-D	mg/L	0.0010	0.0010	0.0011	0.0011	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Mn-T	mg/L	0.0010	0.0010	0.0067	0.0066	1.5	1.02	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Na-D	mg/L	0.050	0.050	8.70	8.70	0.7	0.99	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Na-T	mg/L	0.050	0.050	8.35	8.21	1.7	1.02	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	N-NO23	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	P-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	S-D	mg/L	3.0	3.0	29.4	26.9	8.9	1.09	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Si-D	mg/L	0.10	0.10	3.28	3.20	2.5	1.02	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Si-T	mg/L	0.10	0.10	3.09	3.09	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Sn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
LLM4	LLM4-230CT23-R	R	LLM4	LLM4-230CT23-M	M	23-Oct-23	SOD-D	mg/L	1.0	1.0	75	76			

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Mg-D	mg/L	0.050	0.050	1.05	1.08	2.8	0.97	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Mg-T	mg/L	0.050	0.050	0.866	0.829	4.4	1.04	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Mn-D	mg/L	0.0010	0.0010	0.0018	0.0018	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Mn-T	mg/L	0.0010	0.0010	0.0087	0.0091	4.5	0.96	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Na-D	mg/L	0.050	0.050	6.13	6.21	1.3	0.99	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Na-T	mg/L	0.050	0.050	5.28	5.07	4.1	1.04	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	N-NO23	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	P-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	S-D	mg/L	3.0	3.0	<3.0	<3.0	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Si-D	mg/L	0.10	0.10	1.78	1.76	1.1	1.01	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Si-T	mg/L	0.10	0.10	1.50	1.31	13.5	1.15	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Sn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	SD-D	mg/L	1.0	1.0	7.5	7.6	1.3	0.99	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Sr-D	mg/L	0.0010	0.0010	0.0273	0.0278	1.8	0.98	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Sr-T	mg/L	0.0010	0.0010	0.0240	0.0231	3.8	1.04	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Ti-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Ti-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Ti-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Ti-D	mg/L	0.25	0.25	0.2	0.2	14.8	0.96	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
MLQ1	MLQ1-11OCT23-R	R	MLQ1	MLQ1-11OCT23-M	M	11-Oct-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Al-D	mg/L	0.0030	0.0030	0.0245	0.0245	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Alk-T	mg/L	1.0	1.0	13	12	8.0	1.08	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Al-T	mg/L	0.0030	0.0030	0.0092	0.0068	6.3	1.09	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	As-D	mg/L	0.00010	0.00010	0.00026	0.00026	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	As-T	mg/L	0.00010	0.00010	0.00026	0.00025	3.9	1.04	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Ba-D	mg/L	0.0010	0.0010	0.0012	0.0012	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Ba-T	mg/L	0.0010	0.0010	0.0012	0.0011	8.7	1.09	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	B-D	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Ca-D	mg/L	0.050	0.050	4.29	4.32	0.7	0.99	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Ca-T	mg/L	0.050	0.050	4.10	4.05	1.2	1.01	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Cu-D	mg/L	0.00020	0.00020	0.00049	0.00047	4.2	1.04	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	DOC	mg/L	0.50	0.50	4.0	4.0	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Fe-D	mg/L	0.0050	0.0050	0.0349	0.0357	2.3	0.99	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Fe-T	mg/L	0.010	0.010	0.052	0.049	5.9	1.06	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Hard-D	mg/L	0.50	0.50	14.7	14.7	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Hard-T	mg/L	0.50	0.50	13.8	13.5	2.2	1.02	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	K-D	mg/L	0.050	0.050	0.071	0.071	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	K-T	mg/L	0.050	0.050	0.075	0.070	6.9	1.07	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Li-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Mg-D	mg/L	0.050	0.050	0.968	0.927	4.1	1.01	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Mg-T	mg/L	0.050	0.050	0.857	0.832	3.0	1.03	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Mn-D	mg/L	0.0010	0.0010	0.0035	0.0036	2.8	0.97	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Mn-T	mg/L	0.0010	0.0010	0.0045	0.0043	4.5	1.05	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
NNO	NNO-7NOV23-R	R	NNO	NNO-7NOV23-M	M	7-Nov-23	Na-D	mg/L</							

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Ca-T	mg/L	0.050	0.050	9.47	9.81	3.5	0.97	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Cd-d	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Co-d	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Cr-d	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Cu-d	mg/L	0.00020	0.00020	0.00043	0.00045	4.5	0.96	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	DOC	mg/L	0.50	0.50	2.1	2.3	9.1	0.91	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Fe-d	mg/L	0.0050	0.0050	0.0170	0.0193	12.7	0.88	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Fe-T	mg/L	0.010	0.010	0.033	0.034	3.0	0.97	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Hard-d	mg/L	0.50	0.50	33.4	33.2	0.6	1.01	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Hard-T	mg/L	0.50	0.50	28.6	29.7	3.8	0.96	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	K-d	mg/L	0.050	0.050	0.173	0.172	0.6	1.01	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	K-T	mg/L	0.050	0.050	0.151	0.158	4.5	0.96	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Li-d	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Mg-d	mg/L	0.050	0.050	1.38	2.2	1.02		
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Mg-T	mg/L	0.050	0.050	1.21	1.25	3.3	0.97	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Mn-d	mg/L	0.0010	0.0010	0.0013	0.0014	7.4	0.93	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Mn-T	mg/L	0.0010	0.0010	0.0045	0.0048	6.5	0.94	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Mo-d	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Na-d	mg/L	0.050	0.050	6.87	6.87	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Na-T	mg/L	0.050	0.050	8.9	6.16	4.5	0.96	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Ni-d	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Pb-d	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Sb-d	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Se-d	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Si-d	mg/L	0.10	0.10	2.12	2.04	3.8	1.04	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Si-T	mg/L	0.10	0.10	1.82	1.89	3.8	0.96	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Sn-d	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	SO4-d	mg/L	1.0	1.0	13	14	7.4	0.91	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	SO4-T	mg/L	0.0010	0.0010	0.0422	0.0423	0.2	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Si-T	mg/L	0.0010	0.0010	0.0386	0.0403	4.3	0.96	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	S-T	mg/L	3.0	3.0	4.4	4.6	4.4	0.96	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	TH-d	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	TH-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Ti-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Ti-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	TSS	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	U-d	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	V-d	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Zn-d	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Zr-d	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QRDS1	QRDS1-25OCT23-R	R	QRDS1	QRDS1-25OCT23-M	M	25-Oct-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Ag-d	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Al-d	mg/L	0.0030	0.0030	<0.0030	0.0062	69.6	0.48	Yes
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Alk-T	mg/L	1.0	1.0	5.20	5.20	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	As-d	mg/L	0.00010	0.00010	0.00088	0.00085	3.4	0.95	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Ba-d	mg/L	0.0010	0.0010	0.0412	0.0425	3.1	0.97	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Ba-T	mg/L	0.050	0.050	1.01	1.12	10.3	0.90	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Be-d	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Br-d	mg/L	0.10	0.10	<0.10	<0.10	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Ca-d	mg/L	0.50	0.50	39.7	42.5	6.8	0.91	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Ca-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Cd-d	mg/L	0.00010	0.00010	33	33	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Cd-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Co-d	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Cu-d	mg/L	0.050	0.050	1.3	1.1	16.7	1.18	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	F-d	mg/L	0.050	0.050	0.18	0.18	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Fe-d	mg/L	0.0050	0.0050	0.616	0.638	3.5	0.97	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Fe-T	mg/L	0.00010	0.00010	0.13	0.13	0.0	1.00	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	Hard-d	mg/L	0.50	0.50	114	127	6.8	0.91	
QUI1013D	QUI1013D-23NOV23-R	R	QUI1013D	QUI1013D-23NOV23-M	M	23-Nov-23	K-d	mg/L	0.050	0.050	3.00	3.04	1.3	0.99	
QUI1013D	QUI1013D-23NOV23-R	R													

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Hard-D	mg/L	0.50	0.50	149	145	2.7	1.03	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Hard-T	mg/L	0.50	0.50	161	159	1.2	1.01	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	K-D	mg/L	0.050	0.050	0.611	0.595	2.7	1.03	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	K-T	mg/L	0.050	0.050	0.607	0.588	3.2	1.02	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Li-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Mg-D	mg/L	0.050	0.050	6.43	6.42	0.2	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Mn-T	mg/L	0.050	0.050	6.78	6.49	4.4	1.04	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Mo-D	mg/L	0.0010	0.0010	0.0013	0.0013	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Mn-T	mg/L	0.0010	0.0010	0.0028	0.0025	11.3	1.12	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Na-D	mg/L	0.050	0.050	17.0	16.4	3.6	1.04	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Na-T	mg/L	0.050	0.050	18.2	17.4	4.5	1.05	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Se-D	mg/L	3.0	3.0	88.6	86.2	2.6	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Si-D	mg/L	0.10	0.10	3.50	3.43	2.0	1.02	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Si-T	mg/L	0.10	0.10	3.63	3.60	0.8	1.01	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Sn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	SO4-D	mg/L	5.0	5.0	140	140	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Sr-D	mg/L	0.0010	0.0010	0.326	0.322	1.2	1.01	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Sr-T	mg/L	0.0010	0.0010	0.324	0.309	4.7	1.05	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	S-T	mg/L	3.0	3.0	48.5	46.9	3.4	1.03	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Th-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Ti-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Ti-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	TSS	mg/L	1.0	1.0	<1.0	2.4	87.4	0.42	Yes
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
SPC	SPC-5DEC23-R	R	SPC	SPC-5DEC23-M	M	5-Dec-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
SPCEFF	SPCEFF-16OCT23-R	R	SPCEFF	SPCEFF-16OCT23-M	M	16-Oct-23	H2S	mg/L	0.0020	0.0020	0.0022	<0.0020	9.5	1.10	
SPCEFF	SPCEFF-16OCT23-R	R	SPCEFF	SPCEFF-16OCT23-M	M	16-Oct-23	SZ-T	mg/L	0.0018	0.0018	0.0020	<0.0018	10.5	1.11	
SPCEFF	SPCEFF-16OCT23-R	R	SPCEFF	SPCEFF-16OCT23-M	M	16-Oct-23	SO4-D	mg/L	5.0	5.0	290	290	0.0	1.00	
SPCEFF	SPCEFF-11DEC23-R	R	SPCEFF	SPCEFF-11DEC23-M	M	11-Dec-23	Ag-T	mg/L	0.0020	0.0020	0.10	0.11	9.5	0.91	
SPCEFF	SPCEFF-11DEC23-R	R	SPCEFF	SPCEFF-11DEC23-M	M	11-Dec-23	SZ-T	mg/L	0.0018	0.0018	0.095	0.10	5.1	0.95	
SPCEFF	SPCEFF-11DEC23-R	R	SPCEFF	SPCEFF-11DEC23-M	M	11-Dec-23	SO4-D	mg/L	5.0	5.0	390	430	9.8	0.91	
SPD	SPD-27DEC23-R	R	SPD	SPD-27DEC23-P	P	27-Dec-23	SO4-D	mg/L	5.0	5.0	160	160	0.0	1.00	
SPD	SPD-27DEC23-R	R	SPD	SPD-27DEC23-P	P	27-Dec-23	TSS	mg/L	1.0	1.0	<1.0	1.6	46.2	0.62	Yes
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Al-D	mg/L	0.0030	0.0030	0.0100	0.0100	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Alk-T	mg/L	1.0	1.0	23	22	4.4	1.05	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Al-T	mg/L	0.0030	0.0030	0.0147	0.0156	5.9	0.94	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	As-D	mg/L	0.00010	0.00010	0.00013	0.00013	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	As-T	mg/L	0.00010	0.00010	0.00012	0.00012	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Ba-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	B-D	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Ca-D	mg/L	0.050	0.050	7.15	6.98	2.4	1.02	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Ca-T	mg/L	0.050	0.050	6.46	6.83	5.6	0.95	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Co-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Cu-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Cu-T	mg/L	0.00050	0.00050	0.00054	0.00059	8.8	0.92	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	DOC	mg/L	0.50	0.50	1.9	2.1	10.0	0.90	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Fe-D	mg/L	0.0050	0.0050	0.0058	0.0061	5.0	0.95	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Fe-T	mg/L	0.010	0.010	0.013	0.015	14.3	0.87	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Hard-D	mg/L	0.50	0.50	21.1	20.6	2.4	1.02	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Hard-T	mg/L	0.50	0.50	20.1	20.1	5.6	0.99	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	K-D	mg/L	0.050	0.050	0.060	0.059	1.7	1.02	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	K-T	mg/L	0.050	0.050	0.060	0.063	4.9	0.95	
WA	WA-11OCT23-R	R	WA	WA-11OCT23-M	M	11-Oct-23	Li-D								

Appendix 1 - Tables

Table 40 Relative Percent Difference 9 Page(s)

Stn.Code 1	Sample No. 1	Sample Class 1	Stn.Code 2	Sample No. 2	Sample Class 2	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	Are Lab MDL 1 and 2 Equal
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	B-D	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Ca-D	mg/L	0.050	0.050	8.70	8.46	2.8	1.03	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Ca-T	mg/L	0.050	0.050	8.40	8.30	1.2	1.01	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Cu-D	mg/L	0.00020	0.00020	0.00040	0.00037	7.8	1.08	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	DOC	mg/L	0.50	0.50	2.0	1.7	16.2	1.18	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Fe-D	mg/L	0.0050	0.0050	0.0185	0.0176	5.0	1.05	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Fe-T	mg/L	0.010	0.010	0.034	0.035	2.9	0.97	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Hard-D	mg/L	0.50	0.50	26.2	25.3	3.5	1.04	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Hard-T	mg/L	0.50	0.50	25.3	25.0	1.2	1.01	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	K-D	mg/L	0.050	0.050	0.121	0.116	4.2	1.04	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	K-T	mg/L	0.050	0.050	0.126	0.126	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Li-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Mg-D	mg/L	0.050	0.050	1.09	1.02	6.6	1.07	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Mg-T	mg/L	0.050	0.050	1.04	1.03	1.0	1.01	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Mn-D	mg/L	0.0010	0.0010	0.0029	0.0024	18.9	1.21	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Mn-T	mg/L	0.0010	0.0010	0.0102	0.0101	1.0	1.01	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Na-D	mg/L	0.050	0.050	5.82	5.46	6.4	1.07	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Na-T	mg/L	0.050	0.050	5.56	5.60	0.7	0.99	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	S-D	mg/L	3.0	3.0	3.0	<3.0	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Si-D	mg/L	0.10	0.10	1.78	1.79	0.6	0.99	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Si-T	mg/L	0.10	0.10	1.62	1.59	1.9	1.02	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Sn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	SOD-D	mg/L	1.0	1.0	8.8	8.8	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Sr-D	mg/L	0.0010	0.0010	0.0267	0.0261	2.3	1.02	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Sr-T	mg/L	0.0010	0.0010	0.0262	0.0256	2.3	1.02	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	S-T	mg/L	3.0	3.0	3.1	3.0	3.3	1.03	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Th-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Th-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Th-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Th-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	TSS	mg/L	1.0	1.0	1.6	<1.0	46.2	1.60	Yes
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	
WB	WB-190CT23-R	R	WB	WB-190CT23-M	M	19-Oct-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00	

Pink - Relevance Percent Difference (RPD) is greater than 20%.

Blue -Different Lab MDL

Appendix 1 - Tables

Table 41 Relative Percent Difference Greater Than 20% 1 Page(s)

Str.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	True RDP >20%	Ratio	Are Lab MDL 1 and 2 Equal	Lab MDL 1 X 5	Lab MDL 2 X 5	Result 1	Is Result 1 > LMDL1	Is Result 1 > LMDL2	Result 2	Is Result 2 > LMDL1	Is Result 2 > LMDL2
75QR	1-Nov-23	Cu-D	mg/L	0.00020	0.0002	0.00041	0.00052	23.7	0.79	Yes	0.001	0.001	0.00041	FALSE	FALSE	0.00052	FALSE	FALSE
75QR	1-Nov-23	Cu-T	mg/L	0.00050	0.0005	0.0005	0.00065	26.1	0.77	Yes	0.0025	0.0025	0.0005	FALSE	FALSE	0.00065	FALSE	FALSE
INF	10-Oct-23	H2S	mg/L	0.0020	0.002	0.0090	0.0056	46.6	1.61	Yes	0.01	0.01	0.0090	FALSE	FALSE	0.0056	FALSE	FALSE
INF	10-Oct-23	S2-T	mg/L	0.0018	0.0018	0.0085	0.0053	46.4	1.60	Yes	0.009	0.009	0.0085	FALSE	FALSE	0.0053	FALSE	FALSE
INF	6-Nov-23	Al-T	mg/L	0.0030	0.003	0.0449	0.003	175	14.97	Yes	0.015	0.015	0.0449	TRUE	TRUE	0.003	FALSE	FALSE
INF	6-Nov-23	N-NO23	mg/L	0.020	0.02	0.02	0.079	119.2	0.25	Yes	0.1	0.1	0.02	FALSE	FALSE	0.079	FALSE	FALSE
INF	6-Nov-23	N-NO3	mg/L	0.020	0.02	0.02	0.079	119.2	0.25	Yes	0.1	0.1	0.02	FALSE	FALSE	0.079	FALSE	FALSE
INF	18-Dec-23	H2S	mg/L	0.0020	0.002	0.0022	0.026	169	0.08	Yes	0.01	0.01	0.0022	FALSE	FALSE	0.026	TRUE	TRUE
INF	18-Dec-23	S2-T	mg/L	0.0018	0.0018	0.0021	0.025	169	0.08	Yes	0.009	0.009	0.0021	FALSE	FALSE	0.025	TRUE	TRUE
LLM1	4-Oct-23	Turb	NTU	0.10	0.1	0.21	0.29	32.0	0.72	Yes	0.5	0.5	0.21	FALSE	FALSE	0.29	FALSE	FALSE
LLM1	30-Oct-23	P-T	mg/L	0.0030	0.003	0.003	0.0041	31.0	0.73	Yes	0.015	0.015	0.003	FALSE	FALSE	0.0041	FALSE	FALSE
LLM4	17-Oct-23	Al-D	mg/L	0.0030	0.003	0.0047	0.0038	21.2	1.24	Yes	0.015	0.015	0.0047	FALSE	FALSE	0.0038	FALSE	FALSE
LLM4	17-Oct-23	Fe-D	mg/L	0.0050	0.005	0.0177	0.0081	74.4	2.19	Yes	0.025	0.025	0.0177	FALSE	FALSE	0.0081	FALSE	FALSE
LLM4	17-Oct-23	Fe-T	mg/L	0.010	0.01	0.01	0.018	57.1	0.56	Yes	0.05	0.05	0.01	FALSE	FALSE	0.018	FALSE	FALSE
LLM4	17-Oct-23	Mn-D	mg/L	0.0010	0.001	0.0064	0.001	146	6.40	Yes	0.005	0.005	0.0064	TRUE	TRUE	0.001	FALSE	FALSE
LLM4	17-Oct-23	Mn-T	mg/L	0.0010	0.001	0.001	0.0064	146	0.16	Yes	0.005	0.005	0.001	FALSE	FALSE	0.0064	TRUE	TRUE
LLM4	23-Oct-23	Pb-T	mg/L	0.00020	0.0002	0.00026	0.0002	26.1	1.30	Yes	0.001	0.001	0.00026	FALSE	FALSE	0.0002	FALSE	FALSE
QU1013D	23-Nov-23	Al-D	mg/L	0.0030	0.003	0.003	0.0062	69.6	0.48	Yes	0.015	0.015	0.003	FALSE	FALSE	0.0062	FALSE	FALSE
QU1013D	23-Nov-23	P-D	mg/L	0.0030	0.003	0.020	0.0054	115	3.70	Yes	0.015	0.015	0.020	TRUE	TRUE	0.0054	FALSE	FALSE
QU1013D	23-Nov-23	Se-D	mg/L	0.00010	0.0001	0.00021	0.0001	71.0	2.10	Yes	0.0005	0.0005	0.00021	FALSE	FALSE	0.0001	FALSE	FALSE
QU1013D	23-Nov-23	Turb	NTU	0.10	0.1	5.6	4.3	26	1.30	Yes	0.5	0.5	5.6	TRUE	TRUE	4.3	TRUE	TRUE
SPC	5-Dec-23	TSS	mg/L	1.0	1	1	2.4	82.4	0.42	Yes	5	5	1	FALSE	FALSE	2.4	FALSE	FALSE
SPD	27-Dec-23	TSS	mg/L	1.0	1	1	1.6	46.2	0.62	Yes	5	5	1	FALSE	FALSE	1.6	FALSE	FALSE
WB	19-Oct-23	TSS	mg/L	1.0	1	1.6	1	46.2	1.60	Yes	5	5	1.6	FALSE	FALSE	1	FALSE	FALSE

True RPD calculation: One or more of the results must be 5 times greater than the Lab Mean Detection Limit (Lab MDL).

Results that are Not Calculated (NC) include unequal Lab MDL's or results that are less than 5X's Lab MDL.

Appendix 1 - Tables

Table 42 Field Blanks (FB), Trip Blanks 6 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code	Sample No.	Class	Date	Param.Code	Units	Lab MDL	Result 1	Rel.% Diff.
EB2	EB2-4OCT23-B	B	4-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Al-T	mg/L	0.0030	<0.0030	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Ca-T	mg/L	0.050	<0.050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Cd-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Cl-D	mg/L	1.0	<1.0	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Fe-T	mg/L	0.010	0.053	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Hard-T	mg/L	0.50	<0.50	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Mg-T	mg/L	0.050	<0.050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Mn-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Na-T	mg/L	0.050	<0.050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Si-T	mg/L	0.10	<0.10	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	SO4-D	mg/L	1.0	<1.0	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Sr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Tl-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-4OCT23-B	B	4-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Al-T	mg/L	0.0030	0.0036	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Ca-T	mg/L	0.050	0.169	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Cd-T	mg/L	0.000010	0.000045	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Cl-D	mg/L	1.0	20	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Fe-T	mg/L	0.010	0.012	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Hard-T	mg/L	0.50	0.66	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Mg-T	mg/L	0.050	0.058	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Mn-T	mg/L	0.0010	0.0013	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Na-T	mg/L	0.050	0.211	0.0

Appendix 1 - Tables

Table 42 Field Blanks (FB), Trip Blanks 6 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code	Sample No.	Class	Date	Param.Code	Units	Lab MDL	Result 1	Rel.% Diff.
EB2	EB2-11OCT23-B	B	11-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Si-T	mg/L	0.10	<0.10	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	SO4-D	mg/L	1.0	28	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Sr-T	mg/L	0.0010	0.0010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Tl-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-11OCT23-B	B	11-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Al-T	mg/L	0.0030	<0.0030	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Ca-T	mg/L	0.050	<0.050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Cd-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Cl-D	mg/L	1.0	<1.0	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Fe-T	mg/L	0.010	<0.010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Hard-T	mg/L	0.50	<0.50	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Mg-T	mg/L	0.050	<0.050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Mn-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Na-T	mg/L	0.050	<0.050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Si-T	mg/L	0.10	<0.10	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	SO4-D	mg/L	1.0	<1.0	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Sr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Tl-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-17OCT23-B	B	17-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Al-T	mg/L	0.0030	<0.0030	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0

Appendix 1 - Tables

Table 42 Field Blanks (FB), Trip Blanks 6 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code	Sample No.	Class	Date	Param.Code	Units	Lab MDL	Result 1	Rel.% Diff.
EB2	EB2-23OCT23-B	B	23-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Ca-T	mg/L	0.050	<0.050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Cd-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Cl-D	mg/L	1.0	<1.0	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Fe-T	mg/L	0.010	<0.010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Hard-T	mg/L	0.50	<0.50	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Mg-T	mg/L	0.050	<0.050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Mn-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Na-T	mg/L	0.050	<0.050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Si-T	mg/L	0.10	<0.10	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	SO4-D	mg/L	1.0	<1.0	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Sr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Tl-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-23OCT23-B	B	23-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Al-T	mg/L	0.0030	<0.0030	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Ca-T	mg/L	0.050	<0.050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Cd-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Cl-D	mg/L	1.0	<1.0	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Fe-T	mg/L	0.010	<0.010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Hard-T	mg/L	0.50	<0.50	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Mg-T	mg/L	0.050	<0.050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Mn-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Na-T	mg/L	0.050	<0.050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Si-T	mg/L	0.10	<0.10	0.0

Appendix 1 - Tables

Table 42 Field Blanks (FB), Trip Blanks 6 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code	Sample No.	Class	Date	Param.Code	Units	Lab MDL	Result 1	Rel.% Diff.
EB2	EB2-30OCT23-B	B	30-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	SO4-D	mg/L	1.0	<1.0	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Sr-T	mg/L	0.0010	<0.0010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Tl-T	mg/L	0.000010	<0.000010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB2	EB2-30OCT23-B	B	30-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Al-T	mg/L	0.0030	<0.0030	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Ca-T	mg/L	0.050	<0.050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Cd-T	mg/L	0.000010	<0.000010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Cl-D	mg/L	1.0	<1.0	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Fe-T	mg/L	0.010	<0.010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Hard-T	mg/L	0.50	<0.50	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Mg-T	mg/L	0.050	<0.050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Mn-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Na-T	mg/L	0.050	<0.050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Si-T	mg/L	0.10	<0.10	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	SO4-D	mg/L	1.0	<1.0	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Sr-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Tl-T	mg/L	0.000010	<0.000010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-4OCT23-B	B	4-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Al-T	mg/L	0.0030	<0.0030	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Ca-T	mg/L	0.050	<0.050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Cd-T	mg/L	0.000010	<0.000010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Cl-D	mg/L	1.0	<1.0	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0

Appendix 1 - Tables

Table 42 Field Blanks (FB), Trip Blanks 6 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code	Sample No.	Class	Date	Param.Code	Units	Lab MDL	Result 1	Rel.% Diff.
EB3	EB3-11OCT23-B	B	11-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Fe-T	mg/L	0.010	<0.010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Hard-T	mg/L	0.50	<0.50	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Mg-T	mg/L	0.050	<0.050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Mn-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Na-T	mg/L	0.050	<0.050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Si-T	mg/L	0.10	<0.10	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	SO4-D	mg/L	1.0	<1.0	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Sr-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Tl-T	mg/L	0.000010	<0.000010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-11OCT23-B	B	11-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Al-T	mg/L	0.0030	<0.0030	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Ca-T	mg/L	0.050	<0.050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Cd-T	mg/L	0.000010	<0.000010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Cl-D	mg/L	1.0	<1.0	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Fe-T	mg/L	0.010	<0.010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Hard-T	mg/L	0.50	<0.50	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Mg-T	mg/L	0.050	<0.050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Mn-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Na-T	mg/L	0.050	<0.050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Si-T	mg/L	0.10	<0.10	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	SO4-D	mg/L	1.0	<1.0	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Sr-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0

Appendix 1 - Tables

Table 42 Field Blanks (FB), Trip Blanks 6 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code	Sample No.	Class	Date	Param.Code	Units	Lab MDL	Result 1	Rel.% Diff.
EB3	EB3-17OCT23-B	B	17-Oct-23	TI-T	mg/L	0.000010	<0.000010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-17OCT23-B	B	17-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Ag-T	mg/L	0.000020	<0.000020	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Al-T	mg/L	0.0030	<0.0030	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	As-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Ba-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Be-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	B-T	mg/L	0.050	<0.050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Ca-T	mg/L	0.050	<0.050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Cd-T	mg/L	0.000010	<0.000010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Cl-D	mg/L	1.0	<1.0	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Co-T	mg/L	0.00020	<0.00020	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Cr-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Cu-T	mg/L	0.00050	<0.00050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Fe-T	mg/L	0.010	<0.010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Hard-T	mg/L	0.50	<0.50	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	K-T	mg/L	0.050	<0.050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Li-T	mg/L	0.0020	<0.0020	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Mg-T	mg/L	0.050	<0.050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Mn-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Mo-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Na-T	mg/L	0.050	<0.050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Ni-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Pb-T	mg/L	0.00020	<0.00020	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Sb-T	mg/L	0.00050	<0.00050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Se-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Si-T	mg/L	0.10	<0.10	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Sn-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	SO4-D	mg/L	1.0	<1.0	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Sr-T	mg/L	0.0010	<0.0010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	S-T	mg/L	3.0	<3.0	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Ti-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	TI-T	mg/L	0.000010	<0.000010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	U-T	mg/L	0.00010	<0.00010	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	V-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Zn-T	mg/L	0.0050	<0.0050	0.0
EB3	EB3-23OCT23-B	B	23-Oct-23	Zr-T	mg/L	0.00010	<0.00010	0.0