



PE:7008 QUARTER 4 REPORT

January through March 2021

Kathleen Russell
kathleen.russell@quinsam.com

TABLE OF CONTENTS

Table of Contents	1
1.0 Non-Compliance Events.....	5
1.1 Permit Limit Exceedance.....	5
1.2 Compliance with Permit.....	6
2.0 Water Management Systems.....	8
2.1 North Water Management – Settling Pond 4 (WD / SP4).....	8
2.2 South Water Management - Settling Pond 1 (SPD / SP1).....	8
2.3 96-hour Rainbow Trout Bioassays.....	8
2.4 7-South (7SSD) Water Management.....	9
3.0 Water Quantities & Flow Rates.....	9
7.0 Passive Treatment System (PTS).....	9
8.0 Quality Assurance Quality Control.....	12
9.0 Conclusion.....	13

List of Tables within Report:

Table 1: Exceedance Summary Table for Settling Pond #4.....	5
Table 2: Discharge to River.....	7
Table 3: Measured Flow Rates (L/s).....	7
Table 4: Flow and level table at 2-South QU11-11 (INF).....	10
Table 5 Summary of Sites Sulphate Concentrations and Reduction Rates.....	11

List of Figures within Report:

Figure 1: 2-South Mine Pool at INF Flow versus Level.....	10
Figure 2: Average Sulphate Concentrations in 2-South Area.....	11
Figure 3: Sulphate Reduction through the Water Management System.	12

Appendix I**Table Titles**

Table 1 - EMS ID
Table 2 - Exceedance Report
Table 3 - E207409 WD-Exceedances
Table 4 - CSR-AL
Table 5 - Settling Pond 4 (WD) -SumTable
Table 6 - WD-Diss Metals - Water
Table 7 - WD-Tot Metals - Water
Table 8 - WD-Inorganic - Water
Table 9 - WD-Others
Table 10 - WD-Max Values

Table 11 - WD-Min Values
Table 12 - WD-Date Summary
Table 13 - Settling Pond 1 (SPD) - Summary
Table 14 - SPD-Diss Metals - Water
Table 15 - SPD-Tot Metals - Water
Table 16 - SPD-Inorganic - Water
Table 17 - SPD-Others
Table 18 - SPD-Max Values
Table 19 - SPD-Min Values
Table 20 - SPD-Date Summary
Table 21 - Within Mine -Summary
Table 22 - Within Mine-Diss Metals
Table 23 - Within Mine -Tot Metals
Table 24 - Within Mine- Inorganic
Table 25 - Within Mine -Others
Table 26 - Within Mine -Max Values
Table 27 - Within Mine-Min Values
Table 28 - Within Mine-Date Summary
Table 29 - WD Discharge
Table 30 - SPD Discharge
Table 31 - 7SSD Discharge
Table 32 - 2S Discharge
Table 33 - Weekly Discharge Tables
Table 34 - Groundwater Description
Table 35 - Groundwater
Table 36 - Precipitation
Table 37 - Unauthorized Discharge

Summary of Events for the Fourth Quarter

During the 4th Quarter (Q4) January 1st through March 31st, Quinsam Coal Corporation (QCC) maintained the environmental obligations for permits PE:7008 held with the Ministry of Environment and Climate Change Strategy and the Mines Act permit, C-172. The mine continues to be operated in a “care and maintenance” mode with The Bowra Group Inc. as the receiver.

On October 20, 2020, Ministry of Environment and Climate Change Strategy, Environmental Protection Division staff conducted an onsite inspection of the facility, Quinsam Coal Corporation with authorization number UA#7008 under the *Environmental Management Act*. A file review was completed of the Quinsam Coal Mine site to verify compliance with the Environmental Management Act. This inspection was conducted in follow-up to Inspection Report (IR) 71895, which resulted in a warning letter for an unauthorized discharge at the Long lake Seep when the 2-South mine pump failed in late January 2020.

Quinsam was also found out of compliance with a number of permit conditions related to missed samples, continuous discharge and areas in the permit requiring an amendment. A response to the inspection report was sent out to EnvironmentalCompliance@gov.bc.ca on February 17, 2021.

For those areas where a permit amendment is required QCC is prepared to apply for an amendment to PE:7008 with Ministry of Environment and Climate Change Strategy (ENV). QCC recognises an amendment to PE:7008 would address certain issues identified as non-compliant under IR 159669R; however, based on the current operational status of the mine site (care and maintenance with a potential sale) QCC understands ENV does not want to discuss a further permit amendment until the future outcome of the mine is determined. As a result, there are conditions in the permit where QCC will not meet compliance under its current operational status without a further permit amendment. Areas where a permit amendment is required to bring QCC back into compliance include the following include:

- Average authorized discharge rates at Settling Pond #4
- Receiving environment monitoring locations in Block 242 (E225798 and E225808).
- Current operational procedures for 7-South authorized discharge location (7SSD)
- Required water cover over 7SSD

Refer to the Remedial Action Plan for PE: 7008 for further details.

Reports submitted this quarter include:

- Annual Reclamation Report 2021 Mines Act Permit (C-172)
- Environmental Procedures Manual 2020 (PE:7008)
- Annual Report for Middle Point Coal Storage and Barge Loading Facility (PE:17181)

In addition to surface monitoring groundwater monitoring consisted of 8 ex-situ groundwater wells, 12 in-situ groundwater (mine pool) areas and 2 mine sumps were monitored this quarter. Routine inspections were conducted, and any required maintenance of the water management structures was completed.

During Q4 327.2 mm of accumulated precipitation was received at the site with 168 mm received during January (1-15). As a result, 3-South pit water levels rose to concerning levels but were managed with continued pumping. In order to mitigate any future unauthorized discharge from 3-South pit during heavy rain events, a submersible 58 horsepower pump was installed in 2-South pit. The new 2-South pipeline, ties into the existing 3-South pipeline that discharges into a roadside ditch leading to Settling pond # 1. Reducing water levels in 2-South pit below the 1.88 m outlet structure, restricts water level increases in 3-South pit.

In February 2020, the 5-Mains 2-North dewatering pump failed and on November 30, 2020 the 1-Mains 2-North dewatering pump failed as reported in the Q3 report. The 3-Mains pumping network was used as the backup system for dewatering the mine pool until the failed pumps could be replaced. Consequently, the 2-North mine pool water elevation water level rose to 243.7 meters above sea level (MASL) by March 22, 2021. The water was being managed through the 3-Mains pumping system, but the mine had never been flooded to that elevation historically.

During Q4 water was pumped from 7-South mine pool into the 5-South Mine pool continuously with the 5-South mine pool pumped periodically into 3-Mains 2-North mine area.

The combined mine waters are discharged from 3-Mains 2-North into Brinco brook where flows are directed to Settling Pond 4 (WD / SP4). SP4 is the authorized discharge location for the 2-North area where permit limits are applied to water quality and quantity. SP4 discharge water flows through a series of wetlands and biomass areas before entering Middle Quinsam lake, near the inlet.

Poor water quality was observed at SP4 in early March as a result of a full mine pool flushing oxidized mine walls, coupled with pumping from the 5-South Mine. Discharge water quality from SP4 failed to meet permit limits for total suspended solids (TSS) and dissolved iron (Fe-D) on March 4, 9, 10, 11, 15, 19 and 22. Details are described below.

An unauthorized discharge occurred on March 17th from a groundwater well-draining into the Quinsam River. The discharge was mitigated with a cap on the well as of March 19, 2021, reducing the risk for any further potential adverse impacts on the receiving environment. Spill report number DGIR 204584 was generated through the Provincial Emergency Line on March 17, 2021.

1.0 NON-COMPLIANCE EVENTS

1.1 PERMIT LIMIT EXCEEDANCE

Dewatering 5-South mine pool into 3-Mains 2-North and elevated water levels in 2-North mine resulted in high concentrations of iron and TSS in WD. Table 1 below, summarizes the events where TSS and Fe-D were elevated above permit limits at WD.

On March 15th a 96-hour, 100 % concentration, Rainbow trout toxicity test was collected from WD. The test passed with 100 % survival rates. Downstream water quality collected at EMS ID: E207411, site WC resulted in water quality meeting permit limits and acute B.C. Water Quality Guidelines for Protection of Aquatic Life (WQG-Max).

Water entering SP4 was directed to the 2-North PAG-Pond (WP) in order to reduce discharge. This occurred periodically throughout March with discharged completely ceased on March 4, 16, 17 and 24 until results were received from the analytical laboratory. There was limited holding capacity within WP and therefore it was not a permanent solution and water had to be released.

Water quality improved once the 5-Mains 2-North well pump was replaced on March 24, 2021. Results of samples collected at WD from March 25 for Fe-D were 0.012 mg/L and on April 6, 0.0169 mg/L with corresponding downstream at WC from April 6, resulting in 0.0153 mg/L, indicating limited adverse effects for aquatic receptors. A non-compliance report was submitted on April 29, 2021.

Table 1: Exceedance Summary Table for Settling Pond #4

Exceedance Summary Table for EMS ID: E207409 Settling Pond #4												
Results												
EMS ID - Site Name	*DGIR Number	Daily Max. Flow (m3/s)	Daily Average Flow (m3/s)	Date	Sample ID	BV Labs Sample ID	BV Labs Job ID	Parameter	Permit Limit	Result	DL	Units
E207409 - SP4 / WD	204693 (no discharge occurred)	0	0	04-Mar-21	WDCOMP-4MAR21-P	ZL1971	C114768	Dissolved Iron (Fe)	0.3	1.48	0.01	mg/L
	204694	0.131	0.109	09-Mar-21	WD-9MAR21-P	ZL5595	C115472	Dissolved Iron (Fe)	0.3	0.679	0.01	mg/L
	204545	0.084	0.033	15-Mar-21	WD-15MAR21-P	ZM3645	C116949	Dissolved Iron (Fe)	0.3	0.44	0.01	mg/L
	204695	0.081	0.047	10-Mar-21	WDCOMP-10MAR21-P	ZM3621	C116941	Total Suspended Solids (TSS)	25	65	1.0	mg/L
		0.12	0.068	11-Mar-21	WDCOMP-11MAR21-P	ZM3622	C116941	Total Suspended Solids (TSS)	25	39	1.0	mg/L
	204752	0.154	0.102	19-Mar-21	WDCOMP-19MAR21-P	ZN5782-01	C119472	Total Suspended Solids (TSS)	25	35	1.0	mg/L
	204752	0.144	0.093	22-Mar-21	WD-22MAR21-P	ZN3527-03	C118890	Dissolved Iron (Fe)	0.3	9.82	0.01	mg/L
		0.144	0.093	22-Mar-21	WD-22MAR21-P	ZN3527-01	C118890	Total Suspended Solids (TSS)	25	35	1.0	mg/L

*Dangerous Goods Information Reference Number

1.2 COMPLIANCE WITH PERMIT

The following represents a summary of permit non-compliance(s) (PNC) specific to unauthorized discharges and continuous flow requirements. This information is also summarized in Appendix I, Table 2.

At site Stream 1, 7S (EMS ID E292109) continuous flow was not recorded from November 2nd through January 27th. The pressure transducer in the stilling well could not be retrieved, resulting in missing data. This was replaced on January 27th, 2021.

Missing continuous flow was not recorded at Settling Pond #1 (SP1 / SPD) (EMS ID E218582) where continuous flow is required. This occurred on March 9 due to a sensor issue. Staff gauge readings measuring water height over the decant riser were used to derive the flow rate for the day. The Long lake seep flow meter sensor was used at SP1 until the new sensor arrived and was replaced on March 17th.

An unauthorized discharge occurred at groundwater well QU1109 when the well became artesian, discovered on March 17, 2021. QU11-09 is a nested well that accesses three zones, shallow groundwater, water cover over course coal refuse (CCR) in 1 seam and water quality below the 1 seam. This well is located in 88 panel of the River Barrier Pillar between the 2 North and 5-South Mine.

The water table in 2-North Mine (aquifer recharge zone) increased to a higher elevation (250 MASL) than groundwater well QU1109 (226 MASL) causing the well to become artesian and discharge mine water into the Quinsam river. This occurred from February till March 18 when discharge was directed into a sump area and on March 19 the well was capped, and discharge was reduced. Subsurface seepage continues in the area as the ground elevation is 226.3 MASL and the mine pool is currently at 227 MASL.

Once discovered the Provincial Emergency line was called and the unauthorized discharge was reported with a Dangerous Goods Information Reference (DGIR) number generated, (DGIR 204584) and a report was submitted on March 19.

Monitoring results display elevated iron and sulphate at the well head with reduced concentrations entering the river. Monitoring was performed 80 meters upstream and downstream on the river within the vicinity of the of the well. Results were compared to BC Water Quality Guidelines for protection of aquatic life, maximum values (WQG-Max). All results in the river were below the WQG-Max except copper was elevated upstream resulting in 0.00102 mg/L, exceeded the lowest level (0.0009 mg/L).

The spill pathway was sampled before it entered the river and results indicate fluoride, arsenic and ammonia were above WQG-Max. Refer to Appendix 1, Table 37 for the full set of results.

Table 2: Discharge to River

Discharge Entering River 1 L/s			
Parameter (mg/L)	WQG-Max	22-Mar-21	13-Apr-21
Dissolved Sulphate (SO ₄)		290	300
Dissolved Fluoride (F)	0.4	0.48	0.49
Dissolved Iron (Fe)	0.35	0.117	0.157
Total Arsenic (As)	0.005	0.056	0.0486
Total Iron (Fe)	1	0.942	0.256
Total Ammonia (N)	0.11	0.14	0.15

The flow measurement results for the groundwater well QU1109 and the subsurface seepage to the river is included in the table below. The flow rate measured at the entrance where the seepage is flowing into the Quinsam River was measured at 1.1 L/s on April 21 and 1 L/s on April 26.

Table 3: Measured Flow Rates (L/s)

Site	Date	Flow Rate, l/s	Methodology
QU1109M	March 19, 2021	1	Approximate estimation
QU1109M	March 30, 2021	0.16	Bucket test
QU1109M	April 7, 2021	0.08	Visual estimation (compared to the one measured on March 30, 2021)
QU1109M	April 21, 2021	0.013	1 litre measuring cylinder
Seepage to River	April 21, 2021	1.1	Bucket test
Seepage to River	April 26, 2021	1.0	Bucket test
QU1109M	April 26, 2021	0.19	1 litre measuring cylinder

2.0 WATER MANAGEMENT SYSTEMS

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

Discharge at Settling Pond 4 (SP4) occurred for all 86 days during this quarter with an average daily flow rate of $0.0641 \text{ m}^3/\text{s}$ and a quarterly maximum flow rate of $0.0.196 \text{ m}^3/\text{s}$. Appendix I, Table 29 display the results for flow at SP4.

Dewatering of the underground 2-North mine continued throughout this quarter with pumping from 3 Mains 2-North (3M2N) dewatering well to surface at Brinco Brook and the 2N PAG-CCR facility. Brinco Brook mixes with water pumped from 2-North Portal Sump and flows into SP4 where it is either released to the receiving environment, used to maintain cover over the 2N PAG-CCR (WP) or used for coal processing activities (when operating). The 1M2N dewatering pump failed on November 30th leaving only 3M2N operating to dewater the 2-Noth mine.

Sulphate concentrations averaged 808 mg/L, TSS averaging 12 mg/L, and pH remained neutral ranging from 7.23 to 8.34. Complete results for Setting Pond 4 are displayed in Appendix I.

2.2 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 $0.0453 \text{ m}^3/\text{s}$ and quarterly maximum of $0.2560 \text{ m}^3/\text{s}$. Appendix I, Table 26 display the results for flow at SP1.

Water from 3S PAG-CCR storage facility was routinely pumped into SP1 throughout the quarter. Dewatering of the 2S mine pool at QU11-11 (INF) continued with all water directed through the Passive Treatment System (PTS) at cells Biochemical Reactor (BCREFF) and Sulphide Polishing Cell (SPCEFF). 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. Sulphate concentrations averaged 198 mg/L, TSS averaged 1.27 mg/L and pH remained neutral ranging from 7.31 to 8.02. Complete results for Setting Pond 1 are displayed in Appendix I.

2.3 96-HOUR RAINBOW TROUT BIOASSAYS

Discharge Settling Pond # 4 was collected for 96-hour rainbow trout bioassays on March 15, 2021 water quality failed to meet permit limits. The test passed with 100 % survival rates.

2.4 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 Mine Pool. The supernatant from 7SSD was sampled on October 5th this quarter as required by the amended permit.

Water quality at 7S Stream 1 remained within water quality guidelines during monthly sampling events.

3.0 WATER QUANTITIES & FLOW RATES

Flow and precipitation data are presented tabularly in Appendix I.

Appendix I, Table 32 display flow requirements for EMS ID E292127 (2S) inflow and outflow. Weekly flow for EMS ID's E292130 (LLE) and E292130 (LLSM / LLS) are available in Appendix I, Table 33.

The Quinsam environmental department has established flow curves for all sites required under the effluent permit. Flows were observed to increase during January through February in the rivers with peaks observed during the first two weeks of January correlating with heavy rains.

Precipitation data for the site during this reporting period is included in Appendix I, Table 36. Total precipitation was 327.2 mm during Q4 with the greatest accumulation observed in January (184 mm). Isolated events of heavy rain contributed significantly to that amount (i.e. on January 6 the site experienced 33.4 mm of precipitation).

7.0 PASSIVE TREATMENT SYSTEM (PTS)

The PTS was operational from May 12th to present. The treatment system was operating at 4.5 L/s, Average amount of treated mine water pumped over the quarter (92 days) was approximately 46000 m³. The mine pool water level was measured at 6m above the pump on October 6 and increased to 18.5 m in early January with increased precipitation and declining to 16 m by the end of the March.

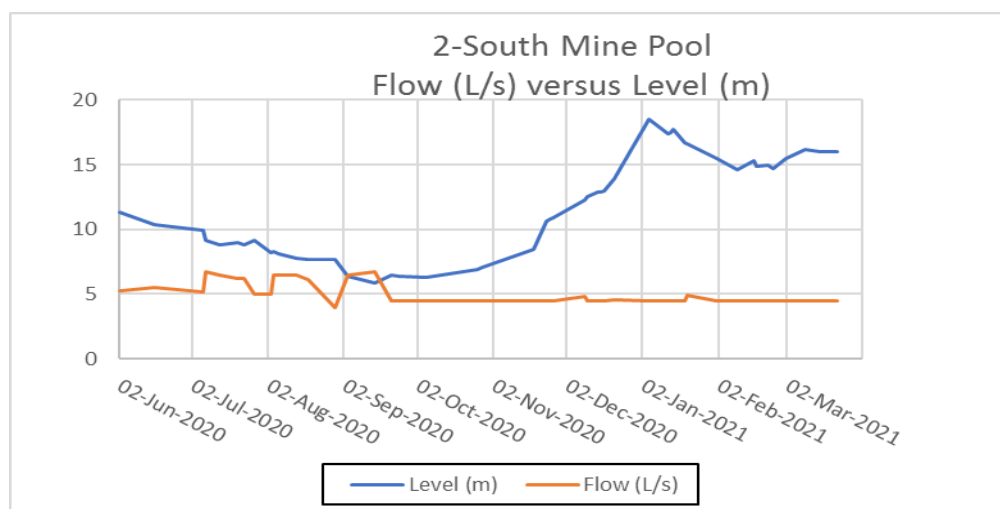


Figure 1: 2-South Mine Pool at INF Flow versus Level.

Table 4: Flow and level table at 2-South QU11-11 (INF)

Date	Level (m)	Flow (L/s)
04-Jan-2021	18.5	4.5
12-Jan-2021	17.4	4.5
13-Jan-2021	17.5	4.5
14-Jan-2021	17.7	4.5
19-Jan-2021	16.7	4.5
20-Jan-2021	16.6	4.9
01-Feb-2021	15.5	4.5
09-Feb-2021	14.6	4.5
16-Feb-2021	15.3	4.5
17-Feb-2021	14.9	4.5
22-Feb-2021	15	4.5
24-Feb-2021	14.7	4.5
01-Mar-2021	15.5	4.5
09-Mar-2021	16.2	4.5
15-Mar-2021	16	4.5
22-Mar-2021	16	4.5
Min	14.60	4.50
Max	18.50	4.90
Avg	16.1	4.5

Average concentrations of dissolved sulphate have been entering the system from the 2-South mine pool measured at INF resulting in 597 mg/L and leaving the system at the Sulphide Polishing

Cell (SPCEFF) resulting in 476 mg/L. Refer to Table 5 and Figures 2 and 3 below. This has led to a reduction in average sulphate concentrations of 121 mg/L. Sulphate reduction between INF and Biochemical Reactor (BCR) averaged 66 mg/L. The station, 2-South Inflow (2SI), receives discharge from the PTS, had an average sulphate concentration of 291 mg/L and SPD averaged 198 mg/L for Q4.

Overall, the greatest average sulphate reduction exists between INF to SPD resulting in 399 mg/L. Warmer ambient temperatures normally increase microbial metabolic activity within the BCR and SPC during summer and early fall. The low average reduction rate 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 399 mg/L was attained between INF and SPD. The original reduction goal has been achieved for the PTS, which was to reduce sulphate concentrations to 300 mg/L.

Table 5 Summary of Sites Sulphate Concentrations and Reduction Rates

	INF	BCREFF	SPCEFF	2SI	SPD	2S	3S
Average	597	542	476	291	198	275	548
Count	12	11	10	12	12	4	5
Min	560	450	250	130	75	230	450
Max	630	590	540	390	320	310	630
Sulphate reduction	INF to BCR	BCR to SPCEFF	INF to SPCEFF	INF to 2SI	INF to SPD		
	55	66	121	306	399		

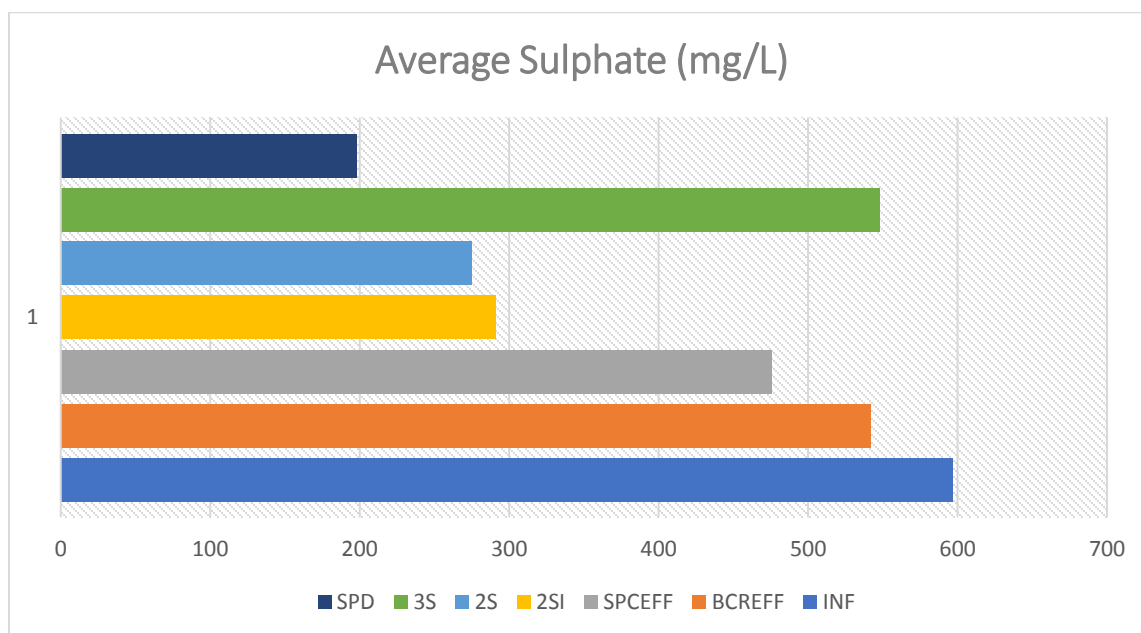


Figure 2: Average Sulphate Concentrations in 2-South Area

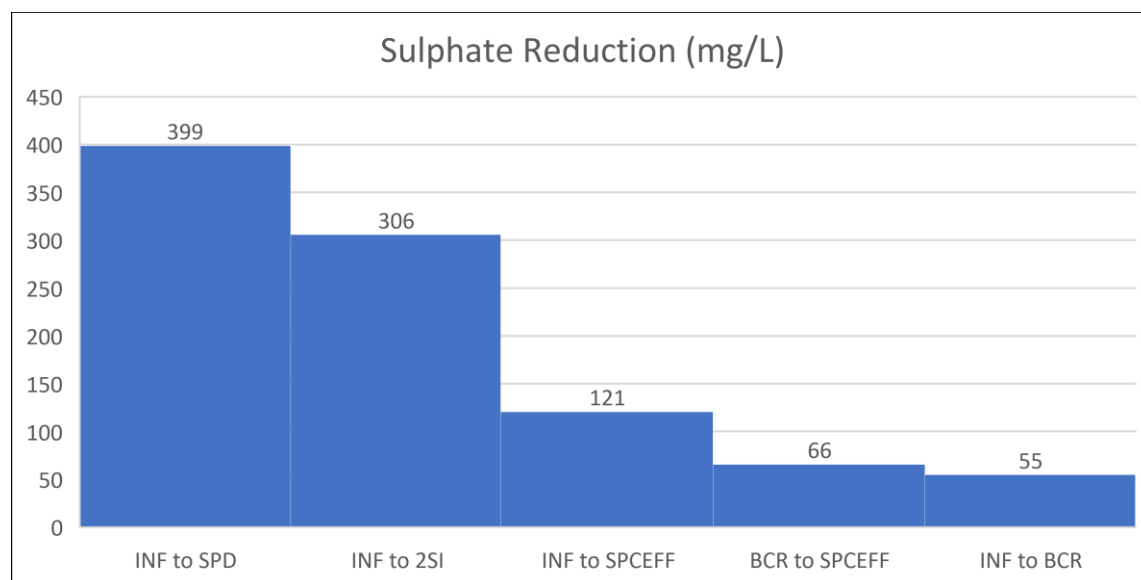


Figure 3: Sulphate Reduction through the Water Management System.

The PTS is effective at maintaining water cover over the PAG-CCR in the 2-South pit and reducing discharge at the Seep into Long Lake during low flow periods. This is accomplished by decreasing the elevation of the mine pool below the elevation of the seep. 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 and 3-South systems and groundwater well MW004. A relationship between MW004, Seep flow and the elevation of the mine pool at the INF location continues to be developed with observations noted every quarter. Long lake Middle Seep stops flowing when the mine pool water level reaches 8.20 m above the pump with the smaller seep stopping at 7.80 m. The seeps started flowing at about 7.80 m to 8.5 m above the pump in Q3 during late November 2020.

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.

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 as a result of mining activities and create management plans with a focus on mitigating potential receiving environment impacts.

Quinsam is committed to limit impacts placed on the environment through operational procedures, striving to prevent adverse environmental impacts and is dedicated to internally investigate those parameters displaying an increasing trend. The permit limit exceedances and unauthorized discharges experienced this quarter did play a crucial role in understanding the hydrogeological connection to the river if the mine pool is allowed to flood past the 226 MASL. This was unexpected and indicates a revision to the Closure plan is required.

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
Environmental Coordinator



Ph: (250) 286-3224 ext. 225

E-mail: kathleen.russell@quinsam.com

List of Tables

Table Titles

Table 1 - EMS ID
Table 2 - Exceedance Report
Table 3 - E207409 WD-Exceedances
Table 4 - CSR-AL
Table 5 - Settling Pond 4 (WD) -SumTable
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Table 9 - WD-Others
Table 10 - WD-Max Values
Table 11 - WD-Min Values
Table 12 - WD-Date Summary
Table 13 - Settling Pond 1 (SPD) - Summary
Table 14 - SPD-Diss Metals - Water
Table 15 - SPD-Tot Metals - Water
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Table 17 - SPD-Others
Table 18 - SPD-Max Values
Table 19 - SPD-Min Values
Table 20 - SPD-Date Summary
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Table 28 - Within Mine-Date Summary
Table 29 - WD Discharge
Table 30 - SPD Discharge
Table 31 - 7SSD Discharge
Table 32 - 2S Discharge
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Table 35 - Groundwater
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Table 1 - EMS ID			
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 Operation			
E207409	Settling Pond #4 Decant	SP4 / 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	SP1 / 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 Operation			
E292069	7-South Surface Decant	7SSD	Discharge (MW & FW)
E292110	7-South Adit Sump	7SPS	MW
Seep Monitoring Sites			
E292131	Long Lake Seeps	LLS & LLSM	MW
	Small seep near the plant (PDS) & groundwater surface near road entering MQL (PDSR)	PDSR	GW & MW
Receiving Environment Monitoring Sites - Initial Zone of Dilution (IDZ)			
Initial Dilution Zone (IDZ) Monitoring Sites			
E292130	Long Lake Entrance (South end water entering Long Lake)	LLE	IDZ
E292109	Road Crossing Bridge on Stream 1 above the Lower Wetland (Downstream of 7SSD).The site name is Stream 1, 7S.	7S	IDZ
Receiving Water (Streams & Lakes Monitoring Sites) 5 in 30 Monitoring Locations			
North Coal Mining Operation			
E0126402	Quinsam River at Argonaut Road	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			
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 Mining Operation (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
E292112	Lower Wetland Outlet at the Confluence of the Quinsam River	LWO	FW
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
7-South (Proposed) Area 5 Mining Operation			
E297231	Iron River upstream of 7SA5	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
Block 242 Mining Operation (Reclaimed / Not Monitored)			
E225798	Iron River upstream of the 242 influence	Captured at IR6	FW
E225808	Iron River downstream of the 242 influence	Captured at IR8	FW
Long Lake Seep Passive Treatment System			
N/A	Groundwater well (2-South Mine Pool) influent to the treatment system	QU11-11 (INF-EFF)	MW
N/A	Bio Cell Reactor	BCR-EFF	MW
N/A	Sulphide Polishing Cell	SPC-EFF	MW
N/A	2-South Inflow	2SI	MW
N/A	2-South Culvert (Outflow)	2SC	MW

* MW= Mine Water, FW= Freshwater, GW =Groundwater IDZ = Intial Dilution Zone

Table 2 - Exceedance Report**SUMMARY OF PERMIT NON-COMPLIANCES**

EMS ID & Site Name	Non-Compliance (PNC) event	Date	Non-Compliance Reason	Number of events or period for PNC, P or spill event.
E292109 - 7S	Missing 27 days of required continuous discharge	January 1st -27th	Level logger could not be retrieved from well.	Q4 27 days
E218582 -SP1 / SPD	Missing 1 day of required continuous discharge	Mar-09	Flow meter sensor failed. Exchanged with different sensor.	Flow was not recorded continuously for 1 day where staff gauge readings were used to derive flow. Notice sent to ENV March 15.
Unauthorized discharge at groundwater well QU1109	Unauthorized discharge - DGIR 204584 . All mine impacted discharge must pass through authorized works.	February to April (timeline is still being developed and investigated)	The water table in 2-North Mine (aquifer recharge zone) increased to a higher elevation than groundwater well QU1109 (226 MASL) causing the well to become artesian and discharge mine water into the Quinsam river.	Spill Report DGIR 204584 submitted report March 19 and additional follow up.
E207409 - SP4 / WD	Elevated Fe-D and TSS	March 4, 9, 10, 11, 15, 19 and 22	Dewatering 5-South mine pool into 3-Mains 2-North and elevated water levels in 2-North mine resulted in high concentrations of iron and TSS. The 5-Mains and 1-Mains 2-North pumps were being replaced, resulting in limited dilution at SP4. Water quality improved once 5-Mains 2-North was installed (March 24).	There were 6 reported permit limit exceedance events. Only 5 events where discharge occurred. One event where iron was elevated with no discharge occurring. Altogether 4 iron and 4 TSS exceedances. See table (3)

*Dangerous Goods Information Reference Number

Table 3 - E207409 WD-Exceedances

Exceedance Summary Table for EMS ID: E207409 Settling Pond #4
Results

[illegible]

Table 4 - CSR-AL**BC Contaminated Site Regulations (CSR) Schedule 6, Freshwater Aquatic Life (AL) - Lowest Level Exceedances for Ex-situ Groundwater**

Ex-Situ Groundwater			*88 Panel River Barrier Pillar	River Barrier Pillar			7-South Area 5		4-South Area
Area	Well ID	Date	QU1109M 17-Mar-21	QU1105S 16-Mar-21	QU1105D 16-Mar-21	QU0813A 10-Feb-21	QU0813B 10-Feb-21	QU1206S 4-Mar-21	QU1008D 21-Jan-21
Parameter	Units	CSR-AL							
SO ₄	mg/L	1280	1300						
Sulphide as H ₂ S	mg/L	0.02	0.0914	0.0404	13.8	0.223	0.0521	0.298	0.0404
As-D	mg/L	0.05	0.0914	0.115		0.417	0.459	0.391	0.151

* QU1109M has been not been considered an ex-situ well previously.

Table 5 - Settling Pond 4 (WD) -SumTable

SUMMARY TABLE

EMS ID: E207409

SETTLING POND #4 (WD)

Sample ID	Sample Collection Date	BV Labs Job ID	BV Labs Sample ID	Water	Diss Metals - Water	Tot Metals - Water	Inorganic - Water	Others
WD-4JAN20-P	4-Jan-2021	C100809	ZC9623		x		x	x
WD-4JAN20-P Lab-Dup	4-Jan-2021	C100809	ZC9623		x			
WD-11JAN21-P	11-Jan-2021	C102299	ZD7252					x
WD-18JAN21-P	18-Jan-2021	C103883	ZE4651					x
WD-25JAN21-P	25-Jan-2021	C105128	ZF1927					x
WD-1FEB21-P	1-Feb-2021	C106913	ZG3152		x	x	x	x
WD-1FEB21-P Lab-Dup	1-Feb-2021	C106913	ZG3152		x	x		
WD-8FEB21-P	8-Feb-2021	C108734	ZH5518					x
WD-16FEB21-P	16-Feb-2021	C110173	ZI2244					x
WD-18FEB21-P	18-Feb-2021	C110965	ZI7705		x	x		x
WD-22FEB21-P	22-Feb-2021	C111961	ZJ4097					x
WD-1MAR21-P	1-Mar-2021	C113684	ZK4947		x	x	x	x
WD-4MAR21-P	4-Mar-2021	C114768	ZL1967		x	x		x
WDCOMP-4MAR21-P	4-Mar-2021	C114768	ZL1971		x	x		x
WD-9MAR21-P	9-Mar-2021	C115472	ZL5595		x	x	x	x
WD-9MAR21-P Lab-Dup	9-Mar-2021	C115472	ZL5595			x		x
WDCOMP-10MAR21-P	10-Mar-2021	C116941	ZM3621					x
WDCOMP-11MAR21-P	11-Mar-2021	C116941	ZM3622					x
WDCOMP-12MAR21-P	12-Mar-2021	C116941	ZM3623					x
WDCOMP-13MAR21-P	13-Mar-2021	C116941	ZM3624					x
WDCOMP-14MAR21-P	14-Mar-2021	C116941	ZM3625					x
WD-15MAR21-P	15-Mar-2021	C116949	ZM3645		x	x	x	x
WD-15MAR21-P	15-Mar-2021	C116938	ZM3611					x
WDCOMP-18MAR21-P	19-Mar-2021	C119472	ZN5781					x
WDCOMP-19MAR21-P	19-Mar-2021	C119472	ZN5782					x
WDCOMP-20MAR21-P	20-Mar-2021	C119472	ZN5783					x
WDCOMP-21MAR21-P	21-Mar-2021	C119472	ZN5784					x
WD-22MAR21-P	22-Mar-2021	C118890	ZN3527		x	x	x	x
WDCOMP-22MAR21-P	22-Mar-2021	C119472	ZN5785					x
WDCOMP-23MAR21-P	23-Mar-2021	C119472	ZN5786					x
WD-25MAR21-P	25-Mar-2021	C119472	ZN5787		x	x	x	x
WD-25MAR21-P Lab-Dup	25-Mar-2021	C119472	ZN5787		x	x	x	x
WDCOMP-27MAR21-P	27-Mar-2021	C121334	ZO5373					x
WDCOMP-28MAR21-P	28-Mar-2021	C121334	ZO5374					x
WDCOMP-29MAR21-P	29-Mar-2021	C121334	ZO5375					x
WDCOMP-30MAR21-P	30-Mar-2021	C121334	ZO5376					x

Table 6 - WD-Diss Metals - Water

Dissolved Metals - Water

Parameter	Criteria ¹	Units	RDL	Sample ID						
				BV Labs Job ID / Sample ID						
				Sample Collection Date						
				Sample Collection Time						
				WD-4JAN20-P C100809 / ZC9623 2021-01-04	WD-4JAN20-P Lab-Dup C100809 / ZC9623 2021-01-04	WD-4JAN21-R C100809 / ZC9624 2021-01-04	WD-1FEB21-P C106913 / ZG3152 2021-02-01	WD-1FEB21-P Lab-Dup C106913 / ZG3152 2021-02-01	WD-18FEB21-P C110965 / Z17705 2021-02-18	WD-1MAR21-P C113684 / ZK4947 2021-03-01
Dissolved Hardness (CaCO ₃)		mg/L	0.50	371	-	370	610	-	585	592
Dissolved Aluminum (Al)	0.5	mg/L	0.0030 - 0.0060	0.0225	0.0219	0.0214	0.0157	0.0142	0.0034	0.0033
Dissolved Antimony (Sb)		mg/L	0.00050 - 0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Arsenic (As)		mg/L	0.00010 - 0.00020	0.00035	0.00033	0.00033	0.00048	0.00051	0.00017	0.0003
Dissolved Barium (Ba)		mg/L	0.0010 - 0.0020	0.0101	0.0098	0.0098	0.0126	0.0126	0.0147	0.0142
Dissolved Beryllium (Be)		mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Bismuth (Bi)		mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Boron (B)		mg/L	0.050 - 0.10	0.367	0.359	0.331	0.625	0.626	0.845	0.685
Dissolved Cadmium (Cd)		mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000012	<0.000010
Dissolved Calcium (Ca)		mg/L	0.050 - 0.10	125	-	125	207	-	198	202
Dissolved Chromium (Cr)		mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Cobalt (Co)		mg/L	0.00020 - 0.00040	0.0011	0.00112	0.00104	0.00071	0.00073	0.0195	0.0131
Dissolved Copper (Cu)	0.02	mg/L	0.00020 - 0.00040	0.00067	0.00069	0.00063	0.00028	0.00028	0.00024	<0.00020
Dissolved Iron (Fe)	0.3	mg/L	0.0050 - 0.010	0.0251	0.0254	0.0293	0.0115	0.0105	0.0251	0.008
Dissolved Lead (Pb)	0.05	mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Lithium (Li)		mg/L	0.0020 - 0.0040	0.0057	0.0056	0.0053	0.0144	0.0142	0.0167	0.015
Dissolved Magnesium (Mg)		mg/L	0.050 - 0.10	14.5	-	14.2	22.9	-	22	21.4
Dissolved Manganese (Mn)		mg/L	0.0010 - 0.0020	0.0993	0.101	0.0994	0.122	0.124	0.598	0.538
Dissolved Mercury (Hg)		mg/L	0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	-	-	<0.0000019
Dissolved Molybdenum (Mo)		mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Nickel (Ni)		mg/L	0.0010 - 0.0020	0.0036	0.0036	0.0035	0.0023	0.0023	0.0405	0.0261
Dissolved Potassium (K)		mg/L	0.050 - 0.10	1.74	-	1.8	3.34	-	3.68	3.49
Dissolved Selenium (Se)		mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Silicon (Si)		mg/L	0.10 - 0.20	2.8	2.86	2.84	3.24	3.39	3.12	3.12
Dissolved Silver (Ag)		mg/L	0.000020 - 0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Dissolved Sodium (Na)		mg/L	0.050 - 0.10	88.7	-	88.3	233	-	291	272
Dissolved Strontium (Sr)		mg/L	0.0010 - 0.0020	0.856	0.865	0.868	1.67	1.66	1.58	1.73
Dissolved Sulphur (S)		mg/L	3.0 - 6.0	144	-	143	278	-	321	295
Dissolved Thallium (Tl)		mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Tin (Sn)		mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Titanium (Ti)		mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Uranium (U)		mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	0.00012	0.00012	<0.00010	<0.00010
Dissolved Vanadium (V)		mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Zinc (Zn)	0.1	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0093	<0.0050
Dissolved Zirconium (Zr)		mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 6 - WD-Diss Metals - Water

Dissolved Metals - Water

Parameter	Criteria ¹	Units	RDL	Sample ID						
				BV Labs Job ID / Sample ID						
				Sample Collection Date						
				Sample Collection Time						
				WD-4MAR21-P C114768 / ZL1967 2021-03-04	WD-9MAR21-P C115472 / ZL5595 2021-03-09	WD-15MAR21-P C116949 / ZM3645 2021-03-15	WD-22MAR21-P C118890 / ZN3527 2021-03-22	WD-25MAR21-P C119472 / ZN5787 2021-03-25	WD-25MAR21-P Lab-Dup C119472 / ZN5787 2021-03-25	WDCOMP-4MAR21-P C114768 / ZL1971 2021-03-04
Dissolved Hardness (CaCO3)		mg/L	0.50	618	584	608	639	369	-	646
Dissolved Aluminum (Al)	0.5	mg/L	0.0030 - 0.0060	<0.0030	<0.0060	<0.0060	<0.0060	<0.0060	-	0.0121
Dissolved Antimony (Sb)		mg/L	0.00050 - 0.0010	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	-	<0.00050
Dissolved Arsenic (As)		mg/L	0.00010 - 0.00020	0.00028	<0.00020	<0.00020	0.00033	0.00091	-	0.00048
Dissolved Barium (Ba)		mg/L	0.0010 - 0.0020	0.0163	0.0148	0.014	0.0146	0.015	-	0.0167
Dissolved Beryllium (Be)		mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	-	<0.00010
Dissolved Bismuth (Bi)		mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	-	<0.0010
Dissolved Boron (B)		mg/L	0.050 - 0.10	0.87	0.85	0.92	1.12	0.93	-	0.9
Dissolved Cadmium (Cd)		mg/L	0.000010 - 0.000020	0.000012	<0.000020	<0.000020	<0.000020	<0.000020	-	0.000046
Dissolved Calcium (Ca)		mg/L	0.050 - 0.10	208	195	202	205	122	-	218
Dissolved Chromium (Cr)		mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	-	<0.0010
Dissolved Cobalt (Co)		mg/L	0.00020 - 0.00040	0.0271	0.038	0.043	0.11	0.0143	-	0.024
Dissolved Copper (Cu)	0.02	mg/L	0.00020 - 0.00040	0.00094	<0.00040	0.00146	0.00086	<0.00040	-	0.00142
Dissolved Iron (Fe)	0.3	mg/L	0.0050 - 0.010	0.0171	0.679	0.44	9.82	0.012	-	1.48
Dissolved Lead (Pb)	0.05	mg/L	0.00020 - 0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	-	<0.00020
Dissolved Lithium (Li)		mg/L	0.0020 - 0.0040	0.0161	0.014	0.0161	0.0202	0.0166	-	0.0157
Dissolved Magnesium (Mg)		mg/L	0.050 - 0.10	24	23.5	25.2	30.8	15.6	-	24.6
Dissolved Manganese (Mn)		mg/L	0.0010 - 0.0020	0.913	0.945	1.06	2.39	0.445	-	0.884
Dissolved Mercury (Hg)		mg/L	0.0000019	-	-	<0.0000019	-	<0.0000019	<0.0000019	-
Dissolved Molybdenum (Mo)		mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	-	<0.0010
Dissolved Nickel (Ni)		mg/L	0.0010 - 0.0020	0.0479	0.0602	0.0673	0.149	0.023	-	0.0452
Dissolved Potassium (K)		mg/L	0.050 - 0.10	3.81	3.42	3.78	3.99	3.09	-	3.76
Dissolved Selenium (Se)		mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	-	<0.00010
Dissolved Silicon (Si)		mg/L	0.10 - 0.20	3.07	2.82	2.98	3.3	2.98	-	3.13
Dissolved Silver (Ag)		mg/L	0.000020 - 0.000040	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	-	<0.000020
Dissolved Sodium (Na)		mg/L	0.050 - 0.10	325	314	334	402	265	-	326
Dissolved Strontium (Sr)		mg/L	0.0010 - 0.0020	1.97	1.75	1.71	1.86	1.17	-	2.01
Dissolved Sulphur (S)		mg/L	3.0 - 6.0	358	333	332	407	197	-	366
Dissolved Thallium (Tl)		mg/L	0.000010 - 0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	-	<0.000010
Dissolved Tin (Sn)		mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	-	<0.0050
Dissolved Titanium (Ti)		mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	-	<0.0050
Dissolved Uranium (U)		mg/L	0.00010 - 0.00020	0.0001	<0.00020	<0.00020	<0.00020	<0.00020	-	0.00011
Dissolved Vanadium (V)		mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	-	<0.0050
Dissolved Zinc (Zn)	0.1	mg/L	0.0050 - 0.010	0.0073	<0.010	<0.010	0.028	0.021	-	0.0089
Dissolved Zirconium (Zr)		mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	-	<0.00010

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 7 - WD-Tot Metals - Water

Total Metals - Water

Parameter	Criteria ¹	Units	RDL	Sample ID					
				BV Labs Job ID / Sample ID					
				Sample Collection Date					
				WD-1FEB21-P 2021-02-01	WD-1FEB21-P Lab-Dup 2021-02-01	WD-18FEB21-P 2021-02-18	WD-1MAR21-P 2021-03-01	WD-4MAR21-P 2021-03-04	WDCOMP-4MAR21-P 2021-03-04
Total Hardness (CaCO3)		mg/L	0.50	404	-	584	561	659	649
Total Aluminum (Al)		mg/L	0.0030 - 0.0060	0.0405	0.0357	0.0399	0.01	0.0239	0.0075
Total Antimony (Sb)		mg/L	0.00050 - 0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010
Total Arsenic (As)		mg/L	0.00010 - 0.00020	0.00021	0.0002	0.00037	0.00042	0.00061	0.00025
Total Barium (Ba)		mg/L	0.0010 - 0.0020	0.0108	0.0108	0.0151	0.014	0.0185	0.0164
Total Beryllium (Be)		mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	0.00034
Total Bismuth (Bi)		mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Total Boron (B)		mg/L	0.050 - 0.10	0.419	0.396	0.92	0.697	1.01	0.96
Total Cadmium (Cd)		mg/L	0.000010 - 0.000020	0.000031	0.000035	0.000036	0.000017	0.000061	0.00007
Total Calcium (Ca)		mg/L	0.050 - 0.10	131	-	197	190	220	217
Total Chromium (Cr)		mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Total Cobalt (Co)		mg/L	0.00020 - 0.00040	0.00132	0.0013	0.0181	0.0127	0.0301	0.0253
Total Copper (Cu)		mg/L	0.00050 - 0.0010	0.00084	0.00085	0.00225	0.00087	0.0023	<0.0010
Total Iron (Fe)		mg/L	0.010 - 0.020	0.197	0.187	1.13	0.857	2.09	<0.020
Total Lead (Pb)		mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040
Total Lithium (Li)		mg/L	0.0020 - 0.0040	0.0066	0.0063	0.0181	0.0147	0.0163	0.0156
Total Magnesium (Mg)		mg/L	0.050 - 0.10	18.5	-	22	20.9	26.5	26.1
Total Manganese (Mn)		mg/L	0.0010 - 0.0020	0.116	0.116	0.552	0.52	0.965	0.896
Total Mercury (Hg)		mg/L	0.0000019	<0.0000019	-	-	<0.0000019	-	-
Total Molybdenum (Mo)		mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020
Total Nickel (Ni)		mg/L	0.0010 - 0.0020	0.0031	0.0031	0.0385	0.0254	0.0539	0.047
Total Potassium (K)		mg/L	0.050 - 0.10	2.02	-	3.69	3.37	4.03	3.88
Total Selenium (Se)		mg/L	0.00010 - 0.00020	0.00013	0.00013	<0.00010	<0.00010	<0.00020	<0.00020
Total Silicon (Si)		mg/L	0.10 - 0.20	2.35	2.25	3.17	2.94	3.37	3.12
Total Silver (Ag)		mg/L	0.000020 - 0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040
Total Sodium (Na)		mg/L	0.050 - 0.10	147	-	295	271	350	335
Total Strontium (Sr)		mg/L	0.0010 - 0.0020	0.95	0.947	1.56	1.71	1.99	1.91
Total Sulphur (S)		mg/L	3.0 - 6.0	170	-	329	288	378	366
Total Thallium (Tl)		mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	0.000021
Total Tin (Sn)		mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Total Titanium (Ti)		mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Total Uranium (U)		mg/L	0.00010 - 0.00020	0.00017	0.00018	<0.00010	<0.00010	<0.00020	<0.00020
Total Vanadium (V)		mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010
Total Zinc (Zn)		mg/L	0.0050 - 0.010	<0.0050	<0.0050	0.0164	0.0101	0.012	<0.010
Total Zirconium (Zr)		mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 7 - WD-Tot Metals - Water

Total Metals - Water

Parameter	Criteria ¹	Units	RDL	Sample ID					
				BV Labs Job ID / Sample ID					
				Sample Collection Date					
				WD-9MAR21-P 2021-03-09	WD-9MAR21-P Lab-Dup 2021-03-09	WD-15MAR21-P 2021-03-15	WD-22MAR21-P 2021-03-22	WD-25MAR21-P 2021-03-25	WD-25MAR21-P Lab-Dup 2021-03-25
Total Hardness (CaCO3)		mg/L	0.50	591	-	615	652	428	-
Total Aluminum (Al)		mg/L	0.0030 - 0.0060	0.0179	0.0166	0.0126	0.0356	0.007	-
Total Antimony (Sb)		mg/L	0.00050 - 0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-
Total Arsenic (As)		mg/L	0.00010 - 0.00020	0.00068	0.00062	0.00038	0.00071	0.00145	-
Total Barium (Ba)		mg/L	0.0010 - 0.0020	0.0161	0.0161	0.0153	0.0165	0.0179	-
Total Beryllium (Be)		mg/L	0.00010 - 0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	-
Total Bismuth (Bi)		mg/L	0.0010 - 0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	-
Total Boron (B)		mg/L	0.050 - 0.10	0.92	0.95	0.94	1.09	1.03	-
Total Cadmium (Cd)		mg/L	0.000010 - 0.000020	0.000041	0.000047	0.000024	0.000058	<0.000020	-
Total Calcium (Ca)		mg/L	0.050 - 0.10	198	-	205	209	142	-
Total Chromium (Cr)		mg/L	0.0010 - 0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	-
Total Cobalt (Co)		mg/L	0.00020 - 0.00040	0.0455	0.0471	0.0449	0.116	0.0167	-
Total Copper (Cu)		mg/L	0.00050 - 0.0010	0.003	0.0031	0.0021	0.0036	<0.0010	-
Total Iron (Fe)		mg/L	0.010 - 0.020	3.72	3.89	3.21	14.6	0.921	-
Total Lead (Pb)		mg/L	0.00020 - 0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	-
Total Lithium (Li)		mg/L	0.0020 - 0.0040	0.0147	0.0151	0.0163	0.0196	0.0185	-
Total Magnesium (Mg)		mg/L	0.050 - 0.10	23.2	-	25.2	31.8	17.5	-
Total Manganese (Mn)		mg/L	0.0010 - 0.0020	1.05	1.08	1.09	2.4	0.515	-
Total Mercury (Hg)		mg/L	0.0000019	-	-	<0.0000019	-	<0.0000019	<0.0000019
Total Molybdenum (Mo)		mg/L	0.0010 - 0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	-
Total Nickel (Ni)		mg/L	0.0010 - 0.0020	0.0643	0.0655	0.0698	0.149	0.0265	-
Total Potassium (K)		mg/L	0.050 - 0.10	3.51	-	3.8	4.26	3.58	-
Total Selenium (Se)		mg/L	0.00010 - 0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	-
Total Silicon (Si)		mg/L	0.10 - 0.20	2.94	3.05	3.12	3.61	3.4	-
Total Silver (Ag)		mg/L	0.000020 - 0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	-
Total Sodium (Na)		mg/L	0.050 - 0.10	335	-	339	427	299	-
Total Strontium (Sr)		mg/L	0.0010 - 0.0020	2.08	2.12	1.73	2.02	1.31	-
Total Sulphur (S)		mg/L	3.0 - 6.0	347	-	330	423	233	-
Total Thallium (Tl)		mg/L	0.000010 - 0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	-
Total Tin (Sn)		mg/L	0.0050 - 0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-
Total Titanium (Ti)		mg/L	0.0050 - 0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-
Total Uranium (U)		mg/L	0.00010 - 0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	-
Total Vanadium (V)		mg/L	0.0050 - 0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-
Total Zinc (Zn)		mg/L	0.0050 - 0.010	0.015	0.014	0.018	0.032	0.031	-
Total Zirconium (Zr)		mg/L	0.00010 - 0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	-

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Inorganic - Water

Parameter	Criteria ¹	Units	RDL	Sample ID								
				BV Labs Job ID / Sample ID								
				Sample Collection Date								
				Sample Collection Time								
				WD-4JAN20-P C100809 / ZC9623 2021-01-04	WD-4JAN21-R C100809 / ZC9624 2021-01-04	WD-1FEB21-P C106913 / ZG3152 2021-02-01	WD-1MAR21-P C113684 / ZK4947 2021-03-01	WD-9MAR21-P C115472 / ZL5595 2021-03-09	WD-15MAR21-P C116949 / ZM3645 2021-03-15	WD-22MAR21-P C118890 / ZN3527 2021-03-22	WD-25MAR21-P C119472 / ZN5787 2021-03-25	WD-25MAR21-P Lab-Dup C119472 / ZN5787 2021-03-25
Alkalinity (PP as CaCO3)		mg/L		-	-	-	-	-	-	-	-	-
Alkalinity (Total as CaCO3)		mg/L		-	-	-	-	-	-	-	-	-
Bicarbonate (HCO3)		mg/L		-	-	-	-	-	-	-	-	-
Carbonate (CO3)		mg/L		-	-	-	-	-	-	-	-	-
Hydroxide (OH)		mg/L		-	-	-	-	-	-	-	-	-
Acidity (pH 4.5)		mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)		mg/L	1.0	3.4	3.4	<1.0	8.3	18.8	17.4	13.9	6.9	5.9
Bromide (Br)		mg/L		-	-	-	-	-	-	-	-	-
Dissolved Chloride (Cl)		mg/L		-	-	-	-	-	-	-	-	-
Fluoride (F)		mg/L		-	-	-	-	-	-	-	-	-
Dissolved Sulphate (SO4)		mg/L		-	-	-	-	-	-	-	-	-
Biochemical Oxygen Demand		mg/L		-	-	-	-	-	-	-	-	-
Total Ammonia (N)		mg/L		-	-	-	-	-	-	-	-	-
Dissolved Nitrogen (N)		mg/L		-	-	-	-	-	-	-	-	-
Nitrate plus Nitrite (N)		mg/L		-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (C)		mg/L		-	-	-	-	-	-	-	-	-
Total Organic Carbon (C)		mg/L		-	-	-	-	-	-	-	-	-
Total Oil and grease	10	mg/L	1.0	-	-	<1.0	-	-	-	-	-	-
Total Sulphide		mg/L		-	-	-	-	-	-	-	-	-
Sulphide (as H2S)		mg/L		-	-	-	-	-	-	-	-	-
Total Sulphide (as H2S)		mg/L		-	-	-	-	-	-	-	-	-
Dissolved Phosphorus (P)		mg/L		-	-	-	-	-	-	-	-	-
Total Phosphorus (P)		mg/L		-	-	-	-	-	-	-	-	-
Turbidity		NTU		-	-	-	-	-	-	-	-	-
Total Suspended Solids	25	mg/L		-	-	-	-	-	-	-	-	-
Legend												
To Be Announced		TBA										
Exceeds one Criteria		Result										
Exceeds two Criteria		Result										
DL > Criteria		Result										
Criteria 1		Permit 7008 - EMS ID: E207409										

Table 9 - WD-Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Criteria ¹	Units	RDL	WD-4JAN20-P C100809 / ZC9623 2021-01-04	WD-4JAN21-R C100809 / ZC9624 2021-01-04	WD-11JAN21-P C102299 / ZD7252 2021-01-11	WD-18JAN21-P C103883 / ZE4651 2021-01-18
Others							
Alkalinity (PP as CaCO ₃)		mg/L	1.0	<1.0	<1.0	-	-
Alkalinity (Total as CaCO ₃)		mg/L	1.0	140	140	-	-
Bicarbonate (HCO ₃)		mg/L	1.0	180	170	-	-
Carbonate (CO ₃)		mg/L	1.0	<1.0	<1.0	-	-
Hydroxide (OH)		mg/L	1.0	<1.0	<1.0	-	-
Dissolved Sulphate (SO ₄)		mg/L	5.0 - 10	420	410	610	770
Total Suspended Solids	25	mg/L	1.0	5.6	4.4	3.2	3.6
Filter and HNO ₃ Preservation		N/A		FIELD	FIELD	-	-
Conductivity		uS/cm	2.0	-	-	1600	2000
pH		pH		-	-	8.34	7.91
LC50		% vol/vol		-	-	-	-

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 9 - WD-Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Criteria ¹	Units	RDL	WD-25JAN21-P C105128 / ZF1927 2021-01-25	WD-1FEB21-P C106913 / ZG3152 2021-02-01	WD-8FEB21-P C108734 / ZH5518 2021-02-08	WD-16FEB21-P C110173 / ZI2244 2021-02-16
Others							
Alkalinity (PP as CaCO ₃)		mg/L	1.0	-	<1.0	-	-
Alkalinity (Total as CaCO ₃)		mg/L	1.0	-	330	-	-
Bicarbonate (HCO ₃)		mg/L	1.0	-	410	-	-
Carbonate (CO ₃)		mg/L	1.0	-	<1.0	-	-
Hydroxide (OH)		mg/L	1.0	-	<1.0	-	-
Dissolved Sulphate (SO ₄)		mg/L	5.0 - 10	710	780	720	870
Total Suspended Solids	25	mg/L	1.0	1.2	3.6	4.8	7.6
Filter and HNO ₃ Preservation		N/A		-	FIELD	-	-
Conductivity		uS/cm	2.0	1900	-	1900	2200
pH		pH		8.13	-	7.92	7.54
LC50		% vol/vol		-	-	-	-

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 9 - WD-Others

Others

Sample ID							
BV Labs Job ID / Sample ID							
Sample Collection Date							
Sample Collection Time							
Parameter	Criteria ¹	Units	RDL	WD-18FEB21-P C110965 / Z17705 2021-02-18	WD-22FEB21-P C111961 / Z14097 2021-02-22	WD-1MAR21-P C113684 / ZK4947 2021-03-01	WD-4MAR21-P C114768 / ZL1967 2021-03-04
Others							
Alkalinity (PP as CaCO3)		mg/L	1.0	-	-	<1.0	-
Alkalinity (Total as CaCO3)		mg/L	1.0	-	-	300	-
Bicarbonate (HCO3)		mg/L	1.0	-	-	360	-
Carbonate (CO3)		mg/L	1.0	-	-	<1.0	-
Hydroxide (OH)		mg/L	1.0	-	-	<1.0	-
Dissolved Sulphate (SO4)		mg/L	5.0 - 10	-	770	820	-
Total Suspended Solids	25	mg/L	1.0	2	4.4	2	-
Filter and HNO3 Preservation		N/A		FIELD	-	FIELD	FIELD
Conductivity		uS/cm	2.0	-	2000	-	-
pH		pH		-	7.98	-	-
LC50		% vol/vol		-	-	-	-

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 9 - WD-Others

Others

Sample ID							
BV Labs Job ID / Sample ID							
Sample Collection Date							
Sample Collection Time							
Parameter	Criteria ¹	Units	RDL	WDCOMP-4MAR21-P C114768 / ZL1971 2021-03-04	WD-9MAR21-P C115472 / ZL5595 2021-03-09	WD-9MAR21-P Lab-Dup C115472 / ZL5595 2021-03-09	WDCOMP-10MAR21-P C116941 / ZM3621 2021-03-10
Others							
Alkalinity (PP as CaCO3)		mg/L	1.0	-	<1.0	-	-
Alkalinity (Total as CaCO3)		mg/L	1.0	-	350	-	-
Bicarbonate (HCO3)		mg/L	1.0	-	430	-	-
Carbonate (CO3)		mg/L	1.0	-	<1.0	-	-
Hydroxide (OH)		mg/L	1.0	-	<1.0	-	-
Dissolved Sulphate (SO4)		mg/L	5.0 - 10	-	1100	1100	-
Total Suspended Solids	25	mg/L	1.0	3.6	11	-	65
Filter and HNO3 Preservation		N/A		FIELD	FIELD	-	-
Conductivity		uS/cm	2.0	-	2300	-	-
pH		pH		-	7.23	-	-
LC50		% vol/vol		-	-	-	-
Legend							
To Be Announced	TBA						
Exceeds one Criteria	Result						
Exceeds two Criteria	Result						
DL > Criteria	Result						
Criteria 1	Permit 7008 - EMS ID: E207409						

Table 9 - WD-Others

Others

Sample ID							
BV Labs Job ID / Sample ID							
Sample Collection Date							
Sample Collection Time							
Parameter	Criteria ¹	Units	RDL	WDCOMP-11MAR21-P C116941 / ZM3622 2021-03-11	WDCOMP-12MAR21-P C116941 / ZM3623 2021-03-12	WDCOMP-13MAR21-P C116941 / ZM3624 2021-03-13	WDCOMP-14MAR21-P C116941 / ZM3625 2021-03-14
Others							
Alkalinity (PP as CaCO3)		mg/L	1.0	-	-	-	-
Alkalinity (Total as CaCO3)		mg/L	1.0	-	-	-	-
Bicarbonate (HCO3)		mg/L	1.0	-	-	-	-
Carbonate (CO3)		mg/L	1.0	-	-	-	-
Hydroxide (OH)		mg/L	1.0	-	-	-	-
Dissolved Sulphate (SO4)		mg/L	5.0 - 10	-	-	-	-
Total Suspended Solids	25	mg/L	1.0	39	24	16	16
Filter and HNO3 Preservation		N/A		-	-	-	-
Conductivity		uS/cm	2.0	-	-	-	-
pH		pH		-	-	-	-
LC50		% vol/vol		-	-	-	-

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 9 - WD-Others

Others

Sample ID							
BV Labs Job ID / Sample ID							
Sample Collection Date							
Sample Collection Time							
Parameter	Criteria ¹	Units	RDL	WD-15MAR21-P C116949 / ZM3645 2021-03-15	WD-15MAR21-P C116938 / ZM3611 2021-03-15 04:00 PM	WDCOMP-18MAR21-P C119472 / ZN5781 2021-03-19	WDCOMP-19MAR21-P C119472 / ZN5782 2021-03-19
Others							
Alkalinity (PP as CaCO3)		mg/L	1.0	<1.0	-	-	-
Alkalinity (Total as CaCO3)		mg/L	1.0	370	-	-	-
Bicarbonate (HCO3)		mg/L	1.0	450	-	-	-
Carbonate (CO3)		mg/L	1.0	<1.0	-	-	-
Hydroxide (OH)		mg/L	1.0	<1.0	-	-	-
Dissolved Sulphate (SO4)		mg/L	5.0 - 10	1000	-	-	-
Total Suspended Solids	25	mg/L	1.0	4.4	-	19	35
Filter and HNO3 Preservation		N/A		FIELD	-	-	-
Conductivity		uS/cm	2.0	-	-	-	-
pH		pH		-	-	-	-
LC50		% vol/vol		-	100 % Survival	-	-
Legend							
To Be Announced	TBA						
Exceeds one Criteria	Result						
Exceeds two Criteria	Result						
DL > Criteria	Result						
Criteria 1	Permit 7008 - EMS ID: E207409						

Table 9 - WD-Others

Others

Sample ID							
BV Labs Job ID / Sample ID							
Sample Collection Date							
Sample Collection Time							
Parameter	Criteria ¹	Units	RDL	WDCOMP-20MAR21-P C119472 / ZN5783 2021-03-20	WDCOMP-21MAR21-P C119472 / ZN5784 2021-03-21	WD-22MAR21-P C118890 / ZN3527 2021-03-22	WDCOMP-22MAR21-P C119472 / ZN5785 2021-03-22
Others							
Alkalinity (PP as CaCO3)		mg/L	1.0	-	-	<1.0	-
Alkalinity (Total as CaCO3)		mg/L	1.0	-	-	390	-
Bicarbonate (HCO3)		mg/L	1.0	-	-	470	-
Carbonate (CO3)		mg/L	1.0	-	-	<1.0	-
Hydroxide (OH)		mg/L	1.0	-	-	<1.0	-
Dissolved Sulphate (SO4)		mg/L	5.0 - 10	-	-	1300	-
Total Suspended Solids	25	mg/L	1.0	3.6	4.8	35	9.6
Filter and HNO3 Preservation		N/A		-	-	FIELD	-
Conductivity		uS/cm	2.0	-	-	2800	-
pH		pH		-	-	7.9	-
LC50		% vol/vol		-	-	-	-
Legend							
To Be Announced	TBA						
Exceeds one Criteria	Result						
Exceeds two Criteria	Result						
DL > Criteria	Result						
Criteria 1	Permit 7008 - EMS ID: E207409						

Table 9 - WD-Others

Others

Sample ID							
BV Labs Job ID / Sample ID							
Sample Collection Date							
Sample Collection Time							
Parameter	Criteria ¹	Units	RDL	WDCOMP-23MAR21-P C119472 / ZN5786 2021-03-23	WD-25MAR21-P C119472 / ZN5787 2021-03-25	WD-25MAR21-P Lab-Dup C119472 / ZN5787 2021-03-25	WDCOMP-27MAR21-P C121334 / ZO5373 2021-03-27
Others							
Alkalinity (PP as CaCO3)		mg/L	1.0	-	<1.0	-	-
Alkalinity (Total as CaCO3)		mg/L	1.0	-	420	-	-
Bicarbonate (HCO3)		mg/L	1.0	-	580	-	-
Carbonate (CO3)		mg/L	1.0	-	<1.0	-	-
Hydroxide (OH)		mg/L	1.0	-	<1.0	-	-
Dissolved Sulphate (SO4)		mg/L	5.0 - 10	-	630	620	-
Total Suspended Solids	25	mg/L	1.0	<1.0	2.8	2.4	1.2
Filter and HNO3 Preservation		N/A		-	FIELD	-	-
Conductivity		uS/cm	2.0	-	1900	-	-
pH		pH		-	8.02	-	-
LC50		% vol/vol		-	-	-	-
Legend							
To Be Announced	TBA						
Exceeds one Criteria	Result						
Exceeds two Criteria	Result						
DL > Criteria	Result						
Criteria 1	Permit 7008 - EMS ID: E207409						

Table 9 - WD-Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Criteria ¹	Units	RDL	WDCOMP-28MAR21-P C121334 / ZO5374 2021-03-28	WDCOMP-29MAR21-P C121334 / ZO5375 2021-03-29	WDCOMP-30MAR21-P C121334 / ZO5376 2021-03-30
Others						
Alkalinity (PP as CaCO ₃)		mg/L	1.0	-	-	-
Alkalinity (Total as CaCO ₃)		mg/L	1.0	-	-	-
Bicarbonate (HCO ₃)		mg/L	1.0	-	-	-
Carbonate (CO ₃)		mg/L	1.0	-	-	-
Hydroxide (OH)		mg/L	1.0	-	-	-
Dissolved Sulphate (SO ₄)		mg/L	5.0 - 10	-	-	-
Total Suspended Solids	25	mg/L	1.0	<1.0	1.2	<1.0
Filter and HNO ₃ Preservation		N/A		-	-	-
Conductivity		uS/cm	2.0	-	-	-
pH		pH		-	-	-
LC50		% vol/vol		-	-	-

Legend

To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 10 - WD-Max Values

Maximum Values Summary Table

Sample ID	Project	Site	BV Labs Sample ID	BV Labs Job ID	Parameter	Matrix	Criteria ¹	Result	Units
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Dissolved Hardness (CaCO3)	Water		646	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Aluminum (Al)	Water	0.5	0.0225	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Antimony (Sb)	Water		<0.0010	mg/L
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Dissolved Barium (Ba)	Water		0.0167	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Beryllium (Be)	Water		<0.00020	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Bismuth (Bi)	Water		<0.0020	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Boron (B)	Water		1.12	mg/L
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Dissolved Cadmium (Cd)	Water		0.000046	mg/L
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Dissolved Calcium (Ca)	Water		218	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Chromium (Cr)	Water		<0.0020	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Cobalt (Co)	Water		0.11	mg/L
WD-15MAR21-P	SP4 INVESTIGATION MARCH 15		ZN3645	C116949	Dissolved Copper (Cu)	Water	0.02	0.00146	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Iron (Fe)	Water	0.3	9.82	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Lead (Pb)	Water	0.05	<0.00040	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Lithium (Li)	Water		0.0202	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Magnesium (Mg)	Water		30.8	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Manganese (Mn)	Water		2.39	mg/L
WD-25MAR21-P Lab-Dup	INVESTIGATION SP4		ZN5787	C119472	Dissolved Mercury (Hg)	Water		<0.000019	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Molybdenum (Mo)	Water		<0.0020	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Nickel (Ni)	Water		0.149	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Potassium (K)	Water		3.99	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Selenium (Se)	Water		<0.00020	mg/L
WD-1FEB21-P Lab-Dup	SURFACE	FEB	ZG3152	C106913	Dissolved Silicon (Si)	Water		3.39	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Silver (Ag)	Water		<0.000040	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Sodium (Na)	Water		402	mg/L
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Dissolved Strontium (Sr)	Water		2.01	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Sulphur (S)	Water		407	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Thallium (Tl)	Water		<0.000020	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Tin (Sn)	Water		<0.010	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Titanium (Ti)	Water		<0.010	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Uranium (U)	Water		<0.00020	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Vanadium (V)	Water		<0.010	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Zinc (Zn)	Water	0.1	0.028	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Zirconium (Zr)	Water		<0.00020	mg/L
WD-4MAR21-P	INVESTIGATION SP4		ZL1967	C114768	Total Hardness (CaCO3)	Water		659	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Aluminum (Al)	Water		0.0405	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Antimony (Sb)	Water		<0.0010	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Arsenic (As)	Water		0.00145	mg/L
WD-4MAR21-P	INVESTIGATION SP4		ZL1967	C114768	Total Barium (Ba)	Water		0.0185	mg/L
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Total Beryllium (Be)	Water		0.00034	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Bismuth (Bi)	Water		<0.0020	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Boron (B)	Water		1.09	mg/L
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Total Cadmium (Cd)	Water		0.00007	mg/L
WD-4MAR21-P	INVESTIGATION SP4		ZL1967	C114768	Total Calcium (Ca)	Water		220	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Chromium (Cr)	Water		<0.0020	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Cobalt (Co)	Water		0.116	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Copper (Cu)	Water		0.0036	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Iron (Fe)	Water		14.6	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Lead (Pb)	Water		<0.00040	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Lithium (Li)	Water		0.0196	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Magnesium (Mg)	Water		31.8	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Manganese (Mn)	Water		2.4	mg/L
WD-25MAR21-P Lab-Dup	INVESTIGATION SP4		ZN5787	C119472	Total Mercury (Hg)	Water		<0.000019	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Molybdenum (Mo)	Water		<0.0020	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Nickel (Ni)	Water		0.149	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Potassium (K)	Water		4.26	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Selenium (Se)	Water		<0.00020	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Silicon (Si)	Water		3.61	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Silver (Ag)	Water		<0.000040	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Sodium (Na)	Water		427	mg/L
WD-9MAR21-P Lab-Dup	INVESTIGATION SP4		ZL5595	C115472	Total Strontium (Sr)	Water		2.12	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Sulphur (S)	Water		423	mg/L
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Total Thallium (Tl)	Water		0.000021	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Tin (Sn)	Water		<0.010	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Titanium (Ti)	Water		<0.010	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Uranium (U)	Water		<0.00020	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Vanadium (V)	Water		<0.010	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Total Zinc (Zn)	Water		0.032	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Zirconium (Zr)	Water		<0.00020	mg/L
WD-25MAR21-P Lab-Dup	INVESTIGATION SP4		ZN5787	C119472	Acidity (pH 4.5)	Water		<1.0	mg/L
WD-9MAR21-P	INVESTIGATION SP4		ZL5595	C115472	Acidity (pH 8.3)	Water		18.8	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Oil and grease	Water	10	<1.0	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Alkalinity (PP as CaCO3)	Water		<1.0	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Alkalinity (Total as CaCO3)	Water		420	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Bicarbonate (HCO3)	Water		580	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Carbonate (CO3)	Water		<1.0	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Hydroxide (OH)	Water		<1.0	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Dissolved Sulphate (SO4)	Water		1300	mg/L
WDCOMP-10MAR21-P	WDCOMPS	MARCH 10-14	ZN3621	C116941	Total Suspended Solids	Water	25	65	mg/L
WD-22MAR21-P	INVESTIGATION SP4		ZN3527	C118890	Conductivity	Water		2800	uS/cm
WD-11JAN21-P	WEEKLY	11-Jan-21	ZD7252	C102299	pH	Water		8.34	pH

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 11 - WD-Min Values

Minimum Values Summary Table

Sample ID	Project	Site	BV Labs Sample ID	BV Labs Job ID	Parameter	Matrix	Criteria ¹	Result	Units
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Hardness (CaCO3)	Water		369	mg/L
WD-4MAR21-P	INVESTIGATION SP4		ZL1967	C114768	Dissolved Aluminum (Al)	Water	0.5	<0.0030	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Antimony (Sb)	Water		<0.00050	mg/L
WD-4JAN20-P Lab-Dup	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Barium (Ba)	Water		0.0098	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Beryllium (Be)	Water		<0.00010	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Bismuth (Bi)	Water		<0.0010	mg/L
WD-4JAN21-R	SURFACE	MONTHLY-JAN	ZC9624	C100809	Dissolved Boron (B)	Water		0.331	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Cadmium (Cd)	Water		<0.000010	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Dissolved Calcium (Ca)	Water		122	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Chromium (Cr)	Water		<0.0010	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Dissolved Cobalt (Co)	Water		0.00071	mg/L
WD-1MAR21-P	MARCH MONTHLY		ZK4947	C113684	Dissolved Copper (Cu)	Water	0.02	<0.00020	mg/L
WD-1MAR21-P	MARCH MONTHLY		ZK4947	C113684	Dissolved Iron (Fe)	Water		0.008	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Lead (Pb)	Water	0.05	<0.00020	mg/L
WD-4JAN21-R	SURFACE	MONTHLY-JAN	ZC9624	C100809	Dissolved Lithium (Li)	Water		0.0053	mg/L
WD-4JAN21-R	SURFACE	MONTHLY-JAN	ZC9624	C100809	Dissolved Magnesium (Mg)	Water		14.2	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Manganese (Mn)	Water		0.0993	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Mercury (Hg)	Water		<0.0000019	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Molybdenum (Mo)	Water		<0.0010	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Dissolved Nickel (Ni)	Water		0.0023	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Potassium (K)	Water		1.74	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Selenium (Se)	Water		<0.00010	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Silicon (Si)	Water		2.8	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Silver (Ag)	Water		<0.000020	mg/L
WD-4JAN21-R	SURFACE	MONTHLY-JAN	ZC9624	C100809	Dissolved Sodium (Na)	Water		88.3	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Strontium (Sr)	Water		0.856	mg/L
WD-4JAN21-R	SURFACE	MONTHLY-JAN	ZC9624	C100809	Dissolved Sulphur (S)	Water		143	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Thallium (Tl)	Water		<0.000010	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Tin (Sn)	Water		<0.0050	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Titanium (Ti)	Water		<0.0050	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Uranium (U)	Water		<0.00010	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Vanadium (V)	Water		<0.0050	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Zinc (Zn)	Water	0.1	<0.0050	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Dissolved Zirconium (Zr)	Water		<0.00010	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Hardness (CaCO3)	Water		404	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Aluminum (Al)	Water		0.007	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Antimony (Sb)	Water		<0.00050	mg/L
WD-1FEB21-P Lab-Dup	SURFACE	FEB	ZG3152	C106913	Total Arsenic (As)	Water		0.0002	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Barium (Ba)	Water		0.0108	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Beryllium (Be)	Water		<0.00010	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Bismuth (Bi)	Water		<0.0010	mg/L
WD-1FEB21-P Lab-Dup	SURFACE	FEB	ZG3152	C106913	Total Boron (B)	Water		0.396	mg/L
WD-1MAR21-P	MARCH MONTHLY		ZK4947	C113684	Total Cadmium (Cd)	Water		0.000017	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Calcium (Ca)	Water		131	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Chromium (Cr)	Water		<0.0010	mg/L
WD-1FEB21-P Lab-Dup	SURFACE	FEB	ZG3152	C106913	Total Cobalt (Co)	Water		0.0013	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Copper (Cu)	Water		0.00084	mg/L
WDCOMP-4MAR21-P	INVESTIGATION SP4		ZL1971	C114768	Total Iron (Fe)	Water		<0.020	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Lead (Pb)	Water		<0.00020	mg/L
WD-1FEB21-P Lab-Dup	SURFACE	FEB	ZG3152	C106913	Total Lithium (Li)	Water		0.0063	mg/L
WD-25MAR21-P	INVESTIGATION SP4		ZN5787	C119472	Total Magnesium (Mg)	Water		17.5	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Manganese (Mn)	Water		0.116	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Mercury (Hg)	Water		<0.0000019	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Molybdenum (Mo)	Water		<0.0010	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Nickel (Ni)	Water		0.0031	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Potassium (K)	Water		2.02	mg/L
WD-18FEB21-P	WEEKLY		ZI7705	C110965	Total Selenium (Se)	Water		<0.00010	mg/L
WD-1FEB21-P Lab-Dup	SURFACE	FEB	ZG3152	C106913	Total Silicon (Si)	Water		2.25	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Silver (Ag)	Water		<0.000020	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Sodium (Na)	Water		147	mg/L
WD-1FEB21-P Lab-Dup	SURFACE	FEB	ZG3152	C106913	Total Strontium (Sr)	Water		0.947	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Sulphur (S)	Water		170	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Thallium (Tl)	Water		<0.000010	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Tin (Sn)	Water		<0.0050	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Titanium (Ti)	Water		<0.0050	mg/L
WD-18FEB21-P	WEEKLY		ZI7705	C110965	Total Uranium (U)	Water		<0.00010	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Vanadium (V)	Water		<0.0050	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Zinc (Zn)	Water		<0.0050	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Zirconium (Zr)	Water		<0.00010	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Acidity (pH 4.5)	Water		<1.0	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Acidity (pH 8.3)	Water		<1.0	mg/L
WD-1FEB21-P	SURFACE	FEB	ZG3152	C106913	Total Oil and grease	Water	10	<1.0	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Alkalinity (PP as CaCO3)	Water		<1.0	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Alkalinity (Total as CaCO3)	Water		140	mg/L
WD-4JAN21-R	SURFACE	MONTHLY-JAN	ZC9624	C100809	Bicarbonate (HCO3)	Water		170	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Carbonate (CO3)	Water		<1.0	mg/L
WD-4JAN20-P	SURFACE	MONTHLY-JAN	ZC9623	C100809	Hydroxide (OH)	Water		<1.0	mg/L
WD-4JAN21-R	SURFACE	MONTHLY-JAN	ZC9624	C100809	Dissolved Sulphate (SO4)	Water		410	mg/L
WDCOMP-23MAR21-P	INVESTIGATION SP4		ZN5786	C119472	Total Suspended Solids	Water	25	<1.0	mg/L
WD-11JAN21-P	WEEKLY	11-Jan-21	ZD7252	C102299	Conductivity	Water		1600	uS/cm
WD-9MAR21-P	INVESTIGATION SP4		ZL5595	C115472	pH	Water		7.23	pH

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit 7008 - EMS ID: E207409

Table 12 - WD-Date Summary

Summary of Analysis Dates

Sample ID	Project	Site	BV Labs Sample ID	BV Labs Job ID	Date Sampled	Date Range: Extracted	Date Range: Analyzed
WD-4JAN20-P	SURFACE	Settling Pond #4	ZC9623	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
WD-4JAN21-R	SURFACE	Settling Pond #4	ZC9624	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
WD-11JAN21-P	WEEKLY	Settling Pond #4	ZD7252	C102299	2021/01/11	2021/01/18 - 2021/01/18	2021/01/19 - 2021/01/19
WD-25JAN21-P	SURFACE	Settling Pond #4	ZF1927	C105128	2021/01/25	2021/01/29 - 2021/01/29	2021/01/27 - 2021/02/01
WD-1FEB21-P	SURFACE	Settling Pond #4	ZG3152	C106913	2021/02/01	2021/02/04 - 2021/02/09	2021/02/03 - 2021/02/09
WD-8FEB21-P	SURFACE	Settling Pond #4	ZH5518	C108734	2021/02/08	2021/02/16 - 2021/02/16	2021/02/14 - 2021/02/17
WD-16FEB21-P	WEEKLY-SURFACE	Settling Pond #4	ZI2244	C110173	2021/02/16	2021/02/18 - 2021/02/18	2021/02/19 - 2021/02/19
WD-18FEB21-P	WEEKLY	Settling Pond #4	ZI7705	C110965	2021/02/18	2021/02/23 - 2021/02/24	2021/02/22 - 2021/02/24
WD-22FEB21-P	SURFACE	Settling Pond #4	ZJ4097	C111961	2021/02/22	2021/02/26 - 2021/02/26	2021/02/28 - 2021/03/01
WD-1MAR21-P	MARCH MONTHLY	Settling Pond #4	ZK4947	C113684	2021/03/01	2021/03/03 - 2021/03/04	2021/03/03 - 2021/03/08
WD-4MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZL1967	C114768	2021/03/04	2021/03/10 - 2021/03/11	2021/03/09 - 2021/03/11
WDCOMP-4MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZL1971	C114768	2021/03/04	2021/03/10 - 2021/03/11	2021/03/09 - 2021/03/12
WD-9MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZL5595	C115472	2021/03/09	2021/03/11 - 2021/03/12	2021/03/10 - 2021/03/12
WDCOMP-10MAR21-P	WDCOMPS	Settling Pond #4	ZM3621	C116941	2021/03/10	2021/03/17 - 2021/03/17	2021/03/18 - 2021/03/18
WDCOMP-11MAR21-P	WDCOMPS	Settling Pond #4	ZM3622	C116941	2021/03/11	2021/03/17 - 2021/03/17	2021/03/18 - 2021/03/18
WDCOMP-12MAR21-P	WDCOMPS	Settling Pond #4	ZM3623	C116941	2021/03/12	2021/03/17 - 2021/03/17	2021/03/18 - 2021/03/18
WDCOMP-13MAR21-P	WDCOMPS	Settling Pond #4	ZM3624	C116941	2021/03/13	2021/03/17 - 2021/03/17	2021/03/18 - 2021/03/18
WDCOMP-14MAR21-P	WDCOMPS	Settling Pond #4	ZM3625	C116941	2021/03/14	2021/03/17 - 2021/03/17	2021/03/18 - 2021/03/18
WD-15MAR21-P	SP4 INVESTIGATION MARCH 15	Settling Pond #4	ZM3645	C116949	2021/03/15	2021/03/16 - 2021/03/19	2021/03/16 - 2021/03/22
WD-15MAR21-P	SP4 RAINBOW TROUT	Settling Pond #4	ZM3611	C116938	2021/03/15	2021/03/17 - 2021/03/17	2021/03/17 - 2021/03/17
WDCOMP-18MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZN5781	C119472	2021/03/19	2021/03/26 - 2021/03/26	2021/03/27 - 2021/03/27
WDCOMP-19MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZN5782	C119472	2021/03/19	2021/03/26 - 2021/03/26	2021/03/27 - 2021/03/27
WDCOMP-20MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZN5783	C119472	2021/03/20	2021/03/26 - 2021/03/26	2021/03/27 - 2021/03/27
WDCOMP-21MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZN5784	C119472	2021/03/21	2021/03/26 - 2021/03/26	2021/03/27 - 2021/03/27
WD-22MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZN3527	C118890	2021/03/22	2021/03/25 - 2021/03/26	2021/03/24 - 2021/03/26
WDCOMP-22MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZN5785	C119472	2021/03/22	2021/03/26 - 2021/03/26	2021/03/27 - 2021/03/27
WDCOMP-23MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZN5786	C119472	2021/03/23	2021/03/26 - 2021/03/26	2021/03/27 - 2021/03/27
WD-25MAR21-P	INVESTIGATION SP4	Settling Pond #4	ZN5787	C119472	2021/03/25	2021/03/26 - 2021/03/26	2021/03/26 - 2021/03/27
WDCOMP-27MAR21-P	SURFACE	Settling Pond #4	ZO5373	C121334	2021/03/27	2021/04/06 - 2021/04/06	2021/04/07 - 2021/04/07
WDCOMP-28MAR21-P	SURFACE	Settling Pond #4	ZO5374	C121334	2021/03/28	2021/04/06 - 2021/04/06	2021/04/07 - 2021/04/07
WDCOMP-29MAR21-P	SURFACE	Settling Pond #4	ZO5375	C121334	2021/03/29	2021/04/05 - 2021/04/05	2021/04/06 - 2021/04/06
WDCOMP-30MAR21-P	SURFACE	Settling Pond #4	ZO5376	C121334	2021/03/30	2021/04/05 - 2021/04/05	2021/04/06 - 2021/04/06

Table 13 - Settling Pond 1 (SPD) - Summary

SUMMARY TABLE

EMS ID: E218582

SETTLING POND #1 (SPD / SP1)

Samples									
<i>Sample ID</i>	<i>Sample Collection Date</i>	<i>BV Labs Job ID</i>	<i>BV Labs Sample ID</i>	Water	PAHs - Water	Diss Metals - Water	Tot Metals - Water	Inorganic - Water	Others
SPD-4JAN21-M	2021-01-04 12:00 AM	C100809	ZC9630			x		x	x
SPD-4JAN21-M Lab-Dup	2021-01-04 12:00 AM	C100809	ZC9630						x
SPD-11JAN21-P	2021-01-11 12:00 AM	C102299	ZD7253						x
SPD-11JAN21-P Lab-Dup	2021-01-11 12:00 AM	C102299	ZD7253						x
SPD-18JAN21-P	2021-01-18 12:00 AM	C103883	ZE4652						x
SPD-25JAN21-P	2021-01-25 12:00 AM	C105128	ZF1928						x
SPD-1FEB21-P	2021-02-01 12:00 AM	C106913	ZG3159			x	x	x	x
SPD-1FEB21-P Lab-Dup	2021-02-01 12:00 AM	C106913	ZG3159			x			
SPD-8FEB21-P	2021-02-08 12:00 AM	C108734	ZH5519						x
SPD-16FEB21-P	2021-02-16 12:00 AM	C110173	ZI2245						x
SPD-22FEB21-P	2021-02-22 12:00 AM	C111961	ZJ4098						x
SPD-1MAR21-P	2021-03-01 12:00 AM	C113684	ZK4953			x		x	x
SPD-9MAR21-P	2021-03-09 12:00 AM	C115474	ZL5609						x
SPD-16MAR21-P	2021-03-16 12:00 AM	C117545	ZM6219						x
SPD-22MAR21-P	2021-03-22 12:00 AM	C118894	ZN3534						x
SPD-22MAR21-P Lab-Dup	2021-03-22 12:00 AM	C118894	ZN3534						x

Table 14 - SPD-Diss Metals - Water

Dissolved Metals - Water

Parameter	Criteria ¹	Units	RDL	Sample ID			
				BV Labs Job ID / Sample ID			
				Sample Collection Date			
				Sample Collection Time			
				SPD-4JAN21-M C100809 / ZC9630 2021-01-04	SPD-1FEB21-P C106913 / ZG3159 2021-02-01	SPD-1FEB21-P Lab-Dup C106913 / ZG3159 2021-02-01	SPD-1MAR21-P C113684 / ZK4953 2021-03-01
Dissolved Hardness (CaCO ₃)		mg/L	0.50	151	182	-	171
Dissolved Aluminum (Al)	0.5	mg/L	0.0030	0.0496	0.0193	-	0.0167
Dissolved Antimony (Sb)		mg/L	0.00050	<0.00050	<0.00050	-	<0.00050
Dissolved Arsenic (As)		mg/L	0.00010	0.00029	0.00062	-	0.00072
Dissolved Barium (Ba)		mg/L	0.0010	0.0051	0.0077	-	0.0081
Dissolved Beryllium (Be)		mg/L	0.00010	<0.00010	<0.00010	-	<0.00010
Dissolved Bismuth (Bi)		mg/L	0.0010	<0.0010	<0.0010	-	<0.0010
Dissolved Boron (B)		mg/L	0.050	0.08	0.102	-	0.094
Dissolved Cadmium (Cd)		mg/L	0.000010	<0.000010	<0.000010	-	<0.000010
Dissolved Calcium (Ca)		mg/L	0.050	50.2	59.7	-	56
Dissolved Chromium (Cr)		mg/L	0.0010	<0.0010	<0.0010	-	<0.0010
Dissolved Cobalt (Co)		mg/L	0.00020	<0.00020	<0.00020	-	0.00023
Dissolved Copper (Cu)	0.02	mg/L	0.00020	0.00039	0.00025	-	0.00093
Dissolved Iron (Fe)	0.5	mg/L	0.0050	0.127	0.147	-	0.194
Dissolved Lead (Pb)	0.05	mg/L	0.00020	<0.00020	<0.00020	-	<0.00020
Dissolved Lithium (Li)		mg/L	0.0020	0.0022	0.0037	-	0.0028
Dissolved Magnesium (Mg)		mg/L	0.050	6.3	8.07	-	7.63
Dissolved Manganese (Mn)		mg/L	0.0010	0.0238	0.0594	-	0.0667
Dissolved Mercury (Hg)		mg/L	0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Dissolved Molybdenum (Mo)		mg/L	0.0010	<0.0010	<0.0010	-	<0.0010
Dissolved Nickel (Ni)		mg/L	0.0010	<0.0010	<0.0010	-	<0.0010
Dissolved Potassium (K)		mg/L	0.050	0.525	0.65	-	0.612
Dissolved Selenium (Se)		mg/L	0.00010	<0.00010	<0.00010	-	<0.00010
Dissolved Silicon (Si)		mg/L	0.10	2.95	3.37	-	2.84
Dissolved Silver (Ag)		mg/L	0.000020	<0.000020	<0.000020	-	<0.000020
Dissolved Sodium (Na)		mg/L	0.050	10.8	14.1	-	12.8
Dissolved Strontium (Sr)		mg/L	0.0010	0.291	0.371	-	0.358
Dissolved Sulphur (S)		mg/L	3.0	44.1	52.5	-	48.9
Dissolved Thallium (Tl)		mg/L	0.000010	<0.000010	<0.000010	-	<0.000010
Dissolved Tin (Sn)		mg/L	0.0050	<0.0050	<0.0050	-	<0.0050
Dissolved Titanium (Ti)		mg/L	0.0050	<0.0050	<0.0050	-	<0.0050
Dissolved Uranium (U)		mg/L	0.00010	<0.00010	<0.00010	-	<0.00010
Dissolved Vanadium (V)		mg/L	0.0050	<0.0050	<0.0050	-	<0.0050
Dissolved Zinc (Zn)	0.2	mg/L	0.0050	<0.0050	<0.0050	-	<0.0050
Dissolved Zirconium (Zr)		mg/L	0.00010	<0.00010	<0.00010	-	<0.00010
Legend							
To Be Announced	TBA						
Exceeds one Criteria	Result						
Exceeds two Criteria	Result						
DL > Criteria	Result						
Criteria 1	Permit: 7008 EMS ID: E218582						

Table 15 - SPD-Tot Metals - Water

Total Metals - Water

Parameter	Criteria ¹	Units	RDL	Sample ID
				BV Labs Job ID / Sample ID
				Sample Collection Date
				Sample Collection Time
				SPD-1FEB21-P C106913 / ZG3159 2021-02-01
Total Hardness (CaCO ₃)		mg/L	0.50	184
Total Aluminum (Al)		mg/L	0.0030	0.0274
Total Antimony (Sb)		mg/L	0.00050	<0.00050
Total Arsenic (As)		mg/L	0.00010	0.00074
Total Barium (Ba)		mg/L	0.0010	0.0072
Total Beryllium (Be)		mg/L	0.00010	<0.00010
Total Bismuth (Bi)		mg/L	0.0010	<0.0010
Total Boron (B)		mg/L	0.050	0.095
Total Cadmium (Cd)		mg/L	0.000010	<0.000010
Total Calcium (Ca)		mg/L	0.050	60.4
Total Chromium (Cr)		mg/L	0.0010	<0.0010
Total Cobalt (Co)		mg/L	0.00020	<0.00020
Total Copper (Cu)		mg/L	0.00050	<0.00050
Total Iron (Fe)		mg/L	0.010	0.269
Total Lead (Pb)		mg/L	0.00020	<0.00020
Total Lithium (Li)		mg/L	0.0020	0.0034
Total Magnesium (Mg)		mg/L	0.050	8.13
Total Manganese (Mn)		mg/L	0.0010	0.0546
Total Mercury (Hg)		mg/L	0.0000019	<0.0000019
Total Molybdenum (Mo)		mg/L	0.0010	<0.0010
Total Nickel (Ni)		mg/L	0.0010	<0.0010
Total Potassium (K)		mg/L	0.050	0.677
Total Selenium (Se)		mg/L	0.00010	<0.00010
Total Silicon (Si)		mg/L	0.10	3.21
Total Silver (Ag)		mg/L	0.000020	<0.000020
Total Sodium (Na)		mg/L	0.050	14.9
Total Strontium (Sr)		mg/L	0.0010	0.367
Total Sulphur (S)		mg/L	3.0	53.5
Total Thallium (Tl)		mg/L	0.000010	<0.000010
Total Tin (Sn)		mg/L	0.0050	<0.0050
Total Titanium (Ti)		mg/L	0.0050	<0.0050
Total Uranium (U)		mg/L	0.00010	<0.00010
Total Vanadium (V)		mg/L	0.0050	<0.0050
Total Zinc (Zn)		mg/L	0.0050	<0.0050
Total Zirconium (Zr)		mg/L	0.00010	<0.00010

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit: 7008 EMS ID: E218582

Table 16 - SPD-Inorganic - Water

Inorganic - Water						
Parameter	Criteria ¹	Units	RDL	Sample ID		
				BV Labs Job ID / Sample ID		
				Sample Collection Date		
				Sample Collection Time		
				SPD-4JAN21-M C100809 / ZC9630 2021-01-04	SPD-1FEB21-P C106913 / ZG3159 2021-02-01	SPD-1MAR21-P C113684 / ZK4953 2021-03-01
Alkalinity (PP as CaCO3)		mg/L		-	-	-
Alkalinity (Total as CaCO3)		mg/L		-	-	-
Bicarbonate (HCO3)		mg/L		-	-	-
Carbonate (CO3)		mg/L		-	-	-
Hydroxide (OH)		mg/L		-	-	-
Acidity (pH 4.5)		mg/L	1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)		mg/L	1.0	1.7	<1.0	5.2
Bromide (Br)		mg/L		-	-	-
Dissolved Chloride (Cl)		mg/L		-	-	-
Fluoride (F)		mg/L		-	-	-
Dissolved Sulphate (SO4)		mg/L		-	-	-
Biochemical Oxygen Demand		mg/L		-	-	-
Total Ammonia (N)		mg/L		-	-	-
Dissolved Nitrogen (N)		mg/L		-	-	-
Nitrate plus Nitrite (N)		mg/L		-	-	-
Dissolved Organic Carbon (C)		mg/L		-	-	-
Total Organic Carbon (C)		mg/L		-	-	-
Total Oil and grease	10	mg/L	1.0	-	<1.0	-
Total Sulphide		mg/L		-	-	-
Sulphide (as H2S)		mg/L		-	-	-
Total Sulphide (as H2S)		mg/L		-	-	-
Dissolved Phosphorus (P)		mg/L		-	-	-
Total Phosphorus (P)		mg/L		-	-	-
Turbidity		NTU		-	-	-
Total Suspended Solids		mg/L		-	-	-
Legend						
To Be Announced	TBA					
Exceeds one Criteria	Result					
Exceeds two Criteria	Result					
DL > Criteria	Result					
Criteria 1	Permit: 7008 EMS ID: E218582					

Table 17 - SPD-Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Criteria ¹	Units	RDL	SPD-4JAN21-M	SPD-4JAN21-M Lab-Dup	SPD-11JAN21-P
				C100809 / ZC9630	C100809 / ZC9630	C102299 / ZD7253
				2021-01-04	2021-01-04	2021-01-11
Others						
Alkalinity (PP as CaCO ₃)		mg/L	1.0	<1.0	<1.0	-
Alkalinity (Total as CaCO ₃)		mg/L	1.0	44	46	-
Bicarbonate (HCO ₃)		mg/L	1.0	54	56	-
Carbonate (CO ₃)		mg/L	1.0	<1.0	<1.0	-
Hydroxide (OH)		mg/L	1.0	<1.0	<1.0	-
Dissolved Sulphate (SO ₄)		mg/L	1.0 - 10	140	-	270
Total Suspended Solids		mg/L	1.0	1.2	-	<1.0
Filter and HNO ₃ Preservation		N/A		FIELD	-	-
Conductivity		uS/cm	2.0	-	-	730
pH		pH		-	-	7.93

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Criteria 1

Permit: 7008 EMS ID: E218582

Table 17 - SPD-Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Criteria ¹	Units	SPD-11JAN21-P Lab-Dup	SPD-18JAN21-P	SPD-25JAN21-P
			C102299 / ZD7253	C103883 / ZE4652	C105128 / ZF1928
			2021-01-11	2021-01-18	2021-01-25
Others					
Alkalinity (PP as CaCO ₃)		mg/L	-	-	-
Alkalinity (Total as CaCO ₃)		mg/L	-	-	-
Bicarbonate (HCO ₃)		mg/L	-	-	-
Carbonate (CO ₃)		mg/L	-	-	-
Hydroxide (OH)		mg/L	-	-	-
Dissolved Sulphate (SO ₄)		mg/L	270	210	250
Total Suspended Solids		mg/L	-	2	<1.0
Filter and HNO ₃ Preservation		N/A	-	-	-
Conductivity		uS/cm	-	590	770
pH		pH	-	7.62	8.02

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Criteria 1

Permit: 7008 EMS ID: E218582

Table 17 - SPD-Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Criteria ¹	Units	SPD-1FEB21-P	SPD-8FEB21-P	SPD-16FEB21-P
			C106913 / ZG3159	C108734 / ZH5519	C110173 / ZI2245
			2021-02-01	2021-02-08	2021-02-16
Others					
Alkalinity (PP as CaCO ₃)		mg/L	<1.0	-	-
Alkalinity (Total as CaCO ₃)		mg/L	99	-	-
Bicarbonate (HCO ₃)		mg/L	120	-	-
Carbonate (CO ₃)		mg/L	<1.0	-	-
Hydroxide (OH)		mg/L	<1.0	-	-
Dissolved Sulphate (SO ₄)		mg/L	150	75	270
Total Suspended Solids		mg/L	1.2	<1.0	<1.0
Filter and HNO ₃ Preservation		N/A	FIELD	-	-
Conductivity		uS/cm	-	230	700
pH		pH	-	7.71	7.66

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Criteria 1

Permit: 7008 EMS ID: E218582

Table 17 - SPD-Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Criteria ¹	Units	SPD-22FEB21-P	SPD-1MAR21-P	SPD-9MAR21-P
			C111961 / ZJ4098	C113684 / ZK4953	C115474 / ZL5609
			2021-02-22	2021-03-01	2021-03-09
Others					
Alkalinity (PP as CaCO ₃)		mg/L	-	<1.0	-
Alkalinity (Total as CaCO ₃)		mg/L	-	71	-
Bicarbonate (HCO ₃)		mg/L	-	86	-
Carbonate (CO ₃)		mg/L	-	<1.0	-
Hydroxide (OH)		mg/L	-	<1.0	-
Dissolved Sulphate (SO ₄)		mg/L	160	150	120
Total Suspended Solids		mg/L	<1.0	1.2	<1.0
Filter and HNO ₃ Preservation		N/A	-	FIELD	-
Conductivity		uS/cm	440	-	360
pH		pH	7.31	-	7.92

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	
Criteria 1	Permit: 7008 EMS ID: E218582	

Table 17 - SPD-Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Criteria ¹	Units	SPD-16MAR21-P	SPD-22MAR21-P	SPD-22MAR21-P Lab-Dup
			C117545 / ZM6219	C118894 / ZN3534	C118894 / ZN3534
			2021-03-16	2021-03-22	2021-03-22
Others					
Alkalinity (PP as CaCO ₃)		mg/L	-	-	-
Alkalinity (Total as CaCO ₃)		mg/L	-	-	-
Bicarbonate (HCO ₃)		mg/L	-	-	-
Carbonate (CO ₃)		mg/L	-	-	-
Hydroxide (OH)		mg/L	-	-	-
Dissolved Sulphate (SO ₄)		mg/L	260	320	320
Total Suspended Solids		mg/L	1.6	2	-
Filter and HNO ₃ Preservation		N/A	-	-	-
Conductivity		uS/cm	720	800	-
pH		pH	7.96	8.02	8.04

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Criteria 1

Permit: 7008 EMS ID: E218582

Table 18 - SPD-Max Values

Maximum Values Summary Table

Sample ID	Project	Site	BV Labs Sample ID	BV Labs Job ID	Parameter	Matrix	Criteria ¹	Result	Units
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Hardness (CaCO3)	Water		182	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Aluminum (Al)	Water	0.5	0.0496	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Antimony (Sb)	Water		<0.00050	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Barium (Ba)	Water		0.0081	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Beryllium (Be)	Water		<0.00010	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Bismuth (Bi)	Water		<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Boron (B)	Water		0.102	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Cadmium (Cd)	Water		<0.000010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Calcium (Ca)	Water		59.7	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Chromium (Cr)	Water		<0.0010	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Cobalt (Co)	Water		0.00023	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Copper (Cu)	Water	0.02	0.00093	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Iron (Fe)	Water	0.5	0.194	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Lead (Pb)	Water	0.05	<0.00020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Lithium (Li)	Water		0.0037	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Magnesium (Mg)	Water		8.07	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Manganese (Mn)	Water		0.0667	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Mercury (Hg)	Water		<0.0000019	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Molybdenum (Mo)	Water		<0.0010	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Nickel (Ni)	Water		<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Potassium (K)	Water		0.65	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Selenium (Se)	Water		<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Silicon (Si)	Water		3.37	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Silver (Ag)	Water		<0.000020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Sodium (Na)	Water		14.1	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Strontium (Sr)	Water		0.371	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Sulphur (S)	Water		52.5	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Thallium (Tl)	Water		<0.000010	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Tin (Sn)	Water		<0.0050	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Titanium (Ti)	Water		<0.0050	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Uranium (U)	Water		<0.00010	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Vanadium (V)	Water		<0.0050	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Zinc (Zn)	Water	0.2	<0.0050	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Zirconium (Zr)	Water		<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Hardness (CaCO3)	Water		184	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Aluminum (Al)	Water		0.0274	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Antimony (Sb)	Water		<0.00050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Arsenic (As)	Water		0.00074	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Barium (Ba)	Water		0.0072	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Beryllium (Be)	Water		<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Bismuth (Bi)	Water		<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Boron (B)	Water		0.095	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Cadmium (Cd)	Water		<0.000010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Calcium (Ca)	Water		60.4	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Chromium (Cr)	Water		<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Cobalt (Co)	Water		<0.00020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Copper (Cu)	Water		<0.00050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Iron (Fe)	Water		0.269	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Lead (Pb)	Water		<0.00020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Lithium (Li)	Water		0.0034	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Magnesium (Mg)	Water		8.13	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Manganese (Mn)	Water		0.0546	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Mercury (Hg)	Water		<0.0000019	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Molybdenum (Mo)	Water		<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Nickel (Ni)	Water		<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Potassium (K)	Water		0.677	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Selenium (Se)	Water		<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Silicon (Si)	Water		3.21	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Silver (Ag)	Water		<0.000020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Sodium (Na)	Water		14.9	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Strontium (Sr)	Water		0.367	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Sulphur (S)	Water		53.5	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Thallium (Tl)	Water		<0.000010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Tin (Sn)	Water		<0.0050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Titanium (Ti)	Water		<0.0050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Uranium (U)	Water		<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Vanadium (V)	Water		<0.0050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Zinc (Zn)	Water		<0.0050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Zirconium (Zr)	Water		<0.00010	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Acidity (pH 4.5)	Water		<1.0	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Acidity (pH 8.3)	Water		5.2	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Oil and grease	Water	10	<1.0	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Alkalinity (PP as CaCO3)	Water		<1.0	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Alkalinity (Total as CaCO3)	Water		99	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Bicarbonate (HCO3)	Water		120	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Carbonate (CO3)	Water		<1.0	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Hydroxide (OH)	Water		<1.0	mg/L
SPD-22MAR21-P	WEEKLY-SURFACE		ZN3534	C118894	Dissolved Sulphate (SO4)	Water		320	mg/L
SPD-18JAN21-P	SURFACE	WEEKLY	ZE4652	C103883	Total Suspended Solids	Water		2	mg/L
SPD-22MAR21-P	WEEKLY-SURFACE		ZN3534	C118894	Conductivity	Water		800	uS/cm
SPD-22MAR21-P Lab-Dup	WEEKLY-SURFACE		ZN3534	C118894	pH	Water		8.04	pH

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit: 7008 EMS ID: E218582

Table 19 - SPD-Min Values

Minimum Values Summary Table

Sample ID	Project	Site	BV Labs Sample ID	BV Labs Job ID	Parameter	Matrix	Criteria ¹	Criteria ²	Result	Units
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Hardness (CaCO3)	Water			151	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Aluminum (Al)	Water	0.5		0.0167	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Antimony (Sb)	Water			<0.00050	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Barium (Ba)	Water			0.0051	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Beryllium (Be)	Water			<0.00010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Bismuth (Bi)	Water			<0.0010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Boron (B)	Water			0.08	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Cadmium (Cd)	Water			<0.000010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Calcium (Ca)	Water			50.2	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Chromium (Cr)	Water			<0.0010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Cobalt (Co)	Water			<0.00020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Dissolved Copper (Cu)	Water	0.02		0.00025	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Iron (Fe)	Water	0.5		0.127	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Lead (Pb)	Water	0.05		<0.00020	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Lithium (Li)	Water			0.0022	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Magnesium (Mg)	Water			6.3	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Manganese (Mn)	Water			0.0238	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Mercury (Hg)	Water			<0.0000019	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Molybdenum (Mo)	Water			<0.0010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Nickel (Ni)	Water			<0.0010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Potassium (K)	Water			0.525	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Selenium (Se)	Water			<0.00010	mg/L
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	Dissolved Silicon (Si)	Water			2.84	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Silver (Ag)	Water			<0.000020	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Sodium (Na)	Water			10.8	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Strontium (Sr)	Water			0.291	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Sulphur (S)	Water			44.1	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Thallium (Tl)	Water			<0.000010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Tin (Sn)	Water			<0.0050	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Titanium (Ti)	Water			<0.0050	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Uranium (U)	Water			<0.00010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Vanadium (V)	Water			<0.0050	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Zinc (Zn)	Water	0.2		<0.0050	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Dissolved Zirconium (Zr)	Water			<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Hardness (CaCO3)	Water			184	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Aluminum (Al)	Water			0.0274	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Antimony (Sb)	Water			<0.00050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Arsenic (As)	Water			0.00074	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Barium (Ba)	Water			0.0072	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Beryllium (Be)	Water			<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Bismuth (Bi)	Water			<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Boron (B)	Water			0.095	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Cadmium (Cd)	Water			<0.000010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Calcium (Ca)	Water			60.4	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Chromium (Cr)	Water			<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Cobalt (Co)	Water			<0.00020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Copper (Cu)	Water			<0.00050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Iron (Fe)	Water			0.269	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Lead (Pb)	Water			<0.00020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Lithium (Li)	Water			0.0034	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Magnesium (Mg)	Water			8.13	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Manganese (Mn)	Water			0.0546	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Mercury (Hg)	Water			<0.0000019	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Molybdenum (Mo)	Water			<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Nickel (Ni)	Water			<0.0010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Potassium (K)	Water			0.677	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Selenium (Se)	Water			<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Silicon (Si)	Water			3.21	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Silver (Ag)	Water			<0.000020	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Sodium (Na)	Water			14.9	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Strontium (Sr)	Water			0.367	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Sulphur (S)	Water			53.5	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Thallium (Tl)	Water			<0.000010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Tin (Sn)	Water			<0.0050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Titanium (Ti)	Water			<0.0050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Uranium (U)	Water			<0.00010	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Vanadium (V)	Water			<0.0050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Zinc (Zn)	Water			<0.0050	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Zirconium (Zr)	Water			<0.00010	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Acidity (pH 4.5)	Water			<1.0	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Acidity (pH 8.3)	Water			<1.0	mg/L
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	Total Oil and grease	Water	10		<1.0	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Alkalinity (PP as CaCO3)	Water			<1.0	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Alkalinity (Total as CaCO3)	Water			44	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Bicarbonate (HCO3)	Water			54	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Carbonate (CO3)	Water			<1.0	mg/L
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	Hydroxide (OH)	Water			<1.0	mg/L
SPD-8FEB21-P	SURFACE	WEEKLY	ZH5519	C108734	Dissolved Sulphate (SO4)	Water			75	mg/L
SPD-11JAN21-P	WEEKLY	11-Jan-21	ZD7253	C102299	Total Suspended Solids	Water			<1.0	mg/L
SPD-8FEB21-P	SURFACE	WEEKLY	ZH5519	C108734	Conductivity	Water			230	uS/cm
SPD-22FEB21-P	SURFACE	WEEKLY	ZI4098	C111961	pH	Water			7.31	pH

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	Permit: 7008 EMS ID: E218582

Table 20 - SPD-Date Summary

Summary of Analysis Dates

<i>Sample ID</i>	<i>Project</i>	<i>Site</i>	<i>BV Labs Sample ID</i>	<i>BV Labs Job ID</i>	<i>Date Sampled</i>	<i>Time Sampled</i>	<i>Date Range: Extracted</i>	<i>Date Range: Analyzed</i>
SPD-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9630	C100809	2021/01/04		2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
SPD-11JAN21-P	WEEKLY	JAN 11, 2021	ZD7253	C102299	2021/01/11		2021/01/18 - 2021/01/18	2021/01/19 - 2021/01/19
SPD-18JAN21-P	SURFACE	WEEKLY	ZE4652	C103883	2021/01/18		2021/01/21 - 2021/01/21	2021/01/22 - 2021/01/25
SPD-1FEB21-P	SURFACE	FEB	ZG3159	C106913	2021/02/01		2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
SPD-8FEB21-P	SURFACE	WEEKLY	ZH5519	C108734	2021/02/08		2021/02/16 - 2021/02/16	2021/02/14 - 2021/02/17
SPD-16FEB21-P	WEEKLY-SURFACE		ZI2245	C110173	2021/02/16		2021/02/23 - 2021/02/23	2021/02/21 - 2021/02/24
SPD-22FEB21-P	SURFACE	WEEKLY	ZI4098	C111961	2021/02/22		2021/02/26 - 2021/02/26	2021/02/28 - 2021/03/01
SPD-1MAR21-P	MARCH MONTHLY		ZK4953	C113684	2021/03/01		2021/03/04 - 2021/03/05	2021/03/03 - 2021/03/08
SPD-9MAR21-P	WEEKLY-SURFACE	WEEKLY	ZL5609	C115474	2021/03/09		2021/03/15 - 2021/03/15	2021/03/14 - 2021/03/16
SPD-16MAR21-P	WEEKLY-SURFACE		ZM6219	C117545	2021/03/16		2021/03/22 - 2021/03/22	2021/03/19 - 2021/03/23
SPD-22MAR21-P	WEEKLY-SURFACE		ZN3534	C118894	2021/03/22		2021/03/29 - 2021/03/29	2021/03/25 - 2021/03/30

Table 21 - Within Mine -Summary

Summary

Samples											
Borehole or Well ID	Sample ID	Sample Collection Date	Sample Depth	BV Labs Job ID	BV Labs Sample ID	Water	PAHs - Water	Diss Metals - Wat	Tot Metals - Water	Inorganic - Water	Others
	2NPS-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3157			x	x	x	x
	2NPS-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4950			x	x	x	x
	2NPS-24MAR21-M	2021-03-24 12:00 AM		C119480	ZN5813			x	x	x	x
	2NPS-24MAR21-M Lab-Dup	2021-03-24 12:00 AM		C119480	ZN5813				x		
	2NPS-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9627			x	x	x	x
	2S-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3162			x	x	x	x
	2S-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4958			x	x	x	x
	2S-1MAR21-R	2021-03-01 12:00 AM		C113684	ZK4959			x	x	x	x
	2SC-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3163			x	x	x	x
	2SC-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4960			x	x	x	x
	2SC-1MAR21-M Lab-Dup	2021-03-01 12:00 AM		C113684	ZK4960					x	x
	2SC-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9636			x	x	x	x
	2SI-11JAN21-M	2021-01-11 12:00 AM		C102299	ZD7254						x
	2SI-15MAR21-M	2021-03-15 12:00 AM		C116951	ZM3655						x
	2SI-16FEB21-M	2021-02-16 12:00 AM		C110173	ZI2246						x
	2SI-18JAN21-M	2021-01-18 12:00 AM		C103883	ZE4653						x
	2SI-18JAN21-R	2021-01-18 12:00 AM		C103883	ZE4657						x
	2SI-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3161			x	x	x	x
	2SI-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4954			x	x	x	x
	2SI-22FEB21-M	2021-02-22 12:00 AM		C111961	ZJ4099						x
	2SI-22MAR21-M	2021-03-22 12:00 AM		C118894	ZN3535						x
	2SI-25JAN21-M	2021-01-25 12:00 AM		C105128	ZF1929						x
	2SI-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9634			x	x	x	x
	2SI-8FEB21-M	2021-02-08 12:00 AM		C108734	ZH5520						x
	2SI-9MAR21-M	2021-03-09 12:00 AM		C115474	ZL5610						x
	2SI-9MAR21-M Lab-Dup	2021-03-09 12:00 AM		C115474	ZL5610						x
	2SS-11JAN21-MM	2021-01-11 12:00 AM		C102299	ZD7256						x
	2SS-11JAN21-MM Lab-Dup	2021-01-11 12:00 AM		C102299	ZD7256						x
	2SS-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9635			x	x	x	x
	3M2N-9FEB21-M	2021-02-09 12:00 AM		C109213	ZH7946			x	x	x	x
	3M2N-9FEB21-M Lab-Dup	2021-02-09 12:00 AM		C109213	ZH7946						x
	3S-11JAN21-M	2021-01-11 12:00 AM		C102299	ZD7257						x
	3S-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3164					x	x
	3S-1FEB21-R	2021-02-01 12:00 AM		C106913	ZG3165					x	x
	3S-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4961			x	x	x	x
	3S-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9637			x	x	x	x
	3S-4JAN21-M Lab-Dup	2021-01-04 12:00 AM		C100809	ZC9637					x	x
	7S-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3167			x	x	x	x
	7S-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4966			x	x	x	x
	7S-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9643			x	x	x	x
	7S-4JAN21-M Lab-Dup	2021-01-04 12:00 AM		C100809	ZC9643					x	
	7SPS-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3168			x	x	x	x
	7SPS-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4965			x	x	x	x
	7SPS-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9641			x	x	x	x
	7SSD-4JAN21-P	2021-01-04 12:00 AM		C100809	ZC9642			x	x	x	x
	BCREFF-15MAR21-M	2021-03-15 12:00 AM		C116951	ZM3656						x
	BCREFF-15MAR21-R	2021-03-15 12:00 AM		C116951	ZM3657						x
	BCREFF-16FEB21-M	2021-02-16 12:00 AM		C110173	ZI2247						x
	BCREFF-18JAN21-M	2021-01-18 12:00 AM		C103883	ZE4655						x
	BCREFF-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3169			x	x	x	x
	BCREFF-1FEB21-M Lab-Dup	2021-02-01 12:00 AM		C106913	ZG3169						x
	BCREFF-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4955			x	x	x	x
	BCREFF-1MAR21-M Lab-Dup	2021-03-01 12:00 AM		C113684	ZK4955						x
	BCREFF-22FEB21-M	2021-02-22 12:00 AM		C111961	ZJ4100						x
	BCREFF-22MAR21-M	2021-03-22 12:00 AM		C118894	ZN3536						x
	BCREFF-25JAN21-M	2021-01-25 12:00 AM		C105128	ZF1930						x
	BCREFF-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9631			x	x	x	x
	BCREFF-4JAN21-M Lab-Dup	2021-01-04 12:00 AM		C100809	ZC9631				x		x
	BCREFF-8FEB21-M	2021-02-08 12:00 AM		C108734	ZH5521						x
	BCREFF-9MAR21-M	2021-03-09 12:00 AM		C115474	ZL5611						x
	INF-15MAR21-M	2021-03-15 12:00 AM		C116951	ZM3659						x
	INF-16FEB21-M	2021-02-16 12:00 AM		C110173	ZI2249						x
	INF-18JAN21-M	2021-01-18 12:00 AM		C103883	ZE4658						x
	INF-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3171			x	x	x	x
	INF-1FEB21-M Lab-Dup	2021-02-01 12:00 AM		C106913	ZG3171						x
	INF-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4957			x	x	x	x
	INF-22FEB21-M	2021-02-22 12:00 AM		C111961	ZJ4102						x
	INF-22MAR21-M	2021-03-24 12:00 AM		C119480	ZN5814						x
	INF-25JAN21-M	2021-01-25 12:00 AM		C105128	ZF1932						x
	INF-25JAN21-R	2021-01-25 12:00 AM		C105128	ZF1933						x
	INF-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9633			x	x	x	x
	INF-8FEB21-M	2021-02-08 12:00 AM		C108734	ZH5523						x
	INF-9MAR21-M	2021-03-09 12:00 AM		C115474	ZL5612						x

Table 21 - Within Mine -Summary

Summary

Samples												
Borehole or Well ID	Sample ID	Sample Collection Date	Sample Depth	BV Labs Job ID	BV Labs Sample ID	Water	PAHs - Water	Diss Metals - Water	Tot Metals - Water	Inorganic - Water		Others
	INF-9MAR21-R	2021-03-09 12:00 AM		C115474	ZL5613							x
	LLE-11JAN21-M	2021-01-11 12:00 AM		C102299	ZD7255							x
	LLE-15MAR21-M	2021-03-15 12:00 AM		C116951	ZM3660							x
	LLE-16FEB21-M	2021-02-16 12:00 AM		C110173	ZI2250							x
	LLE-18JAN21-M	2021-01-18 12:00 AM		C103883	ZE4654							x
	LLE-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3166			x	x	x		x
	LLE-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4962			x	x	x		x
	LLE-22FEB21-M	2021-02-22 12:00 AM		C111961	ZJ4103							x
	LLE-22FEB21-R	2021-02-22 12:00 AM		C111961	ZJ4104							x
	LLE-22MAR21-M	2021-03-22 12:00 AM		C118894	ZN3538							x
	LLE-25JAN21-M	2021-01-25 12:00 AM		C106092	ZF7205							x
	LLE-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9638			x	x	x		x
	LLE-4JAN21-M Lab-Dup	2021-01-04 12:00 AM		C100809	ZC9638							x
	LLE-8FEB21-M	2021-02-08 12:00 AM		C108734	ZH5524							x
	LLE-8FEB21-R	2021-02-08 12:00 AM		C108734	ZH5525							x
	LLE-9MAR21-M	2021-03-09 12:00 AM		C115474	ZL5614							x
	LLS-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3172			x	x	x		x
	LLS-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4963			x	x	x		x
	LLS-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9639			x	x	x		x
	LLSM-11JAN21-M	2021-01-11 12:00 AM		C102299	ZD7258				x	x		x
	LLSM-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3173			x	x	x		x
	LLSM-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4964			x	x	x		x
	LLSM-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9640			x	x	x		x
	PDSR-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3158			x	x	x		x
	PDSR-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4951			x	x			x
	PDSR-1MAR21-M Lab-Dup	2021-03-01 12:00 AM		C113684	ZK4951				x			
	PDSR-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9628			x	x	x		x
	PDSR-4JAN21-M Lab-Dup	2021-01-04 12:00 AM		C100809	ZC9628							x
	SPC-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3160			x	x	x		x
	SPC-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4952			x	x	x		x
	SPC-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9629					x		x
	SPCEFF-15MAR21-M	2021-03-15 12:00 AM		C116951	ZM3658							x
	SPCEFF-16FEB21-M	2021-02-16 12:00 AM		C110173	ZI2248							x
	SPCEFF-18JAN21-M	2021-01-18 12:00 AM		C103883	ZE4656							x
	SPCEFF-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3170			x	x	x		x
	SPCEFF-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4956			x	x	x		x
	SPCEFF-1MAR21-M Lab-Dup	2021-03-01 12:00 AM		C113684	ZK4956			x	x			
	SPCEFF-22FEB21-M	2021-02-22 12:00 AM		C111961	ZJ4101							x
	SPCEFF-22MAR21-M	2021-03-22 12:00 AM		C118894	ZN3537							x
	SPCEFF-25JAN21-M	2021-01-25 12:00 AM		C105128	ZF1931							x
	SPCEFF-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9632			x	x	x		x
	SPCEFF-8FEB21-M	2021-02-08 12:00 AM		C108734	ZH5522							x
	TDF-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9644			x	x	x		x
	TRIPBLANK-8FEB21-B	2021-02-08 12:00 AM		C108734	ZH5526				x	x		x
	WC-15MAR21-M	2021-03-15 12:00 AM		C116949	ZM3646			x	x	x		x
	WC-15MAR21-M Lab-Dup	2021-03-15 12:00 AM		C116949	ZM3646			x	x			
	WC-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3155			x	x			x
	WC-1FEB21-M Lab-Dup	2021-02-01 12:00 AM		C106913	ZG3155							x
	WC-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4948			x	x			x
	WC-1MAR21-M Lab-Dup	2021-03-01 12:00 AM		C113684	ZK4948			x				x
	WC-22MAR21-M	2021-03-22 12:00 AM		C118890	ZN3528			x	x	x		x
	WC-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9625							x
	WP-1FEB21-M	2021-02-01 12:00 AM		C106913	ZG3156			x	x	x		x
	WP-1FEB21-M Lab-Dup	2021-02-01 12:00 AM		C106913	ZG3156							x
	WP-1MAR21-M	2021-03-01 12:00 AM		C113684	ZK4949			x	x	x		x
	WP-4JAN21-M	2021-01-04 12:00 AM		C100809	ZC9626			x	x	x		x
	WP-4JAN21-M Lab-Dup	2021-01-04 12:00 AM		C100809	ZC9626				x			

Table 22 - Within Mine-Diss Metals

Dissolved Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	2NPS-4JAN21-M C100809 / ZC9627 2021-01-04	2NPS-1FEB21-M C106913 / ZG3157 2021-02-01	2NPS-1MAR21-M C113684 / ZK4950 2021-03-01	2NPS-1MAR21-M Lab-Dup C113684 / ZK4950 2021-03-01	2NPS-24MAR21-M C119480 / ZN5813 2021-03-24	2S-4JAN21-M C100809 / ZC9635 2021-01-04	2S-1FEB21-M C106913 / ZG3162 2021-02-01	2S-1MAR21-M C113684 / ZK4958 2021-03-01
Dissolved Hardness (CaCO3)	mg/L	0.50	210	856	744	-	796	272	346	299
Dissolved Aluminum (Al)	mg/L	0.0030 - 0.015	0.0084	0.0102	0.0033	-	<0.015	0.0077	<0.0030	0.0036
Dissolved Antimony (Sb)	mg/L	0.00050 - 0.0025	<0.00050	<0.0010	<0.00050	-	<0.0025	<0.00050	<0.00050	<0.00050
Dissolved Arsenic (As)	mg/L	0.00010 - 0.00050	0.00016	0.00069	0.00059	-	<0.00050	0.00011	0.00269	0.00216
Dissolved Barium (Ba)	mg/L	0.0010 - 0.0050	0.0115	0.0126	0.0133	-	0.0114	0.0145	0.0141	0.0128
Dissolved Beryllium (Be)	mg/L	0.00010 - 0.00050	<0.00010	<0.00020	<0.00010	-	<0.00050	<0.00010	<0.00010	<0.00010
Dissolved Bismuth (Bi)	mg/L	0.0010 - 0.0050	<0.0010	<0.0020	<0.0010	-	<0.0050	<0.0010	<0.0010	<0.0010
Dissolved Boron (B)	mg/L	0.050 - 0.25	0.197	0.79	0.706	-	0.85	0.206	0.268	0.235
Dissolved Cadmium (Cd)	mg/L	0.000010 - 0.000050	0.000022	<0.000020	<0.000010	-	<0.000050	<0.000010	<0.000010	<0.000010
Dissolved Calcium (Ca)	mg/L	0.050 - 0.25	71.8	290	255	-	270	94.2	117	102
Dissolved Chromium (Cr)	mg/L	0.0010 - 0.0050	<0.0010	<0.0020	<0.0010	-	<0.0050	<0.0010	<0.0010	<0.0010
Dissolved Cobalt (Co)	mg/L	0.00020 - 0.0010	0.00436	0.00146	0.00164	-	0.002	<0.00020	<0.00020	<0.00020
Dissolved Copper (Cu)	mg/L	0.00020 - 0.0010	0.00049	<0.00040	<0.00020	-	<0.0010	0.00054	0.00043	0.001
Dissolved Iron (Fe)	mg/L	0.0050 - 0.025	<0.0050	0.042	0.221	-	0.171	0.0144	<0.0050	0.0063
Dissolved Lead (Pb)	mg/L	0.00020 - 0.0010	<0.00020	<0.00040	<0.00020	-	<0.0010	<0.00020	<0.00020	<0.00020
Dissolved Lithium (Li)	mg/L	0.0020 - 0.010	0.0035	0.0137	0.0131	-	0.014	0.0035	0.0126	0.0105
Dissolved Magnesium (Mg)	mg/L	0.050 - 0.25	7.49	32.1	26.3	-	29.7	8.87	13.1	10.8
Dissolved Manganese (Mn)	mg/L	0.0010 - 0.0050	0.103	0.301	0.214	-	0.241	0.0071	0.0302	0.0155
Dissolved Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Dissolved Molybdenum (Mo)	mg/L	0.0010 - 0.0050	<0.0010	<0.0020	<0.0010	-	<0.0050	<0.0010	<0.0010	<0.0010
Dissolved Nickel (Ni)	mg/L	0.0010 - 0.0050	0.0093	0.0033	0.0021	-	<0.0050	<0.0010	<0.0010	<0.0010
Dissolved Potassium (K)	mg/L	0.050 - 0.25	1.03	4.06	3.62	-	3.58	0.759	1.44	1.21
Dissolved Selenium (Se)	mg/L	0.00010 - 0.00050	<0.00010	<0.00020	<0.00010	-	<0.00050	<0.00010	<0.00010	<0.00010
Dissolved Silicon (Si)	mg/L	0.10 - 0.50	1.01	3.36	3.21	-	3.08	3.1	1.82	1.44
Dissolved Silver (Ag)	mg/L	0.000020 - 0.00010	<0.000020	<0.000040	<0.000020	-	<0.00010	<0.000020	<0.000020	<0.000020
Dissolved Sodium (Na)	mg/L	0.050 - 0.25	42.8	255	215	-	218	34.3	48.5	38.3
Dissolved Strontium (Sr)	mg/L	0.0010 - 0.0050	0.428	2.06	2.11	-	2.05	0.705	0.899	0.815
Dissolved Sulphur (S)	mg/L	3.0 - 15	79.3	380	307	-	346	81.3	109	93.4
Dissolved Thallium (Tl)	mg/L	0.000010 - 0.000050	<0.000010	<0.000020	<0.000010	-	<0.000050	<0.000010	<0.000010	<0.000010
Dissolved Tin (Sn)	mg/L	0.0050 - 0.025	<0.0050	<0.010	<0.0050	-	<0.025	<0.0050	<0.0050	<0.0050
Dissolved Titanium (Ti)	mg/L	0.0050 - 0.025	<0.0050	<0.010	<0.0050	-	<0.025	<0.0050	<0.0050	<0.0050
Dissolved Uranium (U)	mg/L	0.00010 - 0.00050	<0.00010	<0.00020	0.00017	-	<0.00050	<0.00010	0.00024	0.00022
Dissolved Vanadium (V)	mg/L	0.0050 - 0.025	<0.0050	<0.010	<0.0050	-	<0.025	<0.0050	<0.0050	<0.0050
Dissolved Zinc (Zn)	mg/L	0.0050 - 0.025	0.0063	<0.010	<0.0050	-	<0.025	<0.0050	<0.0050	<0.0050
Dissolved Zirconium (Zr)	mg/L	0.00010 - 0.00050	<0.00010	<0.00020	<0.00010	-	<0.00050	<0.00010	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 22 - Within Mine-Diss Metals

Dissolved Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	25-1MAR21-R C113684 / ZK4959 2021-03-01	25C-4JAN21-M C100809 / ZC9636 2021-01-04	25C-1FEB21-M C106913 / ZG3163 2021-02-01	25C-1MAR21-M C113684 / ZK4960 2021-03-01	25I-4JAN21-M C100809 / ZC9634 2021-01-04	25I-1FEB21-M C106913 / ZG3161 2021-02-01	25I-1MAR21-M C113684 / ZK4954 2021-03-01	3M2N-9FEB21-M C109213 / ZH7946 2021-02-09
Dissolved Hardness (CaCO3)	mg/L	0.50	296	559	805	714	239	395	337	340
Dissolved Aluminum (Al)	mg/L	0.0030 - 0.015	<0.0030	0.006	<0.0060	<0.0030	0.0278	0.0111	0.0108	<0.0030
Dissolved Antimony (Sb)	mg/L	0.00050 - 0.0025	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Arsenic (As)	mg/L	0.00010 - 0.00050	0.00209	0.0012	0.0004	0.00038	0.00012	0.00017	0.00016	0.00044
Dissolved Barium (Ba)	mg/L	0.0010 - 0.0050	0.0129	0.0132	0.0128	0.0131	0.0141	0.0212	0.0194	0.014
Dissolved Beryllium (Be)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Bismuth (Bi)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Boron (B)	mg/L	0.050 - 0.25	0.233	0.25	0.3	0.25	0.153	0.335	0.303	0.73
Dissolved Cadmium (Cd)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	0.000024
Dissolved Calcium (Ca)	mg/L	0.050 - 0.25	101	188	270	240	81.7	139	119	110
Dissolved Chromium (Cr)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Cobalt (Co)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00040	<0.00020	0.00033	<0.00020	<0.00020	0.00063
Dissolved Copper (Cu)	mg/L	0.00020 - 0.0010	0.00114	0.00022	0.00071	0.00079	0.00053	0.00056	0.00036	0.0016
Dissolved Iron (Fe)	mg/L	0.0050 - 0.025	<0.0050	0.0137	<0.010	<0.0050	0.0694	0.08	0.0742	0.073
Dissolved Lead (Pb)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Lithium (Li)	mg/L	0.0020 - 0.010	0.0103	0.0089	0.0089	0.0081	0.0029	0.0083	0.0071	0.0185
Dissolved Magnesium (Mg)	mg/L	0.050 - 0.25	10.8	22.1	31.9	27.7	8.57	11.4	9.66	15.6
Dissolved Manganese (Mn)	mg/L	0.0010 - 0.0050	0.0153	0.0471	0.0053	0.0061	0.0428	0.083	0.0422	0.133
Dissolved Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	-	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Dissolved Molybdenum (Mo)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Nickel (Ni)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0020	<0.0010	0.0012	<0.0010	<0.0010	0.0014
Dissolved Potassium (K)	mg/L	0.050 - 0.25	1.2	1.64	2.12	2.03	0.611	1.03	0.919	3.43
Dissolved Selenium (Se)	mg/L	0.00010 - 0.00050	<0.00010	0.0002	<0.00020	0.00025	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Silicon (Si)	mg/L	0.10 - 0.50	1.42	2.27	2.76	2.49	3.55	3.87	3.54	2.94
Dissolved Silver (Ag)	mg/L	0.000020 - 0.00010	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Dissolved Sodium (Na)	mg/L	0.050 - 0.25	38.6	37.3	32.8	29.4	23.8	56.6	50.9	301
Dissolved Strontium (Sr)	mg/L	0.0010 - 0.0050	0.797	1.17	1.5	1.56	0.582	1.14	1.03	1.36
Dissolved Sulphur (S)	mg/L	3.0 - 15	93.2	172	232	207	71.5	122	107	223
Dissolved Thallium (Tl)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Tin (Sn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Titanium (Ti)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Uranium (U)	mg/L	0.00010 - 0.00050	0.00022	0.00018	0.00021	0.0002	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Vanadium (V)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Zinc (Zn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Zirconium (Zr)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 22 - Within Mine-Diss Metals

Dissolved Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	35-4JAN21-M C100809 / ZC9637 2021-01-04	35-1MAR21-M C113684 / ZK4961 2021-03-01	75-4JAN21-M C100809 / ZC9643 2021-01-04	75-1FEB21-M C106913 / ZG3167 2021-02-01	75-1MAR21-M C113684 / ZK4966 2021-03-01	75PS-4JAN21-M C100809 / ZC9641 2021-01-04	75PS-1FEB21-M C106913 / ZG3168 2021-02-01	75PS-1MAR21-M C113684 / ZK4965 2021-03-01
Dissolved Hardness (CaCO3)	mg/L	0.50	529	569	11.2	14.3	12.8	92.1	189	223
Dissolved Aluminum (Al)	mg/L	0.0030 - 0.015	0.0069	<0.0030	0.0749	0.043	0.0237	0.0085	0.0153	0.0056
Dissolved Antimony (Sb)	mg/L	0.00050 - 0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Arsenic (As)	mg/L	0.00010 - 0.00050	0.00096	0.0004	<0.00010	<0.00010	<0.00010	0.00012	0.00077	0.00078
Dissolved Barium (Ba)	mg/L	0.0010 - 0.0050	0.0127	0.0113	0.0013	0.0014	0.0011	0.0085	0.0108	0.0131
Dissolved Beryllium (Be)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Bismuth (Bi)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Boron (B)	mg/L	0.050 - 0.25	0.248	0.233	<0.050	<0.050	<0.050	<0.050	<0.050	0.056
Dissolved Cadmium (Cd)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000024	0.000027	0.000022
Dissolved Calcium (Ca)	mg/L	0.050 - 0.25	178	191	3.21	4.03	3.7	26.2	54.6	64.5
Dissolved Chromium (Cr)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Cobalt (Co)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00377	0.00382	0.00336
Dissolved Copper (Cu)	mg/L	0.00020 - 0.0010	0.00025	0.0006	0.00044	0.00032	0.00026	0.00172	0.00182	0.00107
Dissolved Iron (Fe)	mg/L	0.0050 - 0.025	0.01	<0.0050	0.0304	0.0133	<0.0050	0.262	1.75	1.67
Dissolved Lead (Pb)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Lithium (Li)	mg/L	0.0020 - 0.010	0.0086	0.0066	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dissolved Magnesium (Mg)	mg/L	0.050 - 0.25	20.2	22.5	0.783	1.02	0.863	6.46	12.9	15
Dissolved Manganese (Mn)	mg/L	0.0010 - 0.0050	0.0337	0.0027	<0.0010	<0.0010	<0.0010	0.122	0.162	0.15
Dissolved Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	0.000003	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Dissolved Molybdenum (Mo)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Nickel (Ni)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0072	0.0077	0.0066
Dissolved Potassium (K)	mg/L	0.050 - 0.25	1.55	1.71	0.099	0.08	0.078	0.431	0.658	0.793
Dissolved Selenium (Se)	mg/L	0.00010 - 0.00050	0.0004	0.00015	<0.00010	<0.00010	<0.00010	0.00018	<0.00010	<0.00010
Dissolved Silicon (Si)	mg/L	0.10 - 0.50	2.11	1.9	3.51	4.1	3.82	2.45	4.54	4.19
Dissolved Silver (Ag)	mg/L	0.000020 - 0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Dissolved Sodium (Na)	mg/L	0.050 - 0.25	37.6	26.9	1.27	1.44	1.36	1.56	3.58	4.55
Dissolved Strontium (Sr)	mg/L	0.0010 - 0.0050	1.11	1.25	0.0131	0.0162	0.0154	0.0884	0.203	0.255
Dissolved Sulphur (S)	mg/L	3.0 - 15	159	164	<3.0	<3.0	<3.0	26.2	48.4	55.7
Dissolved Thallium (Tl)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Tin (Sn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Titanium (Ti)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Uranium (U)	mg/L	0.00010 - 0.00050	0.00018	0.00016	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00013
Dissolved Vanadium (V)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Zinc (Zn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0109	0.0137	0.0123
Dissolved Zirconium (Zr)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

Legend		
To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 22 - Within Mine-Diss Metals

Dissolved Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	7SSD-4JAN21-P C100809 / ZC9642 2021-01-04	BCREFF-4JAN21-M C100809 / ZC9631 2021-01-04	BCREFF-1FEB21-M C106913 / ZG3169 2021-02-01	BCREFF-1MAR21-M C113684 / ZK4955 2021-03-01	INF-4JAN21-M C100809 / ZC9633 2021-01-04	INF-1FEB21-M C106913 / ZG3171 2021-02-01	INF-1MAR21-M C113684 / ZK4957 2021-03-01	LLE-4JAN21-M C100809 / ZC9638 2021-01-04
Dissolved Hardness (CaCO3)	mg/L	0.50	83.6	615	612	572	606	619	617	71.6
Dissolved Aluminum (Al)	mg/L	0.0030 - 0.015	0.0063	0.0038	0.0048	0.0069	0.0041	0.0033	<0.0030	0.0584
Dissolved Antimony (Sb)	mg/L	0.00050 - 0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Arsenic (As)	mg/L	0.00010 - 0.00050	0.00074	0.00014	0.00014	0.0001	0.00462	0.00348	0.00393	0.00021
Dissolved Barium (Ba)	mg/L	0.0010 - 0.0050	0.0044	0.0276	0.0267	0.0267	0.0214	0.0219	0.0222	0.0052
Dissolved Beryllium (Be)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Bismuth (Bi)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Boron (B)	mg/L	0.050 - 0.25	<0.050	0.562	0.617	0.581	0.587	0.666	0.586	<0.050
Dissolved Cadmium (Cd)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Calcium (Ca)	mg/L	0.050 - 0.25	23.4	223	222	209	220	225	226	23.3
Dissolved Chromium (Cr)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Cobalt (Co)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00020	<0.00020	0.00169	0.00099	0.0006	<0.00020
Dissolved Copper (Cu)	mg/L	0.00020 - 0.0010	0.00036	<0.00020	<0.00020	<0.00020	<0.00020	0.00036	<0.00020	0.00037
Dissolved Iron (Fe)	mg/L	0.0050 - 0.025	0.0084	0.0074	0.007	0.015	3.99	3.2	3.28	0.0959
Dissolved Lead (Pb)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Lithium (Li)	mg/L	0.0020 - 0.010	<0.0020	0.0154	0.0186	0.0172	0.0194	0.0241	0.0219	<0.0020
Dissolved Magnesium (Mg)	mg/L	0.050 - 0.25	6.11	14.3	14	12.1	13.5	13.6	12.9	3.27
Dissolved Manganese (Mn)	mg/L	0.0010 - 0.0050	0.0155	0.278	0.26	0.244	0.429	0.36	0.356	0.0061
Dissolved Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Dissolved Molybdenum (Mo)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Nickel (Ni)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	0.0025	0.0016	0.0011	<0.0010
Dissolved Potassium (K)	mg/L	0.050 - 0.25	0.296	1.79	1.87	1.61	1.71	1.85	1.77	0.346
Dissolved Selenium (Se)	mg/L	0.00010 - 0.00050	<0.00010	0.0193	0.00217	0.00507	0.00069	<0.00010	<0.00010	0.0002
Dissolved Silicon (Si)	mg/L	0.10 - 0.50	2.78	3.45	3.81	3.41	3.54	3.56	3.46	2.8
Dissolved Silver (Ag)	mg/L	0.000020 - 0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Dissolved Sodium (Na)	mg/L	0.050 - 0.25	2.6	102	105	98.1	99.6	114	101	5.55
Dissolved Strontium (Sr)	mg/L	0.0010 - 0.0050	0.0818	2.09	2.15	2.07	2.04	2.22	2.3	0.131
Dissolved Sulphur (S)	mg/L	3.0 - 15	<3.0	260	196	212	199	212	202	19
Dissolved Thallium (Tl)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	0.000016	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Tin (Sn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Titanium (Ti)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Uranium (U)	mg/L	0.00010 - 0.00050	0.00014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Vanadium (V)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Zinc (Zn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0054	<0.0050	<0.0050
Dissolved Zirconium (Zr)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 22 - Within Mine-Diss Metals

Dissolved Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	LLE-1FEB21-M C106913 / ZG3166 2021-02-01	LLE-1MAR21-M C113684 / ZK4962 2021-03-01	LLS-4JAN21-M C100809 / ZC9639 2021-01-04	LLS-1FEB21-M C106913 / ZG3172 2021-02-01	LLS-1MAR21-M C113684 / ZK4963 2021-03-01	LLSM-4JAN21-M C100809 / ZC9640 2021-01-04	LLSM-1FEB21-M C106913 / ZG3173 2021-02-01	LLSM-1MAR21-M C113684 / ZK4964 2021-03-01
Dissolved Hardness (CaCO3)	mg/L	0.50	84.1	112	444	708	688	355	628	495
Dissolved Aluminum (Al)	mg/L	0.0030 - 0.015	0.0429	0.031	0.0116	<0.0030	0.0034	0.0223	0.004	0.0056
Dissolved Antimony (Sb)	mg/L	0.00050 - 0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Arsenic (As)	mg/L	0.00010 - 0.00050	0.00043	0.00039	0.00124	0.00578	0.00508	0.00021	0.00143	0.0013
Dissolved Barium (Ba)	mg/L	0.0010 - 0.0050	0.0069	0.0083	0.0159	0.0196	0.0188	0.0168	0.0191	0.0177
Dissolved Beryllium (Be)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Bismuth (Bi)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Boron (B)	mg/L	0.050 - 0.25	<0.050	0.062	0.373	0.565	0.515	0.289	0.487	0.396
Dissolved Cadmium (Cd)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Calcium (Ca)	mg/L	0.050 - 0.25	27.2	36.9	154	249	244	121	221	173
Dissolved Chromium (Cr)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Cobalt (Co)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	0.00145	0.00119	0.00145	0.00092	0.00073	0.001
Dissolved Copper (Cu)	mg/L	0.00020 - 0.0010	0.00068	0.00153	0.00042	<0.00020	0.00026	0.00099	0.00022	0.00095
Dissolved Iron (Fe)	mg/L	0.0050 - 0.025	0.303	0.186	0.741	2.27	2.28	0.107	0.571	0.563
Dissolved Lead (Pb)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Lithium (Li)	mg/L	0.0020 - 0.010	<0.0020	<0.0020	0.0153	0.0251	0.0231	0.0104	0.0211	0.0168
Dissolved Magnesium (Mg)	mg/L	0.050 - 0.25	3.91	4.76	14.5	21.1	19.3	12.8	18.4	15.3
Dissolved Manganese (Mn)	mg/L	0.0010 - 0.0050	0.0396	0.0201	0.187	0.497	0.495	0.0431	0.209	0.192
Dissolved Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Dissolved Molybdenum (Mo)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Nickel (Ni)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	0.0043	0.0028	0.0031	0.0027	0.0027	0.0028
Dissolved Potassium (K)	mg/L	0.050 - 0.25	0.381	0.431	1.91	2.53	2.49	1.65	2.22	2.03
Dissolved Selenium (Se)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	0.00022	<0.00010	<0.00010	0.00023	<0.00010	<0.00010
Dissolved Silicon (Si)	mg/L	0.10 - 0.50	3.21	2.89	2.84	3.23	3.16	2.7	3.05	2.7
Dissolved Silver (Ag)	mg/L	0.000020 - 0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Dissolved Sodium (Na)	mg/L	0.050 - 0.25	7.4	8.38	55.2	97	91.1	41.7	81.8	64.7
Dissolved Strontium (Sr)	mg/L	0.0010 - 0.0050	0.162	0.239	1.38	2.43	2.46	1.07	2.01	1.76

Table 22 - Within Mine-Diss Metals

Dissolved Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	PDSR-4JAN21-M C100809 / ZC9628 2021-01-04	PDSR-1FEB21-M C106913 / ZG3158 2021-02-01	PDSR-1MAR21-M C113684 / ZK4951 2021-03-01	SPC-1FEB21-M C106913 / ZG3160 2021-02-01	SPC-1MAR21-M C113684 / ZK4952 2021-03-01	SPCEFF-4JAN21-M C100809 / ZC9632 2021-01-04	SPCEFF-1FEB21-M C106913 / ZG3170 2021-02-01	SPCEFF-1MAR21-M C113684 / ZK4956 2021-03-01
Dissolved Hardness (CaCO3)	mg/L	0.50	259	519	547	75	108	550	629	519
Dissolved Aluminum (Al)	mg/L	0.0030 - 0.015	0.0219	0.0082	0.0072	0.0516	0.0346	<0.0030	0.0042	0.0043
Dissolved Antimony (Sb)	mg/L	0.00050 - 0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Arsenic (As)	mg/L	0.00010 - 0.00050	<0.00010	0.00012	0.00012	0.00025	0.00024	0.0007	0.00034	0.00074
Dissolved Barium (Ba)	mg/L	0.0010 - 0.0050	0.0076	0.0139	0.0152	0.0051	0.0066	0.0296	0.0283	0.0309
Dissolved Beryllium (Be)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Bismuth (Bi)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Boron (B)	mg/L	0.050 - 0.25	0.132	0.187	0.195	<0.050	0.062	0.503	0.62	0.515
Dissolved Cadmium (Cd)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Calcium (Ca)	mg/L	0.050 - 0.25	80.3	163	172	24.3	35.5	199	229	188
Dissolved Chromium (Cr)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Cobalt (Co)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00023
Dissolved Copper (Cu)	mg/L	0.00020 - 0.0010	0.00035	0.00042	0.00025	0.00049	0.00067	<0.00020	<0.00020	0.00041
Dissolved Iron (Fe)	mg/L	0.0050 - 0.025	0.0127	<0.0050	<0.0050	0.0806	0.0491	0.0468	0.198	0.0219
Dissolved Lead (Pb)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Dissolved Lithium (Li)	mg/L	0.0020 - 0.010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0112	0.0183	0.0117
Dissolved Magnesium (Mg)	mg/L	0.050 - 0.25	14.3	27.5	28.2	3.5	4.71	13.1	13.7	12
Dissolved Manganese (Mn)	mg/L	0.0010 - 0.0050	0.0013	<0.0010	<0.0010	0.0015	0.0012	0.0991	0.247	0.0847
Dissolved Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.000019	<0.0000019
Dissolved Molybdenum (Mo)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Nickel (Ni)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Potassium (K)	mg/L	0.050 - 0.25	0.756	1.08	1.09	0.325	0.423	1.47	1.79	1.5
Dissolved Selenium (Se)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00129	0.0017	0.00017
Dissolved Silicon (Si)	mg/L	0.10 - 0.50	3.17	3.51	3.32	3.13	2.81	3.2	3.99	3.34
Dissolved Silver (Ag)	mg/L	0.000020 - 0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Dissolved Sodium (Na)	mg/L	0.050 - 0.25	23.6	39.3	40	6.67	8.27	91.5	102	88.8
Dissolved Strontium (Sr)	mg/L	0.0010 - 0.0050	0.48	1.03	1.14	0.151	0.222	1.85	2.1	1.91
Dissolved Sulphur (S)	mg/L	3.0 - 15	72.8	154	166	20.7	29.8	168	187	151
Dissolved Thallium (Tl)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Dissolved Tin (Sn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Titanium (Ti)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Uranium (U)	mg/L	0.00010 - 0.00050	<0.00010	0.00026	0.00028	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Dissolved Vanadium (V)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Zinc (Zn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dissolved Zirconium (Zr)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 22 - Within Mine-Diss Metals

Dissolved Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	SPCEFF-1MAR21-M Lab-Dup C113684 / ZK4956 2021-03-01	TDF-4JAN21-M C100809 / ZC9644 2021-01-04	WC-1FEB21-M C106913 / ZG3155 2021-02-01	WC-1MAR21-M C113684 / ZK4948 2021-03-01	WC-1MAR21-M Lab-Dup C113684 / ZK4948 2021-03-01	WC-15MAR21-M C116949 / ZM3646 2021-03-15	WC-15MAR21-M Lab-Dup C116949 / ZM3646 2021-03-15	WC-22MAR21-M C118890 / ZN3528 2021-03-22
Dissolved Hardness (CaCO3)	mg/L	0.50	-	1060	521	421	-	532	-	639
Dissolved Aluminum (Al)	mg/L	0.0030 - 0.015	-	<0.0060	0.011	0.0074	0.007	<0.0060	<0.0060	0.0068
Dissolved Antimony (Sb)	mg/L	0.00050 - 0.0025	-	<0.0010	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010
Dissolved Arsenic (As)	mg/L	0.00010 - 0.00050	-	<0.00020	0.00039	0.00029	0.00027	0.00024	0.00022	<0.00020
Dissolved Barium (Ba)	mg/L	0.0010 - 0.0050	-	0.0146	0.0148	0.0133	0.0133	0.0151	0.0149	0.0193
Dissolved Beryllium (Be)	mg/L	0.00010 - 0.00050	-	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020
Dissolved Bismuth (Bi)	mg/L	0.0010 - 0.0050	-	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020
Dissolved Boron (B)	mg/L	0.050 - 0.25	-	0.63	0.559	0.582	0.568	0.8	0.79	1.08
Dissolved Cadmium (Cd)	mg/L	0.000010 - 0.000050	-	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020
Dissolved Calcium (Ca)	mg/L	0.050 - 0.25	-	366	174	142	-	177	-	206
Dissolved Chromium (Cr)	mg/L	0.0010 - 0.0050	-	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020
Dissolved Cobalt (Co)	mg/L	0.00020 - 0.0010	-	<0.00040	<0.00020	0.00067	0.00066	0.00299	0.003	0.0383
Dissolved Copper (Cu)	mg/L	0.00020 - 0.0010	-	<0.00040	0.0003	0.00024	0.00024	0.00041	0.00044	0.00046
Dissolved Iron (Fe)	mg/L	0.0050 - 0.025	-	<0.010	0.0112	0.0109	0.0112	0.011	0.011	0.082
Dissolved Lead (Pb)	mg/L	0.00020 - 0.0010	-	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040
Dissolved Lithium (Li)	mg/L	0.0020 - 0.010	-	0.0133	0.0116	0.011	0.0106	0.0135	0.0134	0.0182
Dissolved Magnesium (Mg)	mg/L	0.050 - 0.25	-	34.8	21.1	16.2	-	21.9	-	30
Dissolved Manganese (Mn)	mg/L	0.0010 - 0.0050	-	<0.0020	0.0111	0.0532	0.0524	0.153	0.155	1.78
Dissolved Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	-	<0.0000019	<0.0000019	-
Dissolved Molybdenum (Mo)	mg/L	0.0010 - 0.0050	-	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020
Dissolved Nickel (Ni)	mg/L	0.0010 - 0.0050	-	<0.0020	<0.0010	0.0092	0.0092	0.0212	0.0215	0.0764
Dissolved Potassium (K)	mg/L	0.050 - 0.25	-	4.17	2.99	2.75	-	3.29	-	3.99
Dissolved Selenium (Se)	mg/L	0.00010 - 0.00050	-	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020
Dissolved Silicon (Si)	mg/L	0.10 - 0.50	-	3.74	2.96	2.88	2.91	2.87	2.92	3.2
Dissolved Silver (Ag)	mg/L	0.000020 - 0.00010	-	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040
Dissolved Sodium (Na)	mg/L	0.050 - 0.25	-	159	218	217	-	295	-	410
Dissolved Strontium (Sr)	mg/L	0.0010 - 0.0050	-	2.61	1.47	1.3	1.3	1.54	1.5	1.86
Dissolved Sulphur (S)	mg/L	3.0 - 15	-	405	257	225	-	289	-	410
Dissolved Thallium (Tl)	mg/L	0.000010 - 0.000050	-	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020
Dissolved Tin (Sn)	mg/L	0.0050 - 0.025	-	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010
Dissolved Titanium (Ti)	mg/L	0.0050 - 0.025	-	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010
Dissolved Uranium (U)	mg/L	0.00010 - 0.00050	-	<0.00020	0.00011	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020
Dissolved Vanadium (V)	mg/L	0.0050 - 0.025	-	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010
Dissolved Zinc (Zn)	mg/L	0.0050 - 0.025	-	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010
Dissolved Zirconium (Zr)	mg/L	0.00010 - 0.00050	-	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 22 - Within Mine-Diss Metals					
Dissolved Metals - Water					
Sample ID					
BV Labs Job ID / Sample ID					
Sample Collection Date					
Sample Collection Time					
Parameter	Units	RDL	WP-4JAN21-M C100809 / ZC9626 2021-01-04	WP-1FEB21-M C106913 / ZG3156 2021-02-01	WP-1MAR21-M C113684 / ZK4949 2021-03-01
Dissolved Hardness (CaCO3)	mg/L	0.50	626	410	375
Dissolved Aluminum (Al)	mg/L	0.0030 - 0.015	0.0035	0.013	0.0118
Dissolved Antimony (Sb)	mg/L	0.00050 - 0.0025	<0.00050	<0.00050	<0.00050
Dissolved Arsenic (As)	mg/L	0.00010 - 0.00050	<0.00010	0.00018	0.00018
Dissolved Barium (Ba)	mg/L	0.0010 - 0.0050	0.0159	0.0112	0.0116
Dissolved Beryllium (Be)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010
Dissolved Bismuth (Bi)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010
Dissolved Boron (B)	mg/L	0.050 - 0.25	0.146	0.507	0.476
Dissolved Cadmium (Cd)	mg/L	0.000010 - 0.000050	0.000026	0.000013	<0.000010
Dissolved Calcium (Ca)	mg/L	0.050 - 0.25	224	133	123
Dissolved Chromium (Cr)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010
Dissolved Cobalt (Co)	mg/L	0.00020 - 0.0010	<0.00020	0.00111	0.00054
Dissolved Copper (Cu)	mg/L	0.00020 - 0.0010	0.00023	0.00046	0.00044
Dissolved Iron (Fe)	mg/L	0.0050 - 0.025	0.0147	<0.0050	<0.0050
Dissolved Lead (Pb)	mg/L	0.00020 - 0.0010	<0.00020	<0.00020	<0.00020
Dissolved Lithium (Li)	mg/L	0.0020 - 0.010	0.0025	0.0089	0.0088
Dissolved Magnesium (Mg)	mg/L	0.050 - 0.25	16	19.1	16.5
Dissolved Manganese (Mn)	mg/L	0.0010 - 0.0050	0.0126	0.102	0.0388
Dissolved Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019
Dissolved Molybdenum (Mo)	mg/L	0.0010 - 0.0050	<0.0010	<0.0010	<0.0010
Dissolved Nickel (Ni)	mg/L	0.0010 - 0.0050	0.0053	0.0029	0.0027
Dissolved Potassium (K)	mg/L	0.050 - 0.25	0.929	2.26	2.29
Dissolved Selenium (Se)	mg/L	0.00010 - 0.00050	0.0006	0.00011	0.0001
Dissolved Silicon (Si)	mg/L	0.10 - 0.50	2.09	2.46	2.21
Dissolved Silver (Ag)	mg/L	0.000020 - 0.00010	<0.000020	<0.000020	<0.000020
Dissolved Sodium (Na)	mg/L	0.050 - 0.25	5.12	161	169
Dissolved Strontium (Sr)	mg/L	0.0010 - 0.0050	0.714	1.05	1.04
Dissolved Sulphur (S)	mg/L	3.0 - 15	178	185	176
Dissolved Thallium (Tl)	mg/L	0.000010 - 0.000050	<0.000010	<0.000010	<0.000010
Dissolved Tin (Sn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050
Dissolved Titanium (Ti)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050
Dissolved Uranium (U)	mg/L	0.00010 - 0.00050	<0.00010	0.00016	0.00013
Dissolved Vanadium (V)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050
Dissolved Zinc (Zn)	mg/L	0.0050 - 0.025	<0.0050	<0.0050	<0.0050
Dissolved Zirconium (Zr)	mg/L	0.00010 - 0.00050	<0.00010	<0.00010	<0.00010
Legend					
To Be Announced	TBA				
Exceeds one Criteria	Result				
Exceeds two Criteria	Result				
DL > Criteria	Result				

Table 23 - Within Mine -Tot Metals

Total Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	2NPS-4JAN21-M C100809 / ZC9627 2021-01-04	2NPS-1FEB21-M C106913 / ZG3157 2021-02-01	2NPS-1MAR21-M C113684 / ZK4950 2021-03-01	2NPS-1MAR21-M Lab-Dup C113684 / ZK4950 2021-03-01	2NPS-24MAR21-M C119480 / ZN5813 2021-03-24	2NPS-24MAR21-M Lab-Dup C119480 / ZN5813 2021-03-24	2S-1FEB21-M C106913 / ZG3162 2021-02-01	2S-1MAR21-M C113684 / ZK4958 2021-03-01
Total Hardness (CaCO3)	mg/L	0.50	198	792	740	-	778	-	338	300
Total Aluminum (Al)	mg/L	0.0030 - 0.0060	0.225	0.122	0.006	-	0.0326	0.028	0.0319	0.0261
Total Antimony (Sb)	mg/L	0.00050 - 0.0010	<0.00050	<0.0010	<0.00050	-	<0.0010	<0.0010	<0.00050	<0.00050
Total Arsenic (As)	mg/L	0.00010 - 0.00020	0.00061	0.00108	0.00061	-	0.00074	0.00075	0.00294	0.00231
Total Barium (Ba)	mg/L	0.0010 - 0.0020	0.0123	0.0122	0.0132	-	0.0106	0.0108	0.0136	0.013
Total Beryllium (Be)	mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00010	-	<0.00020	<0.00020	<0.00010	<0.00010
Total Bismuth (Bi)	mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0010	-	<0.0020	<0.0020	<0.0010	<0.0010
Total Boron (B)	mg/L	0.050 - 0.10	0.177	0.72	0.781	-	0.69	0.69	0.264	0.247
Total Cadmium (Cd)	mg/L	0.000010 - 0.000020	0.000028	<0.000020	<0.000010	-	<0.000020	<0.000020	<0.000010	<0.000010
Total Calcium (Ca)	mg/L	0.050 - 0.10	67.7	270	251	-	264	-	115	102
Total Chromium (Cr)	mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0010	-	<0.0020	<0.0020	<0.0010	<0.0010
Total Cobalt (Co)	mg/L	0.00020 - 0.00040	0.00452	0.0015	0.0018	-	0.00173	0.00176	<0.00020	<0.00020
Total Copper (Cu)	mg/L	0.00050 - 0.0010	0.00277	0.0011	<0.00050	-	<0.0010	<0.0010	<0.00050	0.00053
Total Iron (Fe)	mg/L	0.010 - 0.020	0.315	0.425	0.265	-	0.339	0.342	0.089	0.056
Total Lead (Pb)	mg/L	0.00020 - 0.00040	<0.00020	<0.00040	<0.00020	-	<0.00040	<0.00040	<0.00020	<0.00020
Total Lithium (Li)	mg/L	0.0020 - 0.0040	0.0036	0.0106	0.0114	-	0.0123	0.0122	0.0105	0.0093
Total Magnesium (Mg)	mg/L	0.050 - 0.10	7.04	28.5	27.4	-	28.6	-	12.7	11.1
Total Manganese (Mn)	mg/L	0.0010 - 0.0020	0.101	0.282	0.21	-	0.243	0.238	0.0335	0.0263
Total Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	-	<0.0000019	<0.0000019
Total Molybdenum (Mo)	mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0010	-	<0.0020	<0.0020	<0.0010	<0.0010
Total Nickel (Ni)	mg/L	0.0010 - 0.0020	0.0095	0.0033	0.0022	-	0.0033	0.0034	<0.0010	<0.0010
Total Potassium (K)	mg/L	0.050 - 0.10	0.996	3.64	3.71	-	3.74	-	1.32	1.13
Total Selenium (Se)	mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00010	-	<0.00020	<0.00020	<0.00010	<0.00010
Total Silicon (Si)	mg/L	0.10 - 0.20	1.27	3.03	3.11	-	3.09	3.07	1.69	1.41
Total Silver (Ag)	mg/L	0.000020 - 0.000040	<0.000020	<0.000040	<0.000020	-	<0.000040	<0.000040	<0.000020	<0.000020
Total Sodium (Na)	mg/L	0.050 - 0.10	39.4	235	227	-	216	-	48.2	39.3
Total Strontium (Sr)	mg/L	0.0010 - 0.0020	0.41	1.83	2.04	-	1.94	1.91	0.849	0.804
Total Sulphur (S)	mg/L	3.0 - 6.0	74.5	335	327	-	331	-	104	90.1
Total Thallium (Tl)	mg/L	0.000010 - 0.000020	<0.000010	<0.000020	<0.000010	-	<0.000020	<0.000020	<0.000010	<0.000010
Total Tin (Sn)	mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.0050	-	<0.010	<0.010	<0.0050	<0.0050
Total Titanium (Ti)	mg/L	0.0050 - 0.010	0.0174	<0.010	<0.0050	-	<0.010	<0.010	<0.0050	<0.0050
Total Uranium (U)	mg/L	0.00010 - 0.00020	<0.00010	<0.00020	0.00018	-	<0.00020	<0.00020	0.00023	0.00022
Total Vanadium (V)	mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.0050	-	<0.010	<0.010	<0.0050	<0.0050
Total Zinc (Zn)	mg/L	0.0050 - 0.010	0.0086	<0.010	<0.0050	-	<0.010	<0.010	<0.0050	<0.0050
Total Zirconium (Zr)	mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00010	-	<0.00020	<0.00020	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 23 - Within Mine -Tot Metals

Total Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	2S-1MAR21-R C113684 / ZK4959 2021-03-01	2SC-4JAN21-M C100809 / ZC9636 2021-01-04	2SC-1FEB21-M C106913 / ZG3163 2021-02-01	2SC-1MAR21-M C113684 / ZK4960 2021-03-01	2Si-4JAN21-M C100809 / ZC9634 2021-01-04	2Si-1FEB21-M C106913 / ZG3161 2021-02-01	2Si-1MAR21-M C113684 / ZK4954 2021-03-01	2SS-4JAN21-M C100809 / ZC9635 2021-01-04
Total Hardness (CaCO3)	mg/L	0.50	306	540	757	728	243	378	349	265
Total Aluminum (Al)	mg/L	0.0030 - 0.0060	0.0267	0.017	0.0065	0.0036	0.0569	0.0115	0.0162	0.0717
Total Antimony (Sb)	mg/L	0.00050 - 0.0010	<0.00050	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Arsenic (As)	mg/L	0.00010 - 0.00020	0.00231	0.00157	0.00031	0.00041	0.00016	0.00013	0.00018	0.00015
Total Barium (Ba)	mg/L	0.0010 - 0.0020	0.0132	0.0135	0.0122	0.013	0.0148	0.0196	0.0194	0.0147
Total Beryllium (Be)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Bismuth (Bi)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Boron (B)	mg/L	0.050 - 0.10	0.253	0.245	0.28	0.277	0.157	0.324	0.324	0.202
Total Cadmium (Cd)	mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Calcium (Ca)	mg/L	0.050 - 0.10	104	181	253	244	82.8	133	124	91.4
Total Chromium (Cr)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Cobalt (Co)	mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00040	<0.00020	0.00034	<0.00020	<0.00020	<0.00020
Total Copper (Cu)	mg/L	0.00050 - 0.0010	<0.00050	<0.00050	<0.0010	<0.00050	0.00072	<0.00050	<0.00050	0.00089
Total Iron (Fe)	mg/L	0.010 - 0.020	0.059	0.091	0.022	0.018	0.152	0.1	0.094	0.128
Total Lead (Pb)	mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Total Lithium (Li)	mg/L	0.0020 - 0.0040	0.0096	0.009	0.0075	0.0073	0.003	0.0068	0.0067	0.0034
Total Magnesium (Mg)	mg/L	0.050 - 0.10	11.3	21.4	30.6	28.7	8.71	11	9.71	8.89
Total Manganese (Mn)	mg/L	0.0010 - 0.0020	0.0272	0.0601	0.0066	0.0065	0.0443	0.0786	0.0395	0.0087
Total Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	-	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Total Molybdenum (Mo)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Nickel (Ni)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0020	<0.0010	0.0012	<0.0010	<0.0010	<0.0010
Total Potassium (K)	mg/L	0.050 - 0.10	1.15	1.57	2.01	1.84	0.64	0.964	0.87	0.77
Total Selenium (Se)	mg/L	0.00010 - 0.00020	<0.00010	0.00022	<0.00020	0.00023	<0.00010	<0.00010	<0.00010	<0.00010
Total Silicon (Si)	mg/L	0.10 - 0.20	1.42	2.26	2.33	2.38	3.76	3.66	3.49	3.17
Total Silver (Ag)	mg/L	0.000020 - 0.000040	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Total Sodium (Na)	mg/L	0.050 - 0.10	40.5	37	32.5	30.1	24.2	56.1	52.7	34.4
Total Strontium (Sr)	mg/L	0.0010 - 0.0020	0.808	1.15	1.41	1.48	0.595	1.06	1.08	0.71
Total Sulphur (S)	mg/L	3.0 - 6.0	96.8	163	220	218	71.7	115	112	80.3
Total Thallium (Tl)	mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Tin (Sn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Titanium (Ti)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Uranium (U)	mg/L	0.00010 - 0.00020	0.00022	0.00018	<0.00020	0.0002	<0.00010	<0.00010	<0.00010	<0.00010
Total Vanadium (V)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Zinc (Zn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Zirconium (Zr)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 23 - Within Mine -Tot Metals

Total Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	3M2N-9FEB21-M C109213 / ZH7946 2021-02-09	3S-4JAN21-M C100809 / ZC9637 2021-01-04	3S-1MAR21-M C113684 / ZK4961 2021-03-01	7S-4JAN21-M C100809 / ZC9643 2021-01-04	7S-1FEB21-M C106913 / ZG3167 2021-02-01	7S-1MAR21-M C113684 / ZK4966 2021-03-01	7SP5-4JAN21-M C100809 / ZC9641 2021-01-04	7SP5-1FEB21-M C106913 / ZG3168 2021-02-01
Total Hardness (CaCO3)	mg/L	0.50	338	541	656	11.4	13.2	13.5	98.4	193
Total Aluminum (Al)	mg/L	0.0030 - 0.0060	0.0136	0.0502	0.0101	0.112	0.0385	0.0285	4.1	0.418
Total Antimony (Sb)	mg/L	0.00050 - 0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Arsenic (As)	mg/L	0.00010 - 0.00020	0.00049	0.00124	0.00044	0.00014	<0.00010	<0.00010	0.00944	0.0016
Total Barium (Ba)	mg/L	0.0010 - 0.0020	0.0129	0.0138	0.0126	0.0015	0.0014	0.0011	0.0239	0.0109
Total Beryllium (Be)	mg/L	0.00010 - 0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Bismuth (Bi)	mg/L	0.0010 - 0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Boron (B)	mg/L	0.050 - 0.10	0.77	0.239	0.267	<0.050	<0.050	<0.050	<0.050	<0.050
Total Cadmium (Cd)	mg/L	0.000010 - 0.000020	0.000028	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.00005	0.000023
Total Calcium (Ca)	mg/L	0.050 - 0.10	109	182	218	3.28	3.74	3.9	26.8	56.2
Total Chromium (Cr)	mg/L	0.0010 - 0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.006	0.0011
Total Cobalt (Co)	mg/L	0.00020 - 0.00040	0.0007	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00727	0.00405
Total Copper (Cu)	mg/L	0.00050 - 0.0010	0.0021	<0.00050	<0.00050	0.00052	<0.00050	<0.00050	0.0221	0.00599
Total Iron (Fe)	mg/L	0.010 - 0.020	0.202	0.106	0.023	0.052	<0.010	<0.010	10.2	4.88
Total Lead (Pb)	mg/L	0.00020 - 0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00078	<0.00020
Total Lithium (Li)	mg/L	0.0020 - 0.0040	0.0154	0.0089	0.0064	<0.0020	<0.0020	<0.0020	0.0024	<0.0020
Total Magnesium (Mg)	mg/L	0.050 - 0.10	15.7	20.8	26.9	0.776	0.932	0.921	7.68	12.7
Total Manganese (Mn)	mg/L	0.0010 - 0.0020	0.136	0.0366	0.0078	0.001	<0.0010	<0.0010	0.212	0.163
Total Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019	0.0000028	<0.0000019	<0.0000019	<0.0000019	0.0000066
Total Molybdenum (Mo)	mg/L	0.0010 - 0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Nickel (Ni)	mg/L	0.0010 - 0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0127	0.0079
Total Potassium (K)	mg/L	0.050 - 0.10	3.21	1.6	1.82	0.104	0.079	0.072	0.663	0.659
Total Selenium (Se)	mg/L	0.00010 - 0.00020	<0.00020	0.00017	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Silicon (Si)	mg/L	0.10 - 0.20	2.87	2.27	2	3.75	3.73	4.01	7.79	4.97
Total Silver (Ag)	mg/L	0.000020 - 0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Total Sodium (Na)	mg/L	0.050 - 0.10	304	37.7	31.3	1.25	1.44	1.47	1.73	3.57
Total Strontium (Sr)	mg/L	0.0010 - 0.0020	1.14	1.13	1.38	0.0135	0.0156	0.0157	0.0952	0.183
Total Sulphur (S)	mg/L	3.0 - 6.0	223	162	196	<3.0	<3.0	<3.0	26.6	47.5
Total Thallium (Tl)	mg/L	0.000010 - 0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000022	<0.000010
Total Tin (Sn)	mg/L	0.0050 - 0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Titanium (Ti)	mg/L	0.0050 - 0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.236	0.0115
Total Uranium (U)	mg/L	0.00010 - 0.00020	<0.00020	0.00018	0.00018	<0.00010	<0.00010	<0.00010	0.00012	0.00013
Total Vanadium (V)	mg/L	0.0050 - 0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0142	<0.0050
Total Zinc (Zn)	mg/L	0.0050 - 0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.026	0.0157
Total Zirconium (Zr)	mg/L	0.00010 - 0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00089	0.0001
Legend										
To Be Announced		TBA								
Exceeds one Criteria		Result								
Exceeds two Criteria		Result								
DL > Criteria		Result								

Table 23 - Within Mine -Tot Metals

Total Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	7SP5-1MAR21-M C113684 / ZK4965 2021-03-01	7SSD-4JAN21-P C100809 / ZC9642 2021-01-04	BCREFF-4JAN21-M C100809 / ZC9631 2021-01-04	BCREFF-4JAN21-M Lab-Dup C100809 / ZC9631 2021-01-04	BCREFF-1FEB21-M C106913 / ZG3169 2021-02-01	BCREFF-1MAR21-M C113684 / ZK4955 2021-03-01	INF-4JAN21-M C100809 / ZC9633 2021-01-04	INF-1FEB21-M C106913 / ZG3171 2021-02-01
Total Hardness (CaCO3)	mg/L	0.50	227	83.9	602	-	556	572	617	578
Total Aluminium (Al)	mg/L	0.0030 - 0.0060	0.194	0.217	0.0059	0.0057	0.0051	0.0048	0.0126	0.0053
Total Antimony (Sb)	mg/L	0.00050 - 0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Arsenic (As)	mg/L	0.00010 - 0.00020	0.00171	0.00095	0.00016	0.00015	<0.00010	<0.00010	0.00496	0.0033
Total Barium (Ba)	mg/L	0.0010 - 0.0020	0.0143	0.0055	0.0272	0.0274	0.0254	0.0263	0.0218	0.0208
Total Beryllium (Be)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Bismuth (Bi)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Boron (B)	mg/L	0.050 - 0.10	0.068	<0.050	0.521	0.531	0.588	0.645	0.579	0.657
Total Cadmium (Cd)	mg/L	0.000010 - 0.000020	0.000024	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Calcium (Ca)	mg/L	0.050 - 0.10	65.6	23.5	218	-	201	208	225	209
Total Chromium (Cr)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Cobalt (Co)	mg/L	0.00020 - 0.00040	0.00355	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00171	0.00098
Total Copper (Cu)	mg/L	0.00050 - 0.0010	0.0034	0.00102	<0.00050	<0.00050	<0.00050	<0.00050	0.00071	<0.00050
Total Iron (Fe)	mg/L	0.010 - 0.020	3.97	0.274	0.011	0.011	<0.010	<0.010	4.15	3.15
Total Lead (Pb)	mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Total Lithium (Li)	mg/L	0.0020 - 0.0040	<0.0020	<0.0020	0.0153	0.0154	0.0152	0.0149	0.0199	0.0198
Total Magnesium (Mg)	mg/L	0.050 - 0.10	15.3	6.15	14.3	-	13.3	12.7	13.7	13.4
Total Manganese (Mn)	mg/L	0.0010 - 0.0020	0.152	0.041	0.271	0.264	0.237	0.238	0.435	0.341
Total Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019	-	<0.000019	<0.0000019	<0.0000019	<0.0000019
Total Molybdenum (Mo)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Nickel (Ni)	mg/L	0.0010 - 0.0020	0.0069	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0026	0.0016
Total Potassium (K)	mg/L	0.050 - 0.10	0.767	0.324	1.78	-	1.65	1.54	1.71	1.68
Total Selenium (Se)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Silicon (Si)	mg/L	0.10 - 0.20	4.43	3.12	3.5	3.48	3.48	3.27	3.7	3.26
Total Silver (Ag)	mg/L	0.000020 - 0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Total Sodium (Na)	mg/L	0.050 - 0.10	4.79	2.53	101	-	101	104	102	110
Total Strontium (Sr)	mg/L	0.0010 - 0.0020	0.234	0.0845	2.05	2.1	1.94	2.04	2.08	2.04
Total Sulphur (S)	mg/L	3.0 - 6.0	58.4	<3.0	191	-	180	180	201	194
Total Thallium (Tl)	mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Tin (Sn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Titanium (Ti)	mg/L	0.0050 - 0.010	<0.0050	0.0139	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Uranium (U)	mg/L	0.00010 - 0.00020	0.00016	0.00014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Vanadium (V)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Zinc (Zn)	mg/L	0.0050 - 0.010	0.0152	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Zirconium (Zr)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 23 - Within Mine -Tot Metals

Total Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	INF-1MAR21-M C113684 / ZK4957 2021-03-01	LLE-4JAN21-M C100809 / ZC9638 2021-01-04	LLE-1FEB21-M C106913 / ZG3166 2021-02-01	LLE-1MAR21-M C113684 / ZK4962 2021-03-01	LLS-4JAN21-M C100809 / ZC9639 2021-01-04	LLS-1FEB21-M C106913 / ZG3172 2021-02-01	LLS-1MAR21-M C113684 / ZK4963 2021-03-01	LLSM-4JAN21-M C100809 / ZC9640 2021-01-04
Total Hardness (CaCO3)	mg/L	0.50	609	72.1	79.4	118	442	696	697	351
Total Aluminum (Al)	mg/L	0.0030 - 0.0060	0.0031	0.11	0.0873	0.0623	0.103	0.0048	0.0031	0.264
Total Antimony (Sb)	mg/L	0.00050 - 0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Arsenic (As)	mg/L	0.00010 - 0.00020	0.00373	0.00024	0.00056	0.00041	0.00257	0.00545	0.0055	0.00159
Total Barium (Ba)	mg/L	0.0010 - 0.0020	0.0222	0.0057	0.0066	0.0087	0.017	0.0189	0.0188	0.0174
Total Beryllium (Be)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Bismuth (Bi)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Boron (B)	mg/L	0.050 - 0.10	0.666	<0.050	<0.050	0.073	0.364	0.548	0.611	0.277
Total Cadmium (Cd)	mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Calcium (Ca)	mg/L	0.050 - 0.10	221	23.5	25.3	38.2	153	242	245	119
Total Chromium (Cr)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Cobalt (Co)	mg/L	0.00020 - 0.00040	0.0067	0.00020	<0.00020	<0.00020	0.00148	0.0013	0.00158	0.00118
Total Copper (Cu)	mg/L	0.00050 - 0.0010	<0.00050	0.00052	<0.00050	<0.00050	0.00146	<0.00050	0.00096	0.00254
Total Iron (Fe)	mg/L	0.010 - 0.020	3.28	0.167	0.352	0.242	1.38	2.3	2.46	1.41
Total Lead (Pb)	mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Total Lithium (Li)	mg/L	0.0020 - 0.0040	0.0193	<0.0020	<0.0020	<0.0020	0.0153	0.02	0.0217	0.0103
Total Magnesium (Mg)	mg/L	0.050 - 0.10	13.8	3.26	3.94	5.39	14.3	22.6	20.5	12.8
Total Manganese (Mn)	mg/L	0.0010 - 0.0020	0.349	0.0086	0.039	0.0219	0.187	0.529	0.511	0.0692
Total Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	0.0000023	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Total Molybdenum (Mo)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Nickel (Ni)	mg/L	0.0010 - 0.0020	0.0011	<0.0010	<0.0010	<0.0010	0.0042	0.0031	0.0033	0.0031
Total Potassium (K)	mg/L	0.050 - 0.10	1.69	0.361	0.357	0.432	1.81	2.65	2.27	1.61
Total Selenium (Se)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Silicon (Si)	mg/L	0.10 - 0.20	3.26	2.96	3.05	2.76	2.91	3.1	2.89	2.73
Total Silver (Ag)	mg/L	0.000020 - 0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Total Sodium (Na)	mg/L	0.050 - 0.10	108	5.46	7.42	9.29	54	103	95.6	41.8
Total Strontium (Sr)	mg/L	0.0010 - 0.0020	2.23	0.133	0.151	0.221	1.34	2.31	2.37	1.04
Total Sulphur (S)	mg/L	3.0 - 6.0	208	20.2	23.9	34.4	144	249	232	112
Total Thallium (Tl)	mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Tin (Sn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Titanium (Ti)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Uranium (U)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Vanadium (V)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Zinc (Zn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Zirconium (Zr)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Legend										
To Be Announced		TBA								
Exceeds one Criteria		Result								
Exceeds two Criteria		Result								
DL > Criteria		Result								

Table 23 - Within Mine -Tot Metals

Total Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	LLSM-11JAN21-M C102299 / ZD7258 2021-01-11	LLSM-1FEB21-M C106913 / ZG3173 2021-02-01	LLSM-1MAR21-M C113684 / ZK4964 2021-03-01	PDSR-4JAN21-M C100809 / ZC9628 2021-01-04	PDSR-1FEB21-M C106913 / ZG3158 2021-02-01	PDSR-1MAR21-M C113684 / ZK4951 2021-03-01	PDSR-1MAR21-M Lab-Dup C113684 / ZK4951 2021-03-01	SPC-1FEB21-M C106913 / ZG3160 2021-02-01
Total Hardness (CaCO3)	mg/L	0.50	490	578	508	254	499	564	-	71.7
Total Aluminum (Al)	mg/L	0.0030 - 0.0060	0.029	0.0074	0.029	0.0142	0.0247	0.0108	0.0101	0.0631
Total Antimony (Sb)	mg/L	0.00050 - 0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Arsenic (As)	mg/L	0.00010 - 0.00020	0.00043	0.00127	0.0013	<0.00010	<0.00010	0.00011	0.0001	0.00024
Total Barium (Ba)	mg/L	0.0010 - 0.0020	0.0207	0.0176	0.0172	0.0077	0.013	0.0158	0.0156	0.0049
Total Beryllium (Be)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Bismuth (Bi)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Boron (B)	mg/L	0.050 - 0.10	0.383	0.464	0.441	0.13	0.182	0.187	0.197	<0.050
Total Cadmium (Cd)	mg/L	0.000010 - 0.000020	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Calcium (Ca)	mg/L	0.050 - 0.10	170	202	176	78.5	157	177	-	23.1
Total Chromium (Cr)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Cobalt (Co)	mg/L	0.00020 - 0.00040	0.0007	0.0007	0.00112	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Total Copper (Cu)	mg/L	0.00050 - 0.0010	0.00058	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Iron (Fe)	mg/L	0.010 - 0.020	0.254	0.635	0.685	<0.010	0.018	<0.010	<0.010	0.102
Total Lead (Pb)	mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Total Lithium (Li)	mg/L	0.0020 - 0.0040	0.017	0.0168	0.015	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Total Magnesium (Mg)	mg/L	0.050 - 0.10	16.1	17.6	16.6	14	26.1	29.3	-	3.39
Total Manganese (Mn)	mg/L	0.0010 - 0.0020	0.0782	0.188	0.198	<0.0010	<0.0010	<0.0010	<0.0010	0.0026
Total Mercury (Hg)	mg/L	0.0000019 - 0.000019	-	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	-	<0.0000019
Total Molybdenum (Mo)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Nickel (Ni)	mg/L	0.0010 - 0.0020	0.0027	0.0027	0.0031	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Potassium (K)	mg/L	0.050 - 0.10	1.98	2.02	1.89	0.751	0.997	1.07	-	0.317
Total Selenium (Se)	mg/L	0.00010 - 0.00020	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Silicon (Si)	mg/L	0.10 - 0.20	2.39	2.77	2.48	3.12	3.28	3.46	3.46	2.94
Total Silver (Ag)	mg/L	0.000020 - 0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Total Sodium (Na)	mg/L	0.050 - 0.10	65.8	78.6	70	23.4	37.7	41.3	-	6.73
Total Strontium (Sr)	mg/L	0.0010 - 0.0020	1.52	1.8	1.67	0.474	0.958	1.2	1.18	0.136
Total Sulphur (S)	mg/L	3.0 - 6.0	154	184	168	72.2	147	179	-	20.4
Total Thallium (Tl)	mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Total Tin (Sn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Titanium (Ti)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Uranium (U)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	0.00025	0.00029	0.00028	<0.00010
Total Vanadium (V)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Zinc (Zn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Zirconium (Zr)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 23 - Within Mine -Tot Metals

Total Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	SPC-1MAR21-M C113684 / ZK4952 2021-03-01	SPCEFF-4JAN21-M C100809 / ZC9632 2021-01-04	SPCEFF-1FEB21-M C106913 / ZG3170 2021-02-01	SPCEFF-1MAR21-M C113684 / ZK4956 2021-03-01	SPCEFF-1MAR21-M Lab-Dup C113684 / ZK4956 2021-03-01	TDF-4JAN21-M C100809 / ZC9644 2021-01-04	TRIPBLANK-8FEB21-B C108734 / ZH5526 2021-02-08	WC-1FEB21-M C106913 / ZG3155 2021-02-01
Total Hardness (CaCO3)	mg/L	0.50	112	541	598	519	-	1020	<0.50	521
Total Aluminum (Al)	mg/L	0.0030 - 0.0060	0.0453	0.0069	0.0049	0.0119	-	<0.0060	<0.0030	0.0149
Total Antimony (Sb)	mg/L	0.00050 - 0.0010	<0.00050	<0.00050	<0.00050	<0.00050	-	<0.0010	<0.00050	<0.00050
Total Arsenic (As)	mg/L	0.00010 - 0.00020	0.00026	0.00105	0.00041	0.00125	-	<0.00020	<0.00010	0.00033
Total Barium (Ba)	mg/L	0.0010 - 0.0020	0.0068	0.0312	0.0278	0.0311	-	0.014	<0.0010	0.0137
Total Beryllium (Be)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	-	<0.00020	<0.00010	<0.00010
Total Bismuth (Bi)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	-	<0.0020	<0.0010	<0.0010
Total Boron (B)	mg/L	0.050 - 0.10	0.064	0.481	0.607	0.569	-	0.58	<0.050	0.564
Total Cadmium (Cd)	mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	-	<0.000020	<0.000010	<0.000010
Total Calcium (Ca)	mg/L	0.050 - 0.10	36.6	195	216	188	-	354	<0.050	175
Total Chromium (Cr)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	-	<0.0020	<0.0010	<0.0010
Total Cobalt (Co)	mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00020	0.0003	-	<0.00040	<0.00020	<0.00020
Total Copper (Cu)	mg/L	0.00050 - 0.0010	<0.00050	0.00078	<0.00050	0.00599	-	<0.0010	<0.00050	<0.00050
Total Iron (Fe)	mg/L	0.010 - 0.020	0.064	0.772	0.271	0.449	-	<0.020	<0.010	0.033
Total Lead (Pb)	mg/L	0.00020 - 0.00040	<0.00020	<0.00020	<0.00020	<0.00020	-	<0.00040	<0.00020	<0.00020
Total Lithium (Li)	mg/L	0.0020 - 0.0040	<0.0020	0.0114	0.0152	0.01	-	0.0125	<0.0020	0.0096
Total Magnesium (Mg)	mg/L	0.050 - 0.10	5	13.2	13.9	12.2	-	33	<0.050	20.5
Total Manganese (Mn)	mg/L	0.0010 - 0.0020	0.0019	0.0991	0.236	0.0858	-	<0.0020	<0.0010	0.0109
Total Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Total Molybdenum (Mo)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	-	<0.0020	<0.0010	<0.0010
Total Nickel (Ni)	mg/L	0.0010 - 0.0020	<0.0010	<0.0010	<0.0010	<0.0010	-	<0.0020	<0.0010	<0.0010
Total Potassium (K)	mg/L	0.050 - 0.10	0.41	1.52	1.71	1.41	-	3.88	<0.050	2.94
Total Selenium (Se)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	-	<0.00020	<0.00010	<0.00010
Total Silicon (Si)	mg/L	0.10 - 0.20	2.7	3.27	3.71	3.31	-	3.51	<0.10	2.95
Total Silver (Ag)	mg/L	0.000020 - 0.000040	<0.000020	<0.000020	<0.000020	<0.000020	-	<0.000040	<0.000020	<0.000020
Total Sodium (Na)	mg/L	0.050 - 0.10	8.56	92.9	104	93.3	-	150	<0.050	209
Total Strontium (Sr)	mg/L	0.0010 - 0.0020	0.217	1.9	2.02	1.85	-	2.46	<0.0010	1.34
Total Sulphur (S)	mg/L	3.0 - 6.0	31.8	173	182	151	-	386	<3.0	244
Total Thallium (Tl)	mg/L	0.000010 - 0.000020	<0.000010	<0.000010	<0.000010	<0.000010	-	<0.000020	<0.000010	<0.000010
Total Tin (Sn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.010	<0.0050	<0.0050
Total Titanium (Ti)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.010	<0.0050	<0.0050
Total Uranium (U)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	-	<0.00020	<0.00010	<0.00010
Total Vanadium (V)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.010	<0.0050	<0.0050
Total Zinc (Zn)	mg/L	0.0050 - 0.010	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.010	<0.0050	<0.0050
Total Zirconium (Zr)	mg/L	0.00010 - 0.00020	<0.00010	<0.00010	<0.00010	<0.00010	-	<0.00020	<0.00010	<0.00010
Legend										
To Be Announced	TBA									
Exceeds one Criteria	Result									
Exceeds two Criteria	Result									
DL > Criteria	Result									

Table 23 - Within Mine -Tot Metals

Total Metals - Water

Sample ID										
BV Labs Job ID / Sample ID										
Sample Collection Date										
Sample Collection Time										
Parameter	Units	RDL	WC-1MAR21-M C113684 / ZK4948 2021-03-01	WC-15MAR21-M C116949 / ZM3646 2021-03-15	WC-15MAR21-M Lab-Dup C116949 / ZM3646 2021-03-15	WC-22MAR21-M C118890 / ZN3528 2021-03-22	WP-4JAN21-M C100809 / ZC9626 2021-01-04	WP-4JAN21-M Lab-Dup C100809 / ZC9626 2021-01-04	WP-1FEB21-M C106913 / ZG3156 2021-02-01	WP-1MAR21-M C113684 / ZK4949 2021-03-01
Total Hardness (CaCO3)	mg/L	0.50	439	540	-	620	463	-	606	380
Total Aluminum (Al)	mg/L	0.0030 - 0.0060	0.0106	<0.0060	0.0067	<0.0060	0.245	-	0.0521	0.0526
Total Antimony (Sb)	mg/L	0.00050 - 0.0010	<0.00050	<0.0010	<0.0010	<0.0010	<0.00050	-	<0.00050	<0.00050
Total Arsenic (As)	mg/L	0.00010 - 0.00020	0.00033	0.00027	0.00029	<0.00020	0.00079	-	0.00054	0.00034
Total Barium (Ba)	mg/L	0.0010 - 0.0020	0.0138	0.0153	0.0155	0.0188	0.0145	-	0.013	0.0122
Total Beryllium (Be)	mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	-	<0.00010	<0.00010
Total Bismuth (Bi)	mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	-	<0.0010	<0.0010
Total Boron (B)	mg/L	0.050 - 0.10	0.628	0.81	0.81	1.02	0.192	-	0.631	0.5
Total Cadmium (Cd)	mg/L	0.000010 - 0.000020	0.00001	<0.000020	<0.000020	<0.000020	0.00003	-	<0.000010	<0.000010
Total Calcium (Ca)	mg/L	0.050 - 0.10	148	180	-	200	158	-	204	124
Total Chromium (Cr)	mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	-	<0.0010	<0.0010
Total Cobalt (Co)	mg/L	0.00020 - 0.00040	0.00074	0.00308	0.00313	0.0384	0.00177	-	0.00074	0.00074
Total Copper (Cu)	mg/L	0.00050 - 0.0010	0.00075	<0.0010	<0.0010	<0.0010	0.00356	-	0.00061	0.0011
Total Iron (Fe)	mg/L	0.010 - 0.020	0.093	0.113	0.111	0.677	0.461	-	0.154	0.233
Total Lead (Pb)	mg/L	0.00020 - 0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	-	<0.00020	<0.00020
Total Lithium (Li)	mg/L	0.0020 - 0.0040	0.01	0.0137	0.0137	0.0167	0.0036	-	0.0113	0.0077
Total Magnesium (Mg)	mg/L	0.050 - 0.10	17.1	22.1	-	29.1	16.6	-	23.6	17.2
Total Manganese (Mn)	mg/L	0.0010 - 0.0020	0.0553	0.157	0.159	1.74	0.0756	-	0.125	0.0489
Total Mercury (Hg)	mg/L	0.0000019 - 0.000019	<0.0000019	<0.0000019	<0.0000019	-	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Total Molybdenum (Mo)	mg/L	0.0010 - 0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	-	<0.0010	<0.0010
Total Nickel (Ni)	mg/L	0.0010 - 0.0020	0.0102	0.0215	0.0224	0.0722	0.0066	-	0.0024	0.0029
Total Potassium (K)	mg/L	0.050 - 0.10	2.7	3.45	-	4.09	1.23	-	3.52	2.18
Total Selenium (Se)	mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00020	<0.00020	0.00031	-	<0.00010	0.0001
Total Silicon (Si)	mg/L	0.10 - 0.20	2.93	2.93	2.95	3.21	2.43	-	2.96	2.09
Total Silver (Ag)	mg/L	0.000020 - 0.000040	<0.000020	<0.000040	<0.000040	<0.000040	<0.000020	-	<0.000020	<0.000020
Total Sodium (Na)	mg/L	0.050 - 0.10	227	300	-	412	37	-	244	175
Total Strontium (Sr)	mg/L	0.0010 - 0.0020	1.3	1.58	1.54	1.89	0.747	-	1.62	1.05
Total Sulphur (S)	mg/L	3.0 - 6.0	232	291	-	406	150	-	283	181
Total Thallium (Tl)	mg/L	0.000010 - 0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	-	<0.000010	<0.000010
Total Tin (Sn)	mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.010	<0.010	<0.0050	-	<0.0050	<0.0050
Total Titanium (Ti)	mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.010	<0.010	0.0114	-	<0.0050	<0.0050
Total Uranium (U)	mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	-	0.00011	0.00013
Total Vanadium (V)	mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.010	<0.010	<0.0050	-	<0.0050	<0.0050
Total Zinc (Zn)	mg/L	0.0050 - 0.010	<0.0050	<0.010	<0.010	<0.010	0.0061	-	<0.0050	<0.0050
Total Zirconium (Zr)	mg/L	0.00010 - 0.00020	<0.00010	<0.00020	<0.00020	<0.00020	0.0001	-	<0.00010	<0.00010
Legend										
To Be Announced		TBA								
Exceeds one Criteria		Result								
Exceeds two Criteria		Result								
DL > Criteria		Result								

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	2NPS-4JAN21-M C100809 / ZC9627 2021-01-04	2NPS-1FEB21-M C106913 / ZG3157 2021-02-01	2NPS-1MAR21-M C113684 / ZK4950 2021-03-01	2NPS-24MAR21-M C119480 / ZN5813 2021-03-24	2S-1FEB21-M C106913 / ZG3162 2021-02-01	2S-1MAR21-M C113684 / ZK4958 2021-03-01
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	1.9	8.8	15.5	9.1	<1.0	1.2
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	-	-	-	-	-
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	-	-	-	-	-
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	2S-1MAR21-R C113684 / ZK4959 2021-03-01	2SC-4JAN21-M C100809 / ZC9636 2021-01-04	2SC-1FEB21-M C106913 / ZG3163 2021-02-01	2SC-1MAR21-M C113684 / ZK4960 2021-03-01	2SC-1MAR21-M Lab-Dup C113684 / ZK4960 2021-03-01	2SI-4JAN21-M C100809 / ZC9634 2021-01-04
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	1.1	7.4	<1.0	3.7	3.2	4.6
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	-	-	-	-	<0.0018
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	-	-	-	-	<0.0020
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	2SI-1FEB21-M C106913 / ZG3161 2021-02-01	2SI-1MAR21-M C113684 / ZK4954 2021-03-01	2SS-4JAN21-M C100809 / ZC9635 2021-01-04	3M2N-9FEB21-M C109213 / ZH7946 2021-02-09	3S-4JAN21-M C100809 / ZC9637 2021-01-04	3S-4JAN21-M Lab-Dup C100809 / ZC9637 2021-01-04
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	<1.0	3.5	2.4	<1.0	4.8	5
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	0.0064	-	-	-	-
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	0.0069	-	-	-	-
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	3S-1FEB21-M C106913 / ZG3164 2021-02-01	3S-1FEB21-R C106913 / ZG3165 2021-02-01	3S-1MAR21-M C113684 / ZK4961 2021-03-01	7S-4JAN21-M C100809 / ZC9643 2021-01-04	7S-4JAN21-M Lab-Dup C100809 / ZC9643 2021-01-04	7S-1FEB21-M C106913 / ZG3167 2021-02-01
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	<1.0	<1.0	3.3	<1.0	<1.0	<1.0
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	-	-	-	-	-
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	-	-	-	-	-
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	7S-1MAR21-M C113684 / ZK4966 2021-03-01	7SPS-4JAN21-M C100809 / ZC9641 2021-01-04	7SPS-1FEB21-M C106913 / ZG3168 2021-02-01	7SPS-1MAR21-M C113684 / ZK4965 2021-03-01	7SSD-4JAN21-P C100809 / ZC9642 2021-01-04	BCREFF-4JAN21-M C100809 / ZC9631 2021-01-04
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	<1.0	4.6	2.7	4.1	1.3	24.8
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	-	0.064	-	0.979	-	<0.020
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	-	-	-	-	13
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	-	-	-	-	14
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	BCREFF-1FEB21-M C106913 / ZG3169 2021-02-01	BCREFF-1MAR21-M C113684 / ZK4955 2021-03-01	INF-4JAN21-M C100809 / ZC9633 2021-01-04	INF-1FEB21-M C106913 / ZG3171 2021-02-01	INF-1MAR21-M C113684 / ZK4957 2021-03-01	LLE-4JAN21-M C100809 / ZC9638 2021-01-04
Alkalinity (PP as CaCO3)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO3)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO3)	mg/L		-	-	-	-	-	-
Carbonate (CO3)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	12.6	19.5	19.5	9.5	17.6	<1.0
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO4)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	13	11	0.0027	<0.0018	0.0042	-
Sulphide (as H2S)	mg/L	0.0018 - 0.19	14	11	0.0029	<0.0020	0.0044	-
Total Sulphide (as H2S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	LLE-1FEB21-M C106913 / ZG3166 2021-02-01	LLE-1MAR21-M C113684 / ZK4962 2021-03-01	LLS-4JAN21-M C100809 / ZC9639 2021-01-04	LLS-1FEB21-M C106913 / ZG3172 2021-02-01	LLS-1MAR21-M C113684 / ZK4963 2021-03-01	LLSM-4JAN21-M C100809 / ZC9640 2021-01-04
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	<1.0	1.5	9.1	1.9	16.1	7.1
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	0.06	0.031	-	-	-	-
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	-	-	-	-	-
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	-	-	-	-	-
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	LLSM-11JAN21-M C102299 / ZD7258 2021-01-11	LLSM-1FEB21-M C106913 / ZG3173 2021-02-01	LLSM-1MAR21-M C113684 / ZK4964 2021-03-01	PDSR-4JAN21-M C100809 / ZC9628 2021-01-04	PDSR-1FEB21-M C106913 / ZG3158 2021-02-01	SPC-4JAN21-M C100809 / ZC9629 2021-01-04
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	2.6	<1.0	7.4	1.5	<1.0	1.2
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	-	-	-	-	-
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	-	-	-	-	-
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	SPC-1FEB21-M C106913 / ZG3160 2021-02-01	SPC-1MAR21-M C113684 / ZK4952 2021-03-01	SPCEFF-4JAN21-M C100809 / ZC9632 2021-01-04	SPCEFF-1FEB21-M C106913 / ZG3170 2021-02-01	SPCEFF-1MAR21-M C113684 / ZK4956 2021-03-01	TDF-4JAN21-M C100809 / ZC9644 2021-01-04
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	<1.0	<1.0	11.2	<1.0	4.6	7.2
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	-	-	<0.020	<0.020	<0.020	-
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	-	0.11	10	0.0051	-
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	-	0.11	11	0.0054	-
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 24 - Within Mine- Inorganic

Inorganic - Water

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	TRIPBLANK-8FEB21-B C108734 / ZH5526 2021-02-08	WC-15MAR21-M C116949 / ZM3646 2021-03-15	WC-22MAR21-M C118890 / ZN3528 2021-03-22	WP-4JAN21-M C100809 / ZC9626 2021-01-04	WP-1FEB21-M C106913 / ZG3156 2021-02-01	WP-1MAR21-M C113684 / ZK4949 2021-03-01
Alkalinity (PP as CaCO ₃)	mg/L		-	-	-	-	-	-
Alkalinity (Total as CaCO ₃)	mg/L		-	-	-	-	-	-
Bicarbonate (HCO ₃)	mg/L		-	-	-	-	-	-
Carbonate (CO ₃)	mg/L		-	-	-	-	-	-
Hydroxide (OH)	mg/L		-	-	-	-	-	-
Acidity (pH 4.5)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acidity (pH 8.3)	mg/L	1.0	<1.0	1.9	<1.0	5.1	<1.0	<1.0
Bromide (Br)	mg/L		-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L		-	-	-	-	-	-
Fluoride (F)	mg/L		-	-	-	-	-	-
Dissolved Sulphate (SO ₄)	mg/L		-	-	-	-	-	-
Biochemical Oxygen Demand	mg/L		-	-	-	-	-	-
Total Ammonia (N)	mg/L		-	-	-	-	-	-
Dissolved Nitrogen (N)	mg/L		-	-	-	-	-	-
Nitrate plus Nitrite (N)	mg/L	0.020	-	-	-	0.043	0.047	0.028
Dissolved Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Organic Carbon (C)	mg/L		-	-	-	-	-	-
Total Oil and grease	mg/L		-	-	-	-	-	-
Total Sulphide	mg/L	0.0018 - 0.18	-	-	-	-	-	-
Sulphide (as H ₂ S)	mg/L	0.0018 - 0.19	-	-	-	-	-	-
Total Sulphide (as H ₂ S)	mg/L		-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L		-	-	-	-	-	-
Total Phosphorus (P)	mg/L		-	-	-	-	-	-
Turbidity	NTU		-	-	-	-	-	-
Total Suspended Solids	mg/L		-	-	-	-	-	-

Legend

To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	2NPS-4JAN21-M C100809 / ZC9627 2021-01-04	2NPS-1FEB21-M C106913 / ZG3157 2021-02-01	2NPS-1MAR21-M C113684 / ZK4950 2021-03-01	2NPS-24MAR21-M C119480 / ZN5813 2021-03-24	2S-1FEB21-M C106913 / ZG3162 2021-02-01	2S-1MAR21-M C113684 / ZK4958 2021-03-01
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	220	950	970	1000	290	270
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	2.8	-	-
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	65	350	350	300	170	160
Bicarbonate (HCO3)	mg/L	1.0	79	420	420	370	210	190
Carbonate (CO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hydroxide (OH)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Filter and HNO3 Preservation	N/A		FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	-	-	-	2200	-	-
pH	pH		-	-	-	7.95	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	2.2	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	2S-1MAR21-R		2SC-4JAN21-M	2SC-1FEB21-M	2SC-1MAR21-M	2SC-1MAR21-M Lab-Dup	2SI-4JAN21-M
		C113684 / ZK4959		C100809 / ZC9636	C106913 / ZG3163	C113684 / ZK4960	C113684 / ZK4960	C100809 / ZC9634
		2021-03-01		2021-01-04	2021-02-01	2021-03-01	2021-03-01	2021-01-04
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	270	480	640	640	-	200
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	-	-	2.4
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	160	150	230	240	240	82
Bicarbonate (HCO3)	mg/L	1.0	200	180	290	290	290	100
Carbonate (CO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hydroxide (OH)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Filter and HNO3 Preservation	N/A		FIELD	FIELD	FIELD	FIELD	-	FIELD
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	-	-	-	-	-	-
pH	pH		-	-	-	-	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend		
To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	2SI-11JAN21-M C102299 / ZD7254 2021-01-11	2SI-18JAN21-M C103883 / ZE4653 2021-01-18	2SI-18JAN21-R C103883 / ZE4657 2021-01-18	2SI-25JAN21-M C105128 / ZF1929 2021-01-25	2SI-1FEB21-M C106913 / ZG3161 2021-02-01	2SI-8FEB21-M C108734 / ZH5520 2021-02-08
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	190	180	180	130	310	390
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	-	-	-
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	-	-	<1.0	-
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	-	-	180	-
Bicarbonate (HCO3)	mg/L	1.0	-	-	-	-	220	-
Carbonate (CO3)	mg/L	1.0	-	-	-	-	<1.0	-
Hydroxide (OH)	mg/L	1.0	-	-	-	-	<1.0	-
Filter and HNO3 Preservation	N/A		-	-	-	-	FIELD	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	570	500	500	420	-	1000
pH	pH		7.89	7.77	7.47	6.74	-	8.13
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-
Legend								
To Be Announced	TBA							
Exceeds one Criteria	Result							
Exceeds two Criteria	Result							
DL > Criteria	Result							

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	2SI-16FEB21-M		2SI-22FEB21-M	2SI-1MAR21-M	2SI-9MAR21-M	2SI-9MAR21-M Lab-Dup	2SI-15MAR21-M
		C110173 / ZI2246		C111961 / ZI4099	C113684 / ZK4954	C115474 / ZL5610	C115474 / ZL5610	C116951 / ZM3655
		2021-02-16		2021-02-22	2021-03-01	2021-03-09	2021-03-09	2021-03-15
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	390	310	330	360	330	350
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	1.6	-	-	-
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	<1.0	-	-	-
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	200	-	-	-
Bicarbonate (HCO3)	mg/L	1.0	-	-	250	-	-	-
Carbonate (CO3)	mg/L	1.0	-	-	<1.0	-	-	-
Hydroxide (OH)	mg/L	1.0	-	-	<1.0	-	-	-
Filter and HNO3 Preservation	N/A		-	-	FIELD	-	-	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	1100	860	-	930	-	-
pH	pH		8.1	7.87	-	8.19	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend		
To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	2SI-22MAR21-M C118894 / ZN3535 2021-03-22	2SS-4JAN21-M C100809 / ZC9635 2021-01-04	2SS-11JAN21-MM C102299 / ZD7256 2021-01-11	2SS-11JAN21-MM Lab-Dup C102299 / ZD7256 2021-01-11	3M2N-9FEB21-M C109213 / ZH7946 2021-02-09	3M2N-9FEB21-M Lab-Dup C109213 / ZH7946 2021-02-09
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	350	230	310	-	690	-
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	-	-	-
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	-	<1.0	-	-	<1.0	-
Alkalinity (Total as CaCO3)	mg/L	1.0	-	110	-	-	430	-
Bicarbonate (HCO3)	mg/L	1.0	-	130	-	-	530	-
Carbonate (CO3)	mg/L	1.0	-	<1.0	-	-	<1.0	-
Hydroxide (OH)	mg/L	1.0	-	<1.0	-	-	<1.0	-
Filter and HNO3 Preservation	N/A		-	FIELD	-	-	FIELD	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	0.76	-
Conductivity	uS/cm	2.0	990	-	890	890	-	-
pH	pH		8	-	7.38	-	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	0.069	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	3.6	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	0.15	-
Turbidity	NTU	0.10	-	-	-	-	1.6	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	<0.0030	<0.0030

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	3S-4JAN21-M C100809 / ZC9637 2021-01-04	3S-4JAN21-M Lab-Dup C100809 / ZC9637 2021-01-04	3S-11JAN21-M C102299 / ZD7257 2021-01-11	3S-1FEB21-M C106913 / ZG3164 2021-02-01	3S-1FEB21-R C106913 / ZG3165 2021-02-01	3S-1MAR21-M C113684 / ZK4961 2021-03-01
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	450	-	530	630	630	500
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	-	-	-
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	140	140	-	230	230	210
Bicarbonate (HCO3)	mg/L	1.0	170	170	-	290	280	250
Carbonate (CO3)	mg/L	1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Hydroxide (OH)	mg/L	1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Filter and HNO3 Preservation	N/A		FIELD	-	-	-	-	FIELD
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	-	-	1300	-	-	-
pH	pH		-	-	7.99	-	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	7S-4JAN21-M C100809 / ZC9643 2021-01-04	7S-1FEB21-M C106913 / ZG3167 2021-02-01	7S-1MAR21-M C113684 / ZK4966 2021-03-01	7SPS-4JAN21-M C100809 / ZC9641 2021-01-04	7SPS-1FEB21-M C106913 / ZG3168 2021-02-01	7SPS-1MAR21-M C113684 / ZK4965 2021-03-01
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	1.9	1.9	3.5	86	140	190
Total Suspended Solids	mg/L	1.0 - 4.2	<1.0	2	<1.0	150	18	12
Nitrite (N)	mg/L	0.0050	-	-	-	<0.0050	-	<0.0050
Nitrate (N)	mg/L	0.020	-	-	-	0.064	-	0.979
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	9.4	12	11	16	66	110
Bicarbonate (HCO3)	mg/L	1.0	11	14	13	19	81	130
Carbonate (CO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hydroxide (OH)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Filter and HNO3 Preservation	N/A		FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	0.02	-	<0.015
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	0.034	-	<0.0030
Dissolved Organic Carbon (C)	mg/L	0.50	3.2	1.9	1.4	-	-	-
Conductivity	uS/cm	2.0	-	-	-	-	-	-
pH	pH		-	-	-	-	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	7SSD-4JAN21-P C100809 / ZC9642 2021-01-04	BCREFF-4JAN21-M C100809 / ZC9631 2021-01-04	BCREFF-4JAN21-M Lab-Dup C100809 / ZC9631 2021-01-04	BCREFF-18JAN21-M C103883 / ZE4655 2021-01-18	BCREFF-25JAN21-M C105128 / ZF1930 2021-01-25	BCREFF-1FEB21-M C106913 / ZG3169 2021-02-01
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	4.5	590	-	450	470	520
Total Suspended Solids	mg/L	1.0 - 4.2	4.8	<1.0	-	-	-	4
Nitrite (N)	mg/L	0.0050	-	<0.0050	-	-	-	<0.0050
Nitrate (N)	mg/L	0.020	-	<0.020	-	-	-	<0.020
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	<1.0	-	-	-	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	91	270	-	-	-	330
Bicarbonate (HCO3)	mg/L	1.0	110	330	-	-	-	400
Carbonate (CO3)	mg/L	1.0	<1.0	<1.0	-	-	-	<1.0
Hydroxide (OH)	mg/L	1.0	<1.0	<1.0	-	-	-	<1.0
Filter and HNO3 Preservation	N/A		FIELD	FIELD	-	-	-	FIELD
Total Ammonia (N)	mg/L	0.015 - 0.15	-	<0.015	<0.015	-	-	<0.015
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	0.0059	-	-	-	0.0095
Dissolved Organic Carbon (C)	mg/L	0.50	0.77	-	-	-	-	-
Conductivity	uS/cm	2.0	-	-	-	1200	1300	-
pH	pH		-	-	-	7.99	8.02	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-
Legend								
To Be Announced	TBA							
Exceeds one Criteria	Result							
Exceeds two Criteria	Result							
DL > Criteria	Result							

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	BCREFF-1FEB21-M Lab-Dup C106913 / ZG3169 2021-02-01	BCREFF-8FEB21-M C108734 / ZH5521 2021-02-08	BCREFF-16FEB21-M C110173 / ZI2247 2021-02-16	BCREFF-22FEB21-M C111961 / ZJ4100 2021-02-22	BCREFF-1MAR21-M C113684 / ZK4955 2021-03-01	BCREFF-1MAR21-M Lab-Dup C113684 / ZK4955 2021-03-01
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	510	530	560	550	560	-
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	-	2	-
Nitrite (N)	mg/L	0.0050	-	-	-	-	<0.0050	-
Nitrate (N)	mg/L	0.020	-	-	-	-	<0.020	-
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	-	-	<1.0	-
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	-	-	310	-
Bicarbonate (HCO3)	mg/L	1.0	-	-	-	-	380	-
Carbonate (CO3)	mg/L	1.0	-	-	-	-	<1.0	-
Hydroxide (OH)	mg/L	1.0	-	-	-	-	<1.0	-
Filter and HNO3 Preservation	N/A		-	-	-	-	FIELD	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	0.27	0.3
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	<0.030	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	-	1500	1400	1500	-	-
pH	pH		-	8.12	7.74	7.55	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	BCREFF-9MAR21-M C115474 / ZL5611 2021-03-09	BCREFF-15MAR21-M C116951 / ZM3656 2021-03-15	BCREFF-15MAR21-R C116951 / ZM3657 2021-03-15	BCREFF-22MAR21-M C118894 / ZN3536 2021-03-22	INF-4JAN21-M C100809 / ZC9633 2021-01-04	INF-18JAN21-M C103883 / ZE4658 2021-01-18
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	570	570	560	590	600	570
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	-	9.2	-
Nitrite (N)	mg/L	0.0050	-	-	-	-	<0.0050	-
Nitrate (N)	mg/L	0.020	-	-	-	-	<0.020	-
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	-	-	<1.0	-
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	-	-	250	-
Bicarbonate (HCO3)	mg/L	1.0	-	-	-	-	300	-
Carbonate (CO3)	mg/L	1.0	-	-	-	-	<1.0	-
Hydroxide (OH)	mg/L	1.0	-	-	-	-	<1.0	-
Filter and HNO3 Preservation	N/A		-	-	-	-	FIELD	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	0.065	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	<0.0030	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	1500	-	-	1400	-	1500
pH	pH		8.01	-	-	7.71	-	7.44
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	INF-25JAN21-M C105128 / ZF1932 2021-01-25		INF-25JAN21-R C105128 / ZF1933 2021-01-25	INF-1FEB21-M C106913 / ZG3171 2021-02-01	INF-1FEB21-M Lab-Dup C106913 / ZG3171 2021-02-01	INF-8FEB21-M C108734 / ZH5523 2021-02-08	INF-16FEB21-M C110173 / ZI2249 2021-02-16
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	560	550	570	570	620	610
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	6.4	-	-	-
Nitrite (N)	mg/L	0.0050	-	-	<0.0050	-	-	-
Nitrate (N)	mg/L	0.020	-	-	<0.020	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	<1.0	-	-	-
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	310	-	-	-
Bicarbonate (HCO3)	mg/L	1.0	-	-	370	-	-	-
Carbonate (CO3)	mg/L	1.0	-	-	<1.0	-	-	-
Hydroxide (OH)	mg/L	1.0	-	-	<1.0	-	-	-
Filter and HNO3 Preservation	N/A		-	-	FIELD	-	-	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	0.036	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	<0.0030	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	1500	1500	-	-	1500	1500
pH	pH		7.81	7.89	-	-	7.79	7.8
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-
Legend								
To Be Announced	TBA							
Exceeds one Criteria	Result							
Exceeds two Criteria	Result							
DL > Criteria	Result							

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	INF-22FEB21-M		INF-1MAR21-M	INF-9MAR21-M	INF-9MAR21-R	INF-15MAR21-M	INF-22MAR21-M
		C111961 / ZI4102 2021-02-22		C113684 / ZK4957 2021-03-01	C115474 / ZL5612 2021-03-09	C115474 / ZL5613 2021-03-09	C116951 / ZM3659 2021-03-15	C119480 / ZN5814 2021-03-24
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	620	630	610	600	580	590
Total Suspended Solids	mg/L	1.0 - 4.2	-	7.2	-	-	-	-
Nitrite (N)	mg/L	0.0050	-	<0.0050	-	-	-	-
Nitrate (N)	mg/L	0.020	-	<0.020	-	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	-	<1.0	-	-	-	-
Alkalinity (Total as CaCO3)	mg/L	1.0	-	310	-	-	-	-
Bicarbonate (HCO3)	mg/L	1.0	-	380	-	-	-	-
Carbonate (CO3)	mg/L	1.0	-	<1.0	-	-	-	-
Hydroxide (OH)	mg/L	1.0	-	<1.0	-	-	-	-
Filter and HNO3 Preservation	N/A		-	FIELD	-	-	-	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	0.43	-	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	<0.0030	-	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	1600	-	1600	1600	-	-
pH	pH		7.62	-	8.04	8.03	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-
Legend								
To Be Announced	TBA							
Exceeds one Criteria	Result							
Exceeds two Criteria	Result							
DL > Criteria	Result							

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	LLE-4JAN21-M C100809 / ZC9638 2021-01-04	LLE-4JAN21-M Lab-Dup C100809 / ZC9638 2021-01-04	LLE-11JAN21-M C102299 / ZD7255 2021-01-11	LLE-18JAN21-M C103883 / ZE4654 2021-01-18	LLE-25JAN21-M C106092 / ZF7205 2021-01-25	LLE-1FEB21-M C106913 / ZG3166 2021-02-01
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	63	-	120	80	170	68
Total Suspended Solids	mg/L	1.0 - 4.2	2	-	-	-	-	1.6
Nitrite (N)	mg/L	0.0050	<0.0050	-	-	-	-	<0.0050
Nitrate (N)	mg/L	0.020	<0.020	-	-	-	-	0.06
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	-	-	-	-	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	25	-	-	-	-	41
Bicarbonate (HCO3)	mg/L	1.0	30	-	-	-	-	50
Carbonate (CO3)	mg/L	1.0	<1.0	-	-	-	-	<1.0
Hydroxide (OH)	mg/L	1.0	<1.0	-	-	-	-	<1.0
Filter and HNO3 Preservation	N/A		FIELD	-	-	-	-	LAB
Total Ammonia (N)	mg/L	0.015 - 0.15	<0.015	<0.015	-	-	-	0.025
Total Phosphorus (P)	mg/L	0.0030 - 0.030	<0.0030	-	-	-	-	0.0073
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	-	-	360	240	470	-
pH	pH		-	-	7.74	7.54	7.63	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

<i>Sample ID</i>	<i>Time (min)</i>	<i>pH</i>	<i>Conc. (mg/L)</i>	<i>Temp. (°C)</i>	<i>Flow Rate (mL/min)</i>	<i>Retention Time (min)</i>	<i>Peak Area</i>	<i>Peak Height</i>	<i>Resolution</i>	<i>S/N Ratio</i>	<i>Recovery (%)</i>	<i>Detection Limit (ng/mL)</i>	<i>Quantification Limit (ng/mL)</i>	<i>Calibration Curve</i>	<i>Correlation Coefficient</i>	<i>Method Validation</i>	<i>Quality Control</i>	<i>Notes</i>
1	10	7.0	100	25	1.0	12.5	150000	18000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
2	20	6.5	200	25	1.0	15.0	200000	22000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
3	30	6.0	300	25	1.0	17.5	250000	28000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
4	40	5.5	400	25	1.0	20.0	300000	32000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
5	50	5.0	500	25	1.0	22.5	350000	38000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
6	60	4.5	600	25	1.0	25.0	400000	42000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
7	70	4.0	700	25	1.0	27.5	450000	48000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
8	80	3.5	800	25	1.0	30.0	500000	52000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
9	90	3.0	900	25	1.0	32.5	550000	58000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	
10	100	2.5	1000	25	1.0	35.0	600000	62000	1.5	10	95	0.5	1.0	$y = 1.5x - 0.5$	0.999	Good	OK	

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	LLE-8FEB21-M C108734 / ZH5524 2021-02-08	LLE-8FEB21-R C108734 / ZH5525 2021-02-08	LLE-16FEB21-M C110173 / ZI2250 2021-02-16	LLE-22FEB21-M C111961 / ZJ4103 2021-02-22	LLE-22FEB21-R C111961 / ZJ4104 2021-02-22	LLE-1MAR21-M C113684 / ZK4962 2021-03-01
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	95	85	96	110	110	100
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	-	-	1.6
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	<0.0050
Nitrate (N)	mg/L	0.020	-	-	-	-	-	0.031
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	-	-	-	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	-	-	-	50
Bicarbonate (HCO3)	mg/L	1.0	-	-	-	-	-	61
Carbonate (CO3)	mg/L	1.0	-	-	-	-	-	<1.0
Hydroxide (OH)	mg/L	1.0	-	-	-	-	-	<1.0
Filter and HNO3 Preservation	N/A		-	-	-	-	-	FIELD
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	<0.015
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	<0.0030
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	270	240	270	320	320	-
pH	pH		7.87	7.71	7.37	7.48	7.68	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-
Legend								
To Be Announced	TBA							
Exceeds one Criteria	Result							
Exceeds two Criteria	Result							
DL > Criteria	Result							

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL		LLE-9MAR21-M	LLE-15MAR21-M	LLE-22MAR21-M	LLS-4JAN21-M	LLS-1FEB21-M	LLS-1MAR21-M
		C115474 / ZL5614 2021-03-09		C116951 / ZM3660 2021-03-15	C118894 / ZN3538 2021-03-22	C100809 / ZC9639 2021-01-04	C106913 / ZG3172 2021-02-01	C113684 / ZK4963 2021-03-01	
Others									
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	90	96	170	420	660	700	
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	-	4.4	4	5.2	
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-	
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-	
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	-	<1.0	<1.0	<1.0	
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	-	140	270	270	
Bicarbonate (HCO3)	mg/L	1.0	-	-	-	170	330	330	
Carbonate (CO3)	mg/L	1.0	-	-	-	<1.0	<1.0	<1.0	
Hydroxide (OH)	mg/L	1.0	-	-	-	<1.0	<1.0	<1.0	
Filter and HNO3 Preservation	N/A		-	-	-	FIELD	FIELD	FIELD	
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-	
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-	
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-	
Conductivity	uS/cm	2.0	270	-	440	-	-	-	
pH	pH		7.81	-	7.86	-	-	-	
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-	
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-	
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-	
Turbidity	NTU	0.10	-	-	-	-	-	-	
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-	

Legend		
To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	LLSM-4JAN21-M C100809 / ZC9640 2021-01-04	LLSM-11JAN21-M C102299 / ZD7258 2021-01-11	LLSM-1FEB21-M C106913 / ZG3173 2021-02-01	LLSM-1MAR21-M C113684 / ZK4964 2021-03-01	PDSR-4JAN21-M C100809 / ZC9628 2021-01-04	PDSR-4JAN21-M Lab-Dup C100809 / ZC9628 2021-01-04
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	310	490	560	500	200	200
Total Suspended Solids	mg/L	1.0 - 4.2	3.2	1.6	3.6	2	<1.0	-
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-
Alkalinity (Total as CaCO3)	mg/L	1.0	110	170	240	230	92	-
Bicarbonate (HCO3)	mg/L	1.0	140	210	300	280	110	-
Carbonate (CO3)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-
Hydroxide (OH)	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-
Filter and HNO3 Preservation	N/A		FIELD	-	FIELD	FIELD	FIELD	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	-	1200	-	-	-	-
pH	pH		-	7.28	-	-	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	PDSR-1FEB21-M C106913 / ZG3158 2021-02-01	PDSR-1MAR21-M C113684 / ZK4951 2021-03-01	SPC-4JAN21-M C100809 / ZC9629 2021-01-04	SPC-1FEB21-M C106913 / ZG3160 2021-02-01	SPC-1MAR21-M C113684 / ZK4952 2021-03-01	SPCEFF-4JAN21-M C100809 / ZC9632 2021-01-04
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	430	510	470	63	95	510
Total Suspended Solids	mg/L	1.0 - 4.2	1.6	<1.0	<1.0	1.2	1.2	4.4
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	<0.0050
Nitrate (N)	mg/L	0.020	-	-	-	-	-	<0.020
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)	mg/L	1.0	210	-	29	40	39	260
Bicarbonate (HCO3)	mg/L	1.0	260	-	36	49	48	320
Carbonate (CO3)	mg/L	1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Hydroxide (OH)	mg/L	1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Filter and HNO3 Preservation	N/A		FIELD	FIELD	-	FIELD	FIELD	FIELD
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	<0.015
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	0.0065
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	-	-	-	-	-	-
pH	pH		-	-	-	-	-	-
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL	SPCEFF-18JAN21-M C103883 / ZE4656 2021-01-18	SPCEFF-25JAN21-M C105128 / ZF1931 2021-01-25	SPCEFF-1FEB21-M C106913 / ZG3170 2021-02-01	SPCEFF-8FEB21-M C108734 / ZH5522 2021-02-08	SPCEFF-16FEB21-M C110173 / ZI2248 2021-02-16	SPCEFF-22FEB21-M C111961 / ZI4101 2021-02-22
Others								
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	540	500	520	530	540	250
Total Suspended Solids	mg/L	1.0 - 4.2	-	-	2	-	-	-
Nitrite (N)	mg/L	0.0050	-	-	<0.0050	-	-	-
Nitrate (N)	mg/L	0.020	-	-	<0.020	-	-	-
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	<1.0	-	-	-
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	330	-	-	-
Bicarbonate (HCO3)	mg/L	1.0	-	-	400	-	-	-
Carbonate (CO3)	mg/L	1.0	-	-	<1.0	-	-	-
Hydroxide (OH)	mg/L	1.0	-	-	<1.0	-	-	-
Filter and HNO3 Preservation	N/A		-	-	FIELD	-	-	-
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	<0.015	-	-	-
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	0.0091	-	-	-
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-
Conductivity	uS/cm	2.0	1500	1500	-	1500	1400	810
pH	pH		7.68	7.76	-	8.16	7.75	7.82
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-
Turbidity	NTU	0.10	-	-	-	-	-	-
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-

Legend

To Be Announced

TBA

Exceeds one Criteria

Result

Exceeds two Criteria

Result

DL > Criteria

Result

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL		SPCEFF-1MAR21-M	SPCEFF-15MAR21-M	SPCEFF-22MAR21-M	TDF-4JAN21-M	TRIPBLANK-8FEB21-B	WC-4JAN21-M
				C113684 / ZK4956	C116951 / ZM3658	C118894 / ZN3537	C100809 / ZC9644	C108734 / ZH5526	C100809 / ZC9625
				2021-03-01	2021-03-15	2021-03-22	2021-01-04	2021-02-08	2021-01-04
Others									
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	450	450	470	1200	<1.0	200	
Total Suspended Solids	mg/L	1.0 - 4.2	4	-	-	<1.0	-	<1.0	
Nitrite (N)	mg/L	0.0050	<0.0050	-	-	-	-	-	
Nitrate (N)	mg/L	0.020	<0.020	-	-	-	-	-	
Alkalinity (PP as CaCO3)	mg/L	1.0	<1.0	-	-	<1.0	<1.0	-	
Alkalinity (Total as CaCO3)	mg/L	1.0	340	-	-	250	<1.0	-	
Bicarbonate (HCO3)	mg/L	1.0	410	-	-	310	<1.0	-	
Carbonate (CO3)	mg/L	1.0	<1.0	-	-	<1.0	<1.0	-	
Hydroxide (OH)	mg/L	1.0	<1.0	-	-	<1.0	<1.0	-	
Filter and HNO3 Preservation	N/A		FIELD	-	-	FIELD	-	-	
Total Ammonia (N)	mg/L	0.015 - 0.15	0.34	-	-	<0.15	-	-	
Total Phosphorus (P)	mg/L	0.0030 - 0.030	0.0063	-	-	<0.0030	-	-	
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	0.61	-	-	
Conductivity	uS/cm	2.0	-	-	1300	-	-	-	
pH	pH		-	-	8.13	-	-	-	
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-	
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-	
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-	
Turbidity	NTU	0.10	-	-	-	-	-	-	
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-	

Legend		
To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 25 - Within Mine -Others

Others

Sample ID

BV Labs Job ID / Sample ID

Sample Collection Date

Sample Collection Time

Parameter	Units	RDL		WC-1FEB21-M	WC-1FEB21-M Lab-Dup	WC-1MAR21-M	WC-1MAR21-M Lab-Dup	WC-15MAR21-M	WC-22MAR21-M
		C106913 / ZG3155		C106913 / ZG3155	C113684 / ZK4948	C113684 / ZK4948	C116949 / ZM3646	C118890 / ZN3528	
		2021-02-01		2021-02-01	2021-03-01	2021-03-01	2021-03-15	2021-03-22	
Others									
Dissolved Sulphate (SO4)	mg/L	1.0 - 10	690	-	690	-	920	1200	
Total Suspended Solids	mg/L	1.0 - 4.2	<1.0	<1.0	1.2	1.2	<1.0	3.6	
Nitrite (N)	mg/L	0.0050	-	-	-	-	-	-	
Nitrate (N)	mg/L	0.020	-	-	-	-	-	-	
Alkalinity (PP as CaCO3)	mg/L	1.0	-	-	-	-	4.8	1.7	
Alkalinity (Total as CaCO3)	mg/L	1.0	-	-	-	-	320	380	
Bicarbonate (HCO3)	mg/L	1.0	-	-	-	-	370	460	
Carbonate (CO3)	mg/L	1.0	-	-	-	-	5.7	2	
Hydroxide (OH)	mg/L	1.0	-	-	-	-	<1.0	<1.0	
Filter and HNO3 Preservation	N/A		FIELD	-	FIELD	-	FIELD	FIELD	
Total Ammonia (N)	mg/L	0.015 - 0.15	-	-	-	-	-	-	
Total Phosphorus (P)	mg/L	0.0030 - 0.030	-	-	-	-	-	-	
Dissolved Organic Carbon (C)	mg/L	0.50	-	-	-	-	-	-	
Conductivity	uS/cm	2.0	-	-	-	-	-	2800	
pH	pH		-	-	-	-	-	8.3	
Dissolved Bromide (Br)	mg/L	0.010	-	-	-	-	-	-	
Dissolved Chloride (Cl)	mg/L	1.0	-	-	-	-	-	-	
Dissolved Fluoride (F)	mg/L	0.050	-	-	-	-	-	-	
Turbidity	NTU	0.10	-	-	-	-	-	-	
Dissolved Phosphorus (P)	mg/L	0.0030	-	-	-	-	-	-	

Legend		
To Be Announced	TBA	
Exceeds one Criteria	Result	
Exceeds two Criteria	Result	
DL > Criteria	Result	

Table 25 - Within Mine -Others

Others

[illegible]

Table 26 - Within Mine -Max Values

Maximum Values Summary Table

Sample ID	Project	Site	BV Labs Sample ID	BV Labs Job ID	Parameter	Matrix	Result	Units
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Dissolved Hardness (CaCO3)	Water	1060	mg/L
7S-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9643	C100809	Dissolved Aluminum (Al)	Water	0.0749	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Antimony (Sb)	Water	<0.0025	mg/L
SPCEFF-1MAR21-M	MARCH MONTHLY		ZK4956	C113684	Dissolved Barium (Ba)	Water	0.0309	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Beryllium (Be)	Water	<0.00050	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Bismuth (Bi)	Water	<0.0050	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Dissolved Boron (B)	Water	1.08	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Cadmium (Cd)	Water	<0.000050	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Dissolved Calcium (Ca)	Water	366	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Chromium (Cr)	Water	<0.0050	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Dissolved Cobalt (Co)	Water	0.0383	mg/L
7SPS-1FEB21-M	SURFACE	FEB	ZG3168	C106913	Dissolved Copper (Cu)	Water	0.00182	mg/L
INF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9633	C100809	Dissolved Iron (Fe)	Water	3.99	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Lead (Pb)	Water	<0.0010	mg/L
LLS-1FEB21-M	SURFACE	FEB	ZG3172	C106913	Dissolved Lithium (Li)	Water	0.0251	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Dissolved Magnesium (Mg)	Water	34.8	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Dissolved Manganese (Mn)	Water	1.78	mg/L
SPCEFF-1FEB21-M	SURFACE	FEB	ZG3170	C106913	Dissolved Mercury (Hg)	Water	<0.000019	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Molybdenum (Mo)	Water	<0.0050	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Dissolved Nickel (Ni)	Water	0.0764	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Dissolved Potassium (K)	Water	4.17	mg/L
BCREFF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9631	C100809	Dissolved Selenium (Se)	Water	0.0193	mg/L
7SPS-1FEB21-M	SURFACE	FEB	ZG3168	C106913	Dissolved Silicon (Si)	Water	4.54	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Silver (Ag)	Water	<0.00010	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Dissolved Sodium (Na)	Water	410	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Dissolved Strontium (Sr)	Water	2.61	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Dissolved Sulphur (S)	Water	410	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Thallium (Tl)	Water	<0.000050	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Tin (Sn)	Water	<0.025	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Titanium (Ti)	Water	<0.025	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Uranium (U)	Water	<0.00050	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Vanadium (V)	Water	<0.025	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Zinc (Zn)	Water	<0.025	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Dissolved Zirconium (Zr)	Water	<0.00050	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Total Hardness (CaCO3)	Water	1020	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Aluminum (Al)	Water	4.1	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Antimony (Sb)	Water	<0.0010	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Arsenic (As)	Water	0.00944	mg/L
SPCEFF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9632	C100809	Total Barium (Ba)	Water	0.0312	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Beryllium (Be)	Water	<0.00020	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Bismuth (Bi)	Water	<0.0020	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Boron (B)	Water	1.02	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Cadmium (Cd)	Water	0.00005	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Total Calcium (Ca)	Water	354	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Chromium (Cr)	Water	0.006	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Cobalt (Co)	Water	0.0384	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Copper (Cu)	Water	0.0221	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Iron (Fe)	Water	10.2	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Lead (Pb)	Water	0.00078	mg/L
LLS-1MAR21-M	MARCH MONTHLY		ZK4963	C113684	Total Lithium (Li)	Water	0.0217	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Total Magnesium (Mg)	Water	33	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Manganese (Mn)	Water	1.74	mg/L
SPCEFF-1FEB21-M	SURFACE	FEB	ZG3170	C106913	Total Mercury (Hg)	Water	<0.000019	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Molybdenum (Mo)	Water	<0.0020	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Nickel (Ni)	Water	0.0722	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Potassium (K)	Water	4.09	mg/L
WP-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9626	C100809	Total Selenium (Se)	Water	0.00031	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Silicon (Si)	Water	7.79	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Silver (Ag)	Water	<0.000040	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Sodium (Na)	Water	412	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Total Strontium (Sr)	Water	2.46	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Sulphur (S)	Water	406	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Thallium (Tl)	Water	0.000022	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Total Tin (Sn)	Water	<0.010	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Titanium (Ti)	Water	0.236	mg/L
PDSR-1MAR21-M	MARCH MONTHLY		ZK4951	C113684	Total Uranium (U)	Water	0.00029	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Vanadium (V)	Water	0.0142	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Zinc (Zn)	Water	0.026	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Zirconium (Zr)	Water	0.00089	mg/L
WP-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9626	C100809	Acidity (pH 4.5)	Water	<1.0	mg/L
BCREFF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9631	C100809	Acidity (pH 8.3)	Water	24.8	mg/L
7SPS-1MAR21-M	MARCH MONTHLY		ZK4965	C113684	Nitrate plus Nitrite (N)	Water	0.979	mg/L
BCREFF-1FEB21-M	SURFACE	FEB	ZG3169	C106913	Total Sulphide	Water	13	mg/L
BCREFF-1FEB21-M	SURFACE	FEB	ZG3169	C106913	Sulphide (as H2S)	Water	14	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Dissolved Sulphate (SO4)	Water	1200	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Suspended Solids	Water	150	mg/L
WP-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9626	C100809	Nitrite (N)	Water	<0.0050	mg/L
7SPS-1MAR21-M	MARCH MONTHLY		ZK4965	C113684	Nitrate (N)	Water	0.979	mg/L
WC-15MAR21-M	SP4 INVESTIGATION MARCH 15		ZM3646	C116949	Alkalinity (PP as CaCO3)	Water	4.8	mg/L
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Alkalinity (Total as CaCO3)	Water	430	mg/L
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Bicarbonate (HCO3)	Water	530	mg/L
WC-15MAR21-M	SP4 INVESTIGATION MARCH 15		ZM3646	C116949	Carbonate (CO3)	Water	5.7	mg/L
WP-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9626	C100809	Hydroxide (OH)	Water	<1.0	mg/L
INF-1MAR21-M	MARCH MONTHLY		ZK4957	C113684	Total Ammonia (N)	Water	0.43	mg/L
7SPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9641	C100809	Total Phosphorus (P)	Water	0.034	mg/L
7S-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9643	C100809	Dissolved Organic Carbon (C)	Water	3.2	mg/L
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	Conductivity	Water	2800	uS/cm
WC-22MAR21-M	INVESTIGATION SP4		ZN3528	C118890	pH	Water	8.3	pH
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Dissolved Bromide (Br)	Water	0.069	mg/L
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Dissolved Chloride (Cl)	Water	3.6	mg/L
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Dissolved Fluoride (F)	Water	0.15	mg/L
2NPS-24MAR21-M	INVESTIGATION SP4		ZN5813	C119480	Turbidity	Water	2.2	NTU
3M2N-9FEB21-M Lab-Dup	GROUNDWATER	3M2N	ZH7946	C109213	Dissolved Phosphorus (P)	Water	<0.0030	mg/L

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result

Table 27 - Within Mine-Min Values

Minimum Values Summary Table

Sample ID	Project	Site	BV Labs Sample ID	BV Labs Job ID	Parameter	Matrix	Result	Units
75-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9643	C100809	Dissolved Hardness (CaCO3)	Water	11.2	mg/L
25-1FEB21-M	SURFACE	FEB	ZG3162	C106913	Dissolved Aluminum (Al)	Water	<0.0030	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Antimony (Sb)	Water	<0.00050	mg/L
75-1MAR21-M	MARCH MONTHLY		ZK4966	C113684	Dissolved Barium (Ba)	Water	0.0011	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Beryllium (Be)	Water	<0.00010	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Bismuth (Bi)	Water	<0.0010	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Dissolved Boron (B)	Water	<0.050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Cadmium (Cd)	Water	<0.000010	mg/L
75-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9643	C100809	Dissolved Calcium (Ca)	Water	3.21	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Chromium (Cr)	Water	<0.0010	mg/L
25-1FEB21-M	SURFACE	FEB	ZG3162	C106913	Dissolved Cobalt (Co)	Water	<0.00020	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Copper (Cu)	Water	<0.00020	mg/L
2NPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9627	C100809	Dissolved Iron (Fe)	Water	<0.0050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Lead (Pb)	Water	<0.00020	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Dissolved Lithium (Li)	Water	<0.0020	mg/L
75-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9643	C100809	Dissolved Magnesium (Mg)	Water	0.783	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Dissolved Manganese (Mn)	Water	<0.0010	mg/L
2NPS-1FEB21-M	SURFACE	FEB	ZG3157	C106913	Dissolved Mercury (Hg)	Water	<0.0000019	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Molybdenum (Mo)	Water	<0.0010	mg/L
25-1FEB21-M	SURFACE	FEB	ZG3162	C106913	Dissolved Nickel (Ni)	Water	<0.0010	mg/L
75-1MAR21-M	MARCH MONTHLY		ZK4966	C113684	Dissolved Potassium (K)	Water	0.078	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Selenium (Se)	Water	<0.00010	mg/L
2NPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9627	C100809	Dissolved Silicon (Si)	Water	1.01	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Silver (Ag)	Water	<0.000020	mg/L
75-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9643	C100809	Dissolved Sodium (Na)	Water	1.27	mg/L
75-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9643	C100809	Dissolved Strontium (Sr)	Water	0.0131	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Dissolved Sulphur (S)	Water	<3.0	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Thallium (Tl)	Water	<0.000010	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Tin (Sn)	Water	<0.0050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Titanium (Ti)	Water	<0.0050	mg/L
2NPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9627	C100809	Dissolved Uranium (U)	Water	<0.00010	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Vanadium (V)	Water	<0.0050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Zinc (Zn)	Water	<0.0050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Dissolved Zirconium (Zr)	Water	<0.00010	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Hardness (CaCO3)	Water	<0.50	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Aluminum (Al)	Water	<0.0030	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Antimony (Sb)	Water	<0.00050	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Total Arsenic (As)	Water	<0.00010	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Barium (Ba)	Water	<0.0010	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Beryllium (Be)	Water	<0.00010	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Bismuth (Bi)	Water	<0.0010	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Total Boron (B)	Water	<0.050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Cadmium (Cd)	Water	<0.000010	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Calcium (Ca)	Water	<0.050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Chromium (Cr)	Water	<0.0010	mg/L
25-1FEB21-M	SURFACE	FEB	ZG3162	C106913	Total Cobalt (Co)	Water	<0.00020	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Copper (Cu)	Water	<0.00050	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Total Iron (Fe)	Water	<0.010	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Lead (Pb)	Water	<0.00020	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Total Lithium (Li)	Water	<0.0020	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Magnesium (Mg)	Water	<0.050	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Total Manganese (Mn)	Water	<0.0010	mg/L
2NPS-1FEB21-M	SURFACE	FEB	ZG3157	C106913	Total Mercury (Hg)	Water	<0.0000019	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Molybdenum (Mo)	Water	<0.0010	mg/L
25-1FEB21-M	SURFACE	FEB	ZG3162	C106913	Total Nickel (Ni)	Water	<0.0010	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Potassium (K)	Water	<0.050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Selenium (Se)	Water	<0.00010	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Silicon (Si)	Water	<0.10	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Silver (Ag)	Water	<0.000020	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Sodium (Na)	Water	<0.050	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Total Strontium (Sr)	Water	<0.0010	mg/L
75-1FEB21-M	SURFACE	FEB	ZG3167	C106913	Total Sulphur (S)	Water	<3.0	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Thallium (Tl)	Water	<0.000010	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Tin (Sn)	Water	<0.0050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Titanium (Ti)	Water	<0.0050	mg/L
2NPS-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9627	C100809	Total Uranium (U)	Water	<0.00010	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Vanadium (V)	Water	<0.0050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Zinc (Zn)	Water	<0.0050	mg/L
2NPS-1MAR21-M	MARCH MONTHLY		ZK4950	C113684	Total Zirconium (Zr)	Water	<0.00010	mg/L
2NPS-1FEB21-M	SURFACE	FEB	ZG3157	C106913	Acidity (pH 4.5)	Water	<1.0	mg/L
25-1FEB21-M	SURFACE	FEB	ZG3162	C106913	Acidity (pH 8.3)	Water	<1.0	mg/L
BCREFF-1FEB21-M	SURFACE	FEB	ZG3169	C106913	Nitrate plus Nitrite (N)	Water	<0.020	mg/L
25I-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9634	C100809	Total Sulphide	Water	<0.0018	mg/L
25I-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9634	C100809	Sulphide (as H2S)	Water	<0.0020	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Dissolved Sulphate (SO4)	Water	<1.0	mg/L
75-1MAR21-M	MARCH MONTHLY		ZK4966	C113684	Total Suspended Solids	Water	<1.0	mg/L
75PS-1MAR21-M	MARCH MONTHLY		ZK4965	C113684	Nitrite (N)	Water	<0.0050	mg/L
BCREFF-1FEB21-M	SURFACE	FEB	ZG3169	C106913	Nitrate (N)	Water	<0.020	mg/L
2NPS-1FEB21-M	SURFACE	FEB	ZG3157	C106913	Alkalinity (PP as CaCO3)	Water	<1.0	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Alkalinity (Total as CaCO3)	Water	<1.0	mg/L
TRIPBLANK-8FEB21-B	SURFACE	WEEKLY	ZH5526	C108734	Bicarbonate (HCO3)	Water	<1.0	mg/L
2NPS-1FEB21-M	SURFACE	FEB	ZG3157	C106913	Carbonate (CO3)	Water	<1.0	mg/L
2NPS-1FEB21-M	SURFACE	FEB	ZG3157	C106913	Hydroxide (OH)	Water	<1.0	mg/L
75PS-1MAR21-M	MARCH MONTHLY		ZK4965	C113684	Total Ammonia (N)	Water	<0.015	mg/L
75PS-1MAR21-M	MARCH MONTHLY		ZK4965	C113684	Total Phosphorus (P)	Water	<0.0030	mg/L
TDF-4JAN21-M	SURFACE	MONTHLY-JAN	ZC9644	C100809	Dissolved Organic Carbon (C)	Water	0.61	mg/L
LLE-18JAN21-M	SURFACE	WEEKLY	ZE4654	C103883	Conductivity	Water	240	uS/cm
25I-25JAN21-M	SURFACE	WEEKLY	ZI929	C105128	pH	Water	6.74	pH
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Dissolved Bromide (Br)	Water	0.069	mg/L
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Dissolved Chloride (Cl)	Water	3.6	mg/L
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Dissolved Fluoride (F)	Water	0.15	mg/L
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Turbidity	Water	1.6	NTU
3M2N-9FEB21-M	GROUNDWATER	3M2N	ZH7946	C109213	Dissolved Phosphorus (P)	Water	<0.0030	mg/L

Legend	
To Be Announced	TBA
Exceeds one Criteria	Result
Exceeds two Criteria	Result
DL > Criteria	Result
Criteria 1	
Criteria 2	

Table 28 - Within Mine-Date Summary

Summary of Analysis Dates

Sample ID	site	Project	BV Labs Sample ID	BV Labs Job ID	Date Sampled	Date Range: Extracted	Date Range: Analyzed
2NPS-1FEB21-M	2NPS	SURFACE	ZG3157	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
2NPS-1MAR21-M	2NPS	MARCH MONTHLY	ZK4950	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
2NPS-24MAR21-M	2NPS	INVESTIGATION SP4	ZN5813	C119480	2021/03/24	2021/03/26 - 2021/03/31	2021/03/26 - 2021/03/31
2S-1FEB21-M	2S	SURFACE	ZG3162	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
2S-1MAR21-M	2S	MARCH MONTHLY	ZK4958	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
2S-1MAR21-R	2S	MARCH MONTHLY	ZK4959	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
2SC-1FEB21-M	2SC	SURFACE	ZG3163	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
2SC-1MAR21-M	2SC	MARCH MONTHLY	ZK4960	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
2SC-4JAN21-M	2SC	SURFACE	ZC9636	C100809	2021/01/04	2021/01/07 - 2021/01/08	2021/01/06 - 2021/01/12
2S1-11JAN21-M	2S1	WEEKLY	ZD7254	C102299	2021/01/11	2021/01/19 - 2021/01/19	2021/01/19 - 2021/01/19
2S1-15MAR21-M	2S1	WEEKLY	ZM3655	C116951	2021/03/15	2021/03/18 - 2021/03/18	2021/03/18 - 2021/03/18
2S1-16FEB21-M	2S1	WEEKLY-SURFACE	ZI2246	C110173	2021/02/16	2021/02/21 - 2021/02/24	2021/02/21 - 2021/02/24
2S1-18JAN21-M	2S1	SURFACE	ZE4653	C103883	2021/01/18	2021/01/24 - 2021/01/25	2021/01/24 - 2021/01/25
2S1-18JAN21-R	2S1	SURFACE	ZE4657	C103883	2021/01/18	2021/01/24 - 2021/01/25	2021/01/24 - 2021/01/25
2S1-1FEB21-M	2S1	SURFACE	ZG3161	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
2S1-1MAR21-M	2S1	MARCH MONTHLY	ZK4954	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
2S1-22FEB21-M	2S1	SURFACE	ZI4099	C111961	2021/02/22	2021/02/28 - 2021/03/02	2021/02/28 - 2021/03/02
2S1-22MAR21-M	2S1	WEEKLY-SURFACE	ZN3535	C118894	2021/03/22	2021/03/25 - 2021/03/25	2021/03/25 - 2021/03/25
2S1-25JAN21-M	2S1	SURFACE	ZF1929	C105128	2021/01/25	2021/01/27 - 2021/01/28	2021/01/27 - 2021/01/28
2S1-4JAN21-M	2S1	SURFACE	ZC9634	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
2S1-8FEB21-M	2S1	SURFACE	ZH5520	C108734	2021/02/08	2021/02/16 - 2021/02/16	2021/02/16 - 2021/02/16
2S1-9MAR21-M	2S1	WEEKLY-SURFACE	ZL5610	C115474	2021/03/09	2021/03/14 - 2021/03/15	2021/03/14 - 2021/03/15
2SS-11JAN21-MM	2SS	WEEKLY	ZD7256	C102299	2021/01/11	2021/01/19 - 2021/01/19	2021/01/19 - 2021/01/19
2SS-4JAN21-M	2SS	SURFACE	ZC9635	C100809	2021/01/04	2021/01/07 - 2021/01/08	2021/01/06 - 2021/01/12
3M2N-9FEB21-M	3M2N	GROUNDWATER	ZH7946	C109213	2021/02/09	2021/02/16 - 2021/02/18	2021/02/16 - 2021/02/18
3S-11JAN21-M	3S	WEEKLY	ZD7257	C102299	2021/01/11	2021/01/19 - 2021/01/19	2021/01/19 - 2021/01/19
3S-1FEB21-M	3S	SURFACE	ZG3164	C106913	2021/02/01	2021/02/07 - 2021/02/08	2021/02/07 - 2021/02/08
3S-1FEB21-R	3S	SURFACE	ZG3165	C106913	2021/02/01	2021/02/07 - 2021/02/08	2021/02/07 - 2021/02/08
3S-1MAR21-M	3S	MARCH MONTHLY	ZK4961	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
3S-4JAN21-M	3S	SURFACE	ZC9637	C100809	2021/01/04	2021/01/07 - 2021/01/08	2021/01/06 - 2021/01/08
7S-1FEB21-M	7S	SURFACE	ZG3167	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
7S-1MAR21-M	7S	MARCH MONTHLY	ZK4966	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
7S-4JAN21-M	7S	SURFACE	ZC9643	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
7SPS-1FEB21-M	7SPS	SURFACE	ZG3168	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
7SPS-1MAR21-M	7SPS	MARCH MONTHLY	ZK4965	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
7SPS-4JAN21-M	7SPS	SURFACE	ZC9641	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
7SSD-4JAN21-P	7SSD	SURFACE	ZC9642	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
BCREFF-15MAR21-M	BCREFF	WEEKLY	ZM3656	C116951	2021/03/15	2021/03/18 - 2021/03/18	2021/03/18 - 2021/03/18
BCREFF-15MAR21-R	BCREFF	WEEKLY	ZM3657	C116951	2021/03/15	2021/03/18 - 2021/03/18	2021/03/18 - 2021/03/18
BCREFF-16FEB21-M	BCREFF	WEEKLY-SURFACE	ZI2247	C110173	2021/02/16	2021/02/21 - 2021/02/24	2021/02/21 - 2021/02/24
BCREFF-18JAN21-M	BCREFF	SURFACE	ZE4655	C103883	2021/01/18	2021/01/24 - 2021/01/25	2021/01/24 - 2021/01/25
BCREFF-1FEB21-M	BCREFF	SURFACE	ZG3169	C106913	2021/02/01	2021/02/04 - 2021/02/07	2021/02/03 - 2021/02/09
BCREFF-1MAR21-M	BCREFF	MARCH MONTHLY	ZK4955	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
BCREFF-22FEB21-M	BCREFF	SURFACE	ZI4100	C111961	2021/02/22	2021/02/28 - 2021/03/01	2021/02/28 - 2021/03/01
BCREFF-22MAR21-M	BCREFF	WEEKLY-SURFACE	ZN3536	C118894	2021/03/22	2021/03/25 - 2021/03/25	2021/03/25 - 2021/03/25
BCREFF-25JAN21-M	BCREFF	SURFACE	ZF1930	C105128	2021/01/25	2021/01/28 - 2021/01/28	2021/01/28 - 2021/01/28
BCREFF-4JAN21-M	BCREFF	SURFACE	ZC9631	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
BCREFF-8FEB21-M	BCREFF	SURFACE	ZH5521	C108734	2021/02/08	2021/02/14 - 2021/02/16	2021/02/14 - 2021/02/16
BCREFF-9MAR21-M	BCREFF	WEEKLY-SURFACE	ZL5611	C115474	2021/03/09	2021/03/14 - 2021/03/14	2021/03/14 - 2021/03/14
INF-15MAR21-M	INF	WEEKLY	ZM3659	C116951	2021/03/15	2021/03/18 - 2021/03/18	2021/03/18 - 2021/03/18
INF-16FEB21-M	INF	WEEKLY-SURFACE	ZI2249	C110173	2021/02/16	2021/02/21 - 2021/02/23	2021/02/21 - 2021/02/23
INF-18JAN21-M	INF	SURFACE	ZE4658	C103883	2021/01/18	2021/01/24 - 2021/01/25	2021/01/24 - 2021/01/25
INF-1FEB21-M	INF	SURFACE	ZG3171	C106913	2021/02/01	2021/02/04 - 2021/02/07	2021/02/03 - 2021/02/09
INF-1MAR21-M	INF	MARCH MONTHLY	ZK4957	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/08
INF-22FEB21-M	INF	SURFACE	ZI4102	C111961	2021/02/22	2021/02/28 - 2021/03/01	2021/02/28 - 2021/03/01
INF-22MAR21-M	INF	INVESTIGATION SP4	ZN5814	C119480	2021/03/24	2021/03/26 - 2021/03/26	2021/03/26 - 2021/03/26
INF-25JAN21-M	INF	SURFACE	ZF1932	C105128	2021/01/25	2021/01/27 - 2021/01/28	2021/01/27 - 2021/01/28
INF-25JAN21-R	INF	SURFACE	ZF1933	C105128	2021/01/25	2021/01/27 - 2021/01/28	2021/01/27 - 2021/01/28
INF-4JAN21-M	INF	SURFACE	ZC9633	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
INF-8FEB21-M	INF	SURFACE	ZH5523	C108734	2021/02/08	2021/02/16 - 2021/02/16	2021/02/16 - 2021/02/16
INF-9MAR21-M	INF	WEEKLY-SURFACE	ZL5612	C115474	2021/03/09	2021/03/14 - 2021/03/14	2021/03/14 - 2021/03/14
INF-9MAR21-R	INF	WEEKLY-SURFACE	ZL5613	C115474	2021/03/09	2021/03/14 - 2021/03/14	2021/03/14 - 2021/03/14
LLE-11JAN21-M	LLE	WEEKLY	ZD7255	C102299	2021/01/11	2021/01/15 - 2021/01/15	2021/01/15 - 2021/01/15
LLE-15MAR21-M	LLE	WEEKLY	ZM3660	C116951	2021/03/15	2021/03/18 - 2021/03/18	2021/03/18 - 2021/03/18
LLE-16FEB21-M	LLE	WEEKLY-SURFACE	ZI2250	C110173	2021/02/16	2021/02/21 - 2021/02/23	2021/02/21 - 2021/02/23
LLE-18JAN21-M	LLE	SURFACE	ZE4654	C103883	2021/01/18	2021/01/24 - 2021/01/25	2021/01/24 - 2021/01/25
LLE-1FEB21-M	LLE	SURFACE	ZG3166	C106913	2021/02/01	2021/02/04 - 2021/02/07	2021/02/03 - 2021/02/09
LLE-1MAR21-M	LLE	MARCH MONTHLY	ZK4962	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/10
LLE-22FEB21-M	LLE	SURFACE	ZI4103	C111961	2021/02/22	2021/02/28 - 2021/03/01	2021/02/28 - 2021/03/01
LLE-22FEB21-R	LLE	SURFACE	ZI4104	C111961	2021/02/22	2021/02/28 - 2021/03/01	2021/02/28 - 2021/03/01
LLE-22MAR21-M	LLE	WEEKLY-SURFACE	ZN3538	C118894	2021/03/22	2021/03/25 - 2021/03/25	2021/03/25 - 2021/03/25
LLE-25JAN21-M	LLE	SURFACE	ZF7205	C106092	2021/01/25	2021/02/01 - 2021/02/01	2021/02/01 - 2021/02/01
LLE-4JAN21-M	LLE	SURFACE	ZC9638	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
LLE-8FEB21-M	LLE	SURFACE	ZH5524	C108734	2021/02/08	2021/02/16 - 2021/02/16	2021/02/16 - 2021/02/16
LLE-8FEB21-R	LLE	SURFACE	ZH5525	C108734	2021/02/08	2021/02/16 - 2021/02/17	2021/02/16 - 2021/02/17
LLE-9MAR21-M	LLE	WEEKLY-SURFACE	ZL5614	C115474	2021/03/09	2021/03/14 - 2021/03/14	2021/03/14 - 2021/03/14
LLS-1FEB21-M	LLS	SURFACE	ZG3172	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
LLS-1MAR21-M	LLS	MARCH MONTHLY	ZK4963	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/09
LLS-4JAN21-M	LLS	SURFACE	ZC9639	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
LLSM-11JAN21-M	LLSM	WEEKLY	ZD7258	C102299	2021/01/11	2021/01/14 - 2021/01/18	2021/01/14 - 2021/01/21
LLSM-1FEB21-M	LLSM	SURFACE	ZG3173	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
LLSM-1MAR21-M	LLSM	MARCH MONTHLY	ZK4964	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/09
LLSM-4JAN21-M	LLSM	SURFACE	ZC9640	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
PD5R-1FEB21-M	PD5R	SURFACE	ZG3158	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
PD5R-1MAR21-M	PD5R	MARCH MONTHLY	ZK4951	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/09
PD5R-4JAN21-M	PD5R	SURFACE	ZC9628	C100809	2021/01/04	2021/01/07 - 2021/01/11	2021/01/06 - 2021/01/12
SPC-1FEB21-M	SPC	SURFACE	ZG3160	C106913	2021/02/01	2021/02/04 - 2021/02/05	2021/02/03 - 2021/02/08
SPC-1MAR21-M	SPC	MARCH MONTHLY	ZK4952	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/10
SPC-4JAN21-M	SPC	SURFACE	ZC9629	C100809	2021/01/04	2021/01/11 - 2021/01/11	2021/01/07 - 2021/01/12
SPCEFF-15MAR21-M	SPCEFF	WEEKLY	ZM3658	C116951	2021/03/15	2021/03/18 - 2021/03/18	2021/03/18 - 2021/03/18
SPCEFF-16FEB21-M	SPCEFF	WEEKLY-SURFACE	ZI2248	C110173	2021/02/16	2021/02/21 - 2021/02/23	2021/02/21 - 2021/02/23
SPCEFF-18JAN21-M	SPCEFF	SURFACE	ZE4656	C103883	2021/01/18	2021/01/24 - 2021/01/25	2021/01/24 - 2021/01/25
SPCEFF-1FEB21-M	SPCEFF	SURFACE	ZG3170	C106913	2021/02/01	2021/02/04 - 2021/02/07	2021/02/03 - 2021/02/09
SPCEFF-1MAR21-M	SPCEFF	MARCH MONTHLY	ZK4956	C113684	2021/03/01	2021/03/04 - 2021/03/08	2021/03/03 - 2021/03/10
SPCEFF-22FEB21-M	SPCEFF	SURFACE	ZI4101	C111961	2021/02/22	2021/03/03 - 2021/03/03	2021/03/03 - 2021/03/03
SPCEFF-22MAR21-M	SPCEFF	WEEKLY-SURFACE	ZN3537	C118894	2021/03/22	2021/03/25 - 2021/03/25	2021/03/25 - 2021/03/25
SPCEFF-25JAN21-M	SPCEFF	SURFACE	ZF1931	C105128	2021/01/25	2021/01/27 - 2021/01/28	2021/01/27 - 2021/01/28
SPCEFF-4JAN21-M	SPCEFF	SURFACE	ZC9632	C100809	2021/01/04		

Table 29 - WD Discharge

EMS ID		E207409				
DISCHARGE FROM SETTLING POND # 4 (WD)						
Date	January	January	February	February	March	March
	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)
1	0.0700	0.0500	0.0440	0.0400	0.0840	0.0550
2	0.1160	0.0860	0.0450	0.0380	0.0860	0.0450
3	0.0830	0.0700	0.0470	0.0370	0.0190	0.0020
4	0.1470	0.1100	0.0450	0.0400	NF	NF
5	0.1790	0.1510	0.0440	0.0380	0.0340	0.0020
6	0.1870	0.1670	0.0440	0.0380	0.1050	0.0790
7	0.1540	0.1440	0.0770	0.0580	0.0800	0.0630
8	0.1320	0.1160	0.1360	0.0900	0.1140	0.0910
9	0.0880	0.0840	0.1440	0.1140	0.1310	0.1090
10	0.0830	0.0790	0.0980	0.0760	0.0810	0.0470
11	0.1030	0.0900	0.0990	0.0760	0.1200	0.0680
12	0.1300	0.1160	0.0880	0.0710	0.1290	0.0990
13	0.1270	0.0970	0.0810	0.0670	0.0680	0.0390
14	0.1050	0.0940	0.0630	0.0560	0.0840	0.0520
15	0.0980	0.0880	0.0960	0.0600	0.0840	0.0330
16	0.0930	0.0770	0.0950	0.0670	NF	NF
17	0.0900	0.0800	0.0500	0.0430	NF	NF
18	0.0770	0.0670	0.0640	0.0530	0.0850	0.0290
19	0.0770	0.0680	0.0510	0.0280	0.1540	0.1020
20	0.0700	0.0610	0.0400	0.0130	0.1960	0.1770
21	0.0540	0.0470	0.0650	0.0460	0.1820	0.1670
22	0.0520	0.0420	0.0670	0.0590	0.1440	0.0930
23	0.0450	0.0390	0.0810	0.0640	0.0810	0.0380
24	0.0460	0.0400	0.0840	0.0650	NF	NF
25	0.0400	0.0360	0.0830	0.0650	0.0070	0.0030
26	0.0470	0.0380	0.0690	0.0420	0.0050	0.0010
27	0.0400	0.0360	0.0830	0.0660	0.0010	0.0000
28	0.0520	0.0380	0.0440	0.0360	0.0340	0.0130
29	0.0490	0.0430			0.0460	0.0150
30	0.0480	0.0410			0.1420	0.0920
31	0.0470	0.0390			0.1430	0.1170
Monthly Max	0.1870		0.1440		0.1960	
Monthly Avg		0.0753		0.0552		0.0604

TSS is required weekly when max daily flow > 0.054m³/s

NF= No Flow

All flow data is subject to revisions

Table 30 - SPD Discharge

EMS ID		E218582				
DISCHARGE FROM SETTLING POND # 1 (SPD)						
Date	January	January	February	February	March	March
	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)
1	0.0470	0.0196	0.0870	0.0711	0.0400	0.0216
2	0.0120	0.0093	0.0780	0.0594	0.0660	0.0458
3	0.0090	0.0044	0.1030	0.0794	0.0310	0.0174
4	0.0060	0.0001	0.1120	0.0969	0.0550	0.0335
5	0.0120	0.0037	0.0980	0.0849	0.0420	0.0287
6	0.0140	0.0109	0.0820	0.0679	0.0260	0.0237
7	0.0330	0.0205	0.0740	0.0610	0.0580	0.0376
8	0.0520	0.0380	0.0630	0.0408	0.0450	0.0349
9	0.0870	0.0725	0.0640	0.0330	0.0590	0.0294
10	0.0690	0.0486	0.0520	0.0310	0.0760	0.0502
11	0.0510	0.0417	0.0320	0.0163	0.0390	0.0271
12	0.0620	0.0383	0.0490	0.0253	0.0350	0.0245
13	0.0630	0.0413	0.0190	0.0142	0.0730	0.0539
14	0.0660	0.0498	0.0460	0.0181	0.0470	0.0328
15	0.0650	0.0366	0.0280	0.0146	0.0740	0.0332
16	0.0750	0.0582	0.0420	0.0223	0.0730	0.0347
17	0.1640	0.1043	0.0250	0.0165	0.0760	0.0476
18	0.1830	0.1472	0.0530	0.0217	0.0560	0.0305
19	0.1330	0.0958	0.0550	0.0267	0.0310	0.0202
20	0.1790	0.0648	0.0250	0.0173	0.0660	0.0447
21	0.2560	0.2157	0.0230	0.0171	0.0380	0.0286
22	0.1790	0.1284	0.0240	0.0122	0.0650	0.0353
23	0.1170	0.1128	0.0640	0.0270	0.0590	0.0353
24	0.1110	0.0961	0.0650	0.0301	0.0290	0.0197
25	0.1000	0.0948	0.0470	0.0223	0.0510	0.0348
26	0.0950	0.0698	0.0380	0.0191	0.0420	0.0342
27	0.0610	0.0448	0.0640	0.0317	0.0350	0.0276
28	0.0910	0.0664	0.0550	0.0337	0.0600	0.0290
29	0.1160	0.0974			0.0690	0.0503
30	0.1160	0.0974			0.0510	0.0317
31	0.1160	0.0974			0.0560	0.0425

Monthly Max 0.2560 0.1120 0.0760
 Monthly Avg 0.06536 0.03611 0.03358

TSS is required weekly when max daily flow > 0.046m³/s

NF= No Flow

All flow data is subject to revisions

March 9th continuous flow was not recorded.

Table 31 - 7SSD Discharge

EMS ID E292069

DISCHARGE FROM 7-SOUTH SURFACE DECANT (7SSD)

	January	February	March
	Daily Average		
Date	L/S		
1	NF	NF	NF
2	NF	NF	NF
3	NF	NF	NF
4	NF	NF	NF
5	NF	NF	NF
6	NF	NF	NF
7	NF	NF	NF
8	NF	NF	NF
9	NF	NF	NF
10	NF	NF	NF
11	NF	NF	NF
12	NF	NF	NF
13	NF	NF	NF
14	NF	NF	NF
15	NF	NF	NF
16	NF	NF	NF
17	NF	NF	NF
18	NF	NF	NF
19	NF	NF	NF
20	NF	NF	NF
21	NF	NF	NF
22	NF	NF	NF
23	NF	NF	NF
24	NF	NF	NF
25	NF	NF	NF
26	NF	NF	NF
27	NF	NF	NF
28	NF	NF	NF
29	NF		NF
30	NF		NF
31	NF		NF
Monthly Avg	0.000	0.000	0.000
Annual Avg			
Cummulative Daily Totalizer Value			
For Maximum Decant Flow (5.00 L/s)			

Table 32 - 2S Discharge

EMS ID: E292127 2-South Pit Continuous Inflow and Outflow												
Date	2S Inflow						2S Outflow Culvert into 3S Pit					
	October Q (L/s)	November Q (L/s)	December Q (L/s)	January	February	March	October Q (L/s)	November Q (L/s)	December Q (L/s)	January Q (L/s)	February Q (L/s)	March Q (L/s)
1	2.204	4.440	7.471	16.940	5.230	6.102	4.884	9.323	22.426	32.952	7.459	8.167
2	2.242	4.428	5.357	26.258	6.461	4.944	4.361	9.183	19.360	71.379	7.451	8.205
3	2.246	10.182	3.636	16.062	7.775	5.102	4.399	17.782	16.022	52.957	8.120	8.104
4	2.434	10.054	3.313	20.957	6.010	5.922	4.588	21.137	13.284	61.267	8.631	8.339
5	2.200	9.591	3.321	14.845	7.865	13.534	4.604	21.356	11.848	50.293	8.859	10.678
6	2.180	6.715	3.351	18.467	6.420	9.313	4.538	18.652	11.104	57.833	9.361	12.034
7	2.124	5.818	8.094	8.331	5.920	8.907	4.262	15.770	15.496	44.528	9.309	11.659
8	2.206	5.018	10.640	8.119	5.634	6.430	4.649	13.360	21.998	31.204	8.587	11.188
9	2.899	4.406	8.145	4.138	4.949	6.596	5.262	12.437	20.688	21.775	8.121	10.756
10	3.370	3.588	6.780	4.427	4.792	6.569	5.366	11.579	18.742	15.522	8.200	9.782
11	2.834	2.969	6.857	8.733	4.070	5.688	6.534	9.858	17.458	16.329	7.605	9.180
12	2.849	2.112	5.600	10.518	3.411	5.283	7.392	9.548	15.988	18.281	7.506	9.043
13	5.864	3.851	5.747	15.662	4.911	4.186	11.546	10.050	15.048	21.931	7.384	8.310
14	4.353	3.390	5.270	5.155	3.531	6.106	9.399	10.141	14.217	20.891	7.344	8.502
15	3.511	4.754	5.369	4.775	4.964	5.274	8.079	11.292	14.593	18.519	6.808	7.411
16	4.328	6.179	3.540	2.820	5.215	4.644	8.831	13.530	13.749	16.019	6.557	7.267
17	4.055	24.739	5.331	3.332	4.023	4.490	8.249	37.722	14.055	13.979	6.249	7.091
18	6.256	12.742	9.819	4.623	3.485	4.661	12.096	38.506	18.119	12.466	6.692	7.222
19	10.232	6.743	11.198	7.562	4.402	7.339	10.934	27.457	PNC	11.366	6.329	7.885
20	3.756	3.230	8.582	3.959	4.147	6.465	14.436	19.517	27.385	10.669	6.398	7.642
21	1.315	2.046	7.034	1.564	6.601	5.399	8.192	14.870	23.982	9.906	7.237	7.815
22	0.869	1.701	6.685	1.338	8.646	5.852	6.090	12.521	21.104	9.246	8.042	7.524
23	2.349	1.718	4.930	0.900	7.324	4.978	6.840	11.029	18.338	8.740	8.638	7.725
24	1.925	3.123	4.508	1.046	4.505	5.515	6.609	11.982	16.465	8.636	9.026	7.697
25	1.222	5.898	5.015	1.786	5.480	5.692	6.344	12.428	16.031	8.107	9.007	7.039
26	2.411	8.707	10.091	3.791	6.364	5.392	6.171	17.462	21.505	7.948	8.798	6.863
27	5.096	6.802	7.810	4.765	5.383	4.704	6.493	17.743	22.509	7.727	8.567	7.272
28	5.209	6.653	6.839	4.737	4.639	5.480	8.459	17.315	21.116	7.147	8.433	7.199
29	4.886	5.343	6.998	4.039		5.033	9.182	16.223	19.556	7.188		6.568
30	6.856	13.221	12.715	4.893		4.511	11.772	23.837	26.371	7.074		6.422
31	5.013	6.888	13.355	6.558		3.897	10.199		31.312	7.411		6.461

Weekly Flow Requirements (L/s)

Site	LLE
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Flow: (L/S)

Date	January	February	March
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LLSM

(L/S)

January February March

LLS

(L/S)

January February March

(m)*

January February March

1	275	19	32	3	10	8	0.5	0.5	0.5	PNC	0.330508333	0.377075233
2	74	37	51	3	9	8	0.5	0.5	0.5	PNC	0.3195125	0.359800233
3	73	39	45	3	9	8	0.5	0.5	0.5	PNC	0.318241667	0.289133567
4	64	41	38	3	9	8	0.5	0.5	0.5	PNC	0.311654	0.3017919
5	58	37	199	3	9	14	0.5	0.5	0.5	PNC	0.434162733	0.3440169
6	62	37	226	3	10	12	0.5	0.5	0.5	PNC	0.358737733	0.359150233
7	80	21	204	3	10	12	0.5	0.5	0.5	PNC	0.3594294	0.356087733
8	87	199	137	3	10	12	0.5	0.5	0.5	PNC	0.379675233	0.3737169
9	87	226	79	13	9	13	0.5	0.5	0.5	PNC	0.406212733	0.363333567
10	62	5	82	24	9		0.5	0.5	0.5	PNC	0.411008567	0.370587733
11	248	7	60	25	8	13	0.5	0.5	0.5	PNC	0.3997169	0.440200233
12	180	256	42	25	8		0.5	0.5	0.5	PNC	0.3505419	0.450225233
13	117	89	36	25	7		0.5	0.5	0.5	PNC	0.287987733	0.3713794
14	100	2	39	26	7		0.5	0.5	0.5	PNC	0.277846067	0.296972878
15	52	2	12	31	7		0.5	0.5	0.5	PNC	0.217412733	0.4048169
16	44	13	28	32	7	8	0.5	0.5	0.3	PNC	0.342425233	0.393283567
17	20	291	24	34	6	8	0.5	0.5	0.3	PNC	0.432375233	0.3351169
18	25	21	24	33	6		0.5	0.5	0.3	PNC	0.3332794	0.252996067
19	32	17	41	31	6		0.5	0.5	0.3	PNC	0.3227669	0.298112733
20	68	130	66	28	6		0.5	0.5	0.3	PNC	0.3785294	0.388350233
21	138	17	78	26	5		0.5	0.5	0.3	PNC	0.3711044	0.379821067
22	101	44	62	23	6	8	0.5	0.5	0.3	PNC	0.423950233	0.3830919
23	119	90	48	21	7		0.5	0.5	0.3	PNC	0.479858567	0.4775544
24	152	224	38	20	7		0.5	0.5	0.3	PNC	0.517996067	0.307662733
25	128	49	36	18	8		0.5	0.5	0.3	PNC	0.3487419	0.318933567
26	13	41	28	17	8		0.5	0.5	0.3	PNC	0.355650233	0.402221067
27	9	25	26	16	8		0.5	0.5	0.3	PNC	0.4285919	0.412287733
28	46	16	26	15	8		0.5	0.5	0.3	0.254525	0.412808567	0.2793919
29	46		24	15		8	0.5	0.5	0.3	0.268670833		0.435071067
30	74		19	14			0.5	0.5	0.3	0.2806125		0.471150233
31	57		18	13			0.5	0.5	0.3	0.340341667		0.416762733

Monthly	87	71	60
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17.83	7.68	9.78
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0.50	0.500	0.371
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0.29	0.368	0.368
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Notes:

LLE -January through February. Beaver activity (dams and dam release) caused sensor errors and fluctuation anomalies (**red bold**). Logs had to be removed from under the sensor daily.

Removed LLSM flow meter sensor to replace SPD sensor, where continuous flow is required.

Data is not compensated with barometric pressure instrument sent out for repair. January 1-27 continuous monitoring data from the hydro-metric station was unrecoverable for 27 days in Q4.

Table 34 - Groundwater Description				
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 Underground Workings Dewatering well
	5 Mains#2 (5M#2)	In-situ	No. 1 Seam	Flooded Underground Workings Dewatering well
	QU08-21GD	Ex-situ	No. 1 Seam	Down gradient of u/g tailings disposal, measure water quality and hydraulic gradients downstream of forjan fault
	QU08-21GS	Ex-situ	No. 4 Coal Seam and	
	QU10-10D	Ex-situ	No. 1 Seam / mudstone	Down gradient of u/g tailings disposal, measure water quality and hydraulic head downstream of 2 North workings
	QU10-10S	Ex-situ	No. 4 Seam /	
	QU10-11S	Ex-situ	Fractured Sandstone	Measure water quality and hydraulic gradient in Forjan Fault
	QU10-11D	Ex-situ	No.1 Seam	Down gradient of u/g tailings disposal, measure water quality and hydraulic head downstream of 2 North workings
	QU10-13D	In-situ	Caved Zone	Measure hydraulic head above 2 North mine (1 mains), fine tailing disposal
5-South Mine Pool	5SMW	In-situ	Mine Pool (1 Seam)	5-S Mine Pool pumped into 2-North Mine Pool
River Barrier Pillar (RBP)	QU11-05S	Ex-situ	Sandstone	Monitoring water quality and vertical gradients downstream of the RBP and 2-North mine.
	QU11-05D	Ex-situ	Sandstone	Monitoring water quality and vertical gradients downstream of the RBP and 2-North mine.
	QU11-09S	Ex-situ	Sandstone	Monitor water quality & gradients downstream of the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar
	QU11-09M	In-situ	RBP Mine Pool	Monitor water quality & gradients downstream of the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar.
2-North Plant Site	MW-00-1S	Ex-situ	Till	Seepage to MQL
	MW-00-1D	Ex-situ	1-Seam	Seepage to MQL
	MW-00-6D	Ex-situ	Till	Seepage to MQL
	MW-00-6S	Ex-situ	Till	Seepage to MQL
4-South	QU10-08D	Ex-situ	No. 3 Seam	4 South (just outside mine pool) up gradient of existing workings
	QU11-01		Foot print area of 4 South GOB	Assess 4 South Mine Pool water quality
	QU10-09S	Ex-situ	Down gradient of existing workings	Access vertical gradients and water quality adjacent to Long Lake.
	QU10-09D	Ex-situ	Down gradient of existing workings	Access vertical gradients and water quality adjacent to Long Lake.
2-South & 3-South	MW002	Ex-situ	1 Seam	3S seepage to Long Lake
	MW004	In-Situ	Mine Pool (1 Seam)	2-South Mine Pool Gob depillared area
	MW1223	Ex-situ	Silt Stone	2-South seepage to No Name Lake
	MW1224	Ex-situ	Silt Stone	2-South seepage to No Name Lake
	QU11-11 (INF)	In-Situ	Mine Pool (1 Seam)	2-South mine pool dewatering well for Passive Treatment System
7-South	1M7S	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	Down Gradient of the CCR backfill towards QR
	QU08-13B	Ex-situ	Till & SST contact	Down Gradient of the CCR backfill towards QR
	QU14-10	In-Situ	Mine Void	PAG Storage Mine Void
7- South Area 5	7SA5	In-Situ	Mine Void	Groundwater draining into mine void
	QU1128	Ex-situ	N0. 4 Seam and 4L	Upgradiernt of 7SA5. Background 7 South Area 5
	QU1118S	Ex-situ	Till	Down Gradient of 7SA5 - Background info for 7S A5 Subcrop
	QU1118D	Ex-situ	Sandstone	Down Gradient of 7SA5 - Background info for 7S A5 Subcrop
	QU1206S	Ex-situ	Faulted sandstone near No. 4 Seam	Upgradient of 7SA5 along margine with proposed 4S expansion
	QU11-35	Ex-situ	Sandstone above No. 4 Seam	South end of 7SA5 footprint at 100280m N (mine grid)
242 AREA	QU11-36S	Ex-situ	Sandstone below No. 5 seam	Downgradient of 7SA5. Background (Between 242 and IR).
	QU11-36D	Ex-situ	Sandstone below No. 5 seam	Downgradient of 7SA5. Background (Between 242 and IR).
	242MW	In-situ	No. 4 Seam	Mine pool
	242PS	Ex-situ	Shallow groundwater/ rain water	Old Portal Sump

Table 35 - Groundwater								
Ex-situ Groundwater			88 Panel River Barrier Pillar		River Barrier Pillar			
Well ID		QU1109M		QU1109M	QU1105S	QU1105D	QU0810	QU0813A
Date		17-Mar-21		17-Mar-21	16-Mar-21	16-Mar-21	26-Jan-21	10-Feb-21
	QA/QC			QA/QC				
Parameter	Units	CSR Freshwater Aquatic Life ©						
SO4-D	mg/L	1280	1300	1300	510	430	530	42
H2S	mg/L	0.02	0.0914	0.0298	0.0404	13.8	0.000957	0.223
Turb	NTU		330	280	27	55	9.6	2.0
Alk-T	mg/L		460	460	470	270	210	190
Acidity83	mg/L		49.0	47.8	7.7	3.6	5.1	<1.0
N-D	mg/L		0.302	0.312	0.386	0.454	0.235	0.324
DOC	mg/L		1.4	0.82	0.96	<2.0	1.4	0.92
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		560	560	580	330	260	230
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	30	30	23	1300	1.9	20
F-D	mg/L	2	0.094	0.093	0.37	<0.050	0.34	0.77
Br-D	mg/L		0.17	0.19	0.085	2.1	0.064	0.033
P-D	mg/L		0.0040	0.0014	0.0075	0.046	0.0062	0.030
Al-D	mg/L		<0.0060	0.0061	<0.0030	<0.015	<0.0060	<0.0030
Ag-D	mg/L		<0.000040	<0.000040	<0.000020	<0.00010	<0.000040	<0.000020
As-D	mg/L	0.05	0.00449	0.00487	0.115	0.00100	0.00082	0.417
Ba-D	mg/L	10	0.0189	0.0210	0.112	0.119	0.0611	0.277
B-D	mg/L	50	1.13	1.11	1.28	0.43	0.27	0.773
Be-D	mg/L	0.053	<0.00020	<0.00020	<0.00010	<0.00050	<0.00020	<0.00010
Bi-D	mg/L		<0.0020	<0.0020	<0.0010	<0.0050	<0.0020	<0.0010
Cd-D	mg/L		<0.000020	<0.000020	<0.000010	<0.000050	0.000086	<0.000010
Ca-D	mg/L		219	229	99.3	161	225	37.4
Cr-D	mg/L	0.010	<0.0020	<0.0020	<0.0010	<0.0050	<0.0020	<0.0010
Co-D	mg/L	0.04	0.0128	0.0138	<0.00020	<0.0010	0.00578	<0.00020
Cu-D	mg/L		<0.00040	0.00052	<0.00020	<0.0010	0.00209	<0.00020
Fe-D	mg/L		32.3	34.2	2.23	<0.025	0.199	0.236
Hard-D	mg/L		658	682	311	423	753	132
Pb-D	mg/L		<0.00040	<0.00040	<0.00020	<0.0010	<0.00040	<0.00020
Mg-D	mg/L		26.8	26.7	15.2	5.25	46.3	9.26
Mn-D	mg/L		1.67	1.83	0.218	0.0656	0.583	0.0425
Hg-D	mg/L	0.001	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		470	470	321	900	14.0	55.3
Mo-D	mg/L	10	<0.0020	<0.0020	<0.0010	<0.0050	<0.0020	<0.0010
Ni-D	mg/L		0.0080	0.0086	<0.0010	<0.0050	0.0115	<0.0010
K-D	mg/L		6.69	6.97	6.62	4.84	4.90	2.30
S-D	mg/L		419	422	186	155	197	13.2
Sb-D	mg/L	0.2	<0.0010	<0.0010	<0.00050	<0.0025	<0.0010	<0.00050
Se-D	mg/L	0.01	<0.00020	<0.00020	<0.00010	<0.00050	<0.00020	0.00105
Si-D	mg/L		3.94	4.19	5.01	4.00	3.62	3.95
Sr-D	mg/L		2.34	2.61	1.69	2.01	1.88	0.568
Tl-D	mg/L	0.003	<0.000020	<0.000020	<0.000010	<0.000050	0.000050	<0.000010
Ti-D	mg/L	1.00	<0.010	<0.010	<0.0050	<0.025	<0.010	<0.0050
U-D	mg/L	3	<0.00020	<0.00020	<0.00010	<0.00050	0.00325	<0.00010
V-D	mg/L		<0.010	<0.010	<0.0050	<0.025	<0.010	<0.0050
Zn-D	mg/L		<0.010	<0.010	<0.0050	<0.025	<0.010	<0.0050

Table 35 - Groundwater					
7-South		QU0813B		7-South Area 5	4-South Area
Date	Well ID	10-Feb-21		QU1206S 4-Mar-21	QU1008D 21-Jan-21
	QA/QC				
Parameter	Units	CSR Freshwater Aquatic Life ©			
SO4-D	mg/L	1280	50	1.5	2.0
H2S	mg/L	0.02	0.0521	0.298	0.0404
Turb	NTU		35	1.0	30
Alk-T	mg/L		210	280	300
Acidity83	mg/L		<1.0	<1.0	<1.0
N-D	mg/L		0.206	0.242	0.263
DOC	mg/L		0.56	2.5	3.9
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		250	320	350
Carb	mg/L		2.5	8.9	6.2
Cl-D	mg/L	1500	24	4.4	4.4
F-D	mg/L	2	0.61	2.0	2.0
Br-D	mg/L		0.034	<0.010	<0.010
P-D	mg/L		0.030	0.15	0.17
Al-D	mg/L		0.0041	0.0062	0.0044
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
As-D	mg/L	0.05	0.459	0.391	0.151
Ba-D	mg/L	10	0.110	0.0630	0.0260
B-D	mg/L	50	1.00	1.72	2.14
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
Ca-D	mg/L		37.8	3.49	2.56
Cr-D	mg/L	0.010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.04	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020	<0.00020
Fe-D	mg/L		0.220	0.0314	0.117
Hard-D	mg/L		126	11.1	7.42
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Mg-D	mg/L		7.71	0.576	0.250
Mn-D	mg/L		0.0743	0.0950	0.156
Hg-D	mg/L	0.001	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		71.7	125	124
Mo-D	mg/L	10	0.0012	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010
K-D	mg/L		2.11	1.14	0.659
S-D	mg/L		15.1	<3.0	<3.0
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	0.00036	0.00247
Si-D	mg/L		4.24	3.74	5.23
Sr-D	mg/L		0.459	0.146	0.0676
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1.00	<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

Table 35 - Groundwater						
In-situ Groundwater		2-North Mine Pool				
Well ID		1-Mains 2North QU1013D	5-Mains 2North 5M#2	3M2N	3-Mains 2North 3M2N	3M2N
Date		16-Mar-21	25-Mar-21	9-Feb-21	15-Mar-21	24-Mar-21
	QA/QC					
Parameter	Units					
SO4-D	mg/L	1400	230	690	1200	
H2SEquiv	mg/L	0.0776	0.0255		0.00393	
Turb	NTU	67	4.9	1.6	180	
Alk-T	mg/L	490	600	430	430	
Acidity83	mg/L	44.3	7.3	<1.0	32.8	
N-D	mg/L	0.420				
DOC	mg/L	0.82	0.70	0.76		
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	
Bicarb	mg/L	600	740	530	520	
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	
Cl-D	mg/L	13		3.6	6.2	
F-D	mg/L	0.077		0.15	0.12	
Br-D	mg/L	0.17		0.069	0.12	
P-D	mg/L	0.0048	<0.0030	<0.0030		
Al-D	mg/L	<0.0060	<0.0060	<0.0030	0.0093	<0.0060
Ag-D	mg/L	<0.000040	<0.000040	<0.000020	<0.000040	<0.000040
As-D	mg/L	0.00633	0.00861	0.00044	0.00167	0.00094
Ba-D	mg/L	0.0527	0.0379	0.0140	0.0165	0.0155
B-D	mg/L	1.06	1.16	0.730	1.17	1.04
Be-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020
Bi-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020
Cd-D	mg/L	<0.000020	<0.000020	0.000024	<0.000020	<0.000020
Ca-D	mg/L	297	61.8	110	201	164
Cr-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020
Co-D	mg/L	<0.00040	<0.00040	0.00063	0.122	0.0773
Cu-D	mg/L	<0.00040	<0.00040	0.00160	0.00197	0.00253
Fe-D	mg/L	11.9	0.709	0.0730	22.9	13.3
Hard-D	mg/L	856	177	340	612	505
Pb-D	mg/L	<0.00040	<0.00040	<0.00020	<0.00040	<0.00040
Mg-D	mg/L	27.5	5.37	15.6	27.0	22.9
Mn-D	mg/L	1.36	0.103	0.133	2.03	1.35
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Na-D	mg/L	438	282	301	445	357
Mo-D	mg/L	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020
Ni-D	mg/L	<0.0020	<0.0020	0.0014	0.150	0.0975
K-D	mg/L	6.73	2.77	3.43	4.40	3.86
S-D	mg/L	447	74.9	223	398	320
Sb-D	mg/L	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010
Se-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020
Si-D	mg/L	4.54	3.41	2.94	3.62	3.57
Sr-D	mg/L	3.10	0.731	1.36	1.89	1.58
Tl-D	mg/L	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020
Ti-D	mg/L	<0.010	<0.010	<0.0050	<0.010	<0.010
U-D	mg/L	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020
V-D	mg/L	<0.010	<0.010	<0.0050	<0.010	<0.010
Zn-D	mg/L	<0.010	0.093	<0.0050	0.023	0.016

Table 35 - Groundwater

In-situ Groundwater		3-South Pit	2/3 South Mine Pool				4-South Mine Pool	
Well ID		MW002	QU1111	QU1111	QU1111	MW004	QU1101	QU1101
Date		3-Feb-21	4-Jan-21	1-Feb-21	1-Mar-21	3-Feb-21	28-Jan-21	28-Jan-21
	QA/QC							QA/QC
Parameter	Units							
SO4-D	mg/L	1300	600	570	630	340	1600	1600
H2SEquiv	mg/L	0.000957	0.00287	0.000957	0.00446	0.000957	0.0234	0.0234
Turb	NTU	44				1.8	650	660
Alk-T	mg/L	280	250	310	310	91	73	74
Acidity83	mg/L	8.5	19.5	9.5	17.6	2.0	108	111
N-D	mg/L	0.283				0.219	0.425	0.463
DOC	mg/L	1.1				2.0	2.0	2.1
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	340	300	370	380	110	89	91
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	2.2				<1.0	3.3	2.9
F-D	mg/L	0.13				0.064	0.41	0.41
Br-D	mg/L	0.17				0.074	0.11	0.12
P-D	mg/L	<0.0030				<0.0030	0.0081	0.0081
Al-D	mg/L	<0.015	0.0041	0.0033	<0.0030	0.0055	<0.015	0.035
Ag-D	mg/L	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.00010	<0.00010
As-D	mg/L	0.00220	0.00462	0.00348	0.00393	0.00030	0.116	0.114
Ba-D	mg/L	0.0144	0.0214	0.0219	0.0222	0.0209	0.0117	0.0114
B-D	mg/L	0.85	0.587	0.666	0.586	0.181	1.12	1.05
Be-D	mg/L	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00050	<0.00050
Bi-D	mg/L	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0050
Cd-D	mg/L	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000050	<0.000050
Ca-D	mg/L	484	220	225	226	131	379	371
Cr-D	mg/L	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0050
Co-D	mg/L	0.0032	0.00169	0.00099	0.00060	0.00023	<0.0010	<0.0010
Cu-D	mg/L	<0.0010	<0.00020	0.00036	<0.00020	0.00162	<0.0010	<0.0010
Fe-D	mg/L	4.24	3.99	3.20	3.28	0.0090	176	175
Hard-D	mg/L	1410	606	619	617	391	1180	1160
Pb-D	mg/L	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010
Mg-D	mg/L	48.7	13.5	13.6	12.9	15.7	56.6	55.8
Mn-D	mg/L	1.47	0.429	0.360	0.356	0.0253	2.52	2.52
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	62.6	99.6	114	101	26.4	138	137
Mo-D	mg/L	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0050
Ni-D	mg/L	<0.0050	0.0025	0.0016	0.0011	0.0019	<0.0050	<0.0050
K-D	mg/L	5.21	1.71	1.85	1.77	1.33	6.33	6.38
S-D	mg/L	433	199	212	202	120	508	501
Sb-D	mg/L	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.0025	<0.0025
Se-D	mg/L	<0.00050	0.00069	<0.00010	<0.00010	<0.00010	<0.00050	<0.00050
Si-D	mg/L	3.95	3.54	3.56	3.46	3.63	5.90	5.70
Sr-D	mg/L	4.30	2.04	2.22	2.30	1.00	1.93	1.89
Tl-D	mg/L	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000050	<0.000050
Ti-D	mg/L	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.025
U-D	mg/L	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00050	<0.00050
V-D	mg/L	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.025
Zn-D	mg/L	<0.025	<0.0050	0.0054	<0.0050	0.0188	<0.025	<0.025

Table 35 - Groundwater

In-situ Groundwater		5-South Mine Pool	242 Mine Pool		7 South Portal Sump		7-South Area 5 Sump
Well ID		5SMW	242MW	7SPS	7SPS	7SPS	7SA5
Date		18-Feb-21	23-Feb-21	4-Jan-21	1-Feb-21	1-Mar-21	5-Jan-21
	QA/QC						
Parameter	Units						
SO4-D	mg/L	410	41	86	140	190	27
H2SEquiv	mg/L	0.0223	0.000957				
Turb	NTU	260	85				1.4
Alk-T	mg/L	240	120	16	66	110	170
Acidity83	mg/L	14.2	8.0	4.6	2.7	4.1	<1.0
N-D	mg/L		0.146				
DOC	mg/L		<0.50				
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	290	150	19	81	130	200
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	4.6	<1.0				1.5
F-D	mg/L	0.15	0.077				0.52
Br-D	mg/L	0.047	<0.010				<0.010
P-D	mg/L		<0.0030				
Al-D	mg/L	0.0230	<0.0030	0.0085	0.0153	0.0056	<0.0030
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.00322	0.0680	0.00012	0.00077	0.00078	0.233
Ba-D	mg/L	0.0350	0.0697	0.0085	0.0108	0.0131	0.153
B-D	mg/L	0.867	0.057	<0.050	<0.050	0.056	0.505
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L	<0.000010	<0.000010	0.000024	0.000027	0.000022	<0.000010
Ca-D	mg/L	77.1	38.8	26.2	54.6	64.5	41.2
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.0430	0.00184	0.00377	0.00382	0.00336	<0.00020
Cu-D	mg/L	0.00067	0.00159	0.00172	0.00182	0.00107	<0.00020
Fe-D	mg/L	22.6	11.9	0.262	1.75	1.67	<0.0050
Hard-D	mg/L	250	111	92.1	189	223	140
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	13.9	3.32	6.46	12.9	15.0	8.95
Mn-D	mg/L	0.561	0.657	0.122	0.162	0.150	0.0086
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	184	2.26	1.56	3.58	4.55	23.1
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
Ni-D	mg/L	0.0686	0.0012	0.0072	0.0077	0.0066	<0.0010
K-D	mg/L	5.05	0.454	0.431	0.658	0.793	2.05
S-D	mg/L	141	12.0	26.2	48.4	55.7	12.4
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	<0.00010	<0.00010	0.00018	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.23	3.41	2.45	4.54	4.19	4.85
Sr-D	mg/L	0.882	0.0663	0.0884	0.203	0.255	0.526
Tl-D	mg/L	<0.000010	0.000023	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00013	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.0109	<0.0050	0.0109	0.0137	0.0123	<0.0050

Table 35 - Groundwater

In-situ Groundwater		Water Cover Over PAG-CCR				
Well ID		88 Panel River Barrier Pillar		7-South 2-Mains		
Date		QU1109M 17-Mar-21	QU1109M 17-Mar-21	QU1410 19-Jan-21	QU1410 24-Feb-21	QU1410 24-Feb-21
	QA/QC		QA/QC			QA/QC
Parameter	Units					
SO4-D	mg/L	1300	1300	1900	1900	1800
H2SEquiv	mg/L	0.0914	0.0298	0.000957	0.000957	0.000957
Turb	NTU	330	280	21	12	23
Alk-T	mg/L	460	460	300	300	290
Acidity83	mg/L	49.0	47.8	<1.0	16.5	18.6
N-D	mg/L	0.302	0.312	0.367	0.276	0.247
DOC	mg/L	1.4	0.82	1.8	1.2	1.1
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	560	560	370	370	360
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	30	30	5.1	5.5	5.7
F-D	mg/L	0.094	0.093	0.15	0.17	0.17
Br-D	mg/L	0.17	0.19	0.22	0.20	0.21
P-D	mg/L	0.0040	0.0014	0.0031	0.0045	0.0052
Al-D	mg/L	<0.0060	0.0061	<0.015	<0.015	<0.015
Ag-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	<0.00010
As-D	mg/L	0.00449	0.00487	0.102	0.0893	0.0880
Ba-D	mg/L	0.0189	0.0210	0.0151	0.0145	0.0148
B-D	mg/L	1.13	1.11	1.01	1.10	1.10
Be-D	mg/L	<0.00020	<0.00020	<0.00050	<0.00050	<0.00050
Bi-D	mg/L	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050
Cd-D	mg/L	<0.000020	<0.000020	<0.000050	<0.000050	<0.000050
Ca-D	mg/L	219	229	526	494	495
Cr-D	mg/L	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050
Co-D	mg/L	0.0128	0.0138	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	<0.00040	0.00052	<0.0010	<0.0010	<0.0010
Fe-D	mg/L	32.3	34.2	1.91	1.75	1.75
Hard-D	mg/L	658	682	2010	1900	1880
Pb-D	mg/L	<0.00040	<0.00040	<0.0010	<0.0010	<0.0010
Mg-D	mg/L	26.8	26.7	169	161	158
Mn-D	mg/L	1.67	1.83	1.50	1.30	1.28
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	470	470	56.6	53.5	52.7
Mo-D	mg/L	<0.0020	<0.0020	0.0093	<0.0050	<0.0050
Ni-D	mg/L	0.0080	0.0086	<0.0050	<0.0050	<0.0050
K-D	mg/L	6.69	6.97	7.75	6.90	6.75
S-D	mg/L	419	422	613	586	576
Sb-D	mg/L	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025
Se-D	mg/L	<0.00020	<0.00020	<0.00050	<0.00050	<0.00050
Si-D	mg/L	3.94	4.19	3.19	3.07	3.06
Sr-D	mg/L	2.34	2.61	4.52	4.46	4.29
Tl-D	mg/L	<0.000020	<0.000020	<0.000050	<0.000050	<0.000050
Ti-D	mg/L	<0.010	<0.010	<0.025	<0.025	<0.025
U-D	mg/L	<0.00020	<0.00020	0.00082	0.00089	0.00089
V-D	mg/L	<0.010	<0.010	<0.025	<0.025	<0.025
Zn-D	mg/L	<0.010	<0.010	<0.025	<0.025	<0.025

Table 36 - Precipitation			
Daily Precipitation (mm)			
DATE	JAN	FEB	MAR
1	2.4	4	1.3
2	24	4.3	1.1
3	24	6.3	0
4	3.1	3.1	0
5	22.9	6.3	6.1
6	33.4	0.3	21.9
7	0	0.6	1.2
8	0	0	3.1
9	1.6	0	1.5
10	5.1	0	1.3
11	1.8	0	0
12	20.5	0	0
13	17.1	0	0
14	8.8	0.1	0
15	0	2.8	8.4
16	0	6.4	0
17	1.6	5.4	0
18	0.4	0	0
19	0	0.4	1.3
20	0.9	1.3	14.6
21	0.2	0.1	0.9
22	0	20.4	1.9
23	0.1	0.5	0.2
24	0	1.6	0.4
25	0	0.1	4.4
26	3.4	4.1	0
27	1.9	0	0
28	2.5	0.4	0.6
29	4.8		4.8
30	1.2		0
31	2		0
Monthly Total (mm)	183.70	68.50	75.00
Quarterly Totals (mm)	327.20		

Table 37 - Unauthorized Discharge

Unauthorized Discharge from Groundwater Well (QU1109M)

Received Date From 2021/03/17

Received Date To 2021/04/26

Criteria 1

BC Approved WQG - 2019 - MAX

Site Location COC# BV Labs Job # Sample ID BV Labs Sample ID Matrix Sampled By Sampling Date			QU1109M						Discharge Entering River			
			20210413 C123766 QU1109M-13APR21-M ZP6632 Water KR 13-Apr-21		2021031701 C117537 QU1109M-17MAR21-M ZM6176 Water KR 17-Mar-21		2021031701 C117537 QU1109M-17MAR21-R ZM6177 Water KR 17-Mar-21		20210323 C118891 S-22MAR21-M ZN3529 Water KR 22-Mar-21		20210413 C123766 S-13APR21-M ZP6631 Water KR 13-Apr-21	
			Result	DL	Result	DL	Result	DL	Result	DL	Result	DL
			Units		Units		Units		Units		Units	
			Parameter Name	Criteria 1								
Acidity (pH 4.5)		mg/L	<1.0	1	<1.0	1	<1.0	1	<1.0	1	<1.0	1
Acidity (pH 8.3)		mg/L	22.2	1	49	1	47.8	1	<1.0	1	<1.0	1
Alkalinity (PP as CaCO3)		mg/L	<1.0	1	<1.0	1	<1.0	1	6.8	1	11	1
Alkalinity (Total as CaCO3)		mg/L	500	1	460	1	460	1	440	1	460	1
Bicarbonate (HCO3)		mg/L	600	1	560	1	560	1	520	1	530	1
Dissolved Bromide (Br)		mg/L	0.17	0.05	0.17	0.02	0.19	0.01	0.096	0.01	0.1	0.01
Carbonate (CO3)		mg/L	<1.0	1	<1.0	1	<1.0	1	8.2	1	14	1
Hydroxide (OH)		mg/L	<1.0	1	<1.0	1	<1.0	1	<1.0	1	<1.0	1
Dissolved Chloride (Cl)	500	mg/L	26	1	30	1	30	1	38	1	39	1
Dissolved Sulphate (SO4)		mg/L	1300	10	1300	10	1300	10	290	10	300	10
Dissolved Fluoride (F)	0.4	mg/L	0.13	0.05	0.094	0.05	0.093	0.05	0.48	0.05	0.49	0.05
Turbidity		NTU			330	0.1	280	0.1				
Filter and HNO3 Preservation		N/A	FIELD	N/A	FIELD	N/A	FIELD	N/A	FIELD	N/A	FIELD	N/A
Dissolved Hardness (CaCO3)		mg/L	608	0.5	658	0.5	682	0.5	141	0.5	136	0.5
Dissolved Aluminum (Al)	0.023	mg/L	<0.0060	0.006	<0.0060	0.006	0.0061	0.006	0.0077	0.006	0.0046	0.003
Dissolved Antimony (Sb)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.00050	0.0005
Dissolved Arsenic (As)		mg/L	0.0106	0.0002	0.00449	0.0002	0.00487	0.0002	0.0444	0.0002	0.0483	0.0001
Dissolved Barium (Ba)		mg/L	0.0214	0.002	0.0189	0.002	0.021	0.002	0.0667	0.002	0.0711	0.001
Dissolved Beryllium (Be)		mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00010	0.0001
Dissolved Bismuth (Bi)		mg/L	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	<0.0010	0.001
Dissolved Boron (B)		mg/L	1.17	0.1	1.13	0.1	1.11	0.1	1.58	0.1	1.65	0.05
Dissolved Cadmium (Cd)	0.0000085	mg/L	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002	<0.000010	0.00001
Dissolved Chromium (Cr)		mg/L	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	<0.0010	0.001
Dissolved Cobalt (Co)		mg/L	0.00385	0.0004	0.0128	0.0004	0.0138	0.0004	<0.00040	0.0004	0.00045	0.0002
Dissolved Copper (Cu)	0.0009	mg/L	<0.00040	0.0004	<0.00040	0.0004	0.00052	0.0004	<0.00040	0.0004	<0.00020	0.0002
Dissolved Iron (Fe)	0.35	mg/L	29.3	0.01	32.3	0.01	34.2	0.01	0.117	0.01	0.157	0.005
Dissolved Lead (Pb)		mg/L	<0.00040	0.0004	<0.00040	0.0004	<0.00040	0.0004	<0.00040	0.0004	<0.00020	0.0002
Dissolved Lithium (Li)		mg/L	0.0323	0.004	0.0234	0.004	0.0233	0.004	0.0571	0.004	0.0715	0.002
Dissolved Manganese (Mn)		mg/L	1.36	0.002	1.67	0.002	1.83	0.002	0.126	0.002	0.247	0.001
Dissolved Molybdenum (Mo)		mg/L	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	<0.0010	0.001
Dissolved Nickel (Ni)		mg/L	<0.0020	0.002	0.008	0.002	0.0086	0.002	<0.0020	0.002	<0.0010	0.001
Dissolved Selenium (Se)		mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00010	0.0001
Dissolved Silicon (Si)		mg/L	4.09	0.2	3.94	0.2	4.19	0.2	4.49	0.2	4.69	0.1
Dissolved Silver (Ag)		mg/L	<0.000040	0.00004	<0.000040	0.00004	<0.000040	0.00004	<0.000040	0.00004	<0.000020	0.00002
Dissolved Strontium (Sr)		mg/L	2.31	0.002	2.34	0.002	2.61	0.002	0.562	0.002	0.584	0.001
Dissolved Thallium (Tl)		mg/L	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002	<0.000010	0.00001
Dissolved Tin (Sn)		mg/L	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.0050	0.005
Dissolved Titanium (Ti)		mg/L	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.0050	0.005
Dissolved Uranium (U)		mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	0.0001	0.0001
Dissolved Vanadium (V)		mg/L	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.0050	0.005
Dissolved Zinc (Zn)		mg/L	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.010	0.01	<0.0050	0.005
Dissolved Zirconium (Zr)		mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00010	0.0001
Dissolved Calcium (Ca)		mg/L	204	0.1	219	0.1	229	0.1	41.5	0.1	39.8	0.05
Dissolved Magnesium (Mg)		mg/L	24	0.1	26.8	0.1	26.7	0.1	8.94	0.1	8.96	0.05
Dissolved Potassium (K)		mg/L	6.37	0.1	6.69	0.1	6.97	0.1	4.16	0.1	4.36	0.05
Dissolved Sodium (Na)		mg/L	462	0.1	470	0.1	470	0.1	279	0.1	297	0.05
Dissolved Sulphur (S)		mg/L	405	6	419	6	422	6	101	6	115	3
Dissolved Mercury (Hg)		mg/L	<0.0000019	0.0000019	<0.0000019	0.0000019	<0.0000019	0.0000019	<0.0000019	0.0000019	<0.0000019	0.0000019
Dissolved Organic Carbon (C)		mg/L	0.85	0.5	1.4	0.5	0.82	0.5	1.5	0.5	1.7	0.5
Dissolved Phosphorus (P)		mg/L	<0.0030	0.003	0.004	0.001	0.0014	0.001	<0.0030	0.003	<0.0030	0.003
Dissolved Nitrogen (N)		mg/L	0.321	0.02	0.302	0.02	0.312	0.02	0.284	0.02	0.251	0.02
LEGEND												
"N/A"		Not Applicable										
Bold & Red		Exceedance										
Red with White Text		Exceeds Both Criteria										
Highlighted		DL > Criteria										
Disclaimer: This is not an official certificate of analysis. For QC data and comments, please refer to the original reports issued by BV Labs.												

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Unauthorized Discharge from Groundwater Well (OU1109M)

Unauthorized Discharge from Groundwater Well (QU1109M)	
Received Date From	2021/03/17
Received Date To	2021/04/26
Criteria 1	BC Approved WOG - 2019 - MAX

Site Location COC# BV Labs Job # Sample ID BV Labs Sample ID Matrix Sampled By Sampling Date			Quinsam River Upstream		Quinsam River Downstream							
			2021031703 C117540 QRUS ZM6192 Water KR 17-Mar-21		2021031703 C117540 QRDS ZM6193 Water KR 17-Mar-21		C122385 QRDS-6APR21-M ZP6643 Water KR 6-Apr-21		C123767 QRDS-13APR21-M ZP6641 Water KR 13-Apr-21		C125275 QRDS-19APR21-M ZQ4273 Water 19-Apr-21	
			Result	DL	Result	DL	Result	DL	Result	DL	Result	DL
			Units		Units		Units		Units		Units	
			Criteria 1		Criteria 1		Criteria 1		Criteria 1		Criteria 1	
Acidity (pH 4.5)		mg/L	<1.0	1	<1.0	1	<1.0	1	<1.0	1	TBA	TBA
Acidity (pH 8.3)		mg/L	<1.0	1	<1.0	1	<1.0	1	<1.0	1	TBA	TBA
Alkalinity (PP as CaCO3)		mg/L	<1.0	1	<1.0	1	<1.0	1	<1.0	1	TBA	TBA
Alkalinity (Total as CaCO3)		mg/L	30	1	35	1	34	1	35	1	TBA	TBA
Bicarbonate (HCO3)		mg/L	37	1	42	1	41	1	43	1	TBA	TBA
Dissolved Bromide (Br)		mg/L	<0.010	0.01	<0.010	0.01						
Carbonate (CO3)		mg/L	<1.0	1	<1.0	1	<1.0	1	<1.0	1	TBA	TBA
Hydroxide (OH)		mg/L	<1.0	1	<1.0	1	<1.0	1	<1.0	1	TBA	TBA
Dissolved Chloride (Cl)	500	mg/L	1.5	1	1.7	1			<1.0	1	<1.0	1
Dissolved Sulphate (SO4)		mg/L	32	1	40	1	35	1	33	1	42	1
Dissolved Fluoride (F)	0.4	mg/L	<0.050	0.05	<0.050	0.05						
Turbidity		NTU										
Filter and HNO3 Preservation		N/A	FIELD	N/A	FIELD	N/A	FIELD	N/A	FIELD	N/A	FIELD	N/A
Dissolved Hardness (CaCO3)		mg/L	41	0.5	45	0.5	37.4	0.5	36.1	0.5	40.6	0.5
Dissolved Aluminum (Al)	0.023	mg/L	0.015	0.003	0.0153	0.003	0.0121	0.003	0.0118	0.003	0.0137	0.003
Dissolved Antimony (Sb)		mg/L	<0.00050	0.0005	<0.00050	0.0005	<0.00050	0.0005	<0.00050	0.0005	<0.00050	0.0005
Dissolved Arsenic (As)		mg/L	0.00022	0.0001	0.00037	0.0001	0.00037	0.0001	0.00036	0.0001	0.00031	0.0001
Dissolved Barium (Ba)		mg/L	0.0023	0.001	0.0033	0.001	0.0023	0.001	0.0023	0.001	0.0022	0.001
Dissolved Beryllium (Be)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001
Dissolved Bismuth (Bi)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001
Dissolved Boron (B)		mg/L	<0.050	0.05	0.054	0.05	<0.050	0.05	<0.050	0.05	0.052	0.05
Dissolved Cadmium (Cd)	0.0000085	mg/L	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001
Dissolved Chromium (Cr)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001
Dissolved Cobalt (Co)		mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002
Dissolved Copper (Cu)	0.0009	mg/L	0.00102	0.0002	0.0009	0.0002	0.00043	0.0002	0.00045	0.0002	0.00047	0.0002
Dissolved Iron (Fe)	0.35	mg/L	0.0246	0.005	0.0718	0.005	0.0203	0.005	0.021	0.005	0.0226	0.005
Dissolved Lead (Pb)		mg/L	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002	<0.00020	0.0002
Dissolved Lithium (Li)		mg/L	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002	<0.0020	0.002
Dissolved Manganese (Mn)		mg/L	0.0032	0.001	0.0107	0.001	0.0035	0.001	0.0033	0.001	0.0035	0.001
Dissolved Molybdenum (Mo)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001
Dissolved Nickel (Ni)		mg/L	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001	<0.0010	0.001
Dissolved Selenium (Se)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001
Dissolved Silicon (Si)		mg/L	2.44	0.1	2.42	0.1	2.19	0.1	2.17	0.1	2.16	0.1
Dissolved Silver (Ag)		mg/L	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002	<0.000020	0.00002
Dissolved Strontium (Sr)		mg/L	0.0641	0.001	0.0788	0.001	0.0603	0.001	0.0595	0.001	0.0753	0.001
Dissolved Thallium (Tl)		mg/L	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001	<0.000010	0.00001
Dissolved Tin (Sn)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005
Dissolved Titanium (Ti)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005
Dissolved Uranium (U)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001
Dissolved Vanadium (V)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005
Dissolved Zinc (Zn)		mg/L	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005	<0.0050	0.005
Dissolved Zirconium (Zr)		mg/L	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001	<0.00010	0.0001
Dissolved Calcium (Ca)		mg/L	13.4	0.05	14.7	0.05	12.3	0.05	11.9	0.05	13.4	0.05
Dissolved Magnesium (Mg)		mg/L	1.81	0.05	1.98	0.05	1.62	0.05	1.54	0.05	1.73	0.05
Dissolved Potassium (K)		mg/L	0.191	0.05	0.248	0.05	0.194	0.05	0.19	0.05	0.239	0.05
Dissolved Sodium (Na)		mg/L	9.78	0.05	14.3	0.05	11.9	0.05	12.3	0.05	15.4	0.05
Dissolved Sulphur (S)		mg/L	10.9	3	14.5	3	9.5	3	9.5	3	12.8	3
Dissolved Mercury (Hg)		mg/L	<0.0000019	0.0000019	<0.0000019	0.0000019	<0.0000019	0.0000019	<0.0000019	0.0000019	<0.0000019	0.0000019
Dissolved Organic Carbon (C)		mg/L	1.7	0.5	1.5	0.5	1.8	0.5	1.9	0.5	1.9	0.5
Dissolved Phosphorus (P)		mg/L	<0.0030	0.003	<0.0030	0.003						
Dissolved Nitrogen (N)		mg/L	0.085	0.02	0.101	0.02						

LEGEND	
"N/A"	Not Applicable
Bold & Red	Exceedance
Red with White Text	Exceeds Both Criteria
Highlighted	DL > Criteria

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