

Appendix I

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

Description of Effluent, In-Mine Releases & Receiving Environment Monitoring Sites			
EMS ID #	Monitoring Sites	Abbreviation (Station Code)	*Type of Water (MW, FW or GW)
North Coal Mining Operation			
E207409	Settling Pond #4 Decant	WD	Discharge (MW)
E207411	Culvert, at Middle Quinsam Lake Road	WC	MW & FW
E283433	2-North Portal Sump (Adit Sump)	2NPS	MW
E207412	2-North Pit Sump CCR Cover	WP	PAG-CCR Water Cover - MW
South Coal Mine			
E218582	Settling Pond #1 Decant	SPD	Discharge (MW)
E217014	Culvert, Downstream End at Access Road	SPC	MW & FW
E217015	South Pit Main Sump Water	3S	PAG-CCR Water Cover (MW & FW)
E292127	2-South Pit In Pit Water Cover (2-South Standpipe)	2S	PAG-CCR Water Cover (MW & FW)
7-South Mining Operation			
E292069	7-South Surface Decant	7SSD	Discharge (SW)
E292110	7-South Adit Sump	7SPS	MW
Seep Monitoring Sites			
E292131	Long Lake Seeps	LLS & LLSM	GW / MW
	Culvert that collects groundwater and Coal Main logging road water entering MQL (PDSR)	PDSR	GW / SW
	Groundwater surfacing with potenital mine influence near QU1109	S	GW / SW
	Artisian spring with potenital mine influence near QU1105	S2A	GW / SW
	Groundwater surfacing with potenital mine influence near QU1105	S2US and S2B	GW / SW
Receiving Environment Monitoring Sites - Near Initial Zone of Dilution (NIDZ)			
Near Initial Dilution Zone (NIDZ) Monitoring Sites			
E292130	Long Lake Entrance (South end water entering Long Lake near the outlet)	LLE	NIDZ
E292109	Road Crossing Bridge on Stream 1 above the Lower Wetland (Downstream of 7SSD).The site name is Stream 1, 7S.	7S	NIDZ
Receiving Water (Rivers & Lakes Monitoring Sites) 5 in 30 Monitoring Locations			
North Coal Mining Operation			
E0126402	Quinsam River at Argonaut Bridge	WA	FW
E206618	Middle Quinsam Lake Centre	MQL (1, 4, 9 & 1m from Bottom)	FW
E0900504	Outflow from Middle Quinsam Lake	WB	FW
South Coal Mine			
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
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
7-South Area 5 Mining Operation			
E297231	Iron River upstream of 7SA5 and 242 influence	IR6	FW
E297232	Iron River downstream of 7SA5 and 242 inputs	IR8	FW
E299256	Quinsam River downstream of confluence with Iron River	IRQR	FW
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
Long Lake Seep Passive Treatment System			
N/A	Groundwater well (2-South Mine Pool) influent to the Passive Treatment System (PTS)	QU11-11 (INF-EFF)	MW
N/A	Biochemical Reactor	BCR-EFF	MW
N/A	Sulphide Polishing Cell	SPC-EFF	MW
N/A	2-South Inflow (From Passive Treatment System)	2SI	MW
N/A	2-South Culvert into 3-South Pit (Seepage under liner and overflow from 2S-pit)	2SC	MW
* MW= Mine Water, FW= Freshwater, GW =Groundwater NIDZ = Near Initial Dilution Zone			

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

Summary of Permit Limit Exceedances, Permit Non-Compliances and Unauthorised Discharges `					
EMS ID & Site Name	Non-Compliance (PNC)	Result (mg/L)	Date	Non-Compliance Reason	Number of events or period for PNC, P or spill event.
Section 3.10 - Bypasses - Effluent that is discharge without being processed through the authorised works are considered bypasses of authorised works. These occurred at S, S2A, S2B, LLSM, LL and QU14-10.	Bypass of Authoized Works	PNC	2023-2024	See below	See below
E292131 - Long Lake Seep (LLSM)	Bypass of Authoized Works	PNC	Q1, Q2, Q4	Mine water bypassing the authorized works (SP1) flowing into Long lake.	Q1 (9 weeks, 59 days), Q4 (13 weeks, 81 days). Annual (140 Days)
E292131 - Long Lake Seep (LLS)	Bypass of Authoized Works	PNC	Q1, Q2, Q4	Mine water bypassing the authorized works (SP1) flowing into Long lake.	27 out of 52 weeks. Extremely low flow.
Seeps (S and S2A)	Bypass of Authoized Works	PNC	2023-2024	Potential mine influenced groundwater water, bypassing the authorized works (SP4) flowing into Quinsam River.	366 Days
Seeps S2B	Bypass of Authoized Works	PNC	Q3	Potential mine influenced groundwater water bypassing the authorized works (SP4) flowing into Quinsam River.	Estimated Q3 (91 days).
QU14-10 (DGIR 241338)	Bypass of Authoized Works	PNC	27-Mar-24	Mine water bypassed the authorized works flowing into Quinsam River.	5 days
SP4 -E207409	Annual Average Authorized Discharge Rate (0.08 m ³ /s)	PNC	2023-2024	Annual average discharge rate was 0.08 m ³ /s, 4.9% higher.	Calculated over 366 Days
SP1 -E218582	Missing continuous flow data	PNC	31-Mar-24	Flow meter did not record the data for one day.	one day
E283433 - 2-North Portal Sump	No results for dissovded sulphate	PNC	01-May-23	Results were not received by the analytical laboratory	1 out of 12 monthly samples
E217015 - 3 South Pit					1 out of 6 monthly samples
E292127 - 2-South Pit					1 out of 12 monthly samples
E217018 - No Name Lake (1M, 4M, 9M and B)	No results for turbidity	PNC	05-Apr-23	Results were not received by the analytical laboratory	1 out of 5 weekly samples in spring
E297231 - Iron River upstream of 7SA5 and 242 influence (IR6)	TSS, hardness, SO4, alk., acidity, pH, cond., TM and DM	PNC	Weeks 4 and 5 of summer low-flow, 5 in 30 sampling events.	Hazardous conditions at the site. Several hornetts nests, resulting in multiple stings, leading to infections.	Missing 2 out 5 weekly samples.

Criteria Name	Station Code	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
WQG - ACUTE	NNO	NNO-19OCT23-M	CCI787	C385422	Dissolved Lead (Pb)	0.003	0.00727	0.0002	mg/L
WQG - ACUTE	NNLB	NNLB-5APR23-M	BOP026	C324109	Dissolved Copper (Cu)	0.00020	0.00035	0.0002	mg/L
WQG - ACUTE	WA	WA-19OCT23-M	CCI778	C385422	Dissolved Copper (Cu)	0.00060	0.00066	0.0002	mg/L
WQG - ACUTE	WA	WA-25OCT23-M	CCY019	C387266	Dissolved Copper (Cu)	0.00030	0.00059	0.0002	mg/L
WQG - ACUTE	NNO	NNO-19OCT23-M	CCI787	C385422	Dissolved Copper (Cu)	0.00040	0.00043	0.0002	mg/L
WQG - ACUTE	7SQR	7SQR-25OCT23-M	CCY023	C387266	Dissolved Copper (Cu)	0.00040	0.00049	0.0002	mg/L
WQG - CHRONIC	IR6	SUMMER AVERAGE			Total Arsenic (As)	0.00500	0.01154	0.0001	mg/L
WQG - CHRONIC	IR8	SUMMER AVERAGE			Total Arsenic (As)	0.00500	0.01465	0.0001	mg/L
WQG - CHRONIC	IRQR	IRQR-19OCT23-M	CCI783	C385422	Total Aluminum (Al)	0.0870	0.0885	0.003	mg/L
WQG - CHRONIC	LLS	LLS-27DEC23-M	CHD030	C3A4797	Total Aluminum (Al)	0.0190	0.273	0.003	mg/L
WQG - CHRONIC	LLS	LLS-2JAN24-M	CHH277	C400745	Total Aluminum (Al)	0.0180	0.0352	0.003	mg/L
WQG - CHRONIC	LLSM	LLSM-2JAN24-M	CHH278	C400745	Total Aluminum (Al)	0.0180	0.0262	0.003	mg/L
WQG - CHRONIC	S2A	S2A-5DEC23-M	CGB412	C399442	Total Aluminum (Al)	0.2600	0.538	0.003	mg/L
WQG - CHRONIC	S2A	S2A-7FEB24-M	CIX800	C409318	Total Aluminum (Al)	0.1500	0.49	0.003	mg/L
WQG - CHRONIC	LLE	LLE-29MAY23-M	BRH987	C338335	Sulphate (SO4)	302.6	370	5	mg/L
WQG - CHRONIC	LLE	LLE-29MAY23-R	BRH988	C338335	Sulphate (SO4)	302.6	380	5	mg/L
WQG - CHRONIC	LLE	LLE-5JUN23-M	BRU870	C340627	Sulphate (SO4)	302.6	390	5	mg/L

Criteria Name	Station Code	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
WQG - CHRONIC	LLE	LLE-12JUN23-M	BSJ780	C343354	Sulphate (SO4)	302.6	340	5	mg/L
WQG - CHRONIC	LLE	LLE-19JUN23-M	BSU294	C345161	Sulphate (SO4)	302.6	480	5	mg/L
WQG - CHRONIC	LLE	LLE-26JUN23-M	BTJ387	C347473	Sulphate (SO4)	302.6	530	5	mg/L
WQG - CHRONIC	LLE	LLE-30OCT23-M	CAZ971	C379971	Sulphate (SO4)	302.6	500	5	mg/L
WQG - CHRONIC	LLE	LLE-11OCT23-M	CBQ755	C382617	Sulphate (SO4)	302.6	430	5	mg/L
WQG - CHRONIC	LLE	LLE-16OCT23-M	CBZ770	C383981	Sulphate (SO4)	302.6	440	5	mg/L
WQG - CHRONIC	LLE	LLE-23OCT23-M	CCS905	C386426	Sulphate (SO4)	302.6	420	5	mg/L
WQG - CHRONIC	LLE	LLE-30OCT23-M	CDF917	C388495	Sulphate (SO4)	302.6	450	5	mg/L
WQG - CHRONIC	LLE	LLE-30OCT23-R	CDF918	C388495	Sulphate (SO4)	302.6	450	5	mg/L
WQG - ACUTE	LLE	LLE-5JUN23-M	BRU870	C340627	Dissolved Iron (Fe)	0.35	0.391	0.005	mg/L
WQG - CHRONIC	LLS	LLS-3APR23-M	BOL529	C323223	Sulphate (SO4)	302.6	480	5	mg/L
WQG - CHRONIC	LLS	LLS-5JUN23-M	BRU871	C340627	Sulphate (SO4)	302.6	450	5	mg/L
WQG - CHRONIC	LLS	LLS-27DEC23-M	CHD030	C3A4797	Sulphate (SO4)	302.6	480	5	mg/L
WQG - CHRONIC	LLS	LLS-2JAN24-M	CHH277	C400745	Sulphate (SO4)	302.6	450	5	mg/L
WQG - CHRONIC	LLS	LLS-6FEB24-M	CIX795	C409318	Sulphate (SO4)	302.6	480	5	mg/L
WQG - CHRONIC	LLS	LLS-4MAR24-M	CKI323	C415811	Sulphate (SO4)	302.6	590	5	mg/L
WQG - ACUTE	LLS	LLS-3APR23-M	BOL529	C323223	Dissolved Iron (Fe)	0.35	0.799	0.005	mg/L
WQG - ACUTE	LLS	LLS-1MAY23-M	BPU527	C331179	Dissolved Iron (Fe)	0.35	0.743	0.005	mg/L
WQG - ACUTE	LLS	LLS-5JUN23-M	BRU871	C340627	Dissolved Iron (Fe)	0.35	0.903	0.005	mg/L
WQG - ACUTE	LLS	LLS-27DEC23-M	CHD030	C3A4797	Total Iron (Fe)	1	1.77	0.01	mg/L
WQG - CHRONIC	LLSM	LLSM-3APR23-M	BOL530	C323223	Sulphate (SO4)	302.6	400	5	mg/L

Criteria Name	Station Code	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
WQG - CHRONIC	LLSM	LLSM-1MAY23-M	BPU528	C331179	Sulphate (SO4)	302.6	410	5	mg/L
WQG - CHRONIC	LLSM	LLSM-5JUN23-M	BRU872	C340627	Sulphate (SO4)	302.6	410	5	mg/L
WQG - CHRONIC	LLSM	LLSM-2JAN24-M	CHH278	C400745	Sulphate (SO4)	302.6	340	5	mg/L
WQG - CHRONIC	LLSM	LLSM-5FEB24-M	CIX796	C409318	Sulphate (SO4)	302.6	420	5	mg/L
WQG - CHRONIC	LLSM	LLSM-4MAR24-M	CKI324	C415811	Sulphate (SO4)	302.6	440	5	mg/L
WQG - ACUTE	LLSM	LLSM-5JUN23-M	BRU872	C340627	Dissolved Iron (Fe)	0.35	0.419	0.005	mg/L
WQG - CHRONIC	S	S-1MAY23-M	BPU531	C331179	Total Boron (B)	1.2	1.55	0.05	mg/L
WQG - CHRONIC	S	S-5JUN23-M	BRX823	C341123	Total Boron (B)	1.2	1.48	0.25	mg/L
WQG - CHRONIC	S	S-11JUL23-M	BUN236	C352827	Total Boron (B)	1.2	1.69	0.05	mg/L
WQG - CHRONIC	S	S-2AUG23-M	BWB168	C359547	Total Boron (B)	1.2	1.47	0.05	mg/L
WQG - CHRONIC	S	S-6SEP23-M	BYL368	C370372	Total Boron (B)	1.2	1.67	0.1	mg/L
WQG - CHRONIC	S	S-4OCT23-M	CBC471	C380378	Total Boron (B)	1.2	1.67	0.05	mg/L
WQG - CHRONIC	S	S-2NOV23-M	CDQ176	C390023	Total Boron (B)	1.2	1.25	0.1	mg/L
WQG - CHRONIC	S	S-25MAR24-M	CLH653	C421128	Total Boron (B)	1.2	1.25	0.05	mg/L
WQG - CHRONIC	S	S-1MAY23-M	BPU531	C331179	Total Arsenic (As)	0.005	0.0772	0.0001	mg/L
WQG - CHRONIC	S	S-5JUN23-M	BRX823	C341123	Total Arsenic (As)	0.005	0.0722	0.0005	mg/L
WQG - CHRONIC	S	S-11JUL23-M	BUN236	C352827	Total Arsenic (As)	0.005	0.0642	0.0001	mg/L
WQG - CHRONIC	S	S-2AUG23-M	BWB168	C359547	Total Arsenic (As)	0.005	0.0638	0.0001	mg/L
WQG - CHRONIC	S	S-6SEP23-M	BYL368	C370372	Total Arsenic (As)	0.005	0.0604	0.0002	mg/L

Criteria Name	Station Code	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
WQG - CHRONIC	S	S-4OCT23-M	CBC471	C380378	Total Arsenic (As)	0.005	0.0585	0.0001	mg/L
WQG - CHRONIC	S	S-2NOV23-M	CDQ176	C390023	Total Arsenic (As)	0.005	0.0549	0.0002	mg/L
WQG - CHRONIC	S	S-5DEC23-M	CGB411	C399442	Total Arsenic (As)	0.005	0.0247	0.0001	mg/L
WQG - CHRONIC	S	S-3JAN254-M	CHH279	C400745	Total Arsenic (As)	0.005	0.0347	0.0001	mg/L
WQG - CHRONIC	S	S-7FEB24-M	CIX799	C409318	Total Arsenic (As)	0.005	0.0411	0.0001	mg/L
WQG - CHRONIC	S	S-25MAR24-M	CLH653	C421128	Total Arsenic (As)	0.005	0.0723	0.0001	mg/L
WQG - CHRONIC	S2A	S2A-3MAY23-M	BQA656	C332377	Total Arsenic (As)	0.005	0.0318	0.0001	mg/L
WQG - CHRONIC	S2A	S2A-5JUN23-M	BRX824	C341123	Total Arsenic (As)	0.005	0.0453	0.0001	mg/L
WQG - CHRONIC	S2A	S2A-12JUL23-M	BUN235	C352827	Total Arsenic (As)	0.005	0.0896	0.0001	mg/L
WQG - ACUTE	S2A	S2A-12JUL23-M	BUN235	C352827	Dissolved Iron (Fe)	0.35	0.852	0.005	mg/L
WQG - CHRONIC	S2A	S2A-3AUG23-M	BWE736	C360131	Total Arsenic (As)	0.005	0.117	0.0001	mg/L
WQG - ACUTE	S2A	S2A-3AUG23-M	BWE736	C360131	Dissolved Iron (Fe)	0.35	0.835	0.005	mg/L
WQG - CHRONIC	S2A	S2A-7SEP23-M	BYR878	C371351	Total Arsenic (As)	0.005	0.0845	0.0001	mg/L
WQG - ACUTE	S2A	S2A-7SEP23-M	BYR878	C371351	Dissolved Iron (Fe)	0.35	0.67	0.005	mg/L
WQG - CHRONIC	S2A	S2A-4OCT23-M	CBC470	C380378	Total Arsenic (As)	0.005	0.0558	0.0001	mg/L
WQG - ACUTE	S2A	S2A-4OCT23-M	CBC470	C380378	Dissolved Iron (Fe)	0.35	0.414	0.005	mg/L
WQG - CHRONIC	S2A	S2A-7NOV23-M	CEA644	C391418	Total Arsenic (As)	0.005	0.0203	0.0001	mg/L
WQG - CHRONIC	S2A	S2A-5DEC23-M	CGB412	C399442	Total Arsenic (As)	0.005	0.0108	0.0001	mg/L
WQG - CHRONIC	S2A	S2A-3JAN24-M	CHH280	C400745	Total Arsenic (As)	0.005	0.0114	0.0001	mg/L
WQG - CHRONIC	S2A	S2A-7FEB24-M	CIX800	C409318	Total Arsenic (As)	0.005	0.0243	0.0001	mg/L
WQG - CHRONIC	S2A	S2A-13MAR24-M	CKV948	C418554	Total Arsenic (As)	0.005	0.0236	0.0001	mg/L
WQG - CHRONIC	S2B	S2B-3JAN24-M	CHH281	C400745	Total Arsenic (As)	0.005	0.0249	0.0001	mg/L
WQG - CHRONIC	S2B	S2B-7FEB24-M	CIX801	C409318	Total Arsenic (As)	0.005	0.0252	0.0001	mg/L
WQG - CHRONIC	S2B	S2B-13MAR24-M	CKV949	C418554	Total Arsenic (As)	0.005	0.0288	0.0001	mg/L

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
LLM1	LLM1-5APR23-M	0.00035	0.0004	3 out of 5 weekly samples	0.00039	0.0004
	LLM1-12APR23-M	0.00039	0.0003			
	LLM1-19APR23-M	0.00037	0.0004			
	LLM1-25APR23-M	0.0004	0.0003			
	LLM1-2MAY23-M	0.00044	0.0004			
LLM4	LLM4-5APR23-M	0.00035	0.0005	4 out of 6 weekly samples	0.000392	0.0004
	LLM4-12APR23-M	0.00041	0.0003			
	LLM4-12APR23-R	0.00035	0.0003			
	LLM4-19APR23-M	0.00034	0.0004			
	LLM4-25APR23-M	0.00034	0.0003			
	LLM4-2MAY23-M	0.00052	0.0004			
LLM9	LLM9-5APR23-M	0.00039	0.0003	5 out of 5 results and average was above Chronic-WQG	0.000336	0.0002
	LLM9-12APR23-M	0.0003	0.0002			
	LLM9-19APR23-M	0.00036	0.0002			
	LLM9-25APR23-M	0.00031	0.0002			
	LLM9-2MAY23-M	0.00032	0.0002			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
LLMB	LLMB-5APR23-M	0.00029	0.0002	5 out of 5 results and average was above Chronic-WQG	0.00034	0.0002
	LLMB-12APR23-M	0.00031	0.0002			
	LLMB-19APR23-M	0.00038	0.0002			
	LLMB-25APR23-M	0.00032	0.0002			
	LLMB-2MAY23-M	0.0004	0.0002			
LQL1	LQL1-4APR23-M	0.00046	0.0006	5 out of 6 results and average was above Chronic-WQG	0.000528	0.0005
	LQL1-4APR23-R	0.00051	0.0005			
	LQL1-12APR23-M	0.00053	0.0006			
	LQL1-19APR23-M	0.00052	0.0005			
	LQL1-25APR23-M	0.00056	0.0004			
	LQL1-2MAY23-M	0.00057	0.0005			
	LQL1-2MAY23-R	0.00056	0.0005			
LQL4	LQL4-4APR23-M	0.00101	0.0006	5 out of 5 results and average was above Chronic-WQG	0.000712	0.0005
	LQL4-12APR23-M	0.00056	0.0005			
	LQL4-19APR23-M	0.00084	0.0005			
	LQL4-25APR23-M	0.00055	0.0004			
	LQL4-2MAY23-M	0.0006	0.0005			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
LQL9	LQL9-4APR23-M	0.00056	0.0006	4 out of 5 results and average was above Chronic-WQG	0.000542	0.0005
	LQL9-12APR23-M	0.00054	0.0005			
	LQL9-19APR23-M	0.00052	0.0005			
	LQL9-25APR23-M	0.00056	0.0004			
	LQL9-2MAY23-M	0.00053	0.0004			
LQLB	LQLB-4APR23-M	0.00051	0.0005	5 out of 5 results and average was above Chronic-WQG	0.000536	0.0004
	LQLB-12APR23-M	0.00054	0.0005			
	LQLB-19APR23-M	0.00056	0.0005			
	LQLB-25APR23-M	0.00057	0.0004			
	LQLB-2MAY23-M	0.0005	0.0003			
MQL1	MQL1-12APR23-M	0.00046	0.0004	6 out of 6 results and average was above Chronic-WQG	0.000516	0.0004
	MQL1-19APR23-M	0.00053	0.0005			
	MQL1-19APR23-R	0.00047	0.0004			
	MQL1-25APR23-M	0.0005	0.0003			
	MQL1-2MAY23-M	0.00048	0.0003			
	MQL1-9MAY23-M	0.00061	0.0005			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
MQL4	MQL4-12APR23-M	0.00045	0.0004	5 out of 6 results and average was above Chronic-WQG	0.000536	0.0004
	MQL4-19APR23-M	0.00046	0.0004			
	MQL4-25APR23-M	0.00085	0.0003			
	MQL4-25APR23-R	0.00049	0.0003			
	MQL4-2MAY23-M	0.00046	0.0004			
	MQL4-9MAY23-M	0.00046	0.0005			
MQL9	MQL9-12APR23-M	0.00045	0.0004	4 out of 5 results and average was above Chronic-WQG	0.000464	0.0004
	MQL9-19APR23-M	0.00046	0.0005			
	MQL9-25APR23-M	0.00051	0.0003			
	MQL9-2MAY23-M	0.00045	0.0004			
	MQL9-9MAY23-M	0.00045	0.0004			
MQLB	MQLB-12APR23-M	0.00045	0.0004	5 out of 5 results and average was above Chronic-WQG	0.000488	0.0004
	MQLB-19APR23-M	0.00047	0.0004			
	MQLB-25APR23-M	0.00049	0.0004			
	MQLB-2MAY23-M	0.00053	0.0004			
	MQLB-9MAY23-M	0.0005	0.0003			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
NNL1	NNL1-5APR23-M	0.00056	0.0002	5 out of 6 results and average was above Chronic-WQG	0.000462	0.0003
	NNL1-5APR23-R	0.00037	0.0002			
	NNL1-12APR23-M	0.00043	0.0003			
	NNL1-19APR23-M	0.00042	0.0005			
	NNL1-25APR23-M	0.00045	0.0004			
	NNL1-2MAY23-M	0.00045	0.0003			
NNL4	NNL4-5APR23-M	0.00042	0.0002	5 out of 5 results and average was above Chronic-WQG	0.000418	0.0002
	NNL4-12APR23-M	0.00044	0.0002			
	NNL4-19APR23-M	0.00043	0.0003			
	NNL4-25APR23-M	0.00042	0.0003			
	NNL4-2MAY23-M	0.00038	0.0002			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
NNL9	NNL9-5APR23-M	0.00037	0.0002	2 out of 5 results and average was above Chronic-WQG	0.000532	0.0002
	NNL9-12APR23-M	0.00044	0.0002			
	NNL9-19APR23-M	0.00047	0.0002			
	NNL9-25APR23-M	0.00044	0.0002			
	NNL9-2MAY23-M	0.00094	0.0002			
NNLB	NNLB-5APR23-M	0.00035	0.0002	5 out of 5 results. Average was above Chronic-WQG	0.000412	0.0002
	NNLB-12APR23-M	0.00053	0.0002			
	NNLB-19APR23-M	0.00037	0.0002			
	NNLB-25APR23-M	0.00041	0.0002			
	NNLB-2MAY23-M	0.0004	0.0002			
QR Upstream	WA-4APR23-M	0.0006	0.0005	2 out of 6	0.00055	0.0006
	WA-4APR23-R	0.00134	0.0004			
	WA-11APR23-M	0.00052	0.0006			
	WA-17APR23-M	0.00051	0.0006			
	WA-24APR23-M	0.00053	0.0006			
	WA-1MAY23-M	0.00059	0.0006			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
MQL Outlet	WB-4APR23-M	0.00063	0.0008	0 out of 5	0.000502	0.0008
	WB-11APR23-M	0.00046	0.0008			
	WB-17APR23-M	0.0005	0.0008			
	WB-24APR23-M	0.00044	0.0008			
	WB-1MAY23-M	0.00048	0.0008			
	WB-1MAY23-R	0.0005	0.0009			
LL Outlet	LLO-4APR23-M	0.00042	0.0011	0 out of 5	0.000368	0.0011
	LLO-11APR23-M	0.00034	0.0012			
	LLO-17APR23-M	0.00035	0.0011			
	LLO-24APR23-M	0.00036	0.001			
	LLO-24APR23-R	0.00044	0.0011			
	LLO-1MAY23-M	0.00037	0.0012			
NNL Outlet	NNO-4APR23-M	0.00047	0.0006	0 out of 5	0.000424	0.0007
	NNO-11APR23-M	0.0004	0.0006			
	NNO-11APR23-R	0.00037	0.0006			
	NNO-17APR23-M	0.00039	0.0007			
	NNO-24APR23-M	0.00039	0.0006			
	NNO-1MAY23-M	0.00047	0.0008			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
QRDS1	QRDS1-4APR23-M	0.00067	0.0007	0 out of 5	0.000594	0.0009
	QRDS1-11APR23-M	0.00042	0.001			
	QRDS1-17APR23-M	0.0005	0.0007			
	QRDS1-17APR23-R	0.00048	0.0008			
	QRDS1-24APR23-M	0.0005	0.0009			
	QRDS1-1MAY23-M	0.00088	0.001			
7SQR	7SQR-4APR23-M	0.00046	0.0008	0 out of 5	0.000484	0.0007
	7SQR-11APR23-M	0.0005	0.0006			
	7SQR-18APR23-M	0.0005	0.0007			
	7SQR-24APR23-M	0.00048	0.0007			
	7SQR-2MAY23-M	0.00048	0.0007			
IRQR	IRQR-4APR23-M	0.00075	0.0008	0 out of 5	0.000652	0.0011
	IRQR-11APR23-M	0.00067	0.0013			
	IRQR-18APR23-M	0.0006	0.0009			
	IRQR-24APR23-M	0.0006	0.0009			
	IRQR-2MAY23-M	0.00064	0.0013			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
LLMB	LLMB-1AUG23-M	0.00031	0.0003	1 out of 5	0.000284	0.0004
QR Upstream	WA-11JUL23-M	0.00051	0.0003	6 out of 6 (includes the replicate)	0.000506	0.0002
	WA-11JUL23-Replicate	0.00049	0.0003			
	WA-17JUL23-M	0.00046	0.0003			
	WA-24JUL23-M	0.00049	0.0002			
	WA-31JUL23-M	0.00052	0.0002			
	WA-8AUG23-M	0.00055	0.0002			
LL Outlet	LLO-11JUL23-M	0.00035	0.0002	3 out of 3	N/A	Only 3 results
	LLO-17JUL23-M	0.00028	0.0002			
	LLO-24JUL23-M	0.00033	0.0002			
NNL Outlet	NNO-11JUL23-M	0.00072	0.0002	2 out of 3	N/A	Only 3 results
	NNO-17JUL23-M	0.00042	0.0004			
QRDS1	QRDS1-31JUL23-M	0.00047	0.0003	1 out of 6 (includes replicate)	0.000434	0.0007
7SQR	7SQR-11JUL23-M	0.00061	0.0005	4 out of 6 (includes the replicate)	0.000548	0.0003
	7SQR-17JUL23-M	0.00041	0.0002			
	7SQR-24JUL23-M	0.00046	0.0004			
	7SQR-31JUL23-M	0.00082	0.0003			
	7SQR-31JUL23-Replicate	0.0005	0.0003			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
IRQR	IRQR-17JUL23-M	0.00041	0.0002		0.000466	0.0004
	IRQR-31JUL23-M	0.00049	0.0004	3 out of 5		
	IRQR-8AUG23-M	0.0005	0.0002			
IR6	IR6-11JUL23-M	0.00085	0.0007	1 out of 3	N/A	Only 3 results
IR8	IR8-31JUL23-M	0.00035	0.0002		0.0006	0.0006
	IR8-8AUG23-M	0.00067	0.0002	2 out of 5		
LLM9	LLM9-11OCT23-M	0.00029	0.0002	1 out of 5	0.00029	0.0003
LLMB	LLMB-4OCT23-M	0.00028	0.0002	4 out of 5	0.00028	0.0002
	LLMB-11OCT23-M	0.00027	0.0002			
	LLMB-23OCT23-M	0.00026	0.0002			
	LLMB-30OCT23-M	0.0003	0.0002			
MLQ9	MLQ9-4OCT23-M	0.00097	0.0007	1 out of 5	0.00052	0.0006
MLQB	MLQB-4OCT23-M	0.00054	0.0003	2 out of 5	0.00045	0.0005
	MLQB-11OCT23-M	0.00051	0.0004			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
QR Upstream	WA-11OCT23-M	0.0005	0.0002	6 out of 6	0.00057	0.0002
	WA-11OCT23-R	0.0005	0.0002			
	WA-19OCT23-M	0.00066	0.0002			
	WA-25OCT23-M	0.00059	0.0002			
	WA-1NOV23-M	0.00052	0.0002			
	WA-7NOV23-M	0.0006	0.0002			
MQL Outlet	WB-11OCT23-M	0.0004	0.0002	6 out of 6	0.00041	0.0002
	WB-19OCT23-M	0.00037	0.0002			
	WB-19OCT23-R	0.0004	0.0002			
	WB-25OCT23-M	0.00047	0.0003			
	WB-1NOV23-M	0.00041	0.0004			
	WB-7NOV23-M	0.00038	0.0002			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
LL Outlet	LLO-19OCT23-M	0.00032	0.0003	3 out of 5	0.00035	0.0003
	LLO-7NOV23-M	0.00033	0.0003			
	LLO-14NOV23-M	0.00051	0.0002			
NNL Outlet	NNO-19OCT23-M	0.00043	0.0002	6 out of 6	0.00048	0.0002
	NNO-25OCT23-M	0.00043	0.0002			
	NNO-1NOV23-M	0.00039	0.0002			
	NNO-7NOV23-R	0.00049	0.0002			
	NNO-7NOV23-M	0.00047	0.0002			
	NNO-14NOV23-M	0.00066	0.0003			
QRDS1	QRDS1-11OCT23-M	0.00043	0.0004	5 out of 5	0.00043	0.0003
	QRDS1-19OCT23-M	0.00046	0.0002			
	QRDS1-25OCT23-M	0.00045	0.0003			
	QRDS1-25OCT23-R	0.00043	0.0002			
	QRDS1-1NOV23-M	0.00039	0.0002			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
7SQR	7SQR-11OCT23-M	0.00043	0.0002	6 out of 6	0.00056	0.0002
	7SQR-19OCT23-M	0.00062	0.0002			
	7SQR-25OCT23-M	0.00049	0.0002			
	7SQR-1NOV23-M	0.00052	0.0002			
	7SQR-1NOV23-R	0.00041	0.0002			
	7SQR-7NOV23-M	0.00074	0.0003			
IRQR	IRQR-11OCT23-M	0.0006	0.0002	5 out of 5	0.00066	0.0003
	IRQR-19OCT23-M	0.00103	0.0003			
	IRQR-25OCT23-M	0.00061	0.0002			
	IRQR-1NOV23-M	0.00048	0.0003			
	IRQR-7NOV23-M	0.00058	0.0003			

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Table 4 Results Above Freshwater Aquatic Life Dissolved Copper Guideline 12 Page(s)

Site Name	Sample Number	Cu-D mg/L	Chronic - WQG	Count of Results Above Chronic - WQG	5 in 30 Average Cu-D	5 in 30 Average Chronic - WQG (mg/L)
IR6	IR6-11OCT23-M	0.00082	0.0006	5 out of 5	0.00086	0.0006
	IR6-19OCT23-M	0.00118	0.0007			
	IR6-25OCT23-M	0.00078	0.0003			
	IR6-1NOV23-M	0.00061	0.0006			
	IR6-7NOV23-M	0.00093	0.0005			
IR8	IR8-11OCT23-M	0.0009	0.0005	5 out of 5	0.00089	0.0005
	IR8-19OCT23-M	0.0011	0.0007			
	IR8-25OCT23-M	0.00084	0.0002			
	IR8-1NOV23-M	0.00074	0.0004			
	IR8-7NOV23-M	0.00086	0.0005			

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Table 5 Contaminated Sites Regulations - Aquatic Life Standards 7 Page(s)

BC CSR Aquatic Life - LOW	7SA5-24APR23-M	BPI301	C328584	Dissolved Arsenic (As)	0.05	0.225	0.0001	mg/L
BC CSR Aquatic Life - LOW	1M7SA5-4MAY23-M	BQA645	C332375	Dissolved Arsenic (As)	0.05	0.0788	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-4MAY23-M	BQA646	C332375	Dissolved Arsenic (As)	0.05	0.195	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1109S-8MAY23-M	BQE501	C333067	Dissolved Arsenic (As)	0.05	0.0847	0.0002	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-16MAY23-M	BQQ762	C335437	Dissolved Arsenic (As)	0.05	0.164	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-16MAY23-M	BQQ763	C335437	Dissolved Arsenic (As)	0.05	0.256	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-16MAY23-R	BQQ764	C335437	Dissolved Arsenic (As)	0.05	0.16	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU1009D-18MAY23-M	BQS906	C335829	Dissolved Arsenic (As)	0.05	0.112	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009D-18MAY23-R	BQS907	C335829	Dissolved Arsenic (As)	0.05	0.114	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009S-18MAY23-M	BQS908	C335829	Dissolved Arsenic (As)	0.05	0.0867	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-23MAY23-M	BQY156	C336744	Dissolved Arsenic (As)	0.05	0.334	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-23MAY23-M	BQY157	C336744	Dissolved Arsenic (As)	0.05	0.451	0.0001	mg/L
BC CSR Aquatic Life - LOW	242MW-31MAY23-M	BRP187	C339681	Dissolved Arsenic (As)	0.05	0.11	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1410-6JUN23-M	BRX873	C341133	Dissolved Arsenic (As)	0.05	0.101	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU1101-7JUN23-M	BSC039	C342032	Dissolved Arsenic (As)	0.05	0.248	0.0002	mg/L
BC CSR Aquatic Life - LOW	QU1008D-8JUN23-M	BSC040	C342032	Dissolved Arsenic (As)	0.05	0.164	0.0005	mg/L
BC CSR Aquatic Life - LOW	7SA5-12JUN23-M	BSJ846	C343373	Dissolved Arsenic (As)	0.05	0.172	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-19JUL23-M	BVF494	C355923	Dissolved Arsenic (As)	0.05	0.207	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-20JUL23-M	BVF593	C355940	Dissolved Arsenic (As)	0.05	0.178	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-20JUL23-M	BVF594	C355940	Dissolved Arsenic (As)	0.05	0.246	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-27JUL23-M	BVP520	C357675	Dissolved Arsenic (As)	0.05	0.546	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-27JUL23-M	BVP521	C357675	Dissolved Arsenic (As)	0.05	0.375	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-27JUL23-R	BVP522	C357675	Dissolved Arsenic (As)	0.05	0.374	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1410-27JUL23-M	BVP523	C357675	Dissolved Arsenic (As)	0.05	0.108	0.0005	mg/L
BC CSR Aquatic Life - LOW	242MW-1AUG23-M	BWB131	C359537	Dissolved Arsenic (As)	0.05	0.125	0.0001	mg/L

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Table 5 Contaminated Sites Regulations - Aquatic Life Standards 7 Page(s)

BC CSR Aquatic Life - LOW	QU1109S-10AUG23-M	BWQ005	C362131	Dissolved Arsenic (As)	0.05	0.119	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009S-10AUG23-M	BWQ006	C362131	Dissolved Arsenic (As)	0.05	0.0925	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009D-14AUG23-M	BWU820	C362881	Dissolved Arsenic (As)	0.05	0.115	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009D-14AUG23-R	BWU821	C362881	Dissolved Arsenic (As)	0.05	0.116	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-19SEP23-M	BZO704	C374988	Dissolved Arsenic (As)	0.05	0.185	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-16OCT23-M	CBZ711	C383974	Dissolved Arsenic (As)	0.05	0.187	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-16OCT23-M	CBZ712	C383974	Dissolved Arsenic (As)	0.05	0.187	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-17OCT23-M	CCD050	C384463	Dissolved Arsenic (As)	0.05	0.18	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-18OCT23-M	CCI593	C385390	Dissolved Arsenic (As)	0.05	0.555	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1410-18OCT23-M	CCI594	C385390	Dissolved Arsenic (As)	0.05	0.105	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU0813A-24OCT23-M	CCY030	C387268	Dissolved Arsenic (As)	0.05	0.4	0.0001	mg/L
BC CSR Aquatic Life - LOW	242MW-31OCT23-M	CDM546	C389535	Dissolved Arsenic (As)	0.05	0.124	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1109S-2NOV23-M	CDQ178	C390024	Dissolved Arsenic (As)	0.05	0.0789	0.0002	mg/L
BC CSR Aquatic Life - LOW	7SA5-14NOV23-M	CER464	C394028	Dissolved Arsenic (As)	0.05	0.222	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-13DEC23-M	CGO443	C3A1884	Dissolved Arsenic (As)	0.05	0.207	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1101-13DEC23-M	CGO447	C3A1884	Dissolved Arsenic (As)	0.05	0.12	0.0002	mg/L
BC CSR Aquatic Life - LOW	QU1010S-20DEC23-M	CGY513	C3A3843	Dissolved Arsenic (As)	0.05	0.108	0.0001	mg/L
BC CSR Aquatic Life - LOW	1M7SA5-8JAN24-M	CHK794	C401639	Dissolved Arsenic (As)	0.05	0.0653	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-8JAN24-M	CHK795	C401639	Dissolved Arsenic (As)	0.05	0.209	0.0001	mg/L
BC CSR Aquatic Life - LOW	1M7SA5-21FEB24-M	CJO911	C412310	Dissolved Arsenic (As)	0.05	0.102	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-21FEB24-M	CJO912	C412310	Dissolved Arsenic (As)	0.05	0.197	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-26FEB24-M	CJX623	C413783	Dissolved Arsenic (As)	0.05	0.339	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-26FEB24-M	CJX624	C413783	Dissolved Arsenic (As)	0.05	0.534	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1410-7MAR24-M	CKL047	C416438	Dissolved Arsenic (As)	0.05	0.0959	0.0002	mg/L
BC CSR Aquatic Life - LOW	QU1410-7MAR24-R	CKL048	C416438	Dissolved Arsenic (As)	0.05	0.0971	0.0002	mg/L

Appendix 1 - Tables

Table 5 Contaminated Sites Regulations - Aquatic Life Standards 7 Page(s)

BC CSR Aquatic Life - LOW	QU1136D-12MAR24-M	CKS051	C417691	Dissolved Arsenic (As)	0.05	0.957	0.0002	mg/L
BC CSR Aquatic Life - LOW	242MW-12MAR24-M	CKS052	C417691	Dissolved Arsenic (As)	0.05	0.113	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009S-11MAR24-M	CKS054	C417693	Dissolved Arsenic (As)	0.05	0.0832	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009D-11MAR24-M	CKS055	C417693	Dissolved Arsenic (As)	0.05	0.107	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-13MAR24-M	CKV964	C418562	Dissolved Arsenic (As)	0.05	0.0695	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1010S-18MAR24-M	CLB175	C419712	Dissolved Arsenic (As)	0.05	0.0913	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-20MAR24-M	CLB970	C419916	Dissolved Arsenic (As)	0.05	0.226	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-20MAR24-M	CLB971	C419916	Dissolved Arsenic (As)	0.05	0.229	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-20MAR24-R	CLB972	C419916	Dissolved Arsenic (As)	0.05	0.227	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-26MAR24-M	CLK968	C421887	Dissolved Arsenic (As)	0.05	0.377	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813B-26MAR24-M	CLK969	C421887	Dissolved Arsenic (As)	0.05	0.564	0.0001	mg/L
BC CSR Aquatic Life - LOW	1M7SA5-26MAR24-M	CLK984	C421893	Dissolved Arsenic (As)	0.05	0.0654	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-26MAR24-M	CLK985	C421893	Dissolved Arsenic (As)	0.05	0.197	0.0001	mg/L

Appendix 1 - Tables

Table 6 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 3 Page(s)

EMS ID	E207409	Stn	Std	PL-N																				
Site Description Settling Pond # 4 - Authorized Discharge Location for North Mine Water																								
Site Name	WD	Std Val																						
Date		Max	Min	2023-04-03	2023-04-11	2023-04-17	2023-04-24	2023-05-01	2023-05-08	2023-05-08	2023-05-15	2023-05-23	2023-05-29	2023-06-05	2023-06-12	2023-06-19	2023-06-26	2023-06-26	2023-07-04	2023-07-10	2023-07-17	2023-07-24	2023-08-02	
Wlevel	m			0.134	0.161	0.159	0.194	0.543	0.234	0.234	0.292	0.302	0.137	0.108	0.124	0.137	0.101	0.101	0.036	-0.008	-0.395	-0.306	-0.365	
pH-F	pH Units	8.5	6	8.07	7.91	8.13	7.98	7.94	7.8	7.8	7.89	7.97	7.89	7.91	7.79	7.84	7.92	7.92	7.85	7.97	7.54	7.4	7.61	
Cond-F	uS/cm			1597	1589	1670	1532	1504	1510	1510	1544	1589	1621	1551	1747	1768	1600	1600	1489	1553	1575	1616	1645	
SO4-D	mg/L			370	380	370	340	410	390	380	380	370	360	340	340	330	320	280	310	340	460		410	
TSS	mg/L	25		3.6	<1.0	2.0	<1.0	2.4	<1.0	<1.0	3.6	4.4	2.4	5.6	1.6	<1.0	<1.0	<1.0	2.0	2.0	3.6		<1.0	
Alk-T	mg/L			430				400						400						380			370	
Acidity83	mg/L			3.4				<1.0						4.5						2.2			3.6	
Al-T	mg/L							0.0129												<0.0030				
As-T	mg/L							0.00189												0.00153				
Ba-T	mg/L							0.0193												0.0217				
B-T	mg/L							0.830												0.732				
Cd-T	mg/L							<0.000010												<0.000010				
Ca-T	mg/L							101												102				
Cr-T	mg/L							<0.0010												<0.0010				
Co-T	mg/L							<0.00020												<0.00020				
Cu-T	mg/L							<0.00050												<0.00050				
Hard-T	mg/L							300												311				
Fe-T	mg/L							0.480												0.189				
Pb-T	mg/L							<0.00020												<0.00020				
Mg-T	mg/L							11.6												14.0				
Mn-T	mg/L							0.0957												0.0233				
Mo-T	mg/L							<0.0010												0.0012				
Ni-T	mg/L							<0.0010												0.0037				
K-T	mg/L							3.08												2.89				
S-T	mg/L							126												147				
Se-T	mg/L							<0.00010												<0.00010				
Si-T	mg/L							2.92												3.91				
Ag-T	mg/L							<0.000020												<0.000020				
Na-T	mg/L							238												216				
Sr-T	mg/L							0.935												1.11				
Zn-T	mg/L							<0.0050												<0.0050				
Al-D	mg/L	0.5		<0.0030				<0.0030						<0.0030						<0.0030			<0.0030	
As-D	mg/L			0.00167				0.00142						0.00117						0.00163			0.00417	
Ba-D	mg/L			0.0211				0.0208						0.0221						0.0241			0.0157	
B-D	mg/L			0.910				0.768						0.914						0.840			0.905	
Be-D	mg/L			<0.00010				<0.00010						<0.00010						<0.00010			<0.00010	
Cd-D	mg/L			<0.000010				<0.000010						<0.000010						<0.000010			<0.000010	
Ca-D	mg/L			106				105						106						113			83.5	
Cr-D	mg/L			<0.0010				<0.0010						<0.0010						<0.0010			<0.0010	
Co-D	mg/L			<0.00020				<0.00020						<0.00020						<0.00020			0.00030	
Cu-D	mg/L	0.02		<0.00020				<0.00020						<0.00020						0.00027			0.00056	
Hard-D	mg/L			313				313						314						351			272	
Fe-D	mg/L	0.3		0.0168				0.0317						0.0372						0.0890			0.230	
Pb-D	mg/L	0.05		<0.00020				<0.00020						<0.00020						<0.00020			<0.00020	
Mg-D	mg/L			11.6				12.2						11.8						16.9			15.5	
Mn-D	mg/L			0.111				0.108						0.0247						0.0083			0.237	
Mo-D	mg/L			<0.0010				<0.0010						<0.0010						<0.0010			<0.0010	
Ni-D	mg/L			<0.0010				<0.0010						<0.0010						<0.0010			0.0015	
K-D	mg/L			3.29				3.25						2.96						3.25			3.66	
S-D	mg/L			142				136						124						175			167	
Se-D	mg/L			<0.00010				<0.00010						<0.00010						<0.00010			<0.00010	
Si-D	mg/L			3.06				3.23						2.88						4.50			13.0	
Na-D	mg/L			252				260						244						251			256	
Sr-D	mg/L			1.05				0.960						1.07						1.30			1.06	
Zn-D	mg/L	0.1		<0.0050				<0.0050						<0.0050						<0.0050			<0.0050	
O&G	mg/L	10		<1.0										<1.0									<1.0	

Appendix 1 - Tables

Table 6 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 3 Page(s)

EMS ID	E207409	Stn	Std	PL-N																			
Site Description Settling Pond # 4 - Auth																							
Site Name	WD	Std Val																					
Date		Max	Min	2023-08-08	2023-08-14	2023-08-21	2023-08-28	2023-09-05	2023-09-11	2023-09-18	2023-09-25	2023-10-03	2023-10-10	2023-10-16	2023-10-23	2023-10-30	2023-11-06	2023-11-14	2023-11-20	2023-12-05	2023-12-11	2023-12-18	2023-12-27
Wlevel	m			-0.419	-0.385	0.079	0.081	0.071	0.076	-0.013	0	0.027	0.052	0.024	0.056	0.06	0.61	0.148	0.11	0.087	0.169	0.175	0.444
pH-F	pH Units	8.5	6	7.71	7.39	7.16	7.15	7.44	7.28	7.37	7.36	7.51	7.57	7.76	7.39	7.24	7.87	7.38	7.45	7.51	7.38	7.23	7.38
Cond-F	uS/cm			1663	1530	1508	1565	1558	1277	1369	1343	1456	1805	1729	1472	1403	1381	1494.3	1734	1193.7	1700.5	16167	1477.9
SO4-D	mg/L					250	180	160	170	170	160	360	520	570	320	180	180	500	540	340	440	400	450
TSS	mg/L	25				1.2	<1.0	1.6	4.8	2.8	<1.0	1.6	1.6	3.2	1.2	<1.0	<1.0	1.2	1.2	1.6	1.6	2.4	4.8
Alk-T	mg/L							570				430					520			360			
Acidity83	mg/L							17.8				9.5					<1.0			<1.0			
Al-T	mg/L							<0.0030									0.0074						
As-T	mg/L							0.00222									0.00241						
Ba-T	mg/L							0.0209									0.0228						
B-T	mg/L							0.848									0.827						
Cd-T	mg/L							<0.000010									<0.000010						
Ca-T	mg/L							64.1									64.2						
Cr-T	mg/L							<0.0010									<0.0010						
Co-T	mg/L							<0.00020									<0.00020						
Cu-T	mg/L							<0.00050									<0.00050						
Hard-T	mg/L							185									185						
Fe-T	mg/L							0.111									0.201						
Pb-T	mg/L							<0.00020									<0.00020						
Mg-T	mg/L							6.11									6.00						
Mn-T	mg/L							0.0208									0.0550						
Mo-T	mg/L							<0.0010									<0.0010						
Ni-T	mg/L							<0.0010									<0.0010						
K-T	mg/L							2.72									2.42						
S-T	mg/L							56.6									56.9						
Se-T	mg/L							<0.00010									<0.00010						
Si-T	mg/L							3.61									3.34						
Ag-T	mg/L							<0.000020									<0.000020						
Na-T	mg/L							254									221						
Sr-T	mg/L							0.723									0.644						
Zn-T	mg/L							<0.0050									<0.0050						
Al-D	mg/L	0.5						0.0366				<0.0030					0.0033			0.0063			
As-D	mg/L							0.00209				0.00172					0.00219			0.00139			
Ba-D	mg/L							0.0223				0.0223					0.0249			0.0203			
B-D	mg/L							0.854				0.895					0.824			0.828			
Be-D	mg/L							<0.00010				<0.00010					<0.00010			<0.00010			
Cd-D	mg/L							<0.000010				<0.000010					<0.000010			<0.000010			
Ca-D	mg/L							68.5				101					69.3			104			
Cr-D	mg/L							<0.0010				<0.0010					<0.0010			<0.0010			
Co-D	mg/L							<0.00020				<0.00020					<0.00020			0.00040			
Cu-D	mg/L	0.02						0.00027				<0.00020					<0.00020			0.00023			
Hard-D	mg/L							197				308					199			310			
Fe-D	mg/L	0.3						0.0440				0.0385					0.0368			0.0150			
Pb-D	mg/L	0.05						<0.00020				<0.00020					<0.00020			<0.00020			
Mg-D	mg/L							6.23				13.7					6.29			12.5			
Mn-D	mg/L							0.0198				0.0129					0.0593			0.114			
Mo-D	mg/L							<0.0010				<0.0010					<0.0010			<0.0010			
Ni-D	mg/L							<0.0010				<0.0010					<0.0010			0.0012			
K-D	mg/L							2.73				3.15					2.52			3.02			
S-D	mg/L							57.7				138					61.1			137			
Se-D	mg/L							<0.00010				<0.00010					<0.00010			<0.00010			
Si-D	mg/L							4.05				4.66					3.75			3.38			
Na-D	mg/L							255				258					231			228			
Sr-D	mg/L							0.729				1.05					0.675			0.964			
Zn-D	mg/L	0.1						<0.0050				<0.0050					<0.0050			<0.0050			
O&G	mg/L	10										<1.0								<1.0			

Appendix 1 - Tables

Table 6 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 3 Page(s)

EMS ID	E207409	Stn	Std	PL-N													
Site Description Settling Pond # 4 - Auth																	
Site Name	WD	Std Val															
Date		Max	Min	2024-01-02	2024-01-02	2024-01-08	2024-01-15	2024-01-22	2024-02-06	2024-02-12	2024-02-20	2024-02-26	2024-03-11	2024-03-18	2024-03-18	2024-03-25	
Wlevel	m			0.254	0.254	0.295	0.135	0.173	0.214	0.149	0.141	0.165	0.223	0.165	0.165	0.158	
pH-F	pH Units	8.5	6	7.38	7.38	7.9	7.94	7.51	7.52	7.65	7.62	7.84	7.75	7.65	7.65	7.67	
Cond-F	uS/cm			1601.2	1601.2	1611	1695	1703	1760	1702	1713	1777	1112	1742	1742	1716	
SO4-D	mg/L			490	500	510	460	400	450	370	460	440	410	430	430	430	
TSS	mg/L	25		2.0	1.6	2.4	1.6	2.4	<1.0	15	1.6	2.8	1.6	1.2	2.0	1.6	
Alk-T	mg/L			360	370				420								
Acidity83	mg/L			4.8	4.3				3.4								
Al-T	mg/L			0.100	0.0942												
As-T	mg/L			0.00175	0.00182												
Ba-T	mg/L			0.0188	0.0194												
B-T	mg/L			0.753	0.827												
Cd-T	mg/L			0.000014	<0.000010												
Ca-T	mg/L			114	116												
Cr-T	mg/L			<0.0010	<0.0010												
Co-T	mg/L			0.00092	0.00093												
Cu-T	mg/L			0.00147	0.00147												
Hard-T	mg/L			343	350												
Fe-T	mg/L			0.455	0.451												
Pb-T	mg/L			<0.00020	<0.00020												
Mg-T	mg/L			14.4	14.8												
Mn-T	mg/L			0.125	0.129												
Mo-T	mg/L			<0.0010	<0.0010												
Ni-T	mg/L			0.0033	0.0033												
K-T	mg/L			3.05	3.13												
S-T	mg/L			173	178												
Se-T	mg/L			<0.00010	<0.00010												
Si-T	mg/L			3.98	3.93												
Ag-T	mg/L			<0.000020	<0.000020												
Na-T	mg/L			230	242												
Sr-T	mg/L			1.08	1.11												
Zn-T	mg/L			<0.0050	<0.0050												
Al-D	mg/L	0.5		0.0191	0.0192				0.0092								
As-D	mg/L			0.00096	0.00093				0.00144								
Ba-D	mg/L			0.0190	0.0190				0.0204								
B-D	mg/L			0.810	0.882				0.934								
Be-D	mg/L			<0.00010	<0.00010				<0.00010								
Cd-D	mg/L			<0.000010	<0.000010				<0.000010								
Ca-D	mg/L			123	119				112								
Cr-D	mg/L			<0.0010	<0.0010				<0.0010								
Co-D	mg/L			0.00094	0.00089				0.00036								
Cu-D	mg/L	0.02		0.00055	0.00055				0.00037								
Hard-D	mg/L			368	360				334								
Fe-D	mg/L	0.3		0.0086	0.0076				0.0103								
Pb-D	mg/L	0.05		<0.00020	<0.00020				<0.00020								
Mg-D	mg/L			15.0	15.2				13.0								
Mn-D	mg/L			0.129	0.125				0.142								
Mo-D	mg/L			<0.0010	<0.0010				<0.0010								
Ni-D	mg/L			0.0033	0.0032				0.0014								
K-D	mg/L			3.20	3.16				3.30								
S-D	mg/L			184	180				166								
Se-D	mg/L			<0.00010	<0.00010				<0.00010								
Si-D	mg/L			3.75	3.85				3.48								
Na-D	mg/L			250	244				253								
Sr-D	mg/L			1.11	1.10				1.10								
Zn-D	mg/L	0.1		<0.0050	<0.0050				<0.0050								
O&G	mg/L	10							<1.0								

Appendix 1 - Tables

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

EMS ID E207412													
Site Description 2 North Pit Sump CCR Water Cover													
Site Name WP													
Date		2023-04-03	2023-05-01	2023-06-05	2023-07-10	2023-08-02	2023-09-05	2023-10-03	2023-11-06	2023-12-05	2024-01-02	2024-02-06	2024-03-04
pH-F	pH Units	8.42	8.27	8.13	8.11	7.59	7.8	7.77	7.75	7.48	7.99	8.03	7.27
Cond-F	uS/cm	1756	1487	1566	1547	1765	2009	1764	1484	1180.2	1385.2	1342	1401
SO4-D	mg/L	470	470	400	460	510	640	670	690	440	540	510	480
TSS	mg/L	2.8	2.8	4.0	1.2	<1.0	2.4	1.6	2.8	1.6	2.0	<1.0	2.8
Alk-T	mg/L	330	330	340	300	360	260	260	240	140	220	200	270
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	13.1	<1.0	14.8	1.1	<1.0	<1.0	7.5
Al-T	mg/L	0.0168	0.0137	0.0066	0.0052	0.0058	0.0046	0.0044	0.0571	0.0496	0.0511	0.0389	0.0308
As-T	mg/L	0.00192	0.00174	0.00202	0.00110	0.00060	0.00049	0.00042	0.00036	0.00066	0.00068	0.00030	0.00193
Ba-T	mg/L	0.0145	0.0132	0.0136	0.0129	0.0128	0.0112	0.0113	0.0120	0.0126	0.0135	0.0104	0.0149
B-T	mg/L	0.706	0.797	0.738	0.821	0.779	0.796	0.821	0.671	0.482	0.718	0.488	0.804
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000056	0.000069	0.000011	<0.000010	<0.000010
Ca-T	mg/L	120	97.4	74.6	68.7	89.6	114	130	156	146	136	126	137
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00036	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00625	0.00909	0.00106	0.00083	0.00057
Cu-T	mg/L	0.00063	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00288	0.00250	0.00095	0.00078	0.00056
Hard-T	mg/L	361	304	232	228	290	360	414	482	444	422	386	413
Fe-T	mg/L	0.699	0.640	0.422	0.122	0.020	0.021	0.017	0.146	0.293	0.290	0.241	0.949
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	15.2	14.8	11.2	13.6	16.2	18.6	21.9	22.2	19.6	19.7	17.1	17.1
Mn-T	mg/L	0.0990	0.0369	0.0530	0.0184	0.0028	0.0050	0.0035	0.203	0.273	0.0478	0.0342	0.102
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0107	0.0141	0.0035	0.0033	0.0025
K-T	mg/L	3.37	3.42	3.26	3.78	3.48	3.59	3.68	2.83	1.96	2.70	2.00	2.81
S-T	mg/L	170	155	130	158	177	218	254	231	167	196	159	181
Se-T	mg/L	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	0.00016	0.00010	<0.00010	<0.00010
Si-T	mg/L	2.29	1.83	1.74	2.23	2.81	2.96	3.01	2.86	2.87	3.01	2.30	2.89
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	214	221	215	247	236	242	247	163	102	163	123	166
Sr-T	mg/L	1.01	0.927	0.861	0.956	1.15	1.24	1.36	1.21	0.842	1.10	0.904	0.990
Zn-T	mg/L	<0.0050	<0.0050	0.0073	<0.0050	<0.0050	<0.0050	<0.0050	0.0151	0.0188	<0.0050	<0.0050	<0.0050
Al-D	mg/L	<0.0030	0.0037	0.0031	<0.0030	<0.0030	<0.0030	<0.0030	0.0252	0.0099	0.0221	0.0203	<0.0030
As-D	mg/L	0.00073	0.00073	0.00126	0.00084	0.00062	0.00050	0.00042	0.00033	0.00044	0.00042	0.00026	0.00108
Ba-D	mg/L	0.0149	0.0142	0.0149	0.0128	0.0139	0.0129	0.0116	0.0125	0.0126	0.0130	0.0121	0.0152
B-D	mg/L	0.857	0.833	0.849	0.935	0.927	0.842	0.890	0.710	0.510	0.733	0.634	0.746
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000037	0.000064	<0.000010	0.000010	<0.000010
Ca-D	mg/L	123	108	84.9	63.3	102	124	132	163	132	139	135	132
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00031	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00422	0.00815	0.00100	0.00095	0.00057
Cu-D	mg/L	0.00036	0.00032	0.00030	0.00039	0.00066	0.00032	<0.00020	0.00142	0.00156	0.00060	0.00059	0.00024
Hard-D	mg/L	371	331	270	223	327	393	422	503	408	429	415	401
Fe-D	mg/L	0.0152	0.0412	0.0409	0.0058	<0.0050	0.0091	<0.0050	0.0142	0.0107	0.0079	0.0053	0.0455
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	15.7	15.2	14.1	15.7	17.9	20.6	22.5	23.2	18.9	19.6	18.9	17.3
Mn-D	mg/L	0.0946	0.0303	0.0133	0.0013	<0.0010	0.0045	<0.0010	0.137	0.264	0.0455	0.0389	0.110
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.0017	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0078	0.0133	0.0034	0.0037	0.0025
K-D	mg/L	3.47	3.63	3.99	4.14	3.92	3.78	3.73	3.25	1.91	2.70	2.30	2.95
S-D	mg/L	179	165	155	178	209	254	264	252	163	196	185	174
Se-D	mg/L	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	0.00017	<0.00010	0.00011	<0.00010
Si-D	mg/L	2.54	1.87	1.98	2.41	3.19	3.41	3.07	3.10	2.76	2.96	2.58	3.17
Na-D	mg/L	218	228	252	275	269	261	248	200	99.0	165	135	171
Sr-D	mg/L	1.11	1.06	1.03	0.983	1.18	1.36	1.41	1.29	0.873	1.10	1.06	1.06
Zn-D	mg/L	<0.0050	<0.0050	0.0066	<0.0050	<0.0050	<0.0050	<0.0050	0.0102	0.0161	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

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

EMS ID		E283433											
Site Description		2-North Portal Sump Effluent											
Site Name		2NPS											
Date		2023-04-03	2023-05-01	2023-06-05	2023-07-10	2023-08-02	2023-09-05	2023-10-03	2023-11-06	2023-12-05	2024-01-02	2024-02-06	2024-03-04
pH-F	pH Units	7.86	7.82	7.97	7.73	7.25	7.42	7.18	7.47	7.09	7.2	7.3	7.07
Cond-F	uS/cm	2180	2010	2100	2300	2050	2042	1888	2160	422.8	2074.6	2350	2010
SO4-D	mg/L	950		920	840	730	760	550	790	180	1000	1000	960
Alk-T	mg/L	330	320	320	330	330	340	320	310	45	270	310	300
Acidity83	mg/L	3.9	10.3	9.2	7.4	14.3	14.9	4.9	23.5	1.1	7.7	10.9	9.7
Al-T	mg/L	0.0115	0.0141	0.0061	0.0102	0.0076	0.0048	0.0385	0.0568	1.22	0.272	0.0540	0.0475
As-T	mg/L	0.00061	0.00079	0.00062	0.00064	0.00075	0.00072	0.00063	0.00044	0.00141	0.00040	0.00045	0.00039
Ba-T	mg/L	0.0116	0.0102	0.0105	0.0101	0.0108	0.0105	0.0117	0.0122	0.0118	0.0160	0.0138	0.0128
B-T	mg/L	0.76	0.84	0.725	0.725	0.736	0.744	0.823	0.861	0.151	0.94	0.80	1.02
Cd-T	mg/L	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000011	0.000023	0.000041	<0.000020	<0.000020
Ca-T	mg/L	254	240	225	203	206	200	199	215	63.2	309	272	294
Cr-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0023	<0.0020	<0.0020	<0.0020
Co-T	mg/L	0.00117	0.00104	0.00055	0.00035	0.00045	0.00036	0.00117	0.00114	0.00275	0.00584	0.00204	0.00172
Cu-T	mg/L	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	0.00091	0.00088	0.00790	0.0044	<0.0010	<0.0010
Hard-T	mg/L	755	711	662	605	610	587	590	636	182	922	804	876
Fe-T	mg/L	0.240	0.206	0.184	0.178	0.201	0.188	0.227	0.155	1.33	0.182	0.272	0.240
Pb-T	mg/L	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00024	<0.00040	<0.00040	<0.00040
Mg-T	mg/L	29.1	26.9	24.3	24.2	23.0	21.4	22.9	24.0	5.84	36.7	30.5	34.7
Mn-T	mg/L	0.164	0.166	0.124	0.0847	0.115	0.0916	0.126	0.129	0.0835	0.285	0.193	0.194
Mo-T	mg/L	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020
Ni-T	mg/L	0.0028	0.0029	0.0017	0.0015	0.0017	0.0013	0.0028	0.0038	0.0054	0.0148	0.0048	0.0031
K-T	mg/L	3.75	3.59	3.57	3.39	3.25	3.35	3.46	3.51	0.831	3.97	3.58	3.67
S-T	mg/L	318	287	293	267	242	260	280	279	55.9	375	313	338
Se-T	mg/L	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	<0.00020	<0.00020	<0.00020
Si-T	mg/L	2.98	3.10	2.99	2.89	2.97	2.99	3.08	3.15	2.58	4.05	3.20	3.58
Ag-T	mg/L	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040
Na-T	mg/L	234	220	215	205	208	217	213	205	17.5	198	196	198
Sr-T	mg/L	1.84	1.69	1.85	1.68	1.63	1.53	1.52	1.63	0.235	2.26	1.98	1.86
Zn-T	mg/L	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0061	0.0078	0.019	<0.010	<0.010
Al-D	mg/L	0.0062	0.0184	<0.0060	0.0066	<0.0030	0.0045	0.0132	0.0155	0.0093	0.0464	0.0140	0.0131
As-D	mg/L	0.00046	0.00057	0.00053	0.00051	0.00059	0.00075	0.00042	0.00026	<0.00010	0.00023	0.00032	0.00029
Ba-D	mg/L	0.0117	0.0117	0.0116	0.0110	0.0109	0.0122	0.0121	0.0127	0.0105	0.0155	0.0149	0.0129
B-D	mg/L	0.88	0.86	0.96	0.83	0.781	0.873	0.878	0.82	0.224	0.98	0.98	0.87
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000020	0.000015	0.000039	<0.000020	<0.000020
Ca-D	mg/L	256	257	256	221	217	226	203	230	63.2	315	282	271
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.00110	0.00103	0.00062	<0.00040	0.00045	0.00045	0.00118	0.00117	0.00142	0.00585	0.00214	0.00192
Cu-D	mg/L	<0.00040	0.00092	<0.00040	<0.00040	<0.00020	0.00021	0.00047	<0.00040	0.00068	0.00211	<0.00040	<0.00040
Hard-D	mg/L	756	759	760	665	640	664	603	682	183	939	841	802
Fe-D	mg/L	0.038	<0.010	0.027	0.027	0.0260	0.0414	0.0084	0.021	<0.0050	0.015	0.136	0.042
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040
Mg-D	mg/L	28.7	28.8	29.5	27.2	23.9	24.2	23.6	26.4	6.08	36.9	33.4	30.2
Mn-D	mg/L	0.170	0.180	0.137	0.0880	0.117	0.110	0.133	0.134	0.0649	0.287	0.212	0.217
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020
Ni-D	mg/L	0.0027	0.0027	<0.0020	<0.0020	0.0016	0.0018	0.0029	0.0041	0.0037	0.0154	0.0048	0.0041
K-D	mg/L	3.73	3.81	4.02	3.60	3.40	3.59	3.55	3.64	0.880	3.98	3.94	3.91
S-D	mg/L	330	307	328	298	298	296	280	293	62.9	382	355	327
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	0.00015	<0.00020	<0.00020	<0.00020
Si-D	mg/L	3.28	3.32	3.36	3.22	3.24	3.70	3.12	3.44	1.15	4.00	3.57	3.67
Na-D	mg/L	231	232	243	224	234	238	218	222	20.7	200	206	189
Sr-D	mg/L	1.93	1.92	2.02	1.81	1.59	1.66	1.56	1.62	0.277	2.29	2.21	2.06
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	0.018	<0.010	<0.010

Appendix 1 - Tables

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

EMS ID		N/A								
Site Description		Road Side Ditch Draining into MQL								
Site Name		PDSR								
Date		2023-04-03	2023-05-01	2023-07-10	2023-11-14	2023-12-05	2024-01-02	2024-02-06	2024-03-04	
pH-F	pH Units	7.97	7.99	Dry June to Nov	7.4	7.43	7.64	7.63	7.52	
Cond-F	uS/cm	1822	1345		1002.2	884.8	864.6	1120	1084	
SO4-D	mg/L	770	640		430	340	360	410	480	
TSS	mg/L	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	
Al-T	mg/L	0.0067	0.0100		0.0109	0.0184	0.0216	0.0097	0.0082	
As-T	mg/L	<0.00020	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Ba-T	mg/L	0.0208	0.0219		0.0138	0.0115	0.0121	0.0131	0.0133	
B-T	mg/L	0.22	0.34		0.161	0.162	0.231	0.183	0.211	
Cd-T	mg/L	<0.000020	<0.000020		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Ca-T	mg/L	248	231		134	136	131	151	179	
Cr-T	mg/L	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-T	mg/L	<0.00040	<0.00040		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Cu-T	mg/L	<0.0010	<0.0010		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Hard-T	mg/L	786	735		432	434	420	480	569	
Fe-T	mg/L	<0.020	<0.020		<0.010	<0.010	<0.010	<0.010	<0.010	
Pb-T	mg/L	<0.00040	<0.00040		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-T	mg/L	40.8	38.3		23.4	23.2	22.6	25.0	29.7	
Mn-T	mg/L	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Mo-T	mg/L	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-T	mg/L	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
K-T	mg/L	1.39	1.70		0.933	0.904	0.932	0.890	1.03	
S-T	mg/L	239	212		137	121	129	137	168	
Se-T	mg/L	<0.00020	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Si-T	mg/L	2.71	3.79		3.13	3.55	3.60	3.12	3.25	
Ag-T	mg/L	<0.000040	<0.000040		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Na-T	mg/L	49.5	49.3		34.4	33.3	29.5	30.9	34.2	
Sr-T	mg/L	1.42	1.37		0.820	0.711	0.800	0.858	0.946	
Zn-T	mg/L	<0.010	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Al-D	mg/L	0.0086	0.0071		0.0117	0.0127	0.0106	0.0072	0.0067	
As-D	mg/L	<0.00020	<0.00020		0.00011	<0.00010	0.00012	<0.00010	<0.00010	
Ba-D	mg/L	0.0230	0.0210		0.0162	0.0115	0.0119	0.0129	0.0148	
B-D	mg/L	0.27	0.31		0.197	0.170	0.200	0.182	0.210	
Be-D	mg/L	<0.00020	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Cd-D	mg/L	0.000032	<0.000020		0.000012	<0.000010	<0.000010	<0.000010	<0.000010	
Ca-D	mg/L	270	225		165	121	134	152	183	
Cr-D	mg/L	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-D	mg/L	<0.00040	<0.00040		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Cu-D	mg/L	0.00055	0.00041		0.00107	0.00044	0.00035	0.00035	0.00030	
Hard-D	mg/L	854	709		530	396	427	484	576	
Fe-D	mg/L	<0.010	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Pb-D	mg/L	<0.00040	<0.00040		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-D	mg/L	44.0	35.9		28.8	22.5	22.6	25.7	29.1	
Mn-D	mg/L	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Mo-D	mg/L	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-D	mg/L	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
K-D	mg/L	1.48	1.55		1.14	0.919	0.946	0.935	1.08	
S-D	mg/L	272	200		166	127	127	152	172	
Se-D	mg/L	<0.00020	<0.00020		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Si-D	mg/L	3.29	3.60		3.71	3.43	3.64	3.34	3.75	
Na-D	mg/L	51.2	46.4		41.6	31.7	29.3	31.8	33.8	
Sr-D	mg/L	1.67	1.35		1.01	0.740	0.796	0.923	1.07	
Zn-D	mg/L	<0.010	<0.010		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	

Appendix 1 - Tables

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

EMS ID		E207411															
Site Description		Culvert at Middle Quinsam Lake Road															
Site Name		WC															
Date		2023-04-03	2023-04-03	2023-05-01	2023-06-05	2023-06-05	2023-07-10	2023-08-02	2023-09-05	2023-09-18	2023-10-03	2023-11-06	2023-12-05	2024-01-02	2024-02-06	2024-02-06	2024-03-04
pH-F	pH Units	8.63	8.63	8.43	8.46	8.46	8.41	7.68	8.12	8.05	7.98	8.49	8.07	8.12	8.13	8.13	8.05
Cond-F	uS/cm	1548	1548	1369	1454	1454	1350	1480	1620	1283	1141	1260	1071.2	1457.9	1484	1484	1293
SO4-D	mg/L	360	360	380	340	350	340	320	200	210	190	170	260	470	430	430	350
TSS	mg/L	1.6	2.8	<1.0	1.2	<1.0	<1.0	<1.0		<1.0	<1.0	2.8	1.2	1.6	<1.0	<1.0	<1.0
Al-T	mg/L			0.0070			0.0053		0.0049			0.0071		0.0275			0.0079
As-T	mg/L			0.00062			0.00063		0.00094			0.00060		0.00064			0.00056
Ba-T	mg/L			0.0159			0.0119		0.0098			0.0095		0.0176			0.0142
B-T	mg/L			0.820			0.818		0.884			0.767		0.804			0.823
Cd-T	mg/L			<0.000010			<0.000010		<0.000010			<0.000010		<0.000010			<0.000010
Ca-T	mg/L			81.4			52.3		42.0			49.3		110			90.6
Cr-T	mg/L			<0.0010			<0.0010		<0.0010			<0.0010		<0.0010			<0.0010
Co-T	mg/L			<0.00020			<0.00020		<0.00020			<0.00020		<0.00020			<0.00020
Cu-T	mg/L			<0.00050			<0.00050		<0.00050			<0.00050		0.00070			<0.00050
Hard-T	mg/L			250			170		135			150		333			270
Fe-T	mg/L			0.087			0.034		0.028			0.030		0.062			0.050
Pb-T	mg/L			<0.00020			<0.00020		<0.00020			<0.00020		<0.00020			<0.00020
Mg-T	mg/L			11.4			9.52		7.32			6.41		14.1			10.5
Mn-T	mg/L			0.0047			0.0176		0.0110			0.0050		0.0138			0.0060
Mo-T	mg/L			<0.0010			<0.0010		<0.0010			<0.0010		<0.0010			<0.0010
Ni-T	mg/L			<0.0010			<0.0010		<0.0010			<0.0010		0.0017			<0.0010
K-T	mg/L			3.05			2.85		2.89			2.32		2.99			2.48
S-T	mg/L			126			111		67.5			60.8		173			130
Se-T	mg/L			<0.00010			<0.00010		<0.00010			<0.00010		<0.00010			<0.00010
Si-T	mg/L			2.71			4.39		5.07			3.52		3.71			2.98
Ag-T	mg/L			<0.000020			<0.000020		<0.000020			<0.000020		<0.000020			<0.000020
Na-T	mg/L			235			228		261			205		228			188
Sr-T	mg/L			0.865			0.743		0.611			0.584		1.07			0.814
Zn-T	mg/L			<0.0050			<0.0050		<0.0050			<0.0050		<0.0050			<0.0050
Al-D	mg/L			0.0033			0.0048		0.0057			0.0085		0.0223			0.0073
As-D	mg/L			0.00056			0.00074		0.00093			0.00058		0.00056			0.00059
Ba-D	mg/L			0.0173			0.0133		0.0104			0.0102		0.0176			0.0156
B-D	mg/L			0.823			0.926		0.941			0.732		0.791			0.780
Be-D	mg/L			<0.00010			<0.00010		<0.00010			<0.00010		<0.00010			<0.00010
Cd-D	mg/L			<0.000010			<0.000010		<0.000010			<0.000010		<0.000010			0.000010
Ca-D	mg/L			87.2			58.6		43.8			52.3		108			94.3
Cr-D	mg/L			<0.0010			<0.0010		<0.0010			<0.0010		<0.0010			<0.0010
Co-D	mg/L			<0.00020			<0.00020		<0.00020			<0.00020		<0.00020			<0.00020
Cu-D	mg/L			<0.00020			0.00024		0.00040			0.00028		0.00079			0.00025
Hard-D	mg/L			265			193		139			158		330			280
Fe-D	mg/L			0.0121			0.0204		0.0200			0.0261		0.0095			0.0160
Pb-D	mg/L			<0.00020			<0.00020		<0.00020			<0.00020		<0.00020			<0.00020
Mg-D	mg/L			11.6			11.4		7.30			6.59		14.5			10.7
Mn-D	mg/L			0.0044			0.0185		0.0111			0.0051		0.0133			0.0060
Mo-D	mg/L			<0.0010			<0.0010		<0.0010			<0.0010		<0.0010			<0.0010
Ni-D	mg/L			<0.0010			<0.0010		<0.0010			<0.0010		0.0017			<0.0010
K-D	mg/L			3.24			3.18		2.94			2.37		2.94			2.60
S-D	mg/L			132			131		69.9			63.1		172			127
Se-D	mg/L			<0.00010			<0.00010		<0.00010			<0.00010		<0.00010			<0.00010
Si-D	mg/L			2.92			5.06		5.57			3.88		3.61			3.49
Na-D	mg/L			237			255		252			210		229			197
Sr-D	mg/L			0.986			0.859		0.614			0.577		1.03			0.876
Zn-D	mg/L			<0.0050			<0.0050		<0.0050			<0.0050		<0.0050			<0.0050

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID	E218582															PL-S														
Site Description		Settling Pond #1 - Authorized Discharge Location for South Mine Water																												
Site Name		SPD		Std Val																										
Date		Max	Min	2023-04-03	2023-04-11	2023-04-17	2023-04-24	2023-05-01	2023-05-08	2023-05-15	2023-05-23	2023-05-29	2023-06-05	2023-06-12	2023-06-19	2023-06-26														
Wlevel	m			0.045	0.065	0.02	0.071	0.0131	0.03	0.01	0.01	0.01	0.00061	0.004	0	0														
pH-F	pH Units	8.5	6	8.03	7.98	8.19	7.98	8.15	7.98	8.16	8.12	8.11	8.13	8.12	8.05	8.33														
Cond-F	uS/cm			924	958	877	663	845	816	852	939	949	999	1059	1074	1108														
SO4-D	mg/L			340	370	330	290	290	330	350	390	400	400	450	470	470														
TSS	mg/L	25		4.8	<1.0	<1.0	<1.0	1.6	3.2	1.2	<1.0	1.2	<1.0	<1.0	<1.0	<1.0														
Alk-T	mg/L			110				93					97																	
Acidity83	mg/L			<1.0				<1.0					3.0																	
Al-T	mg/L							0.0090																						
As-T	mg/L							0.00161																						
Ba-T	mg/L							0.0112																						
B-T	mg/L							0.250																						
Cd-T	mg/L							<0.000010																						
Ca-T	mg/L							136																						
Cr-T	mg/L							<0.0010																						
Co-T	mg/L							<0.00020																						
Cu-T	mg/L							<0.00050																						
Hard-T	mg/L							410																						
Fe-T	mg/L							0.058																						
Pb-T	mg/L							<0.00020																						
Mg-T	mg/L							16.8																						
Mn-T	mg/L							0.0118																						
Mo-T	mg/L							<0.0010																						
Ni-T	mg/L							<0.0010																						
K-T	mg/L							1.37																						
S-T	mg/L							126																						
Se-T	mg/L							<0.00010																						
Si-T	mg/L							2.28																						
Ag-T	mg/L							<0.000020																						
Na-T	mg/L							35.2																						
Sr-T	mg/L							0.896																						
Zn-T	mg/L							<0.0050																						
Al-D	mg/L	0.5		0.0035				0.0062					0.0042																	
As-D	mg/L			0.00111				0.00162					0.00119																	
Ba-D	mg/L			0.0112				0.0114					0.0136																	
B-D	mg/L			0.212				0.237					0.332																	
Be-D	mg/L			<0.00010				<0.00010					<0.00010																	
Cd-D	mg/L			<0.000010				<0.000010					<0.000010																	
Ca-D	mg/L			138				141					151																	
Cr-D	mg/L			<0.0010				<0.0010					<0.0010																	
Co-D	mg/L			<0.00020				<0.00020					<0.00020																	
Cu-D	mg/L	0.02		0.00024				0.00037					0.00021																	
Hard-D	mg/L			415				420					462																	
Fe-D	mg/L	0.5		0.0250				0.0203					0.0657																	
Pb-D	mg/L	0.05		<0.00020				<0.00020					<0.00020																	
Mg-D	mg/L			17.1				16.6					20.2																	
Mn-D	mg/L			0.0084				0.0072					0.0110																	
Mo-D	mg/L			<0.0010				<0.0010					<0.0010																	
Ni-D	mg/L			<0.0010				<0.0010					<0.0010																	
K-D	mg/L			1.21				1.37					1.49																	
S-D	mg/L			132				129					155																	
Se-D	mg/L			<0.00010				<0.00010					<0.00010																	
Si-D	mg/L			2.25				2.34					1.34																	
Na-D	mg/L			30.8				34.7					42.0																	
Sr-D	mg/L			0.931				0.971					1.16																	
Zn-D	mg/L	0.2		<0.0050				<0.0050					0.0051																	
O&G	mg/L	10		1.3									<1.0																	

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID		E218582															
Site Description																	
Site Name		SPD	Std Val														
Date		Max	Min	2023-07-04	2023-07-10	2023-07-17	2023-07-24	2023-08-02	2023-08-08	2023-08-14	2023-08-21	2023-08-28	2023-09-05	2023-09-11	2023-09-18	2023-09-25	
Wlevel	m			0.00474	-0.01	-0.05	-0.08	0	-0.15	-0.1	-0.08	-0.4	0	0.01	0	0.001	
pH-F	pH Units	8.5	6	7.95	7.91	7.63	7.51	8.05	7.6	7.39	7.54	7.79	7.43	7.56	7.38	7.43	
Cond-F	uS/cm			1154	1116	1120	1176	1249	1245	1168	1304	1341	1544	1203	1252	1281	
SO4-D	mg/L			550	520	530		510					550	560	580	570	
TSS	mg/L	25		1.6	3.6	<1.0	No Discharge	<1.0	No Discharge				1.2	<1.0	<1.0	<1.0	
Alk-T	mg/L				97			95					93				
Acidity83	mg/L				3.2			<1.0					4.7				
Al-T	mg/L				<0.0030								0.0039				
As-T	mg/L				0.00169								0.00180				
Ba-T	mg/L				0.0179								0.0175				
B-T	mg/L				0.370								0.359				
Cd-T	mg/L				<0.000010								<0.000010				
Ca-T	mg/L				177								179				
Cr-T	mg/L				<0.0010								<0.0010				
Co-T	mg/L				<0.00020								<0.00020				
Cu-T	mg/L				<0.00050								<0.00050				
Hard-T	mg/L				544								550				
Fe-T	mg/L				0.135								0.107				
Pb-T	mg/L				<0.00020								<0.00020				
Mg-T	mg/L				24.7								25.4				
Mn-T	mg/L				0.0480								0.0157				
Mo-T	mg/L				<0.0010								<0.0010				
Ni-T	mg/L				<0.0010								<0.0010				
K-T	mg/L				1.89								2.11				
S-T	mg/L				190								201				
Se-T	mg/L				<0.00010								<0.00010				
Si-T	mg/L				2.13								4.98				
Ag-T	mg/L				<0.000020								<0.000020				
Na-T	mg/L				47.1								51.6				
Sr-T	mg/L				1.39								1.33				
Zn-T	mg/L				<0.0050								<0.0050				
Al-D	mg/L	0.5			0.0031			<0.0030					<0.0030				
As-D	mg/L				0.00176			0.00161					0.00172				
Ba-D	mg/L				0.0186			0.0183					0.0190				
B-D	mg/L				0.376			0.367					0.409				
Be-D	mg/L				<0.00010			<0.00010					<0.00010				
Cd-D	mg/L				<0.000010			<0.000010					<0.000010				
Ca-D	mg/L				184			183					192				
Cr-D	mg/L				<0.0010			<0.0010					<0.0010				
Co-D	mg/L				<0.00020			<0.00020					<0.00020				
Cu-D	mg/L	0.02			0.00022			0.00138					<0.00020				
Hard-D	mg/L				569			561					591				
Fe-D	mg/L	0.5			0.116			0.0421					0.0719				
Pb-D	mg/L	0.05			<0.00020			<0.00020					<0.00020				
Mg-D	mg/L				26.7			25.4					27.3				
Mn-D	mg/L				0.0311			<0.0010					0.0151				
Mo-D	mg/L				<0.0010			<0.0010					<0.0010				
Ni-D	mg/L				<0.0010			<0.0010					<0.0010				
K-D	mg/L				1.97			1.94					2.16				
S-D	mg/L				204			203					205				
Se-D	mg/L				<0.00010			<0.00010					<0.00010				
Si-D	mg/L				2.25			3.78					5.64				
Na-D	mg/L				47.7			51.7					54.1				
Sr-D	mg/L				1.44			1.27					1.39				
Zn-D	mg/L	0.2			<0.0050			<0.0050					<0.0050				
O&G	mg/L	10						<1.0									

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID		E218582															
Site Description																	
Site Name	SPD	Std Val															
Date		Max	Min	2023-10-03	2023-10-10	2023-10-16	2023-10-23	2023-10-30	2023-11-06	2023-11-14	2023-11-20	2023-11-27	2023-12-05	2023-12-11	2023-12-18	2023-12-27	2023-12-27
Wlevel	m			0.05	0.01	0.02	0.01	0.02	0.06	0.83	0.025	0.02	0.106	0.038	0.07	0.12	0.12
pH-F	pH Units	8.5	6	7.21	7.59	7.29	7.56	7.31	7.35	6.75	6.91	6.85	6.74	6.6	6.96	7.06	7.06
Cond-F	uS/cm			1267	1306	1281	1239	1189	1121	310.3	471.2	639.8	410.2	289.6	513.3	424.5	424.5
SO4-D	mg/L			570	550	510	530	500	430	220	190	350	120	93	240	160	160
TSS	mg/L	25		1.6	1.6	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	2.0	<1.0	1.6
Alk-T	mg/L			120					110				47				
Acidity83	mg/L			4.4					<1.0				1.1				
Al-T	mg/L								0.0200								
As-T	mg/L								0.00159								
Ba-T	mg/L								0.0139								
B-T	mg/L								0.354								
Cd-T	mg/L								<0.000010								
Ca-T	mg/L								141								
Cr-T	mg/L								<0.0010								
Co-T	mg/L								<0.00020								
Cu-T	mg/L								<0.00050								
Hard-T	mg/L								426								
Fe-T	mg/L								0.226								
Pb-T	mg/L								<0.00020								
Mg-T	mg/L								17.6								
Mn-T	mg/L								0.0438								
Mo-T	mg/L								<0.0010								
Ni-T	mg/L								<0.0010								
K-T	mg/L								1.79								
S-T	mg/L								155								
Se-T	mg/L								<0.00010								
Si-T	mg/L								2.75								
Ag-T	mg/L								<0.000020								
Na-T	mg/L								54.5								
Sr-T	mg/L								1.07								
Zn-T	mg/L								<0.0050								
Al-D	mg/L	0.5		<0.0030					0.0117				0.0632				
As-D	mg/L			0.00138					0.00125				0.00129				
Ba-D	mg/L			0.0174					0.0142				0.0070				
B-D	mg/L			0.470					0.329				0.168				
Be-D	mg/L			<0.00010					<0.00010				<0.00010				
Cd-D	mg/L			<0.000010					<0.000010				<0.000010				
Ca-D	mg/L			191					155				66.7				
Cr-D	mg/L			<0.0010					<0.0010				<0.0010				
Co-D	mg/L			<0.00020					<0.00020				<0.00020				
Cu-D	mg/L	0.02		<0.00020					<0.00020				0.00080				
Hard-D	mg/L			575					461				201				
Fe-D	mg/L	0.5		0.0605					0.0613				0.140				
Pb-D	mg/L	0.05		<0.00020					<0.00020				<0.00020				
Mg-D	mg/L			23.9					18.0				8.41				
Mn-D	mg/L			0.0141					0.0426				0.0340				
Mo-D	mg/L			<0.0010					<0.0010				<0.0010				
Ni-D	mg/L			<0.0010					<0.0010				<0.0010				
K-D	mg/L			2.31					1.84				0.803				
S-D	mg/L			225					161				61.9				
Se-D	mg/L			<0.00010					<0.00010				<0.00010				
Si-D	mg/L			3.11					3.14				3.36				
Na-D	mg/L			64.6					55.9				18.8				
Sr-D	mg/L			1.42					1.05				0.428				
Zn-D	mg/L	0.2		<0.0050					<0.0050				<0.0050				
O&G	mg/L	10		<1.0									<1.0				

Appendix 1 - Tables

Table 11 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID		E218582													
Site Description															
Site Name	SPD	Std Val													
Date		Max	Min	2024-01-02	2024-01-08	2024-01-15	2024-01-22	2024-01-29	2024-02-05	2024-02-12	2024-02-20	2024-02-26	2024-03-04	2024-03-11	2024-03-18
Wlevel	m			0.09	0.06	0.07	0.05	0.11	0.06	0.03	0.026	0.06	0.03	0.08	0.03
pH-F	pH Units	8.5	6	7.27	7.31	7.98	7.2	7.62	7.62	7.03	7.07	7.63	6.83	7.72	7.55
Cond-F	uS/cm			667.1	886	949	679	413	885	771	474	671	520	532	700
SO4-D	mg/L			260	350	320	150	190	270	320	300	260	230	190	270
TSS	mg/L	25		1.6	<1.0	<1.0	<1.0	<1.0	1.2	1.6	1.2	<1.0	<1.0	<1.0	2.0
Alk-T	mg/L			75					87				89		
Acidity83	mg/L			13.8					1.2				1.5		
Al-T	mg/L			0.0472									0.0285		
As-T	mg/L			0.00141									0.00141		
Ba-T	mg/L			0.0087									0.0044		
B-T	mg/L			0.154									0.140		
Cd-T	mg/L			<0.000010									<0.000010		
Ca-T	mg/L			88.7									60.4		
Cr-T	mg/L			<0.0010									<0.0010		
Co-T	mg/L			<0.00020									<0.00020		
Cu-T	mg/L			<0.00050									<0.00050		
Hard-T	mg/L			265									180		
Fe-T	mg/L			0.174									0.146		
Pb-T	mg/L			<0.00020									<0.00020		
Mg-T	mg/L			10.6									7.01		
Mn-T	mg/L			0.0361									0.0365		
Mo-T	mg/L			<0.0010									<0.0010		
Ni-T	mg/L			<0.0010									<0.0010		
K-T	mg/L			0.854									0.597		
S-T	mg/L			83.2									51.5		
Se-T	mg/L			<0.00010									<0.00010		
Si-T	mg/L			3.44									3.09		
Ag-T	mg/L			<0.000020									<0.000020		
Na-T	mg/L			19.5									18.2		
Sr-T	mg/L			0.549									0.364		
Zn-T	mg/L			<0.0050									<0.0050		
Al-D	mg/L	0.5		0.0351					0.0337				0.0227		
As-D	mg/L			0.00165					0.00185				0.00097		
Ba-D	mg/L			0.0099					0.0082				0.0041		
B-D	mg/L			0.159					0.180				0.116		
Be-D	mg/L			<0.00010					<0.00010				<0.00010		
Cd-D	mg/L			<0.000010					<0.000010				<0.000010		
Ca-D	mg/L			114					103				50.3		
Cr-D	mg/L			<0.0010					<0.0010				<0.0010		
Co-D	mg/L			<0.00020					<0.00020				<0.00020		
Cu-D	mg/L	0.02		0.00039					0.00038				0.00024		
Hard-D	mg/L			339					305				149		
Fe-D	mg/L	0.5		0.120					0.0649				0.0995		
Pb-D	mg/L	0.05		<0.00020					<0.00020				<0.00020		
Mg-D	mg/L			13.4					11.9				5.67		
Mn-D	mg/L			0.0412					0.0352				0.0353		
Mo-D	mg/L			<0.0010					<0.0010				<0.0010		
Ni-D	mg/L			<0.0010					<0.0010				<0.0010		
K-D	mg/L			1.06					0.960				0.441		
S-D	mg/L			103					95.6				41.6		
Se-D	mg/L			0.00011					<0.00010				<0.00010		
Si-D	mg/L			3.68					3.25				3.46		
Na-D	mg/L			24.0					23.3				14.1		
Sr-D	mg/L			0.694					0.684				0.327		
Zn-D	mg/L	0.2		<0.0050					<0.0050				<0.0050		
O&G	mg/L	10							<1.0						

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

Site Description		Passive Treatment System (PTS) Influent from 2-S Mine Pool									
Site Name	INF										
Date		2023-04-03	2023-04-11	2023-04-13	2023-04-17	2023-05-01	2023-05-15	2023-05-18	2023-05-29	2023-06-12	2023-06-28
Flow	m3/s	0.0083	0.0083	0.0085	0.0085	0.0083	0.0083	0.0086	0.0085	0.0082	0.0084
pH-F	pH Units	7.37	7.27		7.41	7.38	7.34		7.39	7.33	
Cond-F	uS/cm	1621	1652		1654	1540	1611		1606	1693	
H2S	mg/L	<0.0020	0.0023		0.0079	<0.0020	0.0059		0.0048	<0.0020	
SO4-D	mg/L	590	640		730	670	680		620	660	
TSS	mg/L	6.0				6.0					
Alk-T	mg/L	240				250					
Acidity83	mg/L	5.4				11.1					
Al-T	mg/L	0.0032				<0.0030					
As-T	mg/L	0.00370				0.00350					
Ba-T	mg/L	0.0208				0.0179					
B-T	mg/L	0.564				0.609					
Cd-T	mg/L	<0.000010				<0.000010					
Ca-T	mg/L	230				210					
Cr-T	mg/L	<0.0010				<0.0010					
Co-T	mg/L	0.00081				0.00066					
Cu-T	mg/L	<0.00050				<0.00050					
Hard-T	mg/L	640				586					
Fe-T	mg/L	2.51				2.27					
Pb-T	mg/L	<0.00020				<0.00020					
Mg-T	mg/L	15.9				15.3					
Mn-T	mg/L	0.340				0.300					
Mo-T	mg/L	<0.0010				<0.0010					
Ni-T	mg/L	0.0015				0.0012					
K-T	mg/L	1.82				1.74					
S-T	mg/L	215				197					
Se-T	mg/L	<0.00010				<0.00010					
Si-T	mg/L	2.71				2.81					
Ag-T	mg/L	<0.000020				<0.000020					
Na-T	mg/L	99.0				95.8					
Sr-T	mg/L	2.13				1.87					
Zn-T	mg/L	<0.0050				<0.0050					
Al-D	mg/L	<0.0060				<0.0060					
As-D	mg/L	0.00355				0.00399					
Ba-D	mg/L	0.0221				0.0213					
B-D	mg/L	0.71				0.69					
Be-D	mg/L	<0.00020				<0.00020					
Cd-D	mg/L	<0.000020				<0.000020					
Ca-D	mg/L	240				247					
Cr-D	mg/L	<0.0020				<0.0020					
Co-D	mg/L	0.00085				0.00073					
Cu-D	mg/L	<0.00040				<0.00040					
Hard-D	mg/L	670				688					
Fe-D	mg/L	2.62				2.61					
Pb-D	mg/L	<0.00040				<0.00040					
Mg-D	mg/L	17.2				17.3					
Mn-D	mg/L	0.355				0.347					
Mo-D	mg/L	<0.0020				<0.0020					
Ni-D	mg/L	<0.0020				<0.0020					
K-D	mg/L	1.87				2.00					
S-D	mg/L	242				219					
Se-D	mg/L	0.00037				<0.00020					
Si-D	mg/L	3.16				3.29					
Na-D	mg/L	106				109					
Sr-D	mg/L	2.27				2.23					
Zn-D	mg/L	<0.010				<0.010					

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

Site Description														
Site Name		INF												
Date		2023-07-04	2023-07-10	2023-07-17	2023-08-02	2023-08-08	2023-08-14	2023-08-21	2023-09-05	2023-09-11	2023-09-11	2023-09-12	2023-09-18	2023-09-26
Flow	m3/s	0.0084	0.0082	0.00644	0.0064	0.0064	0.0063	0.0065	0.0065		0.0062	0.0064	0.0064	0.0063
pH-F	pH Units	7.25	7.35	7.12	7.07	6.9	6.43	7.02	6.85		6.86		6.85	6.67
Cond-F	uS/cm	1674	1578	1529	1668	172	1575	1667	1792		1460		1490	1517
H2S	mg/L	0.0023	<0.0020	<0.0020	0.0028	0.0038	<0.0020	0.0041	0.0027	0.0066	0.0032		<0.0020	0.0022
SO4-D	mg/L	650	600	620	600	640	580	580	540	550	570		570	570
TSS	mg/L		7.6		5.2									
Alk-T	mg/L		250		260				300					
Acidity83	mg/L		15.4		2.0				7.5					
Al-T	mg/L		<0.0030		<0.0030				<0.0030					
As-T	mg/L		0.00387		0.00408				0.00468					
Ba-T	mg/L		0.0183		0.0181				0.0188					
B-T	mg/L		0.577		0.561				0.597					
Cd-T	mg/L		<0.000010		<0.000010				<0.000010					
Ca-T	mg/L		213		212				213					
Cr-T	mg/L		<0.0010		<0.0010				<0.0010					
Co-T	mg/L		0.00055		0.00048				0.00049					
Cu-T	mg/L		<0.00050		<0.00050				<0.00050					
Hard-T	mg/L		594		589				595					
Fe-T	mg/L		2.50		2.53				2.80					
Pb-T	mg/L		<0.00020		<0.00020				<0.00020					
Mg-T	mg/L		14.9		14.2				15.0					
Mn-T	mg/L		0.309		0.323				0.344					
Mo-T	mg/L		<0.0010		<0.0010				<0.0010					
Ni-T	mg/L		0.0011		<0.0010				<0.0010					
K-T	mg/L		1.83		1.72				1.88					
S-T	mg/L		198		176				207					
Se-T	mg/L		<0.00010		<0.00010				<0.00010					
Si-T	mg/L		2.93		2.78				3.03					
Ag-T	mg/L		<0.000020		<0.000020				<0.000020					
Na-T	mg/L		89.5		87.8				102					
Sr-T	mg/L		2.07		2.03				2.07					
Zn-T	mg/L		<0.0050		<0.0050				<0.0050					
Al-D	mg/L		<0.0030		<0.0030				<0.0030					
As-D	mg/L		0.00418		0.00438				0.00488					
Ba-D	mg/L		0.0205		0.0196				0.0207					
B-D	mg/L		0.645		0.639				0.720					
Be-D	mg/L		<0.00010		<0.00010				<0.00010					
Cd-D	mg/L		<0.000010		0.000019				<0.000010					
Ca-D	mg/L		238		239				218					
Cr-D	mg/L		<0.0010		<0.0010				<0.0010					
Co-D	mg/L		0.00060		0.00059				0.00056					
Cu-D	mg/L		<0.00020		<0.00020				<0.00020					
Hard-D	mg/L		669		666				612					
Fe-D	mg/L		2.77		2.78				2.90					
Pb-D	mg/L		<0.00020		<0.00020				<0.00020					
Mg-D	mg/L		17.9		17.0				16.2					
Mn-D	mg/L		0.347		0.343				0.382					
Mo-D	mg/L		<0.0010		<0.0010				<0.0010					
Ni-D	mg/L		<0.0010		<0.0010				<0.0010					
K-D	mg/L		2.03		1.90				1.94					
S-D	mg/L		226		230				210					
Se-D	mg/L		0.00020		<0.00010				<0.00010					
Si-D	mg/L		3.32		3.15				3.28					
Na-D	mg/L		102		110				107					
Sr-D	mg/L		2.37		2.06				2.13					
Zn-D	mg/L		<0.0050		<0.0050				<0.0050					

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

Site Description																		
Site Name		INF																
Date		2023-10-03	2023-10-10	2023-10-11	2023-10-16	2023-10-25	2023-10-30	2023-11-01	2023-11-06	2023-11-06	2023-11-14	#####	2023-11-20	2023-11-20	2023-11-27	2023-12-05	2023-12-11	2023-12-18
Flow	m3/s	0.0063	0.0002	0.0062	0.0061	0.0038		0.0038	0.0037	0.0037	0.0064	0.0065	0.0036	0.0036	0.0063	0.0063	0.0065	
pH-F	pH Units	6.8	6.99		6.95		6.87		7	7	6.71		6.9	6.9	6.94	6.94	6.9	6.84
Cond-F	uS/cm	1477	1493		1494		1465		1623	1623	1439		1402	1402			1571.4	1502.2
H2S	mg/L	0.0032	0.0056		0.0027		0.012		0.0037	0.0032	<0.0020			<0.0020	<0.0020		<0.0020	0.0022
SO4-D	mg/L	560	560		570		550		560	560	590		610	600	640	680	650	670
TSS	mg/L								7.2	6.4						7.6		
Alk-T	mg/L	260							260	260						240		
Acidity83	mg/L	12.0							35.2	19.6						8.7		
Al-T	mg/L	<0.0030							<0.0030	0.0449						<0.0060		
As-T	mg/L	0.00429							0.00389	0.00380						0.00488		
Ba-T	mg/L	0.0177							0.0174	0.0171						0.0210		
B-T	mg/L	0.711							0.723	0.714						0.81		
Cd-T	mg/L	<0.000010							<0.000010	<0.000010						<0.000020		
Ca-T	mg/L	210							209	203						280		
Cr-T	mg/L	<0.0010							<0.0010	<0.0010						<0.0020		
Co-T	mg/L	0.00036							0.00040	0.00041						0.00051		
Cu-T	mg/L	<0.00050							<0.00050	<0.00050						<0.0010		
Hard-T	mg/L	588							581	568						786		
Fe-T	mg/L	2.93							2.86	2.82						3.80		
Pb-T	mg/L	<0.00020							<0.00020	<0.00020						<0.00040		
Mg-T	mg/L	15.5							14.7	14.6						21.2		
Mn-T	mg/L	0.311							0.333	0.329						0.419		
Mo-T	mg/L	<0.0010							<0.0010	<0.0010						<0.0020		
Ni-T	mg/L	<0.0010							<0.0010	<0.0010						<0.0020		
K-T	mg/L	1.88							1.86	1.82						2.14		
S-T	mg/L	210							195	195						242		
Se-T	mg/L	<0.00010							<0.00010	<0.00010						<0.00020		
Si-T	mg/L	3.06							3.01	2.96						3.37		
Ag-T	mg/L	<0.000020							<0.000020	<0.000020						<0.000040		
Na-T	mg/L	102							101	100						111		
Sr-T	mg/L	2.01							1.94	1.91						2.32		
Zn-T	mg/L	<0.0050							<0.0050	<0.0050						<0.010		
Al-D	mg/L	<0.0030							<0.0060	<0.0060						<0.0060		
As-D	mg/L	0.00437							0.00400	0.00402						0.00492		
Ba-D	mg/L	0.0184							0.0184	0.0183						0.0213		
B-D	mg/L	0.731							0.69	0.70						0.79		
Be-D	mg/L	<0.00010							<0.00020	<0.00020						<0.00020		
Cd-D	mg/L	<0.000010							<0.000020	<0.000020						<0.000020		
Ca-D	mg/L	220							219	225						263		
Cr-D	mg/L	<0.0010							<0.0020	<0.0020						<0.0020		
Co-D	mg/L	0.00039							0.00046	0.00048						0.00049		
Cu-D	mg/L	<0.00020							<0.00040	<0.00040						<0.00040		
Hard-D	mg/L	616							611	627						740		
Fe-D	mg/L	3.08							3.04	3.12						3.64		
Pb-D	mg/L	<0.00020							<0.00040	<0.00040						<0.00040		
Mg-D	mg/L	16.1							15.8	15.9						19.9		
Mn-D	mg/L	0.328							0.344	0.345						0.445		
Mo-D	mg/L	<0.0010							<0.0020	<0.0020						<0.0020		
Ni-D	mg/L	<0.0010							<0.0020	<0.0020						<0.0020		
K-D	mg/L	1.96							1.92	1.95						2.20		
S-D	mg/L	222							202	205						250		
Se-D	mg/L	<0.00010							<0.00020	<0.00020						0.00021		
Si-D	mg/L	3.19							3.25	3.31						3.39		
Na-D	mg/L	108							106	107						106		
Sr-D	mg/L	2.12							1.99	1.96						2.45		
Zn-D	mg/L	<0.0050							<0.010	<0.010						<0.010		

Table 12 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

Site Description													
Site Name		INF											
Date		2023-12-18	2023-12-27	2024-01-02	2024-01-22	2024-02-06	2024-02-12	2024-02-20	2024-02-26	2024-02-26	2024-03-04	2024-03-18	2024-03-25
Flow	m3/s	0.0064	0.0067	0.0066	0.0082	0.008	0.008	0.0078	0.0078	0.0078	0.0078	0.0075	0.0075
pH-F	pH Units	6.84	6.7	6.43	7.06	7.17	6.58	7.17	6.55	6.55	6.81	7.01	7.01
Cond-F	uS/cm	1502.2	1445.6	1451.7	1756	1521	1488	1423	1438	1438	1361	1453	1546
H2S	mg/L	0.026	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.010	<0.010	<0.0020	<0.0020	<0.0020
SO4-D	mg/L	670	650	670	630	610	500	600	610	600	620	610	590
TSS	mg/L			9.6		6.4					5.6		
Alk-T	mg/L			220		230					230		
Acidity83	mg/L			11.0		9.4					10.9		
Al-T	mg/L			0.136		0.0065					0.0094		
As-T	mg/L			0.00399		0.00237					0.00200		
Ba-T	mg/L			0.0189		0.0189					0.0181		
B-T	mg/L			0.792		0.638					0.781		
Cd-T	mg/L			<0.000010		<0.000010					<0.000010		
Ca-T	mg/L			219		211					222		
Cr-T	mg/L			<0.0010		<0.0010					<0.0010		
Co-T	mg/L			0.00215		0.00064					0.00085		
Cu-T	mg/L			0.00337		0.00050					<0.00050		
Hard-T	mg/L			610		583					619		
Fe-T	mg/L			4.33		2.36					2.27		
Pb-T	mg/L			<0.00020		<0.00020					<0.00020		
Mg-T	mg/L			15.3		13.5					15.5		
Mn-T	mg/L			0.363		0.291					0.287		
Mo-T	mg/L			<0.0010		<0.0010					<0.0010		
Ni-T	mg/L			0.0040		0.0013					0.0014		
K-T	mg/L			1.80		1.66					1.66		
S-T	mg/L			223		198					200		
Se-T	mg/L			<0.00010		<0.00010					<0.00010		
Si-T	mg/L			3.89		3.02					3.10		
Ag-T	mg/L			<0.000020		<0.000020					<0.000020		
Na-T	mg/L			110		104					99.1		
Sr-T	mg/L			2.12		1.96					1.81		
Zn-T	mg/L			<0.0050		0.0055					0.0064		
Al-D	mg/L			0.0336		0.0032					0.0032		
As-D	mg/L			0.00336		0.00235					0.00218		
Ba-D	mg/L			0.0193		0.0201					0.0208		
B-D	mg/L			0.814		0.738					0.625		
Be-D	mg/L			<0.00010		<0.00010					<0.00010		
Cd-D	mg/L			<0.000010		<0.000010					<0.000010		
Ca-D	mg/L			223		209					210		
Cr-D	mg/L			<0.0010		<0.0010					<0.0010		
Co-D	mg/L			0.00215		0.00068					0.00086		
Cu-D	mg/L			0.00030		<0.00020					<0.00020		
Hard-D	mg/L			620		581					583		
Fe-D	mg/L			4.17		2.33					2.30		
Pb-D	mg/L			<0.00020		<0.00020					<0.00020		
Mg-D	mg/L			15.1		14.1					13.9		
Mn-D	mg/L			0.365		0.297					0.322		
Mo-D	mg/L			<0.0010		<0.0010					<0.0010		
Ni-D	mg/L			0.0040		0.0013					0.0015		
K-D	mg/L			1.78		1.73					1.86		
S-D	mg/L			229		213					197		
Se-D	mg/L			0.00011		<0.00010					0.00026		
Si-D	mg/L			3.96		3.16					3.51		
Na-D	mg/L			108		105					92.4		
Sr-D	mg/L			2.13		2.12					2.09		
Zn-D	mg/L			0.0052		<0.0050					<0.0050		

Table 13 PTS Biochemical Reactor Cell 4 Page(s)

Site Description														
PassiveTreatment System Biochemical Reactor Cell														
Site Name	BCR													
Date		2023-04-03	2023-04-11	2023-04-17	2023-05-01	2023-05-09	2023-05-15	2023-05-23	2023-05-29	2023-06-05	2023-06-12	2023-06-19	2023-06-19	2023-06-26
pH-F	pH Units	7.16	7.34	7.57	7.43	7.29	7.37	7.42	7.36	7.36	7.26	7.33	7.33	7.34
Cond-F	uS/cm	1568	1592	1585	1486	1491	1496	1514	1533	1525	1571	1580	1580	1678
H2S	mg/L	10	12	15	24	20	22	53	21	41	5.0	27	27	26
SO4-D	mg/L	570	590	650	590	550	540	520	510	490	540	590	580	440
TSS	mg/L	<1.0			<1.0					<1.0				
Alk-T	mg/L	240			290					330				
Acidity83	mg/L	5.0			10.8					10.1				
Al-T	mg/L	0.0045			<0.0060					0.0062				
As-T	mg/L	<0.00010			<0.00020					<0.00010				
Ba-T	mg/L	0.0273			0.0265					0.0266				
B-T	mg/L	0.567			0.68					0.732				
Cd-T	mg/L	<0.000010			<0.000020					<0.000010				
Ca-T	mg/L	224			227					199				
Cr-T	mg/L	<0.0010			<0.0020					<0.0010				
Co-T	mg/L	<0.00020			<0.00040					<0.00020				
Cu-T	mg/L	<0.00050			<0.0010					<0.00050				
Hard-T	mg/L	620			634					552				
Fe-T	mg/L	<0.010			<0.020					<0.010				
Pb-T	mg/L	<0.00020			<0.00040					<0.00020				
Mg-T	mg/L	14.8			16.4					13.1				
Mn-T	mg/L	0.318			0.276					0.230				
Mo-T	mg/L	<0.0010			<0.0020					<0.0010				
Ni-T	mg/L	<0.0010			<0.0020					<0.0010				
K-T	mg/L	1.80			1.94					1.93				
S-T	mg/L	205			186					162				
Se-T	mg/L	<0.00010			<0.00020					<0.00010				
Si-T	mg/L	2.77			3.67					3.78				
Ag-T	mg/L	<0.000020			<0.000040					<0.000020				
Na-T	mg/L	99.6			105					92.9				
Sr-T	mg/L	2.06			2.07					2.08				
Zn-T	mg/L	<0.0050			<0.010					<0.0050				
Al-D	mg/L	0.0119			<0.0060					0.0070				
As-D	mg/L	<0.00020			<0.00020					<0.00020				
Ba-D	mg/L	0.0289			0.0263					0.0293				
B-D	mg/L	0.69			0.67					0.91				
Be-D	mg/L	<0.00020			<0.00020					<0.00020				
Cd-D	mg/L	<0.000020			<0.000020					<0.000020				
Ca-D	mg/L	230			223					224				
Cr-D	mg/L	<0.0020			<0.0020					<0.0020				
Co-D	mg/L	<0.00040			<0.00040					<0.00040				
Cu-D	mg/L	<0.00040			<0.00040					<0.00040				
Hard-D	mg/L	639			621					623				
Fe-D	mg/L	<0.010			<0.010					<0.010				
Pb-D	mg/L	<0.00040			<0.00040					<0.00040				
Mg-D	mg/L	16.0			15.5					15.3				
Mn-D	mg/L	0.317			0.262					0.233				
Mo-D	mg/L	<0.0020			<0.0020					<0.0020				
Ni-D	mg/L	<0.0020			<0.0020					<0.0020				
K-D	mg/L	1.85			1.94					2.15				
S-D	mg/L	245			181					338				
Se-D	mg/L	0.0100			0.00178					0.0115				
Si-D	mg/L	3.18			3.54					4.19				
Na-D	mg/L	105			101					101				
Sr-D	mg/L	2.19			2.07					2.22				
Zn-D	mg/L	<0.010			<0.010					<0.010				

Table 13 PTS Biochemical Reactor Cell 4 Page(s)

Site Description														
Site Name		BCR												
Date		2023-07-04	2023-07-10	2023-07-17	2023-07-24	2023-08-02	2023-08-08	2023-08-14	2023-08-21	2023-08-28	2023-09-05	2023-09-11	2023-09-18	2023-09-26
pH-F	pH Units	7.3	7.34	7.15	7.11	6.91	6.86	6.43	6.92	6.83	6.8	6.83	6.83	6.82
Cond-F	uS/cm	1604	1513	1499	1531	1601	1636	1539	1598	1638	1722	1425	1448	1454
H2S	mg/L	38	31	31	28	22	32	42	40	24	23	19	21	20
SO4-D	mg/L	530	510	520	540	490	540	520	460	540	520	500	550	510
TSS	mg/L		1.2			<1.0								
Alk-T	mg/L		330			310					300			
Acidity83	mg/L		13.3			26.4					4.3			
Al-T	mg/L		0.0059			0.0080					0.0104			
As-T	mg/L		0.00016			0.00011					0.00013			
Ba-T	mg/L		0.0271			0.0265					0.0268			
B-T	mg/L		0.632			0.612					0.628			
Cd-T	mg/L		<0.000010			<0.000010					<0.000010			
Ca-T	mg/L		204			206					213			
Cr-T	mg/L		<0.0010			<0.0010					<0.0010			
Co-T	mg/L		<0.00020			<0.00020					<0.00020			
Cu-T	mg/L		<0.00050			<0.00050					<0.00050			
Hard-T	mg/L		571			577					598			
Fe-T	mg/L		<0.010			<0.010					<0.010			
Pb-T	mg/L		<0.00020			<0.00020					<0.00020			
Mg-T	mg/L		14.9			15.0					15.9			
Mn-T	mg/L		0.201			0.189					0.158			
Mo-T	mg/L		<0.0010			<0.0010					<0.0010			
Ni-T	mg/L		<0.0010			<0.0010					<0.0010			
K-T	mg/L		1.92			1.84					1.92			
S-T	mg/L		170			164					184			
Se-T	mg/L		<0.00010			<0.00010					<0.00010			
Si-T	mg/L		3.59			3.21					3.65			
Ag-T	mg/L		<0.000020			<0.000020					<0.000020			
Na-T	mg/L		92.7			91.2					102			
Sr-T	mg/L		2.15			2.09					2.11			
Zn-T	mg/L		<0.0050			<0.0050					<0.0050			
Al-D	mg/L		0.0063			0.0072					0.0072			
As-D	mg/L		<0.00020			0.00011					<0.00020			
Ba-D	mg/L		0.0322			0.0289					0.0289			
B-D	mg/L		0.81			0.667					0.67			
Be-D	mg/L		<0.00020			<0.00010					<0.00020			
Cd-D	mg/L		<0.000020			<0.000010					<0.000020			
Ca-D	mg/L		244			232					226			
Cr-D	mg/L		<0.0020			<0.0010					<0.0020			
Co-D	mg/L		<0.00040			<0.00020					<0.00040			
Cu-D	mg/L		<0.00040			<0.00020					<0.00040			
Hard-D	mg/L		685			649					637			
Fe-D	mg/L		<0.010			0.0062					<0.010			
Pb-D	mg/L		<0.00040			<0.00020					<0.00040			
Mg-D	mg/L		18.5			17.1					17.3			
Mn-D	mg/L		0.229			0.201					0.182			
Mo-D	mg/L		<0.0020			<0.0010					<0.0020			
Ni-D	mg/L		<0.0020			<0.0010					<0.0020			
K-D	mg/L		2.13			2.05					2.03			
S-D	mg/L		526			226					192			
Se-D	mg/L		0.0116			0.00575					0.00193			
Si-D	mg/L		4.39			3.85					4.06			
Na-D	mg/L		111			112					111			
Sr-D	mg/L		2.46			2.13					2.17			
Zn-D	mg/L		<0.010			<0.0050					<0.010			

Table 13 PTS Biochemical Reactor Cell 4 Page(s)

Site Description															
Site Name		BCR													
Date		2023-10-03	2023-10-10	2023-10-16	2023-10-23	2023-10-30	2023-11-06	2023-11-14	2023-11-20	2023-11-27	2023-11-27	2023-12-05	2023-12-11	2023-12-18	2023-12-27
pH-F	pH Units	6.84	6.92	6.94	6.95	6.83	7.49	6.91	6.87	6.94	6.94	6.93	6.82	6.995	6.88
Cond-F	uS/cm	1410	1426	1451	1389	1383	1500	1334.9	1287.5	1348.4	1348.4	1441.5	1482.3	1439.3	1439.3
H2S	mg/L	12	25	23	16	15	30	20	22	17	16	20	16	14	4.8
SO4-D	mg/L	490	480	480	510	500	470	480	460	500	490	500	550	580	590
TSS	mg/L						1.2					<1.0			
Alk-T	mg/L	290					260					280			
Acidity83	mg/L	17.2					27.2					7.7			
Al-T	mg/L	0.0058					0.0103					0.0130			
As-T	mg/L	<0.00010					<0.00010					0.00017			
Ba-T	mg/L	0.0236					0.0203					0.0219			
B-T	mg/L	0.605					0.568					0.621			
Cd-T	mg/L	<0.000010					<0.000010					<0.000010			
Ca-T	mg/L	200					187					235			
Cr-T	mg/L	<0.0010					<0.0010					<0.0010			
Co-T	mg/L	<0.00020					<0.00020					<0.00020			
Cu-T	mg/L	<0.00050					<0.00050					<0.00050			
Hard-T	mg/L	563					525					658			
Fe-T	mg/L	<0.010					0.012					0.020			
Pb-T	mg/L	<0.00020					<0.00020					<0.00020			
Mg-T	mg/L	15.8					13.9					17.2			
Mn-T	mg/L	0.128					0.120					0.140			
Mo-T	mg/L	<0.0010					<0.0010					<0.0010			
Ni-T	mg/L	<0.0010					<0.0010					<0.0010			
K-T	mg/L	1.84					1.61					1.82			
S-T	mg/L	179					170					188			
Se-T	mg/L	<0.00010					<0.00010					<0.00010			
Si-T	mg/L	3.33					3.01					3.59			
Ag-T	mg/L	<0.000020					<0.000020					<0.000020			
Na-T	mg/L	99.6					96.0					105			
Sr-T	mg/L	1.98					1.75					1.96			
Zn-T	mg/L	<0.0050					0.0204					<0.0050			
Al-D	mg/L	0.0071					0.0122					0.0039			
As-D	mg/L	0.00013					<0.00010					0.00011			
Ba-D	mg/L	0.0233					0.0216					0.0224			
B-D	mg/L	0.612					0.557					0.622			
Be-D	mg/L	<0.00010					<0.00010					<0.00010			
Cd-D	mg/L	<0.000010					<0.000010					<0.000010			
Ca-D	mg/L	205					204					221			
Cr-D	mg/L	<0.0010					<0.0010					<0.0010			
Co-D	mg/L	<0.00020					<0.00020					<0.00020			
Cu-D	mg/L	<0.00020					<0.00020					<0.00020			
Hard-D	mg/L	576					573					618			
Fe-D	mg/L	<0.0050					0.0141					<0.0050			
Pb-D	mg/L	<0.00020					<0.00020					<0.00020			
Mg-D	mg/L	15.7					15.4					16.2			
Mn-D	mg/L	0.133					0.133					0.143			
Mo-D	mg/L	<0.0010					<0.0010					<0.0010			
Ni-D	mg/L	<0.0010					<0.0010					<0.0010			
K-D	mg/L	1.78					1.70					1.76			
S-D	mg/L	258					188					392			
Se-D	mg/L	0.00091					0.00688					0.00586			
Si-D	mg/L	3.24					3.37					3.48			
Na-D	mg/L	105					103					100			
Sr-D	mg/L	1.95					1.80					2.05			
Zn-D	mg/L	<0.0050					<0.0050					<0.0050			

Table 13 PTS Biochemical Reactor Cell 4 Page(s)

Site Description													
Site Name		BCR											
Date		2024-01-02	2024-01-08	2024-01-15	2024-01-22	2024-02-07	2024-02-13	2024-02-20	2024-02-26	2024-03-04	2024-03-11	2024-03-18	2024-03-25
pH-F	pH Units	7	7.27	7.44	7.07	7.15	6.7	7.14	6.6	6.81	7.16	6.94	7.02
Cond-F	uS/cm	698.3	1418	1439	1611	1488	1462	1405	1456	1372	1411	1423	1484
H2S	mg/L	17	26	21	15	13	14	18	14	21	24	14	16
SO4-D	mg/L	560	550	550	560	580	540	530	560	530	540	530	510
TSS	mg/L	2.8				<1.0				<1.0			
Alk-T	mg/L	280				270				280			
Acidity83	mg/L	1.4				11.0				13.1			
Al-T	mg/L	0.0468				0.0038				0.0035			
As-T	mg/L	0.00012				<0.00010				<0.00010			
Ba-T	mg/L	0.0242				0.0231				0.0219			
B-T	mg/L	0.634				0.583				0.785			
Cd-T	mg/L	0.000012				<0.000010				<0.000010			
Ca-T	mg/L	226				210				217			
Cr-T	mg/L	<0.0010				<0.0010				<0.0010			
Co-T	mg/L	<0.00020				<0.00020				<0.00020			
Cu-T	mg/L	<0.00050				<0.00050				<0.00050			
Hard-T	mg/L	635				585				603			
Fe-T	mg/L	0.022				<0.010				<0.010			
Pb-T	mg/L	<0.00020				<0.00020				<0.00020			
Mg-T	mg/L	17.1				14.5				15.0			
Mn-T	mg/L	0.153				0.171				0.174			
Mo-T	mg/L	<0.0010				<0.0010				<0.0010			
Ni-T	mg/L	<0.0010				<0.0010				<0.0010			
K-T	mg/L	1.81				1.61				1.70			
S-T	mg/L	205				184				183			
Se-T	mg/L	<0.00010				<0.00010				<0.00010			
Si-T	mg/L	3.80				3.24				3.46			
Ag-T	mg/L	<0.000020				<0.000020				<0.000020			
Na-T	mg/L	94.6				97.4				99.5			
Sr-T	mg/L	2.19				1.95				1.76			
Zn-T	mg/L	0.0563				<0.0050				<0.0050			
Al-D	mg/L	0.0129				0.0047				<0.0030			
As-D	mg/L	<0.00010				<0.00010				0.00010			
Ba-D	mg/L	0.0245				0.0244				0.0242			
B-D	mg/L	0.661				0.653				0.653			
Be-D	mg/L	<0.00010				<0.00010				<0.00010			
Cd-D	mg/L	<0.000010				<0.000010				<0.000010			
Ca-D	mg/L	228				243				226			
Cr-D	mg/L	<0.0010				<0.0010				<0.0010			
Co-D	mg/L	<0.00020				<0.00020				<0.00020			
Cu-D	mg/L	<0.00020				<0.00020				<0.00020			
Hard-D	mg/L	640				678				624			
Fe-D	mg/L	<0.0050				<0.0050				<0.0050			
Pb-D	mg/L	<0.00020				<0.00020				<0.00020			
Mg-D	mg/L	17.3				17.1				14.2			
Mn-D	mg/L	0.155				0.181				0.202			
Mo-D	mg/L	<0.0010				<0.0010				<0.0010			
Ni-D	mg/L	<0.0010				<0.0010				<0.0010			
K-D	mg/L	1.83				1.80				1.71			
S-D	mg/L	258				206				272			
Se-D	mg/L	0.00424				0.00104				0.00876			
Si-D	mg/L	3.73				3.56				3.87			
Na-D	mg/L	94.7				109				93.3			
Sr-D	mg/L	2.18				2.14				2.02			
Zn-D	mg/L	<0.0050				<0.0050				<0.0050			

Table 15 2 South Pit Inflow 4 Page(s)

Site Description		2 South Pit Inflow													
Site Name		2SI													
Date		2023-04-03	2023-04-11	2023-04-17	2023-04-24	2023-04-24	2023-05-01	2023-05-09	2023-05-15	2023-05-23	2023-05-29	2023-06-05	2023-06-12	2023-06-19	2023-06-26
pH-F	pH Units	7.78	7.9	8	7.96	7.96	7.86	7.72	7.79	8	8.05	8.03	7.99	8.05	8.03
Cond-F	uS/cm	1489	1370	1330	1286	1286	1085	1225	1141	1427	1480	1596	1575	1426	1601
H2S	mg/L	0.022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.020	0.020	0.015	0.032	0.051	0.055
SO4-D	mg/L	490	470	540	470	460		430	400	540	580	590	590	650	530
TSS	mg/L	<1.0										<1.0			
Alk-T	mg/L	190					150					250			
Acidity83	mg/L	2.3					7.7					5.6			
Al-T	mg/L	0.0042					0.0056					<0.0030			
As-T	mg/L	0.00026					0.00022					0.00051			
Ba-T	mg/L	0.0208					0.0159					0.0229			
B-T	mg/L	0.453					0.388					0.620			
Cd-T	mg/L	<0.000010					<0.000010					<0.000010			
Ca-T	mg/L	184					146					203			
Cr-T	mg/L	<0.0010					<0.0010					<0.0010			
Co-T	mg/L	<0.00020					<0.00020					0.00021			
Cu-T	mg/L	<0.00050					<0.00050					<0.00050			
Hard-T	mg/L	516					414					568			
Fe-T	mg/L	0.107					0.142					0.157			
Pb-T	mg/L	<0.00020					<0.00020					<0.00020			
Mg-T	mg/L	13.5					12.1					14.5			
Mn-T	mg/L	0.0883					0.0791					0.179			
Mo-T	mg/L	<0.0010					<0.0010					<0.0010			
Ni-T	mg/L	<0.0010					<0.0010					0.0015			
K-T	mg/L	1.39					1.21					1.69			
S-T	mg/L	173					131					200			
Se-T	mg/L	<0.00010					<0.00010					<0.00010			
Si-T	mg/L	2.84					3.08					3.31			
Ag-T	mg/L	<0.000020					<0.000020					<0.000020			
Na-T	mg/L	79.4					58.3					92.8			
Sr-T	mg/L	1.62					1.20					2.06			
Zn-T	mg/L	<0.0050					<0.0050					<0.0050			
Al-D	mg/L	<0.0030					<0.0030					<0.0030			
As-D	mg/L	0.00021					0.00021					0.00047			
Ba-D	mg/L	0.0219					0.0176					0.0255			
B-D	mg/L	0.510					0.389					0.748			
Be-D	mg/L	<0.00010					<0.00010					<0.00010			
Cd-D	mg/L	<0.000010					<0.000010					<0.000010			
Ca-D	mg/L	192					154					229			
Cr-D	mg/L	<0.0010					<0.0010					<0.0010			
Co-D	mg/L	<0.00020					<0.00020					0.00023			
Cu-D	mg/L	<0.00020					0.00025					<0.00020			
Hard-D	mg/L	538					436					641			
Fe-D	mg/L	0.0736					0.127					0.0430			
Pb-D	mg/L	<0.00020					<0.00020					<0.00020			
Mg-D	mg/L	14.4					12.4					16.8			
Mn-D	mg/L	0.0930					0.0861					0.210			
Mo-D	mg/L	<0.0010					<0.0010					<0.0010			
Ni-D	mg/L	<0.0010					<0.0010					<0.0010			
K-D	mg/L	1.44					1.26					1.90			
S-D	mg/L	188					138					211			
Se-D	mg/L	<0.00010					<0.00010					0.00011			
Si-D	mg/L	3.31					3.38					3.48			
Na-D	mg/L	82.0					59.1					101			
Sr-D	mg/L	1.76					1.33					2.27			
Zn-D	mg/L	<0.0050					<0.0050					<0.0050			

Appendix 1 - Tables

Table 15 2 South Pit Inflow 4 Page(s)

Site Description																	
Site Name		2S1															
Date		2023-07-04	2023-07-04	2023-07-10	2023-07-17	2023-07-24	2023-08-02	2023-08-08	2023-08-14	2023-08-21	2023-08-28	2023-09-05	2023-09-05	2023-09-11	2023-09-18	2023-09-18	2023-09-26
pH-F	pH Units	7.96	7.96	8	7.84	8.04	7.66	7.65	7.21	7.8	7.56	7.6	7.6	7.63	7.6	7.6	7.48
Cond-F	uS/cm	1550	1550	1479	1488	1528	1604	1618	1499	1588	1642	1846	1846	1396	1447	1447	1414
H2S	mg/L	0.12	0.082	0.054		<0.0020		0.024	0.073	0.073	0.049		0.14	0.020	0.034	0.042	0.014
SO4-D	mg/L	580	580	570	560	620	570	570	490	500	540	560	390	510	530	520	510
TSS	mg/L			37			<1.0										
Alk-T	mg/L			280			250					260	350				
Acidity83	mg/L			2.4			1.1					<1.0	9.8				
Al-T	mg/L			<0.0030			<0.0030					<0.0030	0.0041				
As-T	mg/L			0.00079			0.00038					0.00045	0.00056				
Ba-T	mg/L			0.0252			0.0244					0.0251	0.0262				
B-T	mg/L			0.605			0.588					0.561	0.583				
Cd-T	mg/L			<0.000010			<0.000010					<0.000010	<0.000010				
Ca-T	mg/L			212			220					200	205				
Cr-T	mg/L			<0.0010			<0.0010					<0.0010	<0.0010				
Co-T	mg/L			0.00021			<0.00020					0.00029	0.00032				
Cu-T	mg/L			<0.00050			<0.00050					<0.00050	<0.00050				
Hard-T	mg/L			593			613					559	574				
Fe-T	mg/L			0.335			0.238					0.044	0.297				
Pb-T	mg/L			<0.00020			<0.00020					<0.00020	<0.00020				
Mg-T	mg/L			15.4			15.5					14.5	15.1				
Mn-T	mg/L			0.308			0.168					0.219	0.228				
Mo-T	mg/L			<0.0010			<0.0010					<0.0010	<0.0010				
Ni-T	mg/L			<0.0010			<0.0010					<0.0010	<0.0010				
K-T	mg/L			1.84			1.65					1.67	1.72				
S-T	mg/L			190			188					181	191				
Se-T	mg/L			<0.00010			<0.00010					<0.00010	<0.00010				
Si-T	mg/L			3.70			3.82					3.55	3.58				
Ag-T	mg/L			<0.000020			<0.000020					<0.000020	<0.000020				
Na-T	mg/L			94.4			94.2					93.6	100				
Sr-T	mg/L			2.11			2.10					1.90	1.89				
Zn-T	mg/L			<0.0050			<0.0050					<0.0050	<0.0050				
Al-D	mg/L			<0.0030			<0.0030					<0.0030	<0.0030				
As-D	mg/L			0.00068			0.00034					0.00047	0.00046				
Ba-D	mg/L			0.0275			0.0250					0.0291	0.0290				
B-D	mg/L			0.690			0.656					0.654	0.640				
Be-D	mg/L			<0.00010			<0.00010					<0.00010	<0.00010				
Cd-D	mg/L			<0.000010			<0.000010					<0.000010	<0.000010				
Ca-D	mg/L			235			231					213	211				
Cr-D	mg/L			<0.0010			<0.0010					<0.0010	<0.0010				
Co-D	mg/L			0.00025			<0.00020					0.00034	0.00034				
Cu-D	mg/L			<0.00020			<0.00020					<0.00020	<0.00020				
Hard-D	mg/L			662			648					603	596				
Fe-D	mg/L			0.0409			0.0480					0.0928	0.0485				
Pb-D	mg/L			<0.00020			<0.00020					<0.00020	<0.00020				
Mg-D	mg/L			18.2			17.4					17.6	16.7				
Mn-D	mg/L			0.407			0.124					0.266	0.270				
Mo-D	mg/L			<0.0010			<0.0010					<0.0010	<0.0010				
Ni-D	mg/L			<0.0010			<0.0010					<0.0010	<0.0010				
K-D	mg/L			1.96			1.74					1.91	1.86				
S-D	mg/L			217			233					206	199				
Se-D	mg/L			<0.00010			<0.00010					<0.00010	<0.00010				
Si-D	mg/L			4.22			4.07					4.05	4.00				
Na-D	mg/L			105			110					112	107				
Sr-D	mg/L			2.33			1.98					2.11	2.11				
Zn-D	mg/L			<0.0050			<0.0050					<0.0050	<0.0050				

Table 15 2 South Pit Inflow 4 Page(s)

Site Description															
Site Name	2SI														
Date		2023-10-03	2023-10-10	2023-10-16	2023-10-23	2023-10-30	2023-11-06	2023-11-14	2023-11-14	2023-11-20	2023-11-27	2023-12-05	2023-12-11	2023-12-18	2023-12-27
pH-F	pH Units	7.4	7.65	7.6	7.51	7.4	7.26	6.95	6.95	7.28	7.45	7.2	7.33	7.29	7.21
Cond-F	uS/cm	1408	1408	1334	1394	1391	1105	716.2	716.2	985.3	1249.3	723.9	1109.6	848.8	659
H2S	mg/L	0.051	0.023	0.044	0.024		0.0071	<0.0020	<0.0020	<0.0020	<0.0020	0.012		0.0032	0.012
SO4-D	mg/L	520	500	460	550	520	370	290	290	370	490	250	420	330	250
TSS	mg/L						2.0					1.2			
Alk-T	mg/L	250					140					83			
Acidity83	mg/L	1.9					7.6					1.7			
Al-T	mg/L	0.0043					0.0167					0.0328			
As-T	mg/L	0.00040					0.00026					0.00017			
Ba-T	mg/L	0.0240					0.0200					0.0142			
B-T	mg/L	0.566					0.360					0.219			
Cd-T	mg/L	<0.000010					<0.000010					<0.000010			
Ca-T	mg/L	184					139					105			
Cr-T	mg/L	<0.0010					<0.0010					<0.0010			
Co-T	mg/L	<0.00020					0.00045					0.00028			
Cu-T	mg/L	<0.00050					<0.00050					<0.00050			
Hard-T	mg/L	519					400					306			
Fe-T	mg/L	0.148					0.188					0.157			
Pb-T	mg/L	<0.00020					<0.00020					<0.00020			
Mg-T	mg/L	14.7					13.0					10.6			
Mn-T	mg/L	0.0949					0.119					0.0848			
Mo-T	mg/L	<0.0010					<0.0010					<0.0010			
Ni-T	mg/L	<0.0010					0.0020					0.0010			
K-T	mg/L	1.70					1.12					0.742			
S-T	mg/L	176					134					91.6			
Se-T	mg/L	<0.00010					<0.00010					<0.00010			
Si-T	mg/L	3.28					4.08					3.99			
Ag-T	mg/L	<0.000020					<0.000020					<0.000020			
Na-T	mg/L	94.7					55.6					32.8			
Sr-T	mg/L	1.74					1.10					0.706			
Zn-T	mg/L	<0.0050					<0.0050					<0.0050			
Al-D	mg/L	0.0042					0.0149					0.0203			
As-D	mg/L	0.00043					0.00021					0.00016			
Ba-D	mg/L	0.0261					0.0207					0.0137			
B-D	mg/L	0.640					0.334					0.224			
Be-D	mg/L	<0.00010					<0.00010					<0.00010			
Cd-D	mg/L	<0.000010					<0.000010					<0.000010			
Ca-D	mg/L	201					149					96.7			
Cr-D	mg/L	<0.0010					<0.0010					<0.0010			
Co-D	mg/L	<0.00020					0.00042					0.00038			
Cu-D	mg/L	<0.00020					0.00037					0.00052			
Hard-D	mg/L	572					428					284			
Fe-D	mg/L	0.0763					0.146					0.0935			
Pb-D	mg/L	<0.00020					<0.00020					<0.00020			
Mg-D	mg/L	16.7					13.9					10.3			
Mn-D	mg/L	0.104					0.121					0.0775			
Mo-D	mg/L	<0.0010					<0.0010					<0.0010			
Ni-D	mg/L	<0.0010					0.0017					0.0017			
K-D	mg/L	1.80					1.24					0.763			
S-D	mg/L	209					140					89.7			
Se-D	mg/L	<0.00010					<0.00010					<0.00010			
Si-D	mg/L	3.65					4.36					4.11			
Na-D	mg/L	102					60.5					29.4			
Sr-D	mg/L	1.91					1.16					0.714			
Zn-D	mg/L	<0.0050					<0.0050					<0.0050			

Appendix 1 - Tables

Table 15 2 South Pit Inflow 4 Page(s)

Site Description																
Site Name		2SI														
Date		2024-01-02	2024-01-08	2024-01-15	2024-01-15	2024-01-22	2024-02-07	2024-02-13	2024-02-13	2024-02-20	2024-02-26	2024-03-04	2024-03-11	2024-03-11	2024-03-18	2024-03-25
pH-F	pH Units	7.43	7.52	7.9	7.9	7.58	7.48	7.16	7.16	7.36	7.15	7.17	7.57	7.57	7.44	7.6
Cond-F	uS/cm	1004.4	785	1180	1180	1315	743	323	323	598	1084	582	629	629	927	1313
H2S	mg/L	<0.0020	0.0027	0.027	0.023	0.029	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0037	0.024	0.018	0.037	<0.0020
SO4-D	mg/L	420	300	450	460	400	260	56	55	230	420	180	270	210	320	460
TSS	mg/L	2.0										<1.0				
Alk-T	mg/L	140					93					73				
Acidity83	mg/L	2.8					1.6					1.8				
Al-T	mg/L	0.0143					0.0082					0.0257				
As-T	mg/L	0.00028					0.00014					0.00011				
Ba-T	mg/L	0.0174					0.0113					0.0074				
B-T	mg/L	0.433					0.251					0.226				
Cd-T	mg/L	<0.000010					<0.000010					<0.000010				
Ca-T	mg/L	145					93.8					75.3				
Cr-T	mg/L	<0.0010					<0.0010					<0.0010				
Co-T	mg/L	0.00030					<0.00020					<0.00020				
Cu-T	mg/L	<0.00050					<0.00050					<0.00050				
Hard-T	mg/L	412					269					216				
Fe-T	mg/L	0.192					0.143					0.143				
Pb-T	mg/L	<0.00020					<0.00020					<0.00020				
Mg-T	mg/L	12.1					8.42					6.72				
Mn-T	mg/L	0.105					0.0939					0.0678				
Mo-T	mg/L	<0.0010					<0.0010					<0.0010				
Ni-T	mg/L	<0.0010					<0.0010					<0.0010				
K-T	mg/L	1.19					0.664					0.525				
S-T	mg/L	148					81.5					65.1				
Se-T	mg/L	<0.00010					<0.00010					<0.00010				
Si-T	mg/L	3.79					3.54					3.68				
Ag-T	mg/L	<0.000020					<0.000020					<0.000020				
Na-T	mg/L	62.8					32.3					28.8				
Sr-T	mg/L	1.30					0.710					0.505				
Zn-T	mg/L	<0.0050					<0.0050					<0.0050				
Al-D	mg/L	0.0074					0.0059					0.0408				
As-D	mg/L	0.00023					0.00013					<0.00010				
Ba-D	mg/L	0.0172					0.0122					0.0031				
B-D	mg/L	0.459					0.282					0.093				
Be-D	mg/L	<0.00010					<0.00010					<0.00010				
Cd-D	mg/L	<0.000010					<0.000010					<0.000010				
Ca-D	mg/L	150					94.7					22.4				
Cr-D	mg/L	<0.0010					<0.0010					<0.0010				
Co-D	mg/L	0.00028					<0.00020					<0.00020				
Cu-D	mg/L	0.00020					0.00035					0.00042				
Hard-D	mg/L	425					272					65.0				
Fe-D	mg/L	0.0967					0.129					0.0681				
Pb-D	mg/L	<0.00020					<0.00020					<0.00020				
Mg-D	mg/L	12.3					8.55					2.23				
Mn-D	mg/L	0.102					0.105					0.0292				
Mo-D	mg/L	<0.0010					<0.0010					<0.0010				
Ni-D	mg/L	<0.0010					<0.0010					<0.0010				
K-D	mg/L	1.18					0.699					0.181				
S-D	mg/L	150					89.5					19.2				
Se-D	mg/L	<0.00010					<0.00010					<0.00010				
Si-D	mg/L	3.95					3.79					4.25				
Na-D	mg/L	65.3					33.4					7.56				
Sr-D	mg/L	1.30					0.770					0.170				
Zn-D	mg/L	<0.0050					<0.0050					<0.0050				

Table 14 PTS Sulphide Polishing Cell 4 Page(s)

Passive Treatment System Sulphide Polishing Cell														
Site Description														
Site Name	SPCEFF													
Date		2023-04-03	2023-04-11	2023-04-17	2023-04-24	2023-05-01	2023-05-09	2023-05-15	2023-05-23	2023-05-29	2023-06-05	2023-06-12	2023-06-19	2023-06-26
pH-F	pH Units	7.76	8.23	7.89	7.92	7.6	7.75	7.68	7.42	7.72	7.88	7.69	7.8	7.75
Cond-F	uS/cm	1548	1216	1482	1328	1451	1392	1428	1500	1505	1505	1536	1505	1510
H2S	mg/L	0.0028	0.0039	0.012	0.013	6.5	0.034	2.6	0.10	3.1	0.011	0.080	0.0043	0.0028
SO4-D	mg/L	530	460	580	520	560	500	530	530	500	510	540	520	420
TSS	mg/L	2.4				1.2					<1.0			
Alk-T	mg/L	240				320					300			
Acidity83	mg/L	1.8				11.6					10.0			
Al-T	mg/L	0.0196				0.0076					0.0063			
As-T	mg/L	0.00047				0.00082					0.00122			
Ba-T	mg/L	0.0249				0.0290					0.0274			
B-T	mg/L	0.517				0.64					0.678			
Cd-T	mg/L	<0.000010				<0.000020					<0.000010			
Ca-T	mg/L	214				223					198			
Cr-T	mg/L	<0.0010				<0.0020					<0.0010			
Co-T	mg/L	<0.00020				<0.00040					<0.00020			
Cu-T	mg/L	0.00406				<0.0010					<0.00050			
Hard-T	mg/L	600				625					554			
Fe-T	mg/L	0.142				0.223					0.424			
Pb-T	mg/L	<0.00020				<0.00040					<0.00020			
Mg-T	mg/L	15.6				16.4					14.4			
Mn-T	mg/L	0.0087				0.290					0.0809			
Mo-T	mg/L	<0.0010				<0.0020					<0.0010			
Ni-T	mg/L	<0.0010				<0.0020					<0.0010			
K-T	mg/L	1.67				1.93					1.83			
S-T	mg/L	201				179					181			
Se-T	mg/L	<0.00010				<0.00020					<0.00010			
Si-T	mg/L	2.35				3.64					3.75			
Ag-T	mg/L	<0.000020				<0.000040					<0.000020			
Na-T	mg/L	99.6				103					96.5			
Sr-T	mg/L	2.05				2.05					2.17			
Zn-T	mg/L	<0.0050				<0.010					<0.0050			
Al-D	mg/L	<0.0030				0.0052					0.0038			
As-D	mg/L	0.00033				0.00085					0.00087			
Ba-D	mg/L	0.0258				0.0306					0.0311			
B-D	mg/L	0.589				0.607					0.818			
Be-D	mg/L	<0.00010				<0.00010					<0.00010			
Cd-D	mg/L	<0.000010				<0.000010					<0.000010			
Ca-D	mg/L	222				233					229			
Cr-D	mg/L	<0.0010				<0.0010					<0.0010			
Co-D	mg/L	<0.00020				<0.00020					<0.00020			
Cu-D	mg/L	0.00078				<0.00020					<0.00020			
Hard-D	mg/L	621				651					641			
Fe-D	mg/L	0.0278				0.0279					0.0608			
Pb-D	mg/L	<0.00020				<0.00020					<0.00020			
Mg-D	mg/L	15.8				16.4					16.8			
Mn-D	mg/L	0.0082				0.296					0.0885			
Mo-D	mg/L	<0.0010				<0.0010					<0.0010			
Ni-D	mg/L	<0.0010				<0.0010					<0.0010			
K-D	mg/L	1.61				2.00					2.04			
S-D	mg/L	209				191					195			
Se-D	mg/L	<0.00010				0.00090					<0.00010			
Si-D	mg/L	2.60				3.79					3.99			
Na-D	mg/L	100				104					105			
Sr-D	mg/L	2.16				2.22					2.41			
Zn-D	mg/L	<0.0050				<0.0050					<0.0050			

Table 14 PTS Sulphide Polishing Cell 4 Page(s)

Site Description															
Site Name		SPCEFF													
Date		2023-07-04	2023-07-10	2023-07-17	2023-07-24	2023-08-02	2023-08-08	2023-08-14	2023-08-21	2023-08-28	2023-09-05	2023-09-11	2023-09-18	2023-09-26	2023-09-26
pH-F	pH Units	7.76	7.78	7.64	7.38	7.24	7.4	7.27	7.42	7.23	7.30	7.34	7.31	7.28	7.28
Cond-F	uS/cm	1445	1369	1355	1503	1555	1585	1454	1514	1524	1682	1274	1313	1266	1266
H2S	mg/L	0.0028	0.0033	0.0073	15	0.39	0.15	0.050	0.016	0.013	0.0041	0.0051	0.0041	<0.0020	<0.0020
SO4-D	mg/L	490	460	450	500	480	500	450	440	420	390	370	360	330	320
TSS	mg/L		2.0			2.4									
Alk-T	mg/L		320			330					350				
Acidity83	mg/L		5.4			<1.0					9.6				
Al-T	mg/L		0.0113			0.0082					0.0152				
As-T	mg/L		0.00172			0.00141					0.00139				
Ba-T	mg/L		0.0275			0.0280					0.0262				
B-T	mg/L		0.728			0.635					0.776				
Cd-T	mg/L		<0.000010			<0.000010					<0.000010				
Ca-T	mg/L		180			196					183				
Cr-T	mg/L		<0.0010			<0.0010					<0.0010				
Co-T	mg/L		0.00028			<0.00020					0.00028				
Cu-T	mg/L		0.00380			<0.00050					0.00339				
Hard-T	mg/L		511			549					523				
Fe-T	mg/L		0.318			0.442					0.346				
Pb-T	mg/L		<0.00020			<0.00020					<0.00020				
Mg-T	mg/L		15.0			14.2					16.0				
Mn-T	mg/L		0.0371			0.106					0.0153				
Mo-T	mg/L		<0.0010			<0.0010					<0.0010				
Ni-T	mg/L		<0.0010			<0.0010					<0.0010				
K-T	mg/L		1.89			1.79					2.11				
S-T	mg/L		159			154					154				
Se-T	mg/L		<0.00010			<0.00010					<0.00010				
Si-T	mg/L		2.72			2.92					2.95				
Ag-T	mg/L		<0.000020			<0.000020					<0.000020				
Na-T	mg/L		101			91.9					117				
Sr-T	mg/L		2.13			2.08					2.12				
Zn-T	mg/L		0.0156			<0.0050					<0.0050				
Al-D	mg/L		0.0113			0.0061					0.0093				
As-D	mg/L		0.00177			0.00132					0.00123				
Ba-D	mg/L		0.0306			0.0314					0.0266				
B-D	mg/L		0.787			0.727					0.730				
Be-D	mg/L		<0.00010			<0.00010					<0.00010				
Cd-D	mg/L		<0.000010			<0.000010					<0.000010				
Ca-D	mg/L		202			229					187				
Cr-D	mg/L		<0.0010			<0.0010					<0.0010				
Co-D	mg/L		0.00031			<0.00020					0.00028				
Cu-D	mg/L		0.00266			<0.00020					0.00195				
Hard-D	mg/L		577			641					536				
Fe-D	mg/L		0.187			0.104					0.179				
Pb-D	mg/L		<0.00020			<0.00020					<0.00020				
Mg-D	mg/L		17.6			16.8					16.4				
Mn-D	mg/L		0.0402			0.117					0.0145				
Mo-D	mg/L		<0.0010			<0.0010					<0.0010				
Ni-D	mg/L		<0.0010			<0.0010					<0.0010				
K-D	mg/L		2.11			2.01					2.02				
S-D	mg/L		181			193					155				
Se-D	mg/L		0.00011			0.00017					<0.00010				
Si-D	mg/L		3.12			3.40					3.12				
Na-D	mg/L		113			114					115				
Sr-D	mg/L		2.39			2.17					2.13				
Zn-D	mg/L		0.0050			<0.0050					<0.0050				

Table 14 PTS Sulphide Polishing Cell 4 Page(s)

Site Description																
Site Name	SPCEFF															
Date		2023-10-03	2023-10-10	2023-10-16	2023-10-16	2023-10-23	2023-10-30	2023-11-06	2023-11-14	2023-11-20	2023-11-27	2023-12-05	2023-12-11	2023-12-11	2023-12-18	2023-12-27
pH-F	pH Units	7.29	7.42	7.43	7.43	7.34	7.31	7.49	7.17	7.21	7.2	7.25	7.03	7.03	7.34	7.53
Cond-F	uS/cm	1204	1215	1165	1165	1179	1240	1250	1287.7	1238.5	1327	1276.9	1336.5	1336.5	1113.1	898.3
H2S	mg/L	<0.0020	0.010	0.0022	<0.0020	0.0046	0.018	0.0051	3.2	0.035	0.30	0.037	0.11	0.10	0.017	0.019
SO4-D	mg/L	320	300	290	290	320	320	290	440	420	420	410	430	390	360	300
TSS	mg/L							1.2				3.2				
Alk-T	mg/L	360						340				290				
Acidity83	mg/L	8.9						8.1				3.1				
Al-T	mg/L	0.0106						0.0532				0.0158				
As-T	mg/L	0.00130						0.00119				0.00152				
Ba-T	mg/L	0.0140						0.0150				0.0357				
B-T	mg/L	0.666						0.590				0.625				
Cd-T	mg/L	<0.000010						<0.000010				<0.000010				
Ca-T	mg/L	152						156				207				
Cr-T	mg/L	<0.0010						<0.0010				<0.0010				
Co-T	mg/L	<0.00020						0.00024				<0.00020				
Cu-T	mg/L	0.00357						0.00389				0.00332				
Hard-T	mg/L	435						442				582				
Fe-T	mg/L	0.385						0.403				0.513				
Pb-T	mg/L	<0.00020						<0.00020				<0.00020				
Mg-T	mg/L	13.7						12.8				15.6				
Mn-T	mg/L	0.0180						0.0422				0.117				
Mo-T	mg/L	<0.0010						<0.0010				<0.0010				
Ni-T	mg/L	<0.0010						<0.0010				<0.0010				
K-T	mg/L	1.70						1.77				1.82				
S-T	mg/L	109						108				159				
Se-T	mg/L	<0.00010						<0.00010				<0.00010				
Si-T	mg/L	2.41						2.72				3.58				
Ag-T	mg/L	<0.000020						<0.000020				<0.000020				
Na-T	mg/L	96.4						89.6				103				
Sr-T	mg/L	1.72						1.62				1.81				
Zn-T	mg/L	<0.0050						<0.0050				<0.0050				
Al-D	mg/L	0.0059						0.0236				0.0041				
As-D	mg/L	0.00113						0.00091				0.00129				
Ba-D	mg/L	0.0144						0.0156				0.0343				
B-D	mg/L	0.698						0.531				0.597				
Be-D	mg/L	<0.00010						<0.00010				<0.00010				
Cd-D	mg/L	0.000013						<0.000010				<0.000010				
Ca-D	mg/L	162						162				182				
Cr-D	mg/L	<0.0010						<0.0010				<0.0010				
Co-D	mg/L	<0.00020						0.00024				<0.00020				
Cu-D	mg/L	0.00155						0.00072				<0.00020				
Hard-D	mg/L	466						460				511				
Fe-D	mg/L	0.210						0.125				0.0855				
Pb-D	mg/L	<0.00020						<0.00020				<0.00020				
Mg-D	mg/L	15.0						13.3				13.9				
Mn-D	mg/L	0.0191						0.0442				0.114				
Mo-D	mg/L	<0.0010						<0.0010				<0.0010				
Ni-D	mg/L	<0.0010						<0.0010				<0.0010				
K-D	mg/L	1.82						1.77				1.69				
S-D	mg/L	118						111				151				
Se-D	mg/L	<0.00010						<0.00010				0.00037				
Si-D	mg/L	2.61						2.92				3.43				
Na-D	mg/L	104						90.4				91.3				
Sr-D	mg/L	1.84						1.62				1.79				
Zn-D	mg/L	<0.0050						<0.0050				<0.0050				

Table 14 PTS Sulphide Polishing Cell 4 Page(s)

Site Description													
Site Name		SPCEFF											
Date		2024-01-02	2024-01-08	2024-01-15	2024-01-22	2024-02-07	2024-02-13	2024-02-20	2024-02-26	2024-03-04	2024-03-11	2024-03-18	2024-03-25
pH-F	pH Units	7.57	7.81	7.96	7.68	7.51	7.08	7.24	6.78	6.89	7.77	7.28	7.6
Cond-F	uS/cm	1098.1	1374	2070	408	1341	1143	1400	1420	1364	1369	1419	1461
H2S	mg/L	0.012	5.8	9.1	0.053	0.16	0.040	6.8	0.032	8.2	0.035	0.27	0.0085
SO4-D	mg/L	420	520	620	86	370	380	480	520	500	460	490	470
TSS	mg/L	2.0				3.6				3.2			
Alk-T	mg/L	220				270				300			
Acidity83	mg/L	2.8				4.6				10.9			
Al-T	mg/L	0.0058				0.0261				0.0053			
As-T	mg/L	0.00111				0.00126				0.00036			
Ba-T	mg/L	0.0247				0.0221				0.0218			
B-T	mg/L	0.497				0.448				0.776			
Cd-T	mg/L	<0.000010				<0.000010				<0.000010			
Ca-T	mg/L	169				164				212			
Cr-T	mg/L	<0.0010				<0.0010				<0.0010			
Co-T	mg/L	0.00023				0.00032				<0.00020			
Cu-T	mg/L	0.00069				0.00800				<0.00050			
Hard-T	mg/L	475				457				593			
Fe-T	mg/L	0.658				0.898				0.330			
Pb-T	mg/L	<0.00020				<0.00020				<0.00020			
Mg-T	mg/L	13.0				11.5				15.3			
Mn-T	mg/L	0.0955				0.0800				0.146			
Mo-T	mg/L	<0.0010				<0.0010				<0.0010			
Ni-T	mg/L	<0.0010				<0.0010				<0.0010			
K-T	mg/L	1.44				1.40				1.67			
S-T	mg/L	149				122				169			
Se-T	mg/L	<0.00010				<0.00010				<0.00010			
Si-T	mg/L	2.97				2.82				3.54			
Ag-T	mg/L	<0.000020				<0.000020				<0.000020			
Na-T	mg/L	73.1				75.6				100			
Sr-T	mg/L	1.62				1.53				1.75			
Zn-T	mg/L	0.0109				0.0053				<0.0050			
Al-D	mg/L	<0.0030				0.0037				0.0043			
As-D	mg/L	0.00069				0.00053				0.00034			
Ba-D	mg/L	0.0241				0.0215				0.0261			
B-D	mg/L	0.517				0.521				0.623			
Be-D	mg/L	<0.00010				<0.00010				<0.00010			
Cd-D	mg/L	<0.000010				<0.000010				<0.000010			
Ca-D	mg/L	175				165				211			
Cr-D	mg/L	<0.0010				<0.0010				<0.0010			
Co-D	mg/L	0.00022				0.00024				<0.00020			
Cu-D	mg/L	<0.00020				0.00021				<0.00020			
Hard-D	mg/L	488				462				587			
Fe-D	mg/L	0.0427				0.138				0.0494			
Pb-D	mg/L	<0.00020				<0.00020				<0.00020			
Mg-D	mg/L	12.7				12.1				14.4			
Mn-D	mg/L	0.0950				0.0879				0.163			
Mo-D	mg/L	<0.0010				<0.0010				<0.0010			
Ni-D	mg/L	<0.0010				<0.0010				<0.0010			
K-D	mg/L	1.42				1.45				1.68			
S-D	mg/L	147				134				189			
Se-D	mg/L	0.00025				0.00011				0.00223			
Si-D	mg/L	2.99				2.97				3.99			
Na-D	mg/L	73.1				78.0				92.5			
Sr-D	mg/L	1.63				1.63				2.00			
Zn-D	mg/L	<0.0050				<0.0050				<0.0050			

Appendix 1 - Tables

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

EMS ID		E292127					
Site Description							
2-South Pit in Pit Water Cover Over PAG-CCR							
Site Name		2S					
		2S-10JUL23-M					
Date		2023-04-03	2023-05-01	2023-06-05	2023-07-10	2023-08-02	2023-09-05
pH-F	pH Units	8.25	8.35	8.3	8.16	7.88	7.79
Cond-F	uS/cm	1256	1026	1293	1308	1443	1562
SO4-D	mg/L	420		510	560	580	530
Alk-T	mg/L	160	130	150	150	130	280
Acidity83	mg/L	<1.0	1.3	3.0	<1.0	1.6	13.5
Al-T	mg/L	0.0078	0.0044	0.0097	0.0058	0.104	0.0372
As-T	mg/L	0.00017	0.00023	0.00032	0.00041	0.00064	0.00042
Ba-T	mg/L	0.0188	0.0171	0.0183	0.0200	0.0181	0.0191
B-T	mg/L	0.397	0.384	0.512	0.592	0.581	0.609
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	161	147	156	170	158	181
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00074	0.00055
Hard-T	mg/L	454	417	445	490	456	516
Fe-T	mg/L	0.045	0.031	0.038	0.027	0.299	0.132
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	12.9	12.0	13.1	15.9	14.8	15.7
Mn-T	mg/L	0.0179	0.0133	0.0071	0.0070	0.0061	0.0059
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	1.23	1.29	1.44	1.83	1.71	1.80
S-T	mg/L	160	146	171	195	177	203
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	2.38	2.28	2.72	2.22	1.74	2.66
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	70.0	60.3	78.0	93.7	92.6	102
Sr-T	mg/L	1.41	1.33	1.69	1.97	1.91	1.92
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	0.0094	<0.0050	<0.0050
Al-D	mg/L	<0.0030	<0.0030	<0.0030	0.0046	0.0041	<0.0030
As-D	mg/L	0.00018	0.00023	0.00035	0.00042	0.00042	0.00032
Ba-D	mg/L	0.0195	0.0178	0.0206	0.0217	0.0197	0.0208
B-D	mg/L	0.444	0.413	0.638	0.662	0.712	0.674
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	164	156	181	184	173	177
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.00027	0.00035	0.00032	0.00035	0.00025	<0.00020
Hard-D	mg/L	464	445	514	532	502	516
Fe-D	mg/L	0.0108	0.0098	0.0138	0.0127	0.0168	0.0107
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	13.2	13.4	15.4	18.0	16.7	18.1
Mn-D	mg/L	0.0041	0.0039	0.0067	0.0076	0.0012	0.0023
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L	1.25	1.36	1.63	1.98	1.77	1.95
S-D	mg/L	168	152	190	223	238	221
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.64	2.48	2.92	2.50	2.05	2.77
Na-D	mg/L	71.2	67.2	87.3	105	106	114
Sr-D	mg/L	1.54	1.43	1.89	2.19	1.97	2.07
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

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

EMS ID		E292127					
Site Description							
Site Name		2S					
Date		2023-10-03	2023-11-06	2023-12-05	2024-01-02	2024-02-05	2024-03-04
pH-F	pH Units	7.67	7.91	7.77	7.74	7.98	7.29
Cond-F	uS/cm	1278	1300	906.1	661.5	911	573
SO4-D	mg/L	530	430	320	260	310	220
Alk-T	mg/L	150	170	120	87	120	86
Acidity83	mg/L	<1.0	1.2	<1.0	<1.0	<1.0	<1.0
Al-T	mg/L	0.0037	0.0100	0.0357	0.0632	0.0150	0.0288
As-T	mg/L	0.00029	0.00024	0.00017	0.00020	0.00016	0.00013
Ba-T	mg/L	0.0182	0.0201	0.0158	0.0132	0.0133	0.0085
B-T	mg/L	0.580	0.553	0.339	0.251	0.312	0.277
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	160	166	137	97.7	116	84.5
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00077	<0.00050	<0.00050
Hard-T	mg/L	464	471	392	282	329	241
Fe-T	mg/L	0.023	0.037	0.077	0.180	0.056	0.121
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00036	<0.00020
Mg-T	mg/L	15.7	13.7	12.3	9.11	9.50	7.38
Mn-T	mg/L	0.0035	0.0159	0.0384	0.0474	0.0316	0.0339
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	1.76	1.69	1.08	0.881	0.898	0.655
S-T	mg/L	188	158	117	92.4	104	75.4
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	2.66	3.26	3.68	3.64	2.95	3.56
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	99.4	82.8	53.6	33.0	45.7	34.7
Sr-T	mg/L	1.77	1.52	1.02	0.764	0.950	0.584
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	<0.0030	0.0074	0.0064	0.0157	0.0272	0.0120
As-D	mg/L	0.00030	0.00020	0.00015	0.00018	0.00014	0.00014
Ba-D	mg/L	0.0194	0.0204	0.0157	0.0156	0.0138	0.0097
B-D	mg/L	0.659	0.476	0.345	0.245	0.328	0.232
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	169	165	125	97.0	119	87.2
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	<0.00020	0.00028	0.00035	0.00046	0.00036	0.00034
Hard-D	mg/L	493	473	358	280	336	248
Fe-D	mg/L	0.0084	0.0201	0.0130	0.0223	0.0147	0.0326
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	16.9	14.8	11.2	9.11	9.75	7.24
Mn-D	mg/L	0.0012	0.0126	0.0324	0.0361	0.0312	0.0315
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L	1.86	1.64	1.06	0.892	0.931	0.644
S-D	mg/L	211	166	114	92.6	111	80.1
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011
Si-D	mg/L	2.83	3.59	3.58	3.56	3.17	3.84
Na-D	mg/L	107	86.2	49.6	32.8	47.3	33.6
Sr-D	mg/L	1.90	1.51	1.06	0.768	0.998	0.718
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

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

EMS ID														
Site Description 2-South Outflow Culvert into 3-South Pit														
Site Name		2SC												
Date		2023-04-03	2023-05-01	2023-06-05	2023-07-10	2023-08-02	2023-09-05	2023-10-03	2023-10-03	2023-11-06	2023-12-05	2024-01-02	2024-02-05	2024-03-04
pH-F	pH Units	8.21	8.2	8.13	8.13	7.85	7.71	7.66	7.66	7.8	7.64	7.51	7.87	7.61
Cond-F	uS/cm	1508	1379	1504	1389	1513	1728	1472	1472	1587	1236.6	1576.3	1613	1325
SO4-D	mg/L	600		690	620	600	670	670	680	650	500	840	730	630
Alk-T	mg/L	200	200	210	190	210	200	200	200	200	150	180	190	180
Acidity83	mg/L	1.1	2.6	3.5	1.2	3.1	3.0	1.4	1.7	3.5	1.4	3.7	2.3	2.0
Al-T	mg/L	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030	<0.0030	<0.0030	<0.0060	<0.0060	0.0113	0.0072	<0.0030	<0.0030
As-T	mg/L	0.00025	0.00032	<0.00020	0.00031	0.00026	0.00030	0.00028	0.00025	0.00024	0.00017	<0.00020	0.00013	0.00013
Ba-T	mg/L	0.0120	0.0131	0.0123	0.0153	0.0130	0.0143	0.0136	0.0135	0.0145	0.0115	0.0141	0.0116	0.0100
B-T	mg/L	0.27	0.30	0.35	0.400	0.345	0.409	0.432	0.47	0.41	0.262	0.29	0.235	0.322
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	0.000065	<0.000010	<0.000010
Ca-T	mg/L	247	263	233	237	234	232	231	244	269	230	314	271	263
Cr-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010
Co-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020
Cu-T	mg/L	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.0010	<0.00050	<0.00050
Hard-T	mg/L	740	790	699	697	689	681	684	721	790	684	937	808	782
Fe-T	mg/L	0.028	<0.020	<0.020	0.017	<0.010	0.013	<0.010	<0.020	<0.020	0.012	<0.020	<0.010	0.016
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020
Mg-T	mg/L	29.8	32.4	28.4	25.7	25.7	24.8	26.2	26.9	28.5	26.9	37.2	31.8	30.6
Mn-T	mg/L	0.0039	0.0044	0.0028	0.0041	0.0034	0.0111	0.0034	0.0037	0.0096	0.0092	0.0096	0.0051	0.0040
Mo-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010
Ni-T	mg/L	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010
K-T	mg/L	1.93	2.14	1.92	2.35	2.24	2.42	2.40	2.43	2.47	1.73	1.93	1.74	1.82
S-T	mg/L	215	223	213	218	193	230	240	226	219	188	287	228	210
Se-T	mg/L	0.00023	0.00024	<0.00020	0.00022	0.00014	0.00019	0.00018	<0.00020	0.00027	0.00021	0.00053	0.00036	0.00023
Si-T	mg/L	2.10	2.50	2.30	2.62	2.52	2.43	2.52	2.64	2.68	3.14	2.93	2.51	2.64
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000020	<0.000040	<0.000020	<0.000020
Na-T	mg/L	38.1	37.3	39.7	52.9	46.9	55.8	57.8	59.1	48.2	33.3	26.1	24.8	31.6
Sr-T	mg/L	1.38	1.47	1.48	1.55	1.49	1.49	1.49	1.45	1.56	1.21	1.69	1.50	1.26
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.0050	<0.0050
Al-D	mg/L	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.030	<0.0060	<0.0060	<0.0060	0.0066	0.0066		<0.0060
As-D	mg/L	0.00026	0.00033	0.00021	0.00029	0.00027	<0.0010	0.00028	0.00032	0.00022	0.00017	<0.00020		<0.00020
Ba-D	mg/L	0.0128	0.0134	0.0136	0.0159	0.0136	0.015	0.0144	0.0155	0.0140	0.0121	0.0143		0.0117
B-D	mg/L	0.31	0.31	0.43	0.48	0.41	0.55	0.50	0.57	0.38	0.288	0.32		0.39
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020		<0.00020
Cd-D	mg/L	<0.000020	0.000051	<0.000020	<0.000020	<0.000020	<0.00010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020		<0.000020
Ca-D	mg/L	256	263	260	248	248	262	256	274	254	206	327		243
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020		<0.0020
Co-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.0020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040		<0.00040
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.0020	<0.00040	<0.00040	<0.00040	0.00027	<0.00040		<0.00040
Hard-D	mg/L	768	789	778	734	739	775	755	812	754	619	975		729
Fe-D	mg/L	0.016	<0.010	<0.010	0.012	<0.010	<0.050	<0.010	<0.010	0.011	<0.0050	<0.010		<0.010
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.0020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040		<0.00040
Mg-D	mg/L	31.4	31.9	31.3	27.8	29.0	29.5	27.8	30.8	29.1	25.3	38.4		29.7
Mn-D	mg/L	0.0039	0.0037	0.0028	0.0039	0.0035	0.014	0.0036	0.0037	0.0093	0.0084	0.0091		0.0042
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020		<0.0020
Ni-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020		<0.0020
K-D	mg/L	2.02	2.09	2.25	2.30	2.37	2.60	2.60	2.76	2.30	1.69	2.00		1.98
S-D	mg/L	232	219	227	228	232	270	238	255	226	186	296		215
Se-D	mg/L	0.00023	0.00029	0.00022	0.00028	<0.00020	<0.0010	<0.00020	0.00020	0.00028	0.00024	0.00059		0.00022
Si-D	mg/L	2.39	2.58	2.57	2.56	2.70	2.7	2.75	2.95	2.83	3.04	3.03		2.64
Na-D	mg/L	38.8	36.9	44.0	55.4	54.8	67.0	62.2	67.1	50.5	30.1	27.1		30.6
Sr-D	mg/L	1.52	1.51	1.62	1.59	1.44	1.54	1.56	1.67	1.47	1.24	1.77		1.44
Zn-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050	<0.010	<0.010	<0.010	<0.0050	<0.010		<0.010

Table 18 3-South Pit Water Cover Over PAG-CCR 2 Page(s)

EMS ID		E217015					
Site Description		3-South Pit Water Cover Over PAG-CCR					
Site Name		3S					
Date		2023-04-03	2023-05-01	2023-06-05	2023-07-10	2023-08-02	2023-09-05
pH-F	pH Units	8.19	8.16	8.2	8.17	7.87	7.62
Cond-F	uS/cm	1458	1376	1523	1366	1522	1633
SO4-D	mg/L	580		690	620	590	650
Alk-T	mg/L	180	200	200	170	200	140
Acidity83	mg/L	2.6	2.7	3.5	1.1	2.7	2.1
Al-T	mg/L	<0.0030	<0.0060	<0.0060		0.0054	0.0064
As-T	mg/L	0.00025	0.00025	<0.00020		0.00025	0.00036
Ba-T	mg/L	0.0117	0.0121	0.0123		0.0126	0.0143
B-T	mg/L	0.266	0.27	0.33		0.336	0.393
Cd-T	mg/L	<0.000010	<0.000020	<0.000020		<0.000010	<0.000010
Ca-T	mg/L	235	238	231		226	241
Cr-T	mg/L	<0.0010	<0.0020	<0.0020		<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00040	<0.00040		<0.00020	<0.00020
Cu-T	mg/L	<0.00050	<0.0010	<0.0010		<0.00050	<0.00050
Hard-T	mg/L	702	708	695		666	711
Fe-T	mg/L	0.019	<0.020	<0.020		0.016	0.026
Pb-T	mg/L	<0.00020	<0.00040	<0.00040		<0.00020	<0.00020
Mg-T	mg/L	27.9	27.7	28.6		24.8	26.8
Mn-T	mg/L	0.0037	0.0037	0.0027		0.0032	0.0094
Mo-T	mg/L	<0.0010	<0.0020	<0.0020		<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0020	<0.0020		<0.0010	<0.0010
K-T	mg/L	1.96	1.87	1.94		2.14	2.66
S-T	mg/L	208	198	217		183	242
Se-T	mg/L	0.00022	0.00024	<0.00020		0.00013	0.00014
Si-T	mg/L	1.98	2.25	2.24		2.39	2.76
Ag-T	mg/L	<0.000020	<0.000040	<0.000040		<0.000020	<0.000020
Na-T	mg/L	35.6	32.2	40.4		44.7	58.2
Sr-T	mg/L	1.35	1.31	1.48		1.44	1.56
Zn-T	mg/L	<0.0050	<0.010	<0.010		<0.0050	<0.0050
Al-D	mg/L	<0.0060	<0.0060	<0.0060		<0.0060	<0.030
As-D	mg/L	0.00027	0.00023	0.00021		0.00027	<0.0010
Ba-D	mg/L	0.0123	0.0136	0.0136		0.0138	0.015
B-D	mg/L	0.31	0.31	0.41		0.41	0.53
Be-D	mg/L	<0.00020	<0.00020	<0.00020		<0.00020	<0.0010
Cd-D	mg/L	<0.000020	<0.000020	<0.000020		<0.000020	<0.00010
Ca-D	mg/L	243	262	262		249	256
Cr-D	mg/L	<0.0020	<0.0020	<0.0020		<0.0020	<0.010
Co-D	mg/L	<0.00040	<0.00040	<0.00040		<0.00040	<0.0020
Cu-D	mg/L	<0.00040	<0.00040	<0.00040		<0.00040	<0.0020
Hard-D	mg/L	729	786	787		740	765
Fe-D	mg/L	<0.010	<0.010	<0.010		<0.010	<0.050
Pb-D	mg/L	<0.00040	<0.00040	<0.00040		<0.00040	<0.0020
Mg-D	mg/L	29.7	31.8	32.3		28.7	30.6
Mn-D	mg/L	0.0037	0.0036	0.0027		0.0032	<0.010
Mo-D	mg/L	<0.0020	<0.0020	<0.0020		<0.0020	<0.010
Ni-D	mg/L	<0.0020	<0.0020	<0.0020		<0.0020	<0.010
K-D	mg/L	1.96	2.13	2.27		2.31	2.64
S-D	mg/L	225	221	229		235	275
Se-D	mg/L	0.00021	0.00028	0.00022		<0.00020	<0.0010
Si-D	mg/L	2.30	2.51	2.59		2.70	2.7
Na-D	mg/L	37.2	37.5	43.6		55.0	66.8
Sr-D	mg/L	1.46	1.52	1.62		1.41	1.54
Zn-D	mg/L	<0.010	<0.010	<0.010		<0.010	<0.050

Appendix 1 - Tables

Table 18 3-South Pit Water Cover Over PAG-CCR 2 Page(s)

EMS ID		E217015					
Site Description		3-South P					
Site Name		3S					
Date		2023-10-03	2023-11-06	2023-12-05	2024-01-02	2024-02-05	2024-03-04
pH-F	pH Units	7.58	7.74	7.69	7.57	7.72	7.59
Cond-F	uS/cm	1482	1592	1226.9	1474.7	1545	1333
SO4-D	mg/L	670	640	510	800	660	630
Alk-T	mg/L	190	200	150	170	170	180
Acidity83	mg/L	2.0	3.1	<1.0	3.0	1.5	1.3
Al-T	mg/L		<0.0060	0.0189	0.0115		<0.0030
As-T	mg/L		0.00022	0.00019	<0.00020		0.00015
Ba-T	mg/L		0.0147	0.0115	0.0149		0.0114
B-T	mg/L		0.42	0.262	0.30		0.334
Cd-T	mg/L		<0.000020	<0.000010	<0.000020		<0.000010
Ca-T	mg/L		265	222	323		250
Cr-T	mg/L		<0.0020	<0.0010	<0.0020		<0.0010
Co-T	mg/L		<0.00040	<0.00020	<0.00040		<0.00020
Cu-T	mg/L		<0.0010	<0.00050	<0.0010		<0.00050
Hard-T	mg/L		777	670	965		753
Fe-T	mg/L		<0.020	0.017	<0.020		0.016
Pb-T	mg/L		<0.00040	<0.00020	<0.00040		<0.00020
Mg-T	mg/L		28.1	28.0	38.6		31.5
Mn-T	mg/L		0.0086	0.0094	0.0127		0.0041
Mo-T	mg/L		<0.0020	<0.0010	<0.0020		<0.0010
Ni-T	mg/L		<0.0020	<0.0010	<0.0020		<0.0010
K-T	mg/L		2.41	1.78	2.09		1.89
S-T	mg/L		212	197	298		210
Se-T	mg/L		0.00029	0.00020	0.00051		0.00021
Si-T	mg/L		2.65	3.05	3.11		2.51
Ag-T	mg/L		<0.000040	<0.000020	<0.000040		<0.000020
Na-T	mg/L		47.9	34.7	29.6		32.5
Sr-T	mg/L		1.53	1.24	1.81		1.31
Zn-T	mg/L		<0.010	<0.0050	<0.010		<0.0050
Al-D	mg/L		<0.0060	0.0063	0.0094		<0.0030
As-D	mg/L		0.00025	0.00017	<0.00020		0.00015
Ba-D	mg/L		0.0141	0.0110	0.0146		0.0117
B-D	mg/L		0.37	0.269	0.25		0.269
Be-D	mg/L		<0.00020	<0.00010	<0.00020		<0.00010
Cd-D	mg/L		<0.000020	<0.000010	<0.000020		<0.000010
Ca-D	mg/L		253	204	325		234
Cr-D	mg/L		<0.0020	<0.0010	<0.0020		<0.0010
Co-D	mg/L		<0.00040	<0.00020	<0.00040		<0.00020
Cu-D	mg/L		<0.00040	0.00027	<0.00040		<0.00020
Hard-D	mg/L		752	611	962		699
Fe-D	mg/L		0.013	<0.0050	<0.010		<0.0050
Pb-D	mg/L		<0.00040	<0.00020	<0.00040		<0.00020
Mg-D	mg/L		29.3	24.9	36.9		28.1
Mn-D	mg/L		0.0088	0.0080	0.0120		0.0039
Mo-D	mg/L		<0.0020	<0.0010	<0.0020		<0.0010
Ni-D	mg/L		<0.0020	<0.0010	<0.0020		<0.0010
K-D	mg/L		2.31	1.66	2.03		1.95
S-D	mg/L		225	183	283		205
Se-D	mg/L		0.00033	0.00022	0.00054		0.00028
Si-D	mg/L		2.79	3.02	2.86		2.90
Na-D	mg/L		49.9	30.5	29.3		28.9
Sr-D	mg/L		1.47	1.21	1.71		1.42
Zn-D	mg/L		<0.010	<0.0050	<0.010		<0.0050

Appendix 1 - Tables

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

EMS ID		E217014									
Site Description		Culvert Downstream End at Access Road									
Site Name		SPC									
Date		2023-04-03	2023-05-01	2023-06-05		2023-11-06	2023-12-05	2024-01-02	2024-02-05	2024-03-04	2024-03-04
pH-F	pH Units	8.03	8	8.11	No flow (July through Nov.)	7.14	7.57	7.37	7.84	7.54	7.54
Cond-F	uS/cm	773	442	829		723	406.1	433.6	539	413	413
SO4-D	mg/L	280	170	310		270	140	170	200	150	150
TSS	mg/L	<1.0	<1.0	<1.0		1.6	2.4	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L	80	57	86		59	40	49	61	54	51
Acidity83	mg/L	<1.0	<1.0	2.0		1.4	<1.0	<1.0	<1.0	<1.0	<1.0
Al-T	mg/L		0.0474			0.0671	0.120	0.0563		0.0485	0.0474
As-T	mg/L		0.00040			0.00037	0.00033	0.00042		0.00033	0.00033
Ba-T	mg/L		0.0124			0.0167	0.0104	0.0098		0.0067	0.0063
B-T	mg/L		0.133			0.199	0.105	0.122		0.112	0.110
Cd-T	mg/L		<0.000010			<0.000010	<0.000010	0.000010		<0.000010	<0.000010
Ca-T	mg/L		63.7			85.7	53.1	66.7		56.0	55.2
Cr-T	mg/L		<0.0010			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Co-T	mg/L		<0.00020			<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Cu-T	mg/L		0.00058			0.00059	0.00058	0.00050		<0.00050	<0.00050
Hard-T	mg/L		192			259	159	199		169	166
Fe-T	mg/L		0.071			0.091	0.129	0.065		0.044	0.043
Pb-T	mg/L		<0.00020			<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Mg-T	mg/L		8.06			11.0	6.49	7.94		7.07	6.89
Mn-T	mg/L		0.0016			0.0029	0.0025	0.0012		<0.0010	<0.0010
Mo-T	mg/L		<0.0010			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Ni-T	mg/L		<0.0010			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
K-T	mg/L		0.723			1.03	0.588	0.670		0.552	0.547
S-T	mg/L		55.3			92.3	46.9	61.4		47.4	48.1
Se-T	mg/L		<0.00010			<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Si-T	mg/L		2.94			3.65	3.60	3.63		3.07	3.03
Ag-T	mg/L		<0.000020			<0.000020	<0.000020	<0.000020		<0.000020	<0.000020
Na-T	mg/L		18.1			31.7	17.4	14.6		15.9	15.8
Sr-T	mg/L		0.407			0.587	0.309	0.423		0.315	0.307
Zn-T	mg/L		<0.0050			<0.0050	<0.0050	<0.0050		<0.0050	<0.0050
Al-D	mg/L		0.0447			0.0528	0.0883	0.205		0.0497	0.0407
As-D	mg/L		0.00042			0.00030	0.00032	0.00042		0.00034	0.00035
Ba-D	mg/L		0.0129			0.0168	0.0098	0.0096		0.0079	0.0077
B-D	mg/L		0.128			0.180	0.114	0.116		0.124	0.133
Be-D	mg/L		<0.00010			<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Cd-D	mg/L		<0.000010			<0.000010	<0.000010	<0.000010		<0.000010	<0.000010
Ca-D	mg/L		64.6			87.6	47.5	64.9		55.7	56.4
Cr-D	mg/L		<0.0010			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Co-D	mg/L		<0.00020			<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Cu-D	mg/L		0.00050			0.00049	0.00056	0.00083		0.00034	0.00032
Hard-D	mg/L		194			265	145	195		167	168
Fe-D	mg/L		0.0585			0.0678	0.0832	0.0510		0.0376	0.0373
Pb-D	mg/L		0.00076			<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Mg-D	mg/L		8.02			11.2	6.42	7.95		6.80	6.59
Mn-D	mg/L		0.0010			0.0014	0.0013	<0.0010		<0.0010	<0.0010
Mo-D	mg/L		<0.0010			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Ni-D	mg/L		<0.0010			<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
K-D	mg/L		0.698			1.09	0.595	0.639		0.584	0.560
S-D	mg/L		57.9			93.8	46.9	60.8		51.5	49.6
Se-D	mg/L		<0.00010			<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Si-D	mg/L		3.01			3.91	3.43	3.53		3.46	3.54
Na-D	mg/L		18.1			32.2	16.4	14.1		15.5	14.9
Sr-D	mg/L		0.429			0.568	0.322	0.420		0.375	0.375
Zn-D	mg/L		<0.0050			<0.0050	<0.0050	<0.0050		<0.0050	<0.0050

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130	Stn Std	Max-WQG														
Site Description		South End Mine Water Entering Long Lake Near the Outlet															
64																	
Site Name	LLE	Std Val															
Date	Max	2023-04-03	2023-04-11	2023-04-11	2023-04-17	2023-04-24	2023-05-01	2023-05-08	2023-05-15	2023-05-23	2023-05-29	2023-05-29	2023-06-05	2023-06-12	2023-06-19	2023-06-26	
Flow	m3/s		0.04331	0.018186	0.018186	0.0048	0.1453	0.04862	0.0807	0.01582	0.00164	0.00279	0.00016	0.00099	0.00315	0.0001	
pH-F	pH Units		7.51	7.68	7.68	7.67	7.74	7.47	7.69	7.64	7.6	7.49	7.49	7.48	7.52	7.6	7.69
Cond-F	uS/cm		1165	484	484	433	372	348	429	566	615	951	951	975	906	1144	1374
SO4-D	mg/L		240	160	160	160	130	130	150	210	260	380	370	390	340	480	530
TSS	mg/L		<1.0					<1.0						2.0			
DOC	mg/L		2.9					4.9						4.9			
Alk-T	mg/L		67					47						100			
Acidity83	mg/L		<1.0					1.8						4.4			
N-NH3	mg/L	12.9	<0.015					<0.015						<0.015			
N-NO23	mg/L		0.025					<0.020						<0.020			
P-T	mg/L		<0.0030					0.0046						0.0060			
Al-T	mg/L		0.0199					0.0370						0.0047			
As-T	mg/L		0.00034					0.00065						0.00075			
Ba-T	mg/L		0.0206					0.0154						0.0280			
B-T	mg/L		0.128					0.103						0.346			
Cd-T	mg/L		<0.000010					<0.000010						<0.000010			
Ca-T	mg/L		88.0					43.7						124			
Cr-T	mg/L		<0.0010					<0.0010						<0.0010			
Co-T	mg/L	0.11	<0.00020					<0.00020						<0.00020			
Cu-T	mg/L		<0.00050					<0.00050						<0.00050			
Hard-T	mg/L		265					134						384			
Fe-T	mg/L	1.0	0.131					0.217						0.632			
Pb-T	mg/L	0.0176	<0.00020					<0.00020						<0.00020			
Mg-T	mg/L		11.1					6.10						18.4			
Mn-T	mg/L	0.8706	0.0149					0.0270						0.0904			
Mo-T	mg/L	46.0	<0.0010					<0.0010						<0.0010			
Ni-T	mg/L		<0.0010					<0.0010						<0.0010			
K-T	mg/L		0.824					0.578						1.30			
S-T	mg/L		83.7					38.0						137			
Se-T	mg/L		<0.00010					<0.00010						<0.00010			
Si-T	mg/L		2.44					2.64						2.38			
Ag-T	mg/L	0.0001	<0.000020					<0.000020						<0.000020			
Na-T	mg/L		21.0					13.5						39.2			
Sr-T	mg/L		0.554					0.277						0.853			
Zn-T	mg/L	0.033	<0.0050					<0.0050						<0.0050			
Al-D	mg/L		0.0137					0.0268						<0.0030			
As-D	mg/L		0.00029					0.00066						0.00071			
Ba-D	mg/L		0.0207					0.0173						0.0311			
B-D	mg/L		0.134					0.116						0.405			
Be-D	mg/L		<0.00010					<0.00010						<0.00010			
Cd-D	mg/L	0.00017	<0.000010					<0.000010						<0.000010			
Ca-D	mg/L		88.5					48.4						142			
Cr-D	mg/L		<0.0010					<0.0010						<0.0010			
Co-D	mg/L		<0.00020					<0.00020						<0.00020			
Cu-D	mg/L		0.00030					0.00043						<0.00020			
Hard-D	mg/L		267					147						438			
Fe-D	mg/L	0.35	0.103					0.153						0.391			
Pb-D	mg/L		<0.00020					<0.00020						<0.00020			
Mg-D	mg/L		11.2					6.41						20.4			
Mn-D	mg/L		0.0145					0.0290						0.0990			
Mo-D	mg/L		<0.0010					<0.0010						<0.0010			
Ni-D	mg/L		<0.0010					<0.0010						<0.0010			
K-D	mg/L		0.817					0.630						1.44			
S-D	mg/L		86.9					42.7						144			
Se-D	mg/L		<0.00010					<0.00010						<0.00010			
Si-D	mg/L		2.65					2.84						2.48			
Na-D	mg/L		21.1					14.3						43.0			
Sr-D	mg/L		0.576					0.314						0.943			
Zn-D	mg/L	0.033	<0.0050					<0.0050						<0.0050			

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130
Site Description	
	64
Site Name	LLE
Date	2023-07-04 2023-07-10 2023-07-17 2023-07-24 2023-08-02 2023-08-08 2023-08-14 2023-08-21 2023-08-28 2023-09-05 2023-09-11 2023-09-18 2023-09-25 2023-10-01
Flow	m3/s 0 0 0 0 0 0 0 0 0 0 0 0 0 0
pH-F	pH Units
Cond-F	uS/cm
SO4-D	mg/L
TSS	mg/L
DOC	mg/L
Alk-T	mg/L
Acidity83	mg/L
N-NH3	mg/L
N-NO23	mg/L
P-T	mg/L
Al-T	mg/L
As-T	mg/L
Ba-T	mg/L
B-T	mg/L
Cd-T	mg/L
Ca-T	mg/L
Cr-T	mg/L
Co-T	mg/L
Cu-T	mg/L
Hard-T	mg/L
Fe-T	mg/L
Pb-T	mg/L
Mg-T	mg/L
Mn-T	mg/L
Mo-T	mg/L
Ni-T	mg/L
K-T	mg/L
S-T	mg/L
Se-T	mg/L
Si-T	mg/L
Ag-T	mg/L
Na-T	mg/L
Sr-T	mg/L
Zn-T	mg/L
Al-D	mg/L
As-D	mg/L
Ba-D	mg/L
B-D	mg/L
Be-D	mg/L
Cd-D	mg/L
Ca-D	mg/L
Cr-D	mg/L
Co-D	mg/L
Cu-D	mg/L
Hard-D	mg/L
Fe-D	mg/L
Pb-D	mg/L
Mg-D	mg/L
Mn-D	mg/L
Mo-D	mg/L
Ni-D	mg/L
K-D	mg/L
S-D	mg/L
Se-D	mg/L
Si-D	mg/L
Na-D	mg/L
Sr-D	mg/L
Zn-D	mg/L

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130																	
Site Description																		
64																		
Site Name	LLE																	
Date		2023-10-03	2023-10-07	2023-10-10	2023-10-11	2023-10-16	2023-10-19	2023-10-23	2023-10-30	2023-10-30	2023-11-06	2023-11-14	2023-11-20	2023-11-27	2023-12-05	2023-12-11	2023-12-18	2023-12-27
Flow	m3/s	0.01674		0.0015	0.00578	0.00868		0.0095	0.02116	0.02116	0.07532	0.2254	0.02661	0.02265	0.3189	0.07431	0.1278	0.5841
pH-F	pH Units	6.96			6.83	6.79		7.08	7.14	7.14	6.8	6.72	6.97	7.13	6.46	6.82	7.21	7.43
Cond-F	uS/cm	1129			1032	1143		971	1076	1076	669	370.6	342.2	460.7	355.2	307.1	401.9	247.8
SO4-D	mg/L	500			430	440		420	450	450	250	140	120	170	120	110	140	82
TSS	mg/L	6.8									<1.0				<1.0			
DOC	mg/L	4.8									8.0				8.5			
Alk-T	mg/L	88									52				37			
Acidity83	mg/L	5.6									<1.0				<1.0			
N-NH3	mg/L	<0.015									<0.015				<0.015			
N-NO23	mg/L	0.027									0.244				0.042			
P-T	mg/L	0.012									0.0061				0.0064			
Al-T	mg/L	0.106									0.0580				0.126			
As-T	mg/L	0.00104									0.00060				0.00051			
Ba-T	mg/L	0.0443									0.0215				0.0113			
B-T	mg/L	0.302									0.169				0.097			
Cd-T	mg/L	<0.000010									<0.000010				<0.000010			
Ca-T	mg/L	161									83.5				46.7			
Cr-T	mg/L	<0.0010									<0.0010				<0.0010			
Co-T	mg/L	0.00029									<0.00020				<0.00020			
Cu-T	mg/L	0.00065									0.00063				0.00063			
Hard-T	mg/L	493									251				142			
Fe-T	mg/L	0.981									0.146				0.414			
Pb-T	mg/L	<0.00020									<0.00020				<0.00020			
Mg-T	mg/L	22.1									10.2				6.07			
Mn-T	mg/L	0.139									0.0202				0.0204			
Mo-T	mg/L	<0.0010									<0.0010				<0.0010			
Ni-T	mg/L	<0.0010									<0.0010				<0.0010			
K-T	mg/L	1.58									1.02				0.545			
S-T	mg/L	179									79.2				42.4			
Se-T	mg/L	<0.00010									<0.00010				<0.00010			
Si-T	mg/L	4.14									3.54				3.61			
Ag-T	mg/L	<0.000020									<0.000020				<0.000020			
Na-T	mg/L	49.0									27.9				15.7			
Sr-T	mg/L	1.05									0.518				0.276			
Zn-T	mg/L	<0.0050									<0.0050				<0.0050			
Al-D	mg/L	0.0047									0.0435				0.0725			
As-D	mg/L	0.00066									0.00049				0.00045			
Ba-D	mg/L	0.0482									0.0225				0.0118			
B-D	mg/L	0.275									0.178				0.124			
Be-D	mg/L	<0.00010									<0.00010				<0.00010			
Cd-D	mg/L	<0.000010									<0.000010				<0.000010			
Ca-D	mg/L	176									83.2				43.3			
Cr-D	mg/L	<0.0010									<0.0010				<0.0010			
Co-D	mg/L	0.00024									<0.00020				<0.00020			
Cu-D	mg/L	0.00027									0.00062				0.00074			
Hard-D	mg/L	537									252				131			
Fe-D	mg/L	0.169									0.117				0.298			
Pb-D	mg/L	<0.00020									<0.00020				<0.00020			
Mg-D	mg/L	23.7									10.8				5.62			
Mn-D	mg/L	0.151									0.0203				0.0175			
Mo-D	mg/L	<0.0010									<0.0010				<0.0010			
Ni-D	mg/L	<0.0010									<0.0010				<0.0010			
K-D	mg/L	1.66									1.03				0.548			
S-D	mg/L	197									89.9				42.7			
Se-D	mg/L	<0.00010									<0.00010				<0.00010			
Si-D	mg/L	4.29									4.02				3.46			
Na-D	mg/L	52.5									30.1				14.7			
Sr-D	mg/L	1.15									0.518				0.277			
Zn-D	mg/L	<0.0050									0.0099				<0.0050			

Appendix 1 - Tables

Table 20 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130																	
Site Description																		
64																		
Site Name	LLE																	
Date		2024-01-02	2024-01-08	2024-01-08	2024-01-15	2024-01-17	2024-01-22	2024-01-29	2024-02-05	2024-02-12	2024-02-20	2024-02-20	2024-02-26	2024-03-04	2024-03-11	2024-03-18	2024-03-25	2024-03-25
Flow	m3/s	0.1142	0.1035	0.1035	0.05	0.0161	0.02215	0.335	0.067	0.04638	0.01295	0.01295	0.04832	0.05438	0.15	0.02922	0.02723	0.02723
pH-F	pH Units	6.91	7.59	7.59	8.25		7.17	7.82	7.45	7.81	7.56	7.56	7.62	7.03	7.56	7.39	7.54	7.54
Cond-F	uS/cm	377.7	560	560	584		367	337	470	397	478	478	428	353	309	381	558	558
SO4-D	mg/L	150	210	210	220		110	110	170	140	160	160	160	140	100	130	150	150
TSS	mg/L	2.0							<1.0					1.2				
DOC	mg/L	4.6							3.5					3.8				
Alk-T	mg/L	43							52					45				
Acidity83	mg/L	<1.0							<1.0					1.2				
N-NH3	mg/L	<0.015							<0.015					<0.015				
N-NO23	mg/L	<0.020							0.022					0.073				
P-T	mg/L	0.0044							0.0030					<0.0030				
Al-T	mg/L	0.0703							0.0446					0.0666				
As-T	mg/L	0.00082							0.00056					0.00069				
Ba-T	mg/L	0.0121							0.0112					0.0101				
B-T	mg/L	0.096							0.090					0.093				
Cd-T	mg/L	<0.000010							<0.000010					<0.000010				
Ca-T	mg/L	56.8							59.7					47.4				
Cr-T	mg/L	<0.0010							<0.0010					<0.0010				
Co-T	mg/L	<0.00020							<0.00020					<0.00020				
Cu-T	mg/L	<0.00050							<0.00050					<0.00050				
Hard-T	mg/L	171							179					144				
Fe-T	mg/L	0.461							0.089					0.121				
Pb-T	mg/L	<0.00020							<0.00020					<0.00020				
Mg-T	mg/L	6.97							7.19					6.18				
Mn-T	mg/L	0.0154							0.0083					0.0100				
Mo-T	mg/L	<0.0010							<0.0010					<0.0010				
Ni-T	mg/L	<0.0010							<0.0010					<0.0010				
K-T	mg/L	0.599							0.535					0.466				
S-T	mg/L	52.5							51.0					38.3				
Se-T	mg/L	<0.00010							<0.00010					<0.00010				
Si-T	mg/L	3.66							2.95					3.11				
Ag-T	mg/L	<0.000020							<0.000020					<0.000020				
Na-T	mg/L	12.9							12.9					13.2				
Sr-T	mg/L	0.364							0.365					0.249				
Zn-T	mg/L	<0.0050							<0.0050					<0.0050				
Al-D	mg/L	0.0426							0.0344					0.0307				
As-D	mg/L	0.00061							0.00054					0.00073				
Ba-D	mg/L	0.0126							0.0127					0.0123				
B-D	mg/L	0.080							0.116					0.116				
Be-D	mg/L	<0.00010							<0.00010					<0.00010				
Cd-D	mg/L	<0.000010							<0.000010					<0.000010				
Ca-D	mg/L	58.6							62.2					47.9				
Cr-D	mg/L	<0.0010							<0.0010					<0.0010				
Co-D	mg/L	<0.00020							<0.00020					<0.00020				
Cu-D	mg/L	0.00044							0.00036					0.00030				
Hard-D	mg/L	176							187					144				
Fe-D	mg/L	0.247							0.0771					0.0922				
Pb-D	mg/L	<0.00020							<0.00020					0.00024				
Mg-D	mg/L	7.32							7.73					6.01				
Mn-D	mg/L	0.0159							0.0086					0.0101				
Mo-D	mg/L	<0.0010							<0.0010					<0.0010				
Ni-D	mg/L	<0.0010							<0.0010					<0.0010				
K-D	mg/L	0.622							0.610					0.504				
S-D	mg/L	53.4							56.9					43.7				
Se-D	mg/L	<0.00010							<0.00010					<0.00010				
Si-D	mg/L	3.46							3.28					3.44				
Na-D	mg/L	13.5							13.8					13.0				
Sr-D	mg/L	0.360							0.400					0.321				
Zn-D	mg/L	<0.0050							<0.0050					<0.0050				

Appendix 1 - Tables

Table 21 Seep into Long Lake 1 Page(s)

EMS ID	E292131	Stn Std	Max-WQG						
Site Description			Seep into Long Lake						
Site Name	LLS	Std Val							
Date		Max	2023-04-03	2023-05-01	2023-06-05	2023-12-27	2024-01-02	2024-02-06	2024-03-04
SG	m		0.009	0.01	0.009	0.01	0.009	0.001	0.009
pH-F	pH Units		7.36	7.36	7.37	6.96	6.81	7.56	7.23
Cond-F	uS/cm		1335	1229	1265	1068.5	1028.1	1274	1318
SO4-D	mg/L		480	540	450	480	450	480	590
TSS	mg/L		<1.0	<1.0	3.6	6.0	5.6	<1.0	<1.0
Alk-T	mg/L		190	190	180	120	140	160	200
Acidity83	mg/L		4.8	4.5	12.2	2.5	4.5	<1.0	3.2
Al-T	mg/L	< 0.0180	<0.0030	0.0043	<0.0030	0.273	0.0352	0.0115	<0.0030
As-T	mg/L		0.00193	0.00173	0.00144	0.00293	0.00119	0.00077	0.00053
Ba-T	mg/L		0.0166	0.0158	0.0150	0.0181	0.0170	0.0179	0.0175
B-T	mg/L		0.411	0.440	0.357	0.384	0.383	0.356	0.587
Cd-T	mg/L		<0.000010	<0.000010	<0.000010	0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L		197	197	178	167	163	170	226
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.11	0.00054	0.00070	0.00044	0.00201	0.00068	0.00046	0.00093
Cu-T	mg/L		<0.00050	<0.00050	<0.00050	0.00350	0.00071	<0.00050	<0.00050
Hard-T	mg/L		566	569	506	488	472	489	653
Fe-T	mg/L	1.0	0.876	0.914	0.820	1.77	0.537	0.287	0.141
Pb-T	mg/L	0.0176	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L		17.8	19.0	14.9	16.9	15.6	15.4	21.3
Mn-T	mg/L	0.8706	0.247	0.248	0.216	0.177	0.138	0.129	0.229
Mo-T	mg/L	46.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L		0.0014	0.0016	0.0012	0.0068	0.0030	0.0019	0.0020
K-T	mg/L		2.13	2.17	1.95	1.93	1.91	1.77	2.17
S-T	mg/L		180	173	151	168	154	152	200
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L		2.16	2.43	2.15	3.70	2.96	2.59	2.76
Ag-T	mg/L	0.0001	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L		67.2	67.4	53.4	52.6	51.1	52.4	72.3
Sr-T	mg/L		1.74	1.72	1.75	1.50	1.43	1.46	1.73
Zn-T	mg/L	0.033	<0.0050	<0.0050	<0.0050	0.0055	<0.0050	<0.0050	<0.0050
Al-D	mg/L		<0.0030	<0.0030	<0.0030	0.0156	0.0054	<0.0030	<0.0030
As-D	mg/L		0.00195	0.00137	0.00146	0.00050	0.00069	0.00058	0.00060
Ba-D	mg/L		0.0172	0.0165	0.0160	0.0189	0.0177	0.0193	0.0201
B-D	mg/L		0.469	0.429	0.417	0.430	0.346	0.428	0.473
Be-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		198	201	192	175	176	175	218
Cr-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L		0.00054	0.00066	0.00052	0.00188	0.00074	0.00052	0.00096
Cu-D	mg/L		0.00025	<0.00020	<0.00020	0.00044	0.00026	0.00024	<0.00020
Hard-D	mg/L		569	578	551	514	510	508	624
Fe-D	mg/L	0.35	0.799	0.743	0.903	0.175	0.301	0.107	0.138
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		18.2	18.4	17.5	18.5	16.9	17.1	19.6
Mn-D	mg/L		0.252	0.252	0.254	0.158	0.146	0.139	0.259
Mo-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0015	0.0014	0.0013	0.0069	0.0032	0.0021	0.0023
K-D	mg/L		2.18	2.22	2.19	2.15	2.03	1.99	2.35
S-D	mg/L		187	175	169	180	163	172	202
Se-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		2.41	2.45	2.26	3.50	2.85	2.90	2.99
Na-D	mg/L		67.4	65.7	61.7	56.4	55.1	57.4	69.9
Sr-D	mg/L		1.87	1.88	1.85	1.59	1.47	1.61	2.03
Zn-D	mg/L	0.033	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 22 Long Lake Middle Seep 1 Page(s)

EMS ID	E292131	Max-WQG
Site Description	Long Lake Middle Seep	
Site Name	LLSM	Std Val
Date	Max	2023-04-03 2023-05-01 2023-06-05 2024-01-02 2024-02-05 2024-03-04
Wlevel	m	0.01 0.01 0.0014 0.14 0.18 0.075
pH-F	pH Units	7.83 7.80 7.68 7.16 7.58 7.25
Cond-F	uS/cm	1135 1037 1169 807.2 1113 1034
SO4-D	mg/L	400 410 410 340 420 440
TSS	mg/L	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0
Alk-T	mg/L	160 150 170 110 140 160
Acidity83	mg/L	1.0 4.4 14.5 2.1 1.6 2.4
Al-T	mg/L	Variable 0.0104 0.0314 0.0044 0.0262 0.0167 0.0069
As-T	mg/L	0.00072 0.00052 0.00065 0.00014 0.00016 <0.00010
Ba-T	mg/L	0.0160 0.0142 0.0164 0.0165 0.0170 0.0168
B-T	mg/L	0.330 0.327 0.342 0.306 0.305 0.418
Cd-T	mg/L	<0.000010 <0.000010 <0.000010 <0.000010 <0.000010 <0.000010
Ca-T	mg/L	165 145 174 126 144 154
Cr-T	mg/L	<0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010
Co-T	mg/L	0.11 0.00039 0.00082 0.00039 <0.00020 <0.00020 <0.00020
Cu-T	mg/L	0.00058 0.00057 <0.00050 0.00075 0.00050 <0.00050
Hard-T	mg/L	479 425 497 367 417 450
Fe-T	mg/L	1.0 0.308 0.325 0.435 0.056 0.065 <0.010
Pb-T	mg/L	0.0176 <0.00020 <0.00020 <0.00020 <0.00020 <0.00020 <0.00020
Mg-T	mg/L	16.3 15.2 15.5 12.9 13.9 15.6
Mn-T	mg/L	0.8706 0.125 0.141 0.172 0.0114 0.0238 <0.0010
Mo-T	mg/L	46.0 0.0016 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010
Ni-T	mg/L	0.0018 0.0032 0.0013 0.0012 0.0013 <0.0010
K-T	mg/L	1.93 1.76 1.96 1.64 1.63 1.70
S-T	mg/L	148 130 146 119 127 132
Se-T	mg/L	<0.00010 <0.00010 <0.00010 0.00011 0.00011 <0.00010
Si-T	mg/L	2.13 2.33 2.24 2.84 2.39 2.75
Ag-T	mg/L	0.0001 <0.000020 <0.000020 <0.000020 <0.000020 <0.000020 <0.000020
Na-T	mg/L	55.1 47.7 49.1 37.6 44.2 51.2
Sr-T	mg/L	1.42 1.20 1.66 1.07 1.26 1.14
Zn-T	mg/L	0.033 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050
Al-D	mg/L	0.0035 0.0101 0.0032 0.0127 0.0104 0.0079
As-D	mg/L	0.00066 0.00052 0.00059 0.00013 0.00013 0.00019
Ba-D	mg/L	0.0161 0.0159 0.0161 0.0185 0.0185 0.0191
B-D	mg/L	0.378 0.340 0.418 0.276 0.368 0.360
Be-D	mg/L	<0.00010 <0.00010 <0.00010 <0.00010 <0.00010 <0.00010
Cd-D	mg/L	0.00017 <0.000010 <0.000010 <0.000010 <0.000010 <0.000010 <0.000010
Ca-D	mg/L	161 159 173 140 153 158
Cr-D	mg/L	<0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010
Co-D	mg/L	0.00038 0.00080 0.00043 <0.00020 0.00021 0.00021
Cu-D	mg/L	0.00036 0.00045 0.00021 0.00063 0.00048 0.00034
Hard-D	mg/L	466 463 502 408 444 461
Fe-D	mg/L	0.35 0.241 0.299 0.419 0.0212 0.0300 0.0702
Pb-D	mg/L	<0.00020 <0.00020 <0.00020 <0.00020 <0.00020 <0.00020 <0.00020
Mg-D	mg/L	15.9 15.9 17.1 14.3 14.8 16.3
Mn-D	mg/L	0.123 0.146 0.192 0.0127 0.0238 0.0434
Mo-D	mg/L	0.0012 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010
Ni-D	mg/L	0.0015 0.0026 0.0013 0.0014 0.0014 0.0010
K-D	mg/L	1.92 1.88 2.11 1.79 1.76 1.99
S-D	mg/L	154 136 155 127 141 155
Se-D	mg/L	<0.00010 <0.00010 <0.00010 0.00015 0.00011 0.00010
Si-D	mg/L	2.31 2.56 2.26 2.85 2.71 2.98
Na-D	mg/L	52.4 49.1 56.7 42.3 47.2 55.0
Sr-D	mg/L	1.49 1.39 1.64 1.14 1.36 1.50
Zn-D	mg/L	0.033 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050

Notes: LLSM was DRY from late June through to January.

Appendix 1 - Tables

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

EMS ID	E292069	PL-7S					
Site Description	Authorised Discharge Location for 7S South Mine Water						
Site Name	7SSD	Std Val					
Date		Max	2023-04-03	2023-07-10	2023-07-10	2023-11-06	2024-01-02
pH-F	pH Units	6.00 - 8.00	8.19	7.95	7.95	7.16	7.24
Cond-F	uS/cm		341	386	386	321	168.7
SO4-D	mg/L	500	20	6.7	7.0	25	11
TSS	mg/L	25	2.4	2.8	4.0	<1.0	4.0
Alk-T	mg/L		130	180	180	140	77
Acidity83	mg/L		<1.0	1.4	1.2	11.9	<1.0
DOC	mg/L		2.9	11	12	2.4	2.3
Al-T	mg/L		0.0403	0.0066	0.0055	0.0148	0.0822
As-T	mg/L		0.00216	0.0117	0.0106	0.00067	0.00058
Ba-T	mg/L		0.0064	0.0072	0.0070	0.0066	0.0045
B-T	mg/L		<0.050	0.058	0.052	<0.050	<0.050
Cd-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L		38.2	37.9	34.1	45.4	25.9
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L		0.00066	0.00056	0.00054	0.00085	0.00090
Hard-T	mg/L		132	162	148	153	85.6
Fe-T	mg/L		0.325	0.838	0.778	0.028	0.111
Pb-T	mg/L		<0.00020	<0.00020	<0.00020	0.00064	<0.00020
Mg-T	mg/L		8.92	16.4	15.4	9.60	5.11
Mn-T	mg/L		0.339	0.922	0.847	0.0405	0.0272
Mo-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L		0.348	2.38	2.20	0.532	0.258
S-T	mg/L		7.0	<3.0	<3.0	7.9	3.6
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L		4.78	14.0	12.6	5.30	5.02
Ag-T	mg/L		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L		4.51	12.1	11.1	5.45	2.54
Sr-T	mg/L		0.144	0.177	0.161	0.161	0.0891
Zn-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.1	<0.0030	0.0041	0.0040	0.0054	0.0108
As-D	mg/L		0.00183	0.0114	0.0111	0.00048	0.00040
Ba-D	mg/L		0.0056	0.0069	0.0070	0.0066	0.0040
B-D	mg/L		<0.050	0.059	0.055	<0.050	<0.050
Be-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.000045	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		39.7	40.3	40.1	44.4	26.9
Cr-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.014	0.00040	0.00049	0.00048	0.00085	0.00068
Hard-D	mg/L		138	175	175	151	89.2
Fe-D	mg/L	0.35	0.0274	0.355	0.326	0.0267	0.0209
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		9.38	18.1	18.3	9.80	5.33
Mn-D	mg/L		0.226	0.908	0.916	0.0302	0.0273
Mo-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L		0.358	2.50	2.43	0.543	0.287
S-D	mg/L		6.4	4.3	3.2	8.3	3.9
Se-D	mg/L	0.016	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		5.40	15.5	15.4	5.81	4.79
Na-D	mg/L		4.48	13.0	12.9	5.82	2.62
Sr-D	mg/L		0.149	0.202	0.202	0.154	0.0878
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 24 7 South Portal Sump 1 Page(s)

EMS ID	E292110													
Site Description	7 South Portal Sump													
Site Name	7SPS													
Date		2023-04-03	2023-05-01	2023-06-05	2023-07-10	2023-08-02	2023-09-05	2023-10-03	2023-11-06	2023-12-05	2024-01-02	2024-02-05	2024-02-21	2024-03-04
pH-F	pH Units	7.43	7.24	7.8	7.88	7.6	7.75	6.88	4.69	3.51	6.6	6.98	6.74	6.49
Cond-F	uS/cm	704	556	915	971	1132	1254	854	956	638.2	448.1	588	449	460
SO4-D	mg/L	250	230	310	370	390	410	360	520	260	150	200	170	180
TSS	mg/L	14	9.2	6.4	7.2	6.8	5.2	7.6	56	30	22	12		10
Alk-T	mg/L	96	78	140	160	160	150	70	<1.0	<1.0	43	58	53	57
Acidity83	mg/L	4.4	2.0	27.3	4.6	3.7	<1.0	3.6	202	49.6	3.1	3.5	1.9	3.2
Al-T	mg/L	0.104	0.111	0.0354	0.0163	0.0167	0.0080	0.216	4.84	2.16	0.368	0.155	0.781	0.179
As-T	mg/L	0.00069	0.00080	0.00049	0.00047	0.00047	0.00038	0.00070	0.00856	0.00400	0.00154	0.00168	0.00259	0.00056
Ba-T	mg/L	0.0120	0.0116	0.0130	0.0147	0.0144	0.0160	0.0207	0.0181	0.0125	0.0135	0.0116	0.0138	0.0095
B-T	mg/L	<0.050	0.054	0.109	0.100	0.091	0.107	0.173	0.128	0.064	0.073	0.075	<0.050	0.058
Cd-T	mg/L	0.000022	0.000016	0.000011	<0.000010	<0.000010	<0.000010	0.000042	0.000337	0.000159	0.000034	0.000024	0.000035	0.000031
Ca-T	mg/L	90.7	81.2	117	142	148	163	124	118	65.7	57.5	71.0	54.3	65.5
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0161	0.0057	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00499	0.00473	0.00238	0.00071	0.00024	<0.00020	0.00555	0.0541	0.0274	0.00527	0.00453	0.00475	0.00491
Cu-T	mg/L	0.00221	0.00249	0.00101	0.00068	0.00064	0.00066	0.00577	0.131	0.0566	0.00537	0.00322	0.00584	0.00353
Hard-T	mg/L	319	287	402	485	497	548	413	419	251	198	248	191	232
Fe-T	mg/L	6.65	5.87	4.80	4.13	2.57	1.55	1.34	77.1	22.0	5.81	5.67	3.73	4.42
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00030	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	22.4	20.5	26.6	31.4	31.0	34.5	25.0	30.4	21.1	13.2	17.3	13.4	16.6
Mn-T	mg/L	0.256	0.229	0.178	0.138	0.0370	0.0124	0.179	1.04	0.565	0.173	0.188	0.163	0.172
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0093	0.0085	0.0058	0.0035	0.0023	0.0014	0.0119	0.0896	0.0477	0.0104	0.0094	0.0098	0.0103
K-T	mg/L	0.676	0.746	0.682	1.12	1.47	1.98	1.67	1.01	0.660	0.745	0.677	0.551	0.533
S-T	mg/L	83.9	71.2	102	125	122	156	126	186	97.5	55.9	65.9	51.2	56.9
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00028	0.00014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	4.86	5.10	4.71	5.82	6.31	6.47	4.14	7.17	6.02	5.15	5.20	4.93	5.39
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	8.77	6.81	12.6	17.5	18.5	22.3	12.4	4.33	3.40	3.43	4.92	4.06	4.76
Sr-T	mg/L	0.337	0.288	0.470	0.582	0.620	0.650	0.437	0.419	0.231	0.206	0.255	0.198	0.203
Zn-T	mg/L	0.0148	0.0139	0.0061	<0.0050	<0.0050	<0.0050	0.0110	0.159	0.0775	0.0188	0.0177	0.0188	0.0184
Al-D	mg/L	0.0059	<0.0030	<0.0030	0.0031	<0.0030	0.0037	0.0112	5.55	1.77	0.0111	0.0075	0.0079	0.0240
As-D	mg/L	0.00030	0.00025	0.00023	0.00031	0.00039	0.00041	0.00018	0.00414	0.00046	0.00062	0.00094	0.00025	0.00038
Ba-D	mg/L	0.0118	0.0117	0.0128	0.0147	0.0147	0.0164	0.0215	0.0196	0.0122	0.0126	0.0119	0.0121	0.0107
B-D	mg/L	0.051	0.060	0.097	0.098	0.095	0.122	0.153	0.120	0.085	0.055	0.086	0.073	0.062
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00043	0.00022	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.000021	0.000018	<0.000010	<0.000010	<0.000010	<0.000010	0.000038	0.000339	0.000159	0.000043	0.000026	0.000023	0.000024
Ca-D	mg/L	94.4	84.2	129	156	163	162	133	116	61.7	66.5	72.0	61.5	66.6
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0165	0.0042	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00503	0.00483	0.00244	0.00062	<0.00020	<0.00020	0.00597	0.0548	0.0246	0.00724	0.00489	0.00455	0.00501
Cu-D	mg/L	0.00088	0.00087	0.00064	0.00062	0.00050	0.00061	0.00223	0.130	0.0523	0.00239	0.00149	0.00145	0.00179
Hard-D	mg/L	332	295	448	536	564	561	444	431	234	237	254	214	233
Fe-D	mg/L	2.42	1.13	0.279	0.231	0.0988	0.167	0.0472	67.5	12.2	5.68	3.70	1.38	2.49
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00030	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	23.4	20.7	30.3	35.6	37.9	38.3	27.4	34.4	19.5	17.1	18.1	14.8	16.3
Mn-D	mg/L	0.260	0.253	0.200	0.137	0.0274	0.0041	0.195	1.01	0.533	0.245	0.200	0.173	0.193
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.0091	0.0088	0.0058	0.0033	0.0022	0.0015	0.0130	0.0912	0.0454	0.0141	0.0102	0.0098	0.0107
K-D	mg/L	0.698	0.692	0.753	1.24	1.67	2.05	1.79	1.04	0.621	0.675	0.695	0.567	0.559
S-D	mg/L	91.1	76.7	112	141	157	165	141	214	93.2	71.9	72.4	58.9	63.6
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00031	0.00016	0.00010	0.00014	<0.00010	<0.00010	0.00016
Si-D	mg/L	5.27	5.13	4.96	6.26	6.77	6.72	4.27	8.25	5.66	5.20	5.55	4.83	5.59
Na-D	mg/L	9.08	6.72	13.8	19.1	23.4	24.0	13.3	4.87	3.12	4.17	5.15	4.55	4.77
Sr-D	mg/L	0.365	0.334	0.518	0.640	0.622	0.688	0.470	0.432	0.228	0.249	0.277	0.228	0.251
Zn-D	mg/L	0.0129	0.0117	<0.0050	<0.0050	<0.0050	0.0054	0.0088	0.159	0.0742	0.0242	0.0180	0.0161	0.0184

Appendix 1 - Tables

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

EMS ID		E292109 Max-WQG											
Site Description		Road Side Crossing Bridge on Stream 1 above the Lower Wetland											
Site Name		7S Std Val											
Date		Max	2023-04-03	2023-05-01	2023-06-05	2023-07-10	2023-10-10	2023-10-30	2023-11-06	2023-12-05	2024-01-02	2024-02-05	2024-03-04
SG	m		0.165	0	0	0	0	0.172	0.21	0.28	0.234	0.225	0.212
pH-F	pH Units		7.74					6.37	6.55	6.98	7.5	7.07	7
Cond-F	uS/cm		59.1					54.6	50.8	55.8	57.5	32.5	33.7
SO4-D	mg/L		3.4					4.2	3.6	2.2	2.7	1.8	2.2
TSS	mg/L		<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alk-T	mg/L		14					15	13	12	11	11	12
Acidity83	mg/L		<1.0					2	<1.0	1.6	<1.0	<1.0	<1.0
DOC	mg/L		1.3					2.8	3.0	4.3	2.6	2.2	2.0
Al-T	mg/L		0.0175					0.022	0.0316	0.0510	0.0448	0.0308	0.0218
As-T	mg/L		<0.00010					0.00013	0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Ba-T	mg/L		0.0011					0.0015	0.0015	0.0014	0.0014	0.0010	0.0012
B-T	mg/L		<0.050					<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cd-T	mg/L		<0.000010					<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L		3.90					5.25	4.96	4.52	3.70	3.53	3.26
Cr-T	mg/L		<0.0010					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.11	<0.00020					<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L		<0.00050					0.00104	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L		13.6					18.1	16.9	15.5	12.9	11.9	11.3
Fe-T	mg/L	1.0	<0.010					<0.010	<0.010	0.020	0.012	<0.010	<0.010
Pb-T	mg/L	0.0176	<0.00020					<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L		0.929					1.2	1.10	1.02	0.881	0.755	0.771
Mn-T	mg/L	0.8706	<0.0010					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-T	mg/L	46.0	<0.0010					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L		<0.0010					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L		0.073					0.069	0.079	0.079	0.092	0.076	0.073
S-T	mg/L		<3.0					<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Se-T	mg/L		<0.00010					<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L		3.53					4.62	4.58	4.57	4.31	3.82	3.92
Ag-T	mg/L	0.0001	<0.000020					<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L		1.40					1.77	1.65	1.64	1.41	1.32	1.27
Sr-T	mg/L		0.0158					0.0214	0.0193	0.0168	0.0150	0.0134	0.0125
Zn-T	mg/L	0.033	<0.0050					<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L		0.0173					0.0211	0.0320	0.0459	0.0354	0.0324	0.0249
As-D	mg/L		<0.00010					0.0002	<0.00010	0.00011	0.00013	<0.00010	<0.00010
Ba-D	mg/L		0.0012					0.0017	0.0016	0.0014	0.0013	0.0015	0.0015
B-D	mg/L		<0.050					<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Be-D	mg/L		<0.00010					<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017	<0.000010					<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000026
Ca-D	mg/L		4.26					5.73	5.00	4.25	3.68	3.79	4.16
Cr-D	mg/L		<0.0010					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L		<0.00020					<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		0.00045					0.00031	0.00041	0.00053	0.00033	0.00032	0.00031
Cu-D (Acute-WQG)	mg/L		<=0.00271					<=0.000565	<=0.00134	<=0.00236	<=0.00341	<=0.00197	<=0.0013
Hard-D	mg/L		14.8					19.9	17.2	14.8	12.8	13.0	14.0
Fe-D	mg/L	0.35	<0.0050					0.0058	0.0123	0.0118	0.0061	0.0065	0.0098
Pb-D	mg/L		<0.00020					<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		1.01					1.37	1.15	1.02	0.873	0.857	0.882
Mn-D	mg/L		<0.0010					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mo-D	mg/L		<0.0010					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010					<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L		0.077					0.074	0.078	0.081	0.098	0.077	0.073
S-D	mg/L		<3.0					<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Se-D	mg/L		<0.00010					<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		4.35					5.13	5.10	4.35	4.37	4.13	4.53
Na-D	mg/L		1.51					1.93	1.75	1.60	1.44	1.45	1.49
Sr-D	mg/L		0.0177					0.0237	0.0208	0.0167	0.0150	0.0150	0.0145
Zn-D	mg/L	0.033	<0.0050					<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 26 Discharge From Settling Pond #4 2 Page(s)

EMS ID E207409 Discharge From Settling Pond #4 (SP4/WD)												
Date	April Max. (m³/s)	April Daily (m³/s)	May Max. (m³/s)	May Daily (m³/s)	June Max. (m³/s)	June Daily (m³/s)	July Max. (m³/s)	July Daily (m³/s)	August Max. (m³/s)	August Daily (m³/s)	September Max. (m³/s)	September Daily (m³/s)
1	0.1320	0.1186	0.2290	0.2161	0.1140	0.0910	0.0730	0.0540	NF	NF	0.0560	0.0470
2	0.1300	0.1222	0.2060	0.1913	0.1010	0.0894	0.0670	0.0370	NF	NF	0.0560	0.0480
3	0.1310	0.0871	0.1830	0.1675	0.1010	0.0895	0.0680	0.0460	NF	NF	0.0570	0.0500
4	0.1290	0.0951	0.1590	0.1473	0.1030	0.0887	0.0470	0.0360	NF	NF	0.0590	0.0470
5	0.1350	0.1300	0.1530	0.1435	0.1030	0.0885	0.0480	0.0340	NF	NF	0.0550	0.0480
6	0.1300	0.1212	0.1490	0.0800	0.1040	0.0889	0.0480	0.0360	NF	NF	0.0550	0.0510
7	0.1170	0.0833	0.1340	0.1021	0.1060	0.0866	0.0440	0.0300	NF	NF	0.0540	0.0450
8	0.1320	0.0989	0.1560	0.1478	0.1000	0.0835	0.0300	0.0190	NF	NF	0.0540	0.0440
9	0.0800	0.0435	0.1670	0.1580	0.1020	0.0926	0.0240	0.0140	NF	NF	0.0520	0.0430
10	0.1100	0.0905	0.1660	0.1556	0.1030	0.0915	0.0170	0.0100	NF	NF	0.0540	0.0480
11	0.1250	0.1065	0.1570	0.1483	0.0990	0.0855	0.0120	0.0040	NF	NF	0.0540	0.0470
12	0.1170	0.0848	0.1530	0.1420	0.1050	0.0905	NF	NF	NF	NF	0.0540	0.0510
13	0.1270	0.1005	0.1580	0.1429	0.1030	0.0908	NF	NF	NF	NF	0.0520	0.0460
14	0.0950	0.0828	0.1580	0.1467	0.0850	0.0672	NF	NF	NF	NF	0.0510	0.0370
15	0.1080	0.0966	0.1710	0.1540	0.0820	0.0776	NF	NF	NF	NF	0.0310	0.0150
16	0.1020	0.0897	0.1540	0.1397	0.0920	0.0831	NF	NF	NF	NF	0.0160	0.0090
17	0.1190	0.0986	0.1450	0.1317	0.0910	0.0820	NF	NF	NF	NF	0.0120	0.0090
18	0.0980	0.0831	0.1430	0.1318	0.0920	0.0838	NF	NF	NF	NF	0.0120	0.0050
19	0.1180	0.1040	0.1460	0.1352	0.0990	0.0870	NF	NF	0.0360	0.0030	0.0130	0.0070
20	0.1300	0.1073	0.1510	0.1392	0.0860	0.0785	NF	NF	0.0730	0.0610	0.0130	0.0070
21	0.1310	0.1183	0.1520	0.1454	0.0850	0.0799	NF	NF	0.0730	0.0640	0.0080	0.0040
22	0.1370	0.1319	0.1650	0.1545	0.0860	0.0785	NF	NF	0.0720	0.0660	0.0060	0.0030
23	0.1410	0.1340	0.1710	0.1546	0.0840	0.0733	NF	NF	0.0740	0.0710	0.0040	0.0030
24	0.1550	0.1340	0.1390	0.1266	0.0650	0.0476	NF	NF	0.0740	0.0660	0.0070	0.0020
25	0.1690	0.1590	0.1290	0.1031	0.0790	0.0690	NF	NF	0.0730	0.0660	0.0080	0.0050
26	0.1850	0.1765	0.1210	0.1049	0.0830	0.0743	NF	NF	0.0720	0.0650	0.0070	0.0050
27	0.2060	0.1819	0.1220	0.1084	0.0830	0.0778	NF	NF	0.0730	0.0660	0.0050	0.0030
28	0.2190	0.2146	0.1180	0.1016	0.0840	0.0764	NF	NF	0.0740	0.0590	0.0190	0.0110
29	0.2280	0.2246	0.1120	0.0964	0.0830	0.0783	NF	NF	0.0600	0.0570	0.0230	0.0150
30	0.2290	0.2275	0.1100	0.0935	0.0820	0.0747	NF	NF	0.0590	0.0510	0.0250	0.0160
31			0.1070	0.0932			NF	NF	0.0580	0.0520		
Monthly Max	0.2290		0.2290		0.1140		0.0730		0.0740		0.0590	
Monthly Avg	0.1216		0.1356		0.0815		0.0291		0.0575		0.0257	
TSS is required weekly when max daily flow > 0.054 m³/s							TSS is required weekly when max daily flow > 0.054 m³/s					
NF= No Flow PNC= Permit Non-compliance All flow data is subject to review							NF= No Flow PNC= Permit Non-compliance All flow data is subject to review					

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

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

Table 26 Discharge From Settling Pond #4 2 Page(s)

EMS ID E207409 Discharge From Settling Pond #4 (SP4/WD)												
Date	October Max. (m3/s)	October Daily (m3/s)	November Max. (m3/s)	November Daily (m3/s)	December Max. (m3/s)	December Daily (m3/s)	January Max. (m3/s)	January Daily (m3/s)	February Max. (m3/s)	February Daily (m3/s)	March Max. (m3/s)	March Daily (m3/s)
1	0.0250	0.0180	0.0640	0.0540	0.1290	0.1150	0.164	0.159	0.2020	0.1990	0.0970	0.0870
2	0.0310	0.0250	0.0680	0.0630	0.1330	0.1220	0.164	0.152	0.2000	0.1890	0.0980	0.0880
3	0.0280	0.0190	0.0660	0.0600	0.1300	0.1150	0.152	0.141	0.1830	0.1780	0.0980	0.0890
4	0.0250	0.0200	0.0690	0.0660	0.1200	0.0980	0.142	0.132	0.1710	0.1620	0.0910	0.0810
5	0.0240	0.0190	0.0660	0.0610	0.1380	0.0830	0.145	0.136	0.1560	0.1500	0.1150	0.0900
6	0.0240	0.0160	0.0620	0.0540	0.1450	0.1360	0.145	0.137	0.1490	0.1410	0.1320	0.1200
7	0.0240	0.0160	0.0830	0.0600	0.1340	0.1280	0.138	0.121	0.1430	0.1370	0.1320	0.1270
8	0.0240	0.0150	0.0970	0.0810	0.1290	0.1170	0.163	0.152	0.1390	0.1010	0.1430	0.1320
9	0.0360	0.0170	0.0780	0.0710	0.1300	0.1150	0.131	0.063	0.1300	0.1090	0.1460	0.1420
10	0.0390	0.0320	0.0800	0.0670	0.1310	0.1220	0.141	0.129	0.1320	0.1280	0.1540	0.1470
11	0.0300	0.0190	0.0860	0.0760	0.1310	0.1240	0.133	0.126	0.1360	0.1330	0.1530	0.1410
12	0.0270	0.0210	0.1130	0.0730	0.1300	0.1220	0.132	0.118	0.1380	0.1280	0.1390	0.1050
13	0.0150	0.0090	0.1160	0.0960	0.1350	0.1300	0.123	0.104	0.1340	0.1250	0.1410	0.1360
14	0.0080	0.0060	0.1120	0.0930	0.1370	0.1290	0.116	0.093	0.1320	0.1220	0.1390	0.1320
15	0.0080	0.0050	0.1130	0.1000	0.1310	0.1260	0.104	0.093	0.1320	0.1190	0.1370	0.1290
16	0.0110	0.008	0.1030	0.0880	0.1300	0.1270	0.105	0.093	0.1290	0.1090	0.1330	0.1210
17	0.0100	0.0070	0.0900	0.0830	0.1310	0.1240	0.117	0.098	0.1250	0.1110	0.1310	0.1160
18	0.0160	0.0140	0.0890	0.0850	0.1370	0.1320	0.106	0.094	0.1240	0.1080	0.1350	0.1230
19	0.0240	0.0130	0.0890	0.0790	0.1410	0.1280	0.128	0.109	0.1150	0.0990	0.1350	0.1270
20	0.0450	0.0330	0.0790	0.0740	0.1310	0.1290	0.13	0.111	0.1190	0.1050	0.1330	0.1300
21	0.0480	0.0430	0.0890	0.0800	0.1380	0.1330	0.129	0.114	0.1360	0.1230	0.1320	0.1270
22	0.0470	0.0410	0.0820	0.0690	0.1450	0.1390	0.129	0.112	0.1300	0.1170	0.1310	0.1260
23	0.0480	0.0400	0.0620	0.0490	0.1380	0.1250	0.127	0.109	0.1290	0.1130	0.1320	0.1250
24	0.0520	0.0460	0.0780	0.0660	0.1200	0.1080	0.15	0.138	0.1250	0.1100	0.1310	0.1150
25	0.0480	0.0380	0.0780	0.0710	0.1590	0.1390	0.157	0.151	0.1260	0.1120	0.1290	0.1180
26	0.0470	0.0370	0.0800	0.0720	0.1800	0.1540	0.153	0.147	0.1370	0.1240	0.1300	0.1120
27	0.0460	0.0360	0.0770	0.0700	0.2020	0.1940	0.161	0.157	0.1330	0.1250	0.1290	0.1140
28	0.0430	0.0360	0.0770	0.0720	0.2190	0.1980	0.165	0.16	0.1010	0.0930	0.1320	0.1180
29	0.0430	0.0350	0.1100	0.0830	0.2320	0.2000	0.191	0.173	0.1010	0.0880	0.1380	0.1330
30	0.0470	0.0400	0.1250	0.1080	0.2320	0.1820	0.194	0.182			0.1360	0.1290
31	0.0560	0.0470			0.1880	0.1680	0.195	0.184			0.1320	0.1200
Monthly Max	0.0560		0.1250		0.2320		0.1950		0.2020		0.1540	
Monthly Avg		0.0249		0.0741		0.1343		0.1286		0.1261		0.1194
TSS is required weekly when max daily flow > 0.054 m ³ /s							TSS is required weekly when max daily flow > 0.054 m ³ /s					
NF= No Flow PNC= Permit Non-compliance All flow data is subject to review							NF= No Flow PNC= Permit Non-compliance All flow data is subject to review					

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

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

Table 27 Discharge From Settling Pond #1 2 Page(s)

EMS ID E218582												
Discharge From Settling Pond #1 (SP1/SPD)												
Date	April	April	May	May	June	June	July	July	August	August	September	September
	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)
1	0.0534	0.0351	0.0160	0.0094	0.0091	0.0045	0.0091	0.0000	NF	NF	0.0250	0.0091
2	0.0639	0.0568	0.0160	0.0079	0.0091	0.0031	0.0341	0.0032	NF	NF	0.0091	0.0032
3	0.0639	0.0433	0.0534	0.0222	0.0443	0.0105	0.0341	0.0091	NF	NF	0.0091	0.0000
4	0.0250	0.0114	0.0443	0.0195	0.0443	0.0181	0.0091	0.0000	NF	NF	0.1279	0.0000
5	0.0250	0.0119	0.0160	0.0161	0.0091	0.0052	0.0091	0.0000	NF	NF	0.1970	0.0000
6	0.0341	0.0262	0.0250	0.0194	0.0341	0.0104	0.0341	0.0032	NF	NF	NF	NF
7	0.0091	0.0055	0.0443	0.0277	0.0443	0.0268	0.0250	0.0091	NF	NF	NF	NF
8	0.0250	0.0085	0.0639	0.0261	0.0160	0.0073	0.0091	0.0032	NF	NF	0.0341	0.0160
9	0.0639	0.0398	0.0639	0.0487	0.0250	0.0068	0.0032	0.0000	NF	NF	0.0160	0.0032
10	0.0639	0.0569	0.0250	0.0169	0.0341	0.0229	0.0032	0.0000	NF	NF	0.0091	0.0032
11	0.0639	0.0457	0.0443	0.0184	0.0160	0.0075	NF	NF	NF	NF	0.0091	0.0032
12	0.0341	0.0225	0.0534	0.0349	0.0091	0.0041	NF	NF	NF	NF	0.0250	0.0000
13	0.0250	0.0140	0.0534	0.0441	0.0091	0.0029	NF	NF	NF	NF	NF	NF
14	0.0091	0.0074	0.0534	0.0325	0.0032	0.0016	NF	NF	NF	NF	0.0250	0.0091
15	0.0160	0.0075	0.0160	0.0113	0.0160	0.0073	NF	NF	NF	NF	0.0160	0.0032
16	0.0443	0.0277	0.0443	0.0261	0.0160	0.0103	NF	NF	NF	NF	0.0032	0.0000
17	0.0250	0.0155	0.0341	0.0159	0.0160	0.0062	NF	NF	NF	NF	0.0032	0.0000
18	0.0764	0.0414	0.0160	0.0085	0.0091	0.0039	NF	NF	NF	NF	NF	NF
19	0.0764	0.0559	0.0091	0.0059	0.0032	0.0028	NF	NF	NF	NF	0.0032	0.0000
20	0.0534	0.0469	0.0091	0.0045	0.0032	0.0020	NF	NF	NF	NF	0.0341	0.0091
21	0.0764	0.0535	0.0443	0.0187	0.0032	0.0011	NF	NF	NF	NF	0.0250	0.0032
22	0.0639	0.0524	0.0341	0.0154	0.0000	0.0004	NF	NF	NF	NF	0.0091	0.0000
23	0.0534	0.0454	0.0160	0.0092	0.0000	0.0000	NF	NF	NF	NF	0.0032	0.0000
24	0.0639	0.0532	0.0160	0.0070	0.0250	0.0139	NF	NF	NF	NF	0.0091	0.0000
25	0.0443	0.0219	0.0091	0.0047	0.0160	0.0060	NF	NF	NF	NF	0.0091	0.0032
26	0.0160	0.0157	0.0091	0.0036	0.0091	0.0036	NF	NF	NF	NF	0.0443	0.0160
27	0.0534	0.0240	0.0443	0.0109	0.0032	0.0019	NF	NF	NF	NF	0.0534	0.0443
28	0.0534	0.0226	0.0443	0.0243	0.0160	0.0037	NF	NF	NF	NF	0.0534	0.0443
29	0.0250	0.0200	0.0443	0.0173	0.0341	0.0182	NF	NF	NF	NF	0.0534	0.0250
30	0.0250	0.0146	0.0443	0.0299	0.0160	0.0056	NF	NF	NF	NF	0.0160	0.0032
31			0.0160	0.0089	PNC	PNC	NF	NF	0.0250	0.0000		
Monthly Max	0.0764		0.0639		0.0443		0.0341		0.0250		0.1970	
Monthly Avg		0.0301		0.0183		0.0073		0.0028		0.0000		0.0076
PNC = Permit Non-compliance												
TSS is required weekly when max daily flow > 0.046m ³ /s												
NF= No Flow All flow data is subject to review												

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

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

Table 27 Discharge From Settling Pond #1 2 Page(s)

EMS ID E218582													
Discharge From Settling Pond #1 (SP1/SPD)													
Date	October	October	November	November	December	December	January	January	February	February	March	March	
	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	
1	0.0032	0.0025	0.0091	0.0055	0.0639	0.0534	0.0877	0.0764	0.1088	0.0877	0.0639	0.0443	
2	0.0341	0.0114	0.0160	0.0131	0.0639	0.0344	0.0764	0.0639	0.0877	0.0639	0.0764	0.0534	
3	0.0341	0.0316	0.0443	0.0306	0.0250	0.0218	0.0764	0.0639	0.0639	0.0534	0.0534	0.0443	
4	0.0341	0.0332	0.0443	0.0322	0.0764	0.0380	0.0764	0.0534	0.0639	0.0443	0.0443	0.0160	
5	0.0534	0.0360	0.0443	0.0316	0.0989	0.0949	0.0764	0.0534	0.0639	0.0443	0.0534	0.0250	
6	0.0534	0.0331	0.0534	0.0452	0.1970	0.0744	0.0764	0.0534	0.0534	0.0443	0.0639	0.0443	
7	0.0160	0.0066	0.0534	0.0490	0.1970	0.1481	0.0534	0.0443	0.0534	0.0250	0.0639	0.0443	
8	0.0032	0.0032	0.0534	0.0325	0.1970	0.1624	0.0534	0.0341	0.0341	0.0160	0.0534	0.0341	
9	0.0091	0.0035	0.0160	0.0152	0.0877	0.0691	0.0534	0.0250	0.0443	0.0160	0.0639	0.0443	
10	0.0091	0.0048	0.0534	0.0177	0.0443	0.0346	0.0534	0.0341	0.0443	0.0341	0.0989	0.0639	
11	0.0341	0.0113	0.0764	0.0680	0.0534	0.0339	0.0639	0.0534	0.0443	0.0341	0.0877	0.0764	
12	0.0341	0.0147	0.0989	0.0611	0.0534	0.0286	0.0639	0.0443	0.0341	0.0160	0.0989	0.0764	
13	0.0250	0.0086	0.1088	0.0929	0.0341	0.0202	0.0639	0.0443	0.0250	0.0091	0.0764	0.0639	
14	0.0341	0.0258	0.0877	0.0769	0.0341	0.0303	0.0639	0.0534	0.0341	0.0160	0.0764	0.0534	
15	0.0160	0.0070	0.0877	0.0710	0.0341	0.0294	0.0534	0.0443	0.0160	0.0032	0.0764	0.0443	
16	0.0160	0.0091	0.0534	0.0366	0.0764	0.0463	0.0160	0.0091	0.0534	0.0160	0.0764	0.0443	
17	0.0443	0.0150	0.0534	0.0347	0.0639	0.0659	0.0160	0.0032	0.0639	0.0443	0.0443	0.0160	
18	0.0534	0.0302	0.0639	0.0449	0.0639	0.0566	0.0341	0.0091	0.0639	0.0443	0.0534	0.0160	
19	0.0341	0.0209	0.0250	0.0239	0.0639	0.0561	0.0250	0.0091	0.0341	0.0160	0.0639	0.0250	
20	0.0534	0.0369	0.0639	0.0287	0.0443	0.0334	0.0250	0.0091	0.0250	0.0091	0.0534	0.0443	
21	0.0534	0.0408	0.0764	0.0650	0.0639	0.0483	0.0091	0.0032	0.0639	0.0341	0.0534	0.0443	
22	0.0160	0.0080	0.0639	0.0554	0.0639	0.0346	0.0341	0.0160	0.0341	0.0250	0.0341	0.0250	
23	0.0091	0.0038	0.0534	0.0449	0.0639	0.0494	0.0534	0.0250	0.0534	0.0341	0.0250	0.0091	
24	0.0160	0.0079	0.0534	0.0315	0.0639	0.0505	0.0877	0.0534	0.0443	0.0250	0.0341	0.0160	
25	0.0091	0.0058	0.0534	0.0352	0.1816	0.0915	0.0764	0.0639	0.0534	0.0250	0.0250	0.0091	
26	0.0341	0.0118	0.0443	0.0279	0.1816	0.1470	0.0764	0.0534	0.0639	0.0443	0.0443	0.0160	
27	0.0443	0.0204	0.0443	0.0292	0.1816	0.1206	0.0639	0.0534	0.0534	0.0443	0.0443	0.0250	
28	0.0250	0.0087	0.0341	0.0267	0.1970	0.1726	0.0764	0.0443	0.0764	0.0639	0.0639	0.0443	
29	0.0341	0.0300	0.0443	0.0242	0.1279	0.1133	0.1088	0.0989	0.0639	0.0443	0.0877	0.0639	
30	0.0250	0.0100	0.0534	0.0495	0.1088	0.0990	0.1185	0.0989			0.1970	0.0639	
31	0.0091	0.0054			0.0877	0.0858	0.1185	0.0989					
Monthly Max	0.0534		0.109		0.1970		0.119		0.1088		0.197		
Monthly Avg		0.016		0.040		0.069		0.045		0.034		0.040	
PNC = Permit Non-compliance													
TSS is required weekly when max daily flow > 0.046m ³ /s													
NF= No Flow All flow data is subject to revisions													

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

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

Table 28 Discharge From 7 South Surface 1 Page(s)

EMS ID E292069												
Discharge From 7 South Surface Decant Pond (7SSD)												
	April	May	June	July	August	September	October	November	December	January	February	March
	Daily Average L/S			Daily Average L/S			Daily Average L/S			Daily Average L/S		
Date												
1	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
2	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
3	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
4	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
5	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
6	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
7	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
8	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
9	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
10	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
11	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
12	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
13	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
14	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
15	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
16	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
17	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
18	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
19	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
20	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
21	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
22	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
23	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
24	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
25	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
26	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
27	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
28	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
29	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF		NF
30	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF		NF
31	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF		NF
Monthly Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Annual Avg	0.000											
Cummulative Daily Totalizer Value												
For Maximum Decant Flow (5.00 L/s)												
No Flow = NF												

Appendix 1 - Tables

Table 29 2S Inflow and Outflow 1 Page(s)

EMS ID: E292127 2-South Pit Inflow													EMS ID: E292127 2-South Pit Outflow												
2S Inflow													2S Outflow Culvert into 3S Pit												
Date	April Q (L/s)	May Q (L/s)	June Q (L/s)	July Q (L/s)	August Q (L/s)	September Q (L/s)	October Q (L/s)	November Q (L/s)	December Q (L/s)	January Q (L/s)	February Q (L/s)	March Q (L/s)	Date	April Q (L/s)	May Q (L/s)	June Q (L/s)	July Q (L/s)	August Q (L/s)	September Q (L/s)	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	16.223	14.376	21.33	16.53	4.87	3.07	12.566	5.888	0.000	19.602	30.257	20.207	1	4.995	5.335	4.096	6.90	4.123	5.33	3.256	4.245	5.769	20.541	26.251	7.913
2	15.901	17.705	20.94	16.16	6.32	3.50	14.302	4.469	1.169	14.762	25.317	17.607	2	4.802	5.157	4.160	6.73	3.460	4.91	3.805	5.155	5.995	16.747	22.677	8.174
3	19.204	17.373	20.16	15.99	7.76	6.92	27.956	11.326	7.304	10.040	21.515	15.471	3	4.771	5.140	4.089	6.63	2.982	4.81	3.209	4.952	5.818	14.344	18.277	7.975
4	22.050	17.242	19.55	14.89	8.19	14.06	11.885	19.574	10.476	9.193	18.652	16.375	4	4.637	5.156	3.953	6.52	2.873	4.90	3.302	6.092	5.901	12.068	14.935	7.732
5	20.554	19.749	14.33	14.20	8.11	7.85	11.684	0.475	7.664	9.328	14.190	18.313	5	5.075	6.065	3.813	6.35	2.811	5.00	3.087	6.653	11.569	10.848	12.958	7.151
6	21.220	13.422	9.00	14.04	8.30	8.19	11.049	0.767	6.140	9.529	7.031	17.628	6	5.233	6.198	3.615	6.22	2.972	5.67	2.962	7.043	11.643	10.210	10.704	7.207
7	19.744	17.682	9.19	2.45	8.32	36.91	6.863	12.334	8.351	8.452	7.309	16.348	7	5.036	5.812	3.544	6.08	3.013	5.49	2.981	7.065	11.087	9.267	9.427	6.727
8	19.343	15.316	9.50	0.27	11.75	14.15	2.766	6.395	36.776	13.471	17.341	18.222	8	5.020	5.795	3.386	6.05	3.623	5.30	3.324	7.400	10.006	8.856	8.692	7.107
9	26.594	15.433	10.29	16.10	14.27	6.83	3.479	9.289	9.700	24.561	21.051	30.310	9	6.090	5.790	3.754	5.97	5.976	5.17	3.349	7.520	9.345	9.310	7.955	8.470
10	22.862	11.559	11.11	14.37	13.60	5.16	5.020	11.727	21.452	19.319	19.439	39.095	10	6.042	5.759	3.778	6.00	6.674	5.59	3.603	7.899	8.924	9.143	7.559	10.654
11	18.282	10.733	11.12	13.24	13.71	3.76	14.052	18.094	61.788	18.680	22.525	33.759	11	5.981	5.712	3.475	5.93	6.112	5.88	3.236	11.298	8.251	9.194	7.720	12.587
12	11.134	10.630	11.48	12.11	13.60	7.74	12.288	5.136	44.524	14.457	20.295	33.606	12	5.473	5.456	3.394	5.69	5.667	6.82	3.516	14.755	7.923	8.706	7.670	13.522
13	14.195	10.126	14.49	13.19	13.08	12.43	9.267	11.754	13.734	13.532	12.748	28.282	13	5.423	5.165	3.487	5.48	5.278	6.16	3.430	18.043	7.801	8.226	6.959	12.168
14	20.059	9.467	16.63	12.90	12.42	12.19	5.680	12.220	27.209	14.035	9.203	22.558	14	5.574	4.924	3.459	5.25	5.221	5.63	3.521	17.077	8.776	7.742	6.874	11.431
15	18.560	14.680	16.56	12.53	11.42	12.48	14.935	21.691	24.937	16.128	9.052	19.592	15	5.833	4.824	3.858	5.13	4.848	5.40	3.477	15.126	8.886	7.380	6.731	10.022
16	17.733	13.048	16.50	12.41	9.01	15.30	14.370	29.733	36.936	17.942	7.430	17.498	16	5.678	4.763	3.692	5.10	4.386	5.50	4.140	12.870	9.227	6.902	6.516	8.934
17	20.530	19.184	15.54	8.22	11.08	13.43	13.660	12.769	28.044	15.822	7.121	15.529	17	6.979	4.900	3.542	4.84	4.298	5.60	4.172	11.092	9.046	6.838	6.723	8.226
18	18.475	15.472	15.36	4.24	7.37	13.57	20.104	1.935	0.199	12.451	7.036	15.419	18	7.130	4.885	3.683	3.82	4.308	5.41	5.643	9.779	9.132	6.577	6.669	7.574
19	23.846	10.569	14.28	3.95	4.20	13.39	16.030	33.509	0.000	12.732	6.645	16.533	19	7.502	4.567	3.746	3.20	4.000	6.20	5.540	8.850	9.578	6.462	6.430	7.031
20	23.876	9.965	13.10	3.13	3.91	13.90	9.913	12.702	9.086	13.415	8.743	16.168	20	8.785	4.361	3.413	3.09	4.278	6.50	4.603	7.912	10.055	6.277	5.930	6.911
21	23.723	10.021	13.32	3.27	1.73	11.86	2.971	16.812	22.648	14.198	29.659	17.653	21	9.100	4.612	3.457	3.03	4.415	5.20	4.352	7.474	10.266	6.026	6.945	6.973
22	20.601	10.078	13.59	3.46	1.53	12.03	1.986	39.166	21.053	17.864	28.380	23.875	22	9.317	4.319	3.898	3.19	4.565	5.03	3.845	7.642	10.183	6.156	7.142	6.471
23	20.878	10.051	14.06	3.73	9.31	7.88	10.858	44.450	28.372	23.431	24.694	24.132	23	8.873	4.448	5.066	3.30	5.428	5.56	3.951	6.982	9.602	6.192	7.419	6.641
24	16.963	10.082	14.11	6.08	6.25	10.63	5.992	74.546	8.520	27.662	22.054	20.304	24	8.083	4.088	5.496	3.38	5.151	6.08	4.735	6.753	8.991	6.793	7.360	5.943
25	11.263	9.960	13.95	12.66	5.13	3.95	12.112	61.852	5.222	24.079	21.108	10.962	25	7.595	4.053	5.460	3.30	5.047	9.45	4.075	6.696	8.759	8.752	7.566	5.711
26	12.610	9.930	13.71	14.74	8.08	1.45	27.730	44.537	31.118	19.476	18.733	4.632	26	7.422	3.998	5.420	3.00	4.762	8.17	3.902	6.486	26.593	9.684	7.368	5.961
27	11.933	10.091	13.63	14.19	14.57	0.11	43.282	44.848	6.171	21.054	15.011	5.251	27	6.460	3.953	5.482	2.95	4.653	3.93	3.900	6.291	27.145	10.719	7.164	5.529
28	11.475	9.854	14.77	13.40	30.77	2.07	75.654	32.769	29.737	20.471	26.426	9.662	28	6.135	3.843	5.566	2.98	4.859	3.33	4.006	6.213	42.330	11.279	7.334	5.712
29	11.452	11.880	16.75	12.95	31.88	4.68	43.973	8.772	46.451	35.090	28.423	23.163	29	5.933	3.869	6.587	3.16	5.701	3.07	4.064	5.996	55.064	13.581	8.081	6.655
30	11.433	17.111	16.48	12.31	8.41	11.31	19.342	0.455	96.190	34.245		20.050	30	5.911	4.051	7.004	3.72	5.877	3.01	4.001	5.858	37.551	20.938	7.913	6.310
31		16.93		9.50	4.52		9.398		77.265	40.627		15.533	31		4.188		4.56	6.458		4.048		26.908	24.340	8.174	6.455

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

Water Level			
EMS ID:		E292131	
Site		LLS	
		Water Level (m)	
Weeks	Level (m)	Weeks	Level
1	0.010	32	NF
2	0.010	33	NF
3	0.010	34	NF
4	0.010	35	NF
5	0.010	36	NF
6	0.010	37	NF
7	0.010	38	NF
8	0.010	39	0.009
9	0.010	40	0.001
10	0.009	41	0.001
11	0.009	42	0.001
12	0.009	43	0.001
13	0.009	44	0.001
14	NF	45	0.009
15	NF	46	0.009
16	NF	47	0.009
17	NF	48	0.009
18	NF	49	0.009
19	NF	50	0.009
20	NF	51	0.009
21	NF	52	0.009
22	NF		
23	NF		
24	NF		
25	NF		
26	NF		
27	NF		
28	NF		
29	NF		
30	NF		
31	NF		
Notes: No flow = NF. Flow rates were extremely low throughout 2023-24, mostly not reaching the lake.			

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

Weekly Flow Requirements (L/s)												
EMS ID:		E292131										
Site		LLSM										
Flow (L/s)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	6.500	20.275	4.837
2	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	10.421	21.351	4.818
3	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	9.925	20.158	4.797
4	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	9.577	17.252	3.673
5	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	8.442	16.994	
6	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	7.403	15.828	2.241
7	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	7.125	13.228	2.271
8	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	6.500	12.456	
9	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	6.500	11.467	2.386
10	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	6.500	9.851	3.004
11	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	6.101	9.201	0.749
12	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	4.909	8.428	5.269
13	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	4.690	8.475	5.347
14	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	4.319	7.054	5.908
15	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	3.851	4.537	5.908
16	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	3.787	6.500	5.567
17	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	4.427	6.500	5.347
18	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	4.319	5.855	5.347
19	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	3.830		5.091
20	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	2.961	4.788	3.556
21	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	2.624	4.891	
22	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	2.204		
23	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	1.555		2.944
24	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	1.706	5.908	2.624
25	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	2.309	5.908	2.309
26	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	2.624		2.134
27	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	3.413		1.745
28	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	4.319	4.761	
29	0.078	0.078	NF	NF	NF	NF	NF	NF	NF	9.501	4.835	1.376
30	0.078	NF	NF	NF	NF	NF	NF	NF	NF	10.526		1.376
31		NF		NF	NF		NF	NF	NF	17.619		1.494
Notes: No flow = NF												

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

Continuous Flow Requirements (L/s)												
EMS ID: E292109												
Site 75												
Flow (L/s)	Estimated Flow											
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.86	1.03	NF	NF	NF	NF	NF	0.40	0.00	5.52	13.31	3.74
2	0.86	0.88	NF	NF	NF	NF	NF	0.85	0.00	4.37	6.01	3.34
3	0.84	0.76	NF	NF	NF	NF	0.14	4.11	0.39	3.80	4.71	3.06
4	0.76	0.65	NF	NF	NF	NF	NF	11.04	1.01	3.38	4.60	2.86
5	0.78	1.06	NF	NF	NF	NF	NF	0.03	2.70	4.04	3.08	2.55
6	1.74	0.50	NF	NF	NF	NF	NF	0.03	1.42	3.08	2.69	2.20
7	2.50	1.64	NF	NF	NF	NF	NF	5.44	1.34	2.87	1.88	1.98
8	1.91	1.34	NF	NF	NF	NF	NF	2.32	27.43	3.19	1.70	2.65
9	5.81	1.13	NF	NF	NF	NF	NF	3.67	1.90	6.25	1.44	11.99
10	12.06	1.09	NF	NF	NF	NF	NF	4.05	14.96	6.78	1.56	23.33
11	7.36	0.90	NF	NF	NF	NF	NF	7.35	160.41	5.48	3.46	11.55
12	5.17	0.73	NF	NF	NF	NF	NF	1.48	68.58	6.08	4.81	9.67
13	3.60	0.61	NF	NF	NF	NF	NF	9.07	3.73	5.47	4.60	5.53
14	3.06	0.49	NF	NF	NF	NF	NF	7.39	27.18	3.23	2.18	3.77
15	2.24	0.35	NF	NF	NF	NF	NF	4.71	23.57	2.87	2.33	2.86
16	2.13	0.05	NF	NF	NF	NF	NF	11.56	42.00	2.84	2.25	1.95
17	4.61	0.24	NF	NF	NF	NF	NF	2.76	23.25	1.69	1.89	1.43
18	18.00	0.17	NF	NF	NF	NF	0.25	0.06	0.03	1.52	1.34	1.26
19	14.08	0.15	NF	NF	NF	NF	2.00	4.54	0.00	1.50	1.17	1.08
20	20.49	0.13	NF	NF	NF	NF	0.47	1.70	4.47	1.59	0.96	0.91
21	26.55	0.10	NF	NF	NF	NF	0.03	1.99	6.92	1.62	3.01	0.67
22	13.21	0.09	NF	NF	NF	NF	0.01	17.95	6.31	3.94	3.56	0.81
23	7.52	0.07	NF	NF	NF	NF	0.34	7.41	23.17	8.53	3.45	0.70
24	4.09	0.04	NF	NF	NF	NF	0.06	54.67	1.45	37.61	2.74	0.67
25	3.24	0.02	NF	NF	NF	NF	0.64	30.97	0.62	19.72	2.39	0.68
26	2.76	0.01	NF	NF	NF	NF	21.83	12.49	97.21	12.00	1.89	0.89
27	2.62	0.01	NF	NF	NF	NF	28.81	19.67	2.24	14.72	2.10	1.32
28	2.00	NF	NF	NF	NF	NF	118.02	16.56	115.25	10.97	2.95	2.10
29	1.59	NF	NF	NF	NF	NF	31.95	0.82	51.45	29.44	4.3162	23.20
30	1.16	NF	NF	NF	NF	NF	5.19	0.00	228.53	29.19		8.65
31		NF		NF	NF		0.98		158.50	51.70		3.80
Notes: No flow = NF												

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements												
EMS ID: 126402												
Site WA												
Flow (m ³ /s)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	2.17	1.75	1.35	0.72	0.52	0.76	0.99	1.02	0.65	13.776	7.930	2.470
2	2.18	1.33	1.36	0.73	0.53	0.76	1.07	0.83	0.65	10.051	25.000	2.270
3	2.18	1.32	1.36	0.74	0.53	0.76	1.08	0.84	0.65	8.355	28.000	2.240
4	2.18	1.32	1.36	0.74	0.53	0.76	1.16	0.89	0.68	15.000	29.400	2.240
5	2.18	1.23	1.36	0.73	0.53	0.76	1.14	0.88	0.72	11.000	22.300	2.250
6	2.18	1.05	1.36	0.73	0.53	0.76	1.10	0.87	0.69	8.510	16.600	2.240
7	2.18	1.13	1.36	0.73	0.53	0.76	1.07	0.88	0.68	6.760	12.300	2.230
8	2.17	1.14	1.36	0.73	0.62	0.75	1.06	0.88	0.66	5.710	9.280	2.220
9	2.20	1.15	1.36	0.73	0.71	0.75	1.06	0.86	0.66	5.100	7.130	2.210
10	2.22	1.16	1.36	0.73	0.73	0.75	1.09	0.87	0.66	4.450	5.690	2.200
11	2.22	1.17	1.36	0.73	0.75	0.76	1.05	0.99	0.66	3.510	4.740	2.190
12	2.21	1.40	1.37	0.73	0.78	0.76	1.06	1.02	0.66	2.880	4.100	2.210
13	2.20	1.44	1.33	0.73	0.78	0.75	1.02	1.01	0.66	2.670	3.790	2.240
14	2.20	1.47	1.27	0.72	0.78	0.75	1.03	0.98	0.67	2.790	3.800	2.230
15	2.20	1.47	1.25	0.72	0.78	0.75	1.02	0.97	0.67	2.810	3.820	2.230
16	2.21	1.48	1.25	0.72	0.78	0.76	1.01	0.98	0.66	2.800	3.790	2.230
17	2.24	1.49	1.25	0.73	0.78	0.77	1.10	0.83	0.66	2.790	3.730	2.220
18	2.26	1.49	1.24	0.72	0.78	0.76	1.16	0.67	0.67	2.790	3.380	2.210
19	2.26	1.49	1.23	0.65	0.78	0.77	1.33	0.67	0.68	2.770	2.680	2.200
20	2.27	1.48	1.08	0.58	0.78	0.77	1.29	0.66	0.68	2.760	2.670	2.200
21	2.28	1.47	1.23	0.57	0.77	0.76	1.25	0.66	0.67	2.900	2.670	2.190
22	2.27	1.46	1.22	0.57	0.77	0.75	1.22	0.66	1.57	3.590	2.670	2.190
23	2.26	1.46	1.05	0.56	0.77	0.75	1.20	0.66	2.47	3.570	2.670	2.190
24	2.25	1.44	1.08	0.56	0.76	0.75	1.24	0.65	2.43	3.560	2.700	2.190
25	2.23	1.42	1.12	0.55	0.76	0.76	1.21	0.65	4.01	3.570	2.700	2.190
26	2.25	1.41	1.14	0.54	0.76	0.73	1.03	0.65	18.96	3.620	2.690	2.190
27	2.25	1.41	1.10	0.53	0.76	0.72	1.12	0.65	19.07	3.760	2.680	2.180
28	2.24	1.40	1.14	0.53	0.77	0.70	1.10	0.65	27.75	3.890	2.680	2.180
29	2.24	1.39	1.11	0.53	0.77	0.80	1.19	0.65	27.71	3.860	2.680	2.190
30	2.24	1.37	0.93	0.53	0.77	0.96	1.19	0.65	23.37	3.990		2.190
31		1.35		0.53	0.77		1.08		18.74	4.03		2.19

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements (Level)												
EMS ID: 900504												
Site WB												
Average Level (m)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.584	0.591	0.507	0.462	0.392	0.380	0.451	0.466	0.331	1.091	1.370	0.606
2	0.583	0.560	0.504	0.451	0.390	0.386	0.458	0.430	0.374	0.975	1.259	0.606
3	0.584	0.541	0.504	0.441	0.396	0.412	0.517	0.493	0.443	0.871	1.124	0.605
4	0.583	0.533	0.504	0.439	0.396	0.450	0.463	0.513	0.436	0.803	1.015	0.601
5	0.585	0.530	0.505	0.437	0.396	0.417	0.468	0.413	0.463	0.769	0.899	0.597
6	0.587	0.503	0.506	0.435	0.396	0.417	0.471	0.425	0.534	0.732	0.820	0.594
7	0.582	0.523	0.503	0.351	0.398	0.524	0.442	0.534	0.553	0.710	0.760	0.592
8	0.579	0.526	0.503	0.305	0.405	0.447	0.405	0.523	0.640	0.701	0.720	0.597
9	0.587	0.528	0.503	0.443	0.416	0.410	0.406	0.543	0.524	0.652	0.686	0.603
10	0.604	0.532	0.506	0.430	0.421	0.393	0.427	0.541	0.548	0.637	0.669	0.615
11	0.605	0.530	0.508	0.431	0.424	0.383	0.465	0.525	0.640	0.635	0.661	0.640
12	0.611	0.531	0.509	0.424	0.429	0.412	0.473	0.530	0.604	0.641	0.661	0.635
13	0.606	0.538	0.506	0.430	0.435	0.440	0.456	0.639	0.495	0.638	0.664	0.638
14	0.602	0.539	0.499	0.430	0.435	0.443	0.427	0.665	0.546	0.622	0.651	0.637
15	0.597	0.535	0.496	0.431	0.436	0.441	0.482	0.629	0.562	0.622	0.647	0.629
16	0.595	0.499	0.496	0.431	0.425	0.453	0.464	0.631	0.603	0.624	0.628	0.616
17	0.603	0.532	0.497	0.425	0.437	0.445	0.476	0.567	0.586	0.606	0.616	0.607
18	0.608	0.524	0.494	0.429	0.407	0.444	0.490	0.458	0.406	0.608	0.606	0.604
19	0.613	0.524	0.491	0.428	0.388	0.445	0.501	0.573	0.358	0.629	0.604	0.599
20	0.627	0.523	0.487	0.420	0.387	0.449	0.493	0.510	0.517	0.641	0.600	0.590
21	0.632	0.521	0.488	0.415	0.356	0.443	0.444	0.500	0.546	0.637	0.608	0.582
22	0.644	0.519	0.495	0.410	0.352	0.444	0.432	0.564	0.552	0.635	0.616	0.591
23	0.637	0.517	0.488	0.408	0.420	0.413	0.502	0.565	0.651	0.640	0.627	0.585
24	0.629	0.516	0.481	0.406	0.406	0.436	0.473	0.606	0.589	0.652	0.626	0.580
25	0.627	0.515	0.483	0.405	0.395	0.377	0.502	0.581	0.512	0.666	0.623	0.578
26	0.622	0.513	0.486	0.409	0.418	0.351	0.557	0.546	0.963	0.685	0.614	0.583
27	0.617	0.511	0.480	0.406	0.453	0.308	0.597	0.561	1.139	0.696	0.613	0.583
28	0.612	0.511	0.481	0.403	0.509	0.361	0.658	0.552	1.327	0.708	0.611	0.581
29	0.604	0.510	0.482	0.399	0.510	0.391	0.599	0.462	1.478	0.757	0.605	0.587
30	0.598	0.507	0.481	0.397	0.423	0.437	0.534	0.372	1.444	1.122		0.598
31		0.487		0.396	0.395		0.490		1.338	1.307		0.597
Notes: Flow curve is being developed.												

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements												
EMS ID: E219412												
Site LLO												
Average Level (m)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.3316	0.3602	0.2089	0.0816	NF	NF	0.2716	0.5167	0.4587	0.8519	1.0514	0.7029
2	0.3283	0.3475	0.2031	0.0750	NF	NF	0.3017	0.5089	0.5075	0.8197	0.9662	0.7025
3	0.3301	0.3360	0.1983	0.0631	NF	NF	0.3804	0.6298	0.5851	0.7800	0.8952	0.6968
4	0.3271	0.3272	0.1930	0.0560	NF	NF	0.3444	0.6976	0.5945	0.7492	0.8424	0.6829
5	0.3231	0.3288	0.1895	0.0513	NF	NF	0.3674	0.6311	0.7330	0.7348	0.7935	0.6660
6	0.3231	0.3302	0.1856	0.0429	NF	NF	0.3888	0.6391	0.8169	0.7189	0.7633	0.6514
7	0.3262	0.3719	0.1772	-0.0483	NF	NF	0.3758	0.7388	0.7837	0.7089	0.7311	0.6444
8	0.3200	0.3913	0.1742	-0.0993	NF	NF	0.3493	0.7220	0.8413	0.7139	0.7066	0.6458
9	0.3359	0.4002	0.1726	0.0331	NF	NF	0.3530	0.7334	0.7119	0.7110	0.6810	0.6766
10	0.4188	0.4027	0.1734	0.0129	NF	NF	0.3712	0.7195	0.7343	0.7334	0.6703	0.7350
11	0.4458	0.3863	0.1733	0.0084	NF	NF	0.4147	0.7219	0.8242	0.7369	0.6752	0.7925
12	0.4433	0.3698	0.1710	NF	NF	NF	0.4198	0.7903	0.7857	0.7293	0.6879	0.7888
13	0.4196	0.3615	0.1642	NF	NF	NF	0.3979	0.9001	0.6748	0.7096	0.6934	0.7828
14	0.3964	0.3527	0.1568	NF	NF	NF	0.3669	0.8871	0.7365	0.6790	0.6668	0.7690
15	0.3794	0.3370	0.1527	NF	NF	NF	0.4290	0.8261	0.7674	0.6660	0.6419	0.7523
16	0.3686	0.2883	0.1537	NF	NF	NF	0.4291	0.8097	0.8103	0.6555	0.6347	0.7322
17	0.3774	0.3105	0.1529	NF	NF	NF	0.4472	0.7382	0.7932	0.6284	0.6296	0.7139
18	0.4122	0.2948	0.1465	NF	NF	NF	0.4850	0.6335	0.6120	0.6198	0.6241	0.6991
19	0.4376	0.2871	0.1406	NF	NF	NF	0.5471	0.7421	0.5688	0.6189	0.6204	0.6801
20	0.4568	0.2777	0.1365	NF	NF	NF	0.5901	0.6717	0.7339	0.6181	0.6059	0.6595
21	0.4768	0.2676	0.1379	NF	NF	NF	0.5544	0.6549	0.7563	0.6113	0.6263	0.6451
22	0.4995	0.2578	0.1374	NF	NF	NF	0.5327	0.7280	0.7471	0.6106	0.6720	0.6452
23	0.4859	0.2515	0.1296	NF	NF	NF	0.5851	0.7286	0.7821	0.6256	0.6916	0.6351
24	0.4688	0.2473	0.1230	NF	NF	NF	0.5437	0.7661	0.6861	0.6693	0.6863	0.6220
25	0.4562	0.2436	0.1218	NF	NF	NF	0.5709	0.7342	0.5938	0.7343	0.6762	0.6123
26	0.4367	0.2369	0.1178	NF	NF	NF	0.6253	0.6937	0.9450	0.7683	0.6599	0.6116
27	0.4230	0.2280	0.1110	NF	NF	NF	0.6662	0.7022	0.9218	0.7950	0.6509	0.6097
28	0.4100	0.2241	0.1020	NF	NF	NF	0.7232	0.6873	1.2266	0.8300	0.6620	0.6150
29	0.3902	0.2190	0.0951	NF	NF	NF	0.6585	0.5942	1.3452	0.9050	0.6888	0.6606
30	0.3724	0.2106	0.0908	NF	NF	NF	0.5887	0.5000	1.1530	1.0687		0.7037
31		0.1908		NF	NF		0.5420		1.0454	1.0625		0.6979
Notes: Flow curve is being developed.												

Appendix 1 - Tables

Table 30 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements												
EMS ID: E297232												
Site IR8												
Average Level (m)												
Date	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	0.91	1.16	0.81	0.67	0.63	0.58	0.82	0.92	0.95	1.24	1.49	1.09
2	0.90	1.17	0.79	0.67	0.63	0.59	0.83	1.09	0.96	1.19	1.35	1.07
3	0.89	1.20	0.79	0.66	0.64	0.61	0.87	1.20	0.97	1.16	1.26	1.04
4	0.88	1.18	0.78	0.66	0.64	0.64	0.87	1.43	1.12	1.14	1.21	1.02
5	0.88	1.23	0.77	0.66	0.63	0.61	0.85	1.59	1.49	1.12	1.15	1.01
6	0.90	1.24	0.77	0.66	0.63	0.61	0.85	1.20	1.29	1.10	1.11	1.00
7	0.98	1.24	0.76	0.57	0.64	0.72	0.83	1.21	1.18	1.08	1.08	0.98
8	1.01	1.21	0.75	0.52	0.66	0.64	0.82	1.17	1.13	1.08	1.05	1.00
9	1.20	1.19	0.75	0.66	0.70	0.60	0.82	1.13	1.11	1.08	1.03	1.08
10	1.31	1.17	0.75	0.65	0.70	0.58	0.87	1.13	1.09	1.09	1.02	1.17
11	1.16	1.13	0.74	0.65	0.68	0.58	0.93	1.52	1.10	1.06	1.03	1.18
12	1.10	1.13	0.74	0.64	0.67	0.62	0.94	1.45	1.08	1.06	1.05	1.18
13	1.06	1.15	0.73	0.64	0.66	0.65	0.92	1.43	1.08	1.11	1.04	1.15
14	1.03	1.15	0.72	0.64	0.65	0.65	0.90	1.27	1.12	1.10	1.01	1.12
15	1.01	1.14	0.72	0.64	0.65	0.64	0.93	1.18	1.14	1.09	1.00	1.10
16	1.01	1.09	0.72	0.64	0.63	0.65	1.04	1.13	1.13	1.05	0.99	1.10
17	1.03	1.10	0.72	0.64	0.64	0.64	1.11	1.10	1.13	0.99	0.99	1.12
18	1.06	1.06	0.71	0.64	0.61	0.64	1.32	1.07	1.17	0.96	0.98	1.13
19	1.08	1.03	0.70	0.64	0.58	0.65	1.32	1.04	1.26	0.96	0.97	1.12
20	1.11	1.00	0.70	0.64	0.58	0.67	1.18	1.04	1.26	0.96	0.96	1.11
21	1.14	0.98	0.70	0.64	0.55	0.66	1.10	1.03	1.22	0.97	1.06	1.09
22	1.12	0.95	0.70	0.63	0.54	0.66	1.05	1.07	1.18	1.00	1.12	1.09
23	1.10	0.93	0.69	0.64	0.62	0.62	1.02	1.04	1.14	1.03	1.11	1.11
24	1.09	0.91	0.69	0.64	0.60	0.65	1.00	1.02	1.11	1.14	1.09	1.11
25	1.08	0.90	0.69	0.65	0.59	0.64	0.98	1.01	1.27	1.21	1.07	1.09
26	1.11	0.89	0.68	0.65	0.61	0.75	0.96	0.99	1.73	1.20	1.04	1.09
27	1.15	0.88	0.68	0.65	0.64	0.72	0.95	0.98	1.49	1.31	1.02	1.10
28	1.15	0.86	0.67	0.64	0.70	0.76	0.94	0.97	1.94	1.36	1.04	1.12
29	1.19	0.85	0.67	0.64	0.71	0.75	0.93	0.96	1.57	1.77	1.10	1.31
30	1.20	0.83	0.67	0.64	0.62	0.77	0.93	0.95	1.47	1.69		1.25
31		0.80		0.64	0.60		0.92		1.34	1.68		1.17
Notes: Flow curve is being developed.												

Appendix 1 - Tables

Table 31 Daily Precipitation (mm) 1 Page(s)

Daily Precipitation (mm)													
DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	
1	0.0	0.0	0.0	0.0	1.1	2.6	0.0	0.0	1.9	0.20	24.5	1.3	
2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	9.0	6.0	0.00	4	4.3	
3	0.0	0.0	0.0	0.0	0.7	0.0	16.4	7.6	3.7	4.70	0.2	9.7	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.3	3.8	0.50	0.9	2.2	
5	1.1	19.0	0.0	0.0	0.0	0.0	0.0	12.7	37.1	3.30	0.1	0.5	
6	9.0	5.0	0.0	0.0	0.0	0.7	0.1	1.8	0.6	6.10	0	0	
7	0.6	1.5	0.0	0.0	0.1	0.3	0.1	11.6	0.4	0.00	0.1	0	
8	0.5	0.4	0.0	0.0	0.0	0.1	0.1	0.3	0.1	0.10	1.8	0	
9	23.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.1	1.80	0.1	9.1	
10	1.6	0.0	2.8	0.0	3.1	0.0	7.6	3.7	7.4	21.60	0	8.6	
11	1.9	0.0	0.0	0.0	0.0	0.0	8.0	20.9	4.1	1.70	4.9	2.3	
12	0.0	0.0	0.0	0.0	0.2	3.3	6.7	18.4	0.1	0.00	12.2	5.5	
13	0.7	0.0	0.0	0.0	0.1	4.5	0.1	22.7	0.3	0.00	0.2	1.8	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	12.7	0.00	0	0	
15	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	4.4	0.00	0.1	0	
16	0.8	0.0	0.4	0.0	0.0	0.0	3.7	1.1	0.8	0.10	0	0	
17	18.7	0.0	0.0	0.1	0.0	0.0	18.6	0.2	2.6	0.00	0	0	
18	5.6	0.0	4.7	0.0	0.0	2.1	12.3	0.0	4.7	4.40	0.4	0	
19	0.4	0.0	0.0	0.0	0.0	0.1	31.5	0.6	9.4	0.00	0.9	0	
20	12.7	0.0	0.0	0.0	0.0	12.0	0.4	0.3	4.9	8.60	0	0	
21	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	1.80	3.4	0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	1.0	2.00	18.6	0.4	
23	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	2.10	2	5	
24	0.2	0.0	0.0	0.2	2.5	0.4	0.0	0.1	0.0	0.70	0	1.6	
25	0.0	0.0	0.0	3.9	0.0	9.4	4.9	0.1	0.0	7.80	0.1	0	
26	6.4	0.0	0.0	1.7	0.0	20.4	21.6	0.0	71.7	0.20	3.3	2.5	
27	0.0	0.0	0.0	0.0	0.0	3.0	0.1	0.1	7.8	8.20	0.4	0.8	
28	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	47.3	6.40	0	5.3	
29	0.0	0.0	0.0	0.0	0.6	1.1	0.0	0.0	18.5	14.40	25	18.1	
30	0.0	0.0	0.0	0.2	2.6	0.2	0.0	0.0	6.5	26.30		7.3	
31		0.0		0.0	4.2		0.1		11.00	3.30		0	
Monthly Total (mm)	84.80	25.90	7.90	6.10	30.70	63.80	138.20	134.60	270.70	126.30	103.20	86.30	
Quarterly Total (mm)	118.60				100.60		Quarterly Total (mm)			543.50	Quarterly Total (mm)		315.80
Annual Total (mm)	1078.50												

Table 32 Groundwater Wells - Description 1 Page(s)

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 in 1-Mains Area, Dewatering well
	5 Mains#2 (5M#2)	In-situ	No. 1 Seam	Flooded Underground Workings in 5-Mains Area, Dewatering well
	3 Mains 2-North (3M2N)	In-situ	No. 1 Seam	Flooded Underground Workings in 3-Mains Area, Underground Pump System
	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, measures water quality and hydraulic head downgradient 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, measures water quality and hydraulic head down gradient t of 2 North workings
	QU10-13D	In-situ	Caved Zone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head down gradient of 2 North workings
5-South Mine Void	5SMW	In-situ	Mine Pool (1 Seam)	Water pumped from 5-South Flooded Mine Pool into 3-Mains of 2-North Mine
	QU0516	In-situ	(1 Seam)	In a pillar of the flooded mine void
River Barrier Pillar (RBP)	QU11-05S	Ex-situ	Sandstone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head, down gradient of 2-North workings
	QU11-05D	Ex-situ	Sandstone	Monitoring water quality and vertical gradients from of the RBP and 2-North mine.
	QU11-09S	Ex-situ	Sandstone	Monitoring water quality & upward vertical gradients of the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar
	QU11-09M	In-situ	RBP Mine Pool	Monitoring water quality in the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar.
2-North Plant Site	MW-00-1S	Ex-situ	Till	Shallow groundwater below coal pad (well collapsed)
	MW-00-1D	Ex-situ	1-Seam	Deeper groundwater below the coal pad (well collapsed)
	MW-00-6D	Ex-situ	Till	Deeper groundwater below the coal pad
	MW-00-6S	Ex-situ	Till	Shallow groundwater below coal pad
4-South	QU10-08D	Ex-situ	No. 3 Seam	4 South (just outside mine pool) up gradient of existing workings
	QU11-01	In-Situ	Foot print area of 4 South GOB	Assess 4 South Flooded Mine Void Water Chemistry
	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 Pit Shallow Groundwater
	MW004	In-Situ	Mine Pool (1 Seam)	2-South Mine Pool Gob depillared area
	QU11-11 (INF)	In-Situ	Mine Pool (1 Seam)	2-South mine pool dewatering well for Passive Treatment System
7-South	1M7SA5	In-Situ	No. 4 Coal Seam	Underground sump collects water from 7SA5, 2Mains and 1Mains pumps to 5-South Mine
	2M7S	In-Situ	No. 4 Coal Seam	Flooded (PAG -CCR) 2-Mains area pumps intermittently to 1M7SA5
	3M7S	In-Situ	No. 4 Coal Seam	3-Mains Area Underground
	QU08-10	Ex-situ	No. 4 Coal Seam	Downgradient of 7S - screened No. 3 Coal - Southern margin of workings
	QU08-13A	Ex-situ	No. 4 Coal Seam	Downgradient of the CCR backfill towards QR
	QU08-13B	Ex-situ	Till & SST contact	Downgradient of the CCR backfill towards QR
	QU14-10	In-Situ	Mine Void	Flooded PAG-CCR water cover in mine void
7- South Area 5	7SA5	In-Situ	Sump	Underground sump collects water in 7SA5, pumps it to 1Mains
	QU11-35	Ex-situ	Sandstone above No. 4 Seam	South end of 7SA5 footprint at 100280m N (mine grid)
242 AREA	QU11-36D	Ex-situ	Sandstone below No. 5 seam	Downgradient of 7SA5
	242MW	In-Situ	No. 4 Seam	Flooded mine void

Description				2 and 3 North Ex-Situ Groundwater				
Well ID				QU0821GS	QU0821GS	QU0821GS	QU0821GS	QU0821GS
*Station Type				GW	GW	GW	GW	GW
Surface Elevation (m ASL)				215	215	215	215	215
H ₂ O Level (below top of casing) (m ASL)				135	135	135	135	135
H ₂ O Level below top of casing (m)				Water Level at Top of Casing				
Date				16-May-23	20-Jul-23	16-Oct-23	20-Mar-24	20-Mar-24
Parameter	Units		CSR-AL					Replicate
SO4-D	mg/L		1280	0.5	0.5	0.5	0.5	0.5
H2SEquiv	mg/L	H2S	0.02	0.0234	0.0553	0.0595	0.00914	0.128
Cond-F	uS/cm			594.8	1108.7	1084.9	600.2	600.2
pH-F	pH Units			7.88	7.83	7.98	7.93	7.93
Temp-F	C			11.154	12.127	12.388	8.797	8.797
DO-F	mg/L			0.16		-0.65	-0.44	-0.44
ORP-F	mV			-203.5	-210.3	-157.2	-199.1	-199.1
Turb	NTU			3.2	1.4	2.9	1.3	1.1
Alk-T	mg/L			200	200	190	180	180
Acidity83	mg/L			1.3	0.5	8.8	0.5	0.5
N-D	mg/L			0.238	0.219	0.281	0.306	0.308
DOC	mg/L			0.78	0.92	1.0	0.94	0.97
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			240	240	240	210	220
Carb	mg/L			0.5	0.5	0.5	4.4	4.4
Cl-D	mg/L		1500	74	210	190	60	62
F-D	mg/L			1.6	1.7	1.6	1.7	1.6
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.115	0.26	0.291	0.095	0.101
P-D	mg/L			0.15	0.17	0.11	0.11	0.10
Al-D	mg/L			0.0015	0.0015	0.0032	0.0033	0.0031
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.000500	0.000500	0.000500	0.000500	0.000500
As-D	mg/L		0.05	0.256	0.246	0.187	0.229	0.227
Ba-D	mg/L		10	0.330	0.704	0.670	0.334	0.340
B-D	mg/L		50	1.80	2.02	2.06	1.79	1.83
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000300	0.000500	0.000500	0.000300	0.000300
Ca-D	mg/L			14.7	29.1	28.5	14.8	14.8

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				2 and 3 North Ex-Situ Groundwater				
Well ID				QU0821GS	QU0821GS	QU0821GS	QU0821GS	QU0821GS
*Station Type				GW	GW	GW	GW	GW
Surface Elevation (m ASL)				215	215	215	215	215
H ₂ O Level (below top of casing) (m ASL)				135	135	135	135	135
H ₂ O Level below top of casing (m)				Water Level at Top of Casing				
Date				16-May-23	20-Jul-23	16-Oct-23	20-Mar-24	20-Mar-24
Parameter	Units		CSR-AL					Replicate
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0300	0.0400	0.0400	0.0300	0.0300
Fe-D	mg/L			0.573	1.14	0.340	0.380	0.377
Hard-D	mg/L			51.6	93.3	93.2	52.3	52.6
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0500	0.0500	0.0500	0.0500	0.0500
Mg-D	mg/L			3.61	4.99	5.35	3.71	3.79
Mn-D	mg/L			0.0444	0.0702	0.0634	0.0297	0.0299
Na-D	mg/L			107	168	176	105	106
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		0.250	0.650	0.650	0.250	0.250
K-D	mg/L			3.95	4.49	4.56	3.82	3.87
S-D	mg/L			1.5	1.5	1.5	1.5	1.5
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00030	0.00005	0.00005	0.00011	0.00012
Si-D	mg/L			3.50	3.65	3.62	3.34	3.38
Sr-D	mg/L			0.434	0.721	0.734	0.415	0.424
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.075	0.150	0.150	0.075	0.075
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	11.3	11.3	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description		2 and 3 North Ex-Situ Groundwater						
Well ID			QU0821GD	QU0821GD	QU0821GD	QU0821GD	QU0821GD	QU0821GD
*Station Type			GW	GW	GW	GW	GW	GW
Surface Elevation (m ASL)			215	215	215	215	215	215
H ₂ O Level (below top of casing) (m ASL)			40	40	40	40	40	40
H ₂ O Level below top of casing (m)		Water Level at Top of Casing						
Date				16-May-23	16-May-23	20-Jul-23	16-Oct-23	20-Mar-24
Parameter	Units		CSR-AL		Replicate			
SO4-D	mg/L		1280	0.5	0.5	0.5	0.5	0.5
H2SEquiv	mg/L	H2S	0.02	0.0478	0.0415	0.101	0.0755	0.103
Cond-F	uS/cm			4411.1	4411.1	3691.6	4360.4	3212.2
pH-F	pH Units			7.33	7.33	7.27	7.48	7.48
Temp-F	C			12.255	12.255	12.931	10.957	8.15
DO-F	mg/L			0	0	0.1	-0.52	8.24
ORP-F	mV			-160.8	-160.8	-137.5	-140.3	-98.2
Turb	NTU			10	9.9	2.6	21	7.6
Alk-T	mg/L			200	210	200	200	190
Acidity83	mg/L			15.4	14.2	2.7	17.1	0.5
N-D	mg/L			0.583	0.582	0.442	0.570	0.937
DOC	mg/L			0.83	0.84	0.82	0.86	0.70
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			250	250	250	250	230
Carb	mg/L			0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	1400	1400	1100	1200	820
F-D	mg/L			0.85	0.85	1.0	0.90	1.1
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			1.85	1.85	1.49	1.69	1.24
P-D	mg/L			0.095	0.089	0.12	0.12	0.068
Al-D	mg/L			0.0075	0.0075	0.0075	0.0075	0.0075
Ag-D	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.164	0.160	0.178	0.187	0.226
Ba-D	mg/L		10	3.93	3.73	2.63	3.33	2.23
B-D	mg/L		50	3.35	3.34	2.90	3.35	2.93
Be-D	mg/L		0.053	0.00025	0.00025	0.00025	0.00025	0.00025
Bi-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Cd-D	mg/L			0.000025	0.000025	0.000025	0.000025	0.000025
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			156	155	120	141	99.7

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description		2 and 3 North Ex-Situ Groundwater						
Well ID		QU0821GD		QU0821GD	QU0821GD	QU0821GD	QU0821GD	QU0821GD
*Station Type		GW		GW	GW	GW	GW	GW
Surface Elevation (m ASL)		215		215	215	215	215	215
H ₂ O Level (below top of casing) (m ASL)		40		40	40	40	40	40
H ₂ O Level below top of casing (m)		Water Level at Top of Casing						
Date				16-May-23	16-May-23	20-Jul-23	16-Oct-23	20-Mar-24
Parameter	Units		CSR-AL		Replicate			
Cr-D	mg/L		0.01	0.0025	0.0025	0.0025	0.0025	0.0025
Co-D	mg/L		0.009	0.0005	0.0005	0.0005	0.0005	0.0005
Cu-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L			1.69	1.66	1.50	1.94	0.908
Hard-D	mg/L			477	467	360	421	309
Pb-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Pb-CSR	mg/L	Pb-CSR		0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L			21.0	19.7	14.4	17.0	14.5
Mn-D	mg/L			0.161	0.153	0.128	0.160	0.0469
Na-D	mg/L			771	735	579	688	516
Mo-D	mg/L		10	0.0025	0.0025	0.0025	0.0025	0.0025
Ni-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50
K-D	mg/L			12.4	11.6	8.65	10.3	8.43
S-D	mg/L			8	8	8	8	8
Sb-D	mg/L		0.2	0.00125	0.00125	0.00125	0.00125	0.00125
Se-D	mg/L		0.01	0.00123	0.00063	0.00025	0.00025	0.00025
Si-D	mg/L			5.08	5.13	4.56	4.65	4.20
Sr-D	mg/L			3.45	3.34	2.38	2.92	2.10
Tl-D	mg/L		0.003	0.000025	0.000025	0.000025	0.000025	0.000025
Ti-D	mg/L		1	0.0125	0.0125	0.0125	0.0125	0.0125
U-D	mg/L		3	0.00025	0.00025	0.00025	0.00025	0.00025
V-D	mg/L			0.0125	0.0125	0.0125	0.0125	0.0125
Zn-D	mg/L			0.0125	0.0125	0.0125	0.0125	0.0125
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400	2.400	2.400
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		18.5	18.5	18.5	18.5	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				2 and 3 North Ex-Situ Groundwater											
Well ID				QU1010S		QU1010S		QU1010D		QU1010D		QU1011S		QU1011D	
*Station Type				GW		GW		GW		GW		GW		GW	
Surface Elevation (m ASL)				245		245		245		245		249		249	
H2O Level (below top of casing) (m ASL)				181		181		73		73		207		86	
H2O Level below top of casing (m)				34		33		38		35		1			
Date				20-Dec-23		18-Mar-24		20-Dec-23		18-Mar-24		19-Mar-24		19-Mar-24	
Parameter	Units		CSR-AL												
SO4-D	mg/L		1280	0.5	0.5	0.5	0.5	0.5	0.5	2.6	0.5				
H2SEquiv	mg/L	H2S	0.02	0.191	0.0553	0.000957	0.000957	0.000957	0.000957	0.000957	0.0138				
Cond-F	uS/cm			292	329.4	9889	10002.8	115.9	2336.1						
pH-F	pH Units			7.88	8.04	7.13	7.11	6.36	7.12						
Temp-F	C			8.2	8.735	8.49	9.302	8.601	9.337						
DO-F	mg/L			0.29	-0.61	-0.45	-0.53	3.91	-0.54						
ORP-F	mV			-52.8	-229	-144.7	-149.7	50.8	-171.4						
Turb	NTU			230	26	18	80	0.79	750						
Alk-T	mg/L			150	150	92	85	52	320						
Acidity83	mg/L			0.5	0.5	14.5	10.2	3.1	4.8						
N-D	mg/L			0.238	0.284	0.969	1.15	0.104	0.853						
DOC	mg/L			0.77	1.0	0.98	0.95	0.71	2.6						
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5	0.5						
Bicarb	mg/L			190	180	110	100	63	400						
Carb	mg/L			0.5	0.5	0.5	0.5	0.5	0.5						
Cl-D	mg/L		1500	11	9.3	3200	3300	0.5	490						
F-D	mg/L			0.76	0.76	0.025	0.025	0.025	0.24						
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.000	3.000	2.00	3.00						
Br-D	mg/L			0.032	0.020	5.71	5.61	0.005	0.89						
P-D	mg/L			0.048	0.040	0.064	0.080	0.0015	0.0054						
Al-D	mg/L			0.0015	0.0015	0.026	0.0015	0.0042	0.0030						
Ag-D	mg/L			0.000010	0.000010	0.00005	0.000010	0.000010	0.000020						
Ag-CSR	mg/L	Ag-CSR		0.000500	0.000500	0.01500	0.01500	0.000500	0.0150						
As-D	mg/L		0.05	0.108	0.0913	0.0136	0.0116	0.00072	0.00425						
Ba-D	mg/L		10	0.278	0.275	1.28	1.25	0.0822	0.537						
B-D	mg/L		50	0.784	0.722	0.37	0.324	0.025	1.24						
Be-D	mg/L		0.053	0.00005	0.00005	0.00025	0.00005	0.00005	0.00010						
Bi-D	mg/L			0.0005	0.0005	0.0025	0.0005	0.0005	0.0010						
Cd-D	mg/L			0.000005	0.000005	0.000025	0.000005	0.000005	0.000010						
Cd-CSR	mg/L	Cd-CSR		0.000300	0.000300	0.0006000	0.0006000	0.000300	0.000600						
Ca-D	mg/L			19.6	18.7	638	600	15.1	74.1						

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description									
2 and 3 North Ex-Situ Groundwater									
Well ID				QU1010S	QU1010S	QU1010D	QU1010D	QU1011S	QU1011D
*Station Type				GW	GW	GW	GW	GW	GW
Surface Elevation (m ASL)				245	245	245	245	249	249
H ₂ O Level (below top of casing) (m ASL)				181	181	73	73	207	86
H ₂ O Level below top of casing (m)				34	33	38	35	1	
Date				20-Dec-23	18-Mar-24	20-Dec-23	18-Mar-24	19-Mar-24	19-Mar-24
Parameter	Units		CSR-AL						
Cr-D	mg/L		0.01	0.0005	0.0005	0.0025	0.0005	0.0005	0.0010
Co-D	mg/L		0.009	0.00010	0.00010	0.0005	0.00028	0.00020	0.00020
Cu-D	mg/L			0.00010	0.00010	0.0005	0.00010	0.00031	0.00020
Cu-CSR	mg/L	Cu-CSR		0.0300	0.0300	0.09000	0.09000	0.0200	0.0900
Fe-D	mg/L			0.212	0.139	8.60	8.45	0.101	0.005
Hard-D	mg/L			66.8	64.0	1640	1540	49.1	217
Pb-D	mg/L			0.00010	0.00010	0.0005	0.00010	0.00010	0.00020
Pb-CSR	mg/L	Pb-CSR		0.0500	0.0500	0.1600	0.1600	0.0400	0.110
Mg-D	mg/L			4.35	4.22	11.9	9.96	2.75	7.69
Mn-D	mg/L			0.0297	0.0203	0.403	0.408	0.0281	0.308
Na-D	mg/L			45.1	41.1	1370	1210	2.01	426
Mo-D	mg/L		10	0.0005	0.0005	0.0025	0.0005	0.0005	0.0010
Ni-D	mg/L			0.0005	0.0005	0.0025	0.0005	0.0005	0.0010
Ni-CSR	mg/L	Ni-CSR		0.650	0.650	1.500	1.500	0.250	1.50
K-D	mg/L			3.11	2.92	8.45	7.35	0.582	5.67
S-D	mg/L			1.5	1.5	8	1.5	1.5	3.0
Sb-D	mg/L		0.2	0.00025	0.00025	0.00125	0.00025	0.00025	0.0005
Se-D	mg/L		0.01	0.00012	0.00032	0.00025	0.00017	0.00011	0.00010
Si-D	mg/L			4.72	3.92	4.17	3.59	3.17	5.24
Sr-D	mg/L			0.332	0.303	5.96	5.38	0.123	1.08
Ti-D	mg/L		0.003	0.000005	0.000005	0.000025	0.000005	0.000005	0.000010
Ti-D	mg/L		1	0.0025	0.0025	0.0125	0.0025	0.0025	0.005
U-D	mg/L		3	0.00005	0.00005	0.00025	0.00005	0.00005	0.00010
V-D	mg/L			0.0025	0.0025	0.0125	0.0025	0.0025	0.005
Zn-D	mg/L			0.0025	0.0025	0.0125	0.0025	0.0025	0.005
Zn-CSR	mg/L	Zn-CSR		0.075	0.075	2.400	2.400	0.075	1.650
NH3	mg/L								
NH3-CSR	mg/L	NH3-CSR		11.3	3.70	18.5	18.5	18.4	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 2-North and River Barrier Pillar			
Well ID				QU1105S	QU1105S	QU1105S	QU1105S
*Station Type				GW	GW	GW	GW
Surface Elevation (m ASL)				229	229	229	229
H ₂ O Level (below top of casing) (m ASL)				195	195	195	195
H ₂ O Level below top of casing (m)				30	27	21	14
Date				17-May-23	3-Aug-23	8-Nov-23	13-Mar-24
Parameter	Units		CSR-AL				
SO ₄ -D	mg/L		1280	36	18	55	190
H ₂ SEquiv	mg/L	H ₂ S	0.02	0.0372	0.117	0.138	0.128
Cond-F	uS/cm			232	177.8	263.2	984
pH-F	pH Units			7.22	7.31	7.39	6.94
Temp-F	C			10.207	11.3	9.781	8.4
DO-F	mg/L			0	0.2	-0.66	0.53
ORP-F	mV			-290.2	-6.8	-255.2	-97.5
Turb	NTU			0.76	0.71	0.81	32
Alk-T	mg/L			79	66	79	370
Acidity ₈₃	mg/L			2.7	0.5	0.5	0.5
N-D	mg/L			0.154	0.079	0.122	0.242
DOC	mg/L			1.4	1.2	1.3	1.6
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			97	80	96	450
Carb	mg/L			0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	1.7	0.5	0.5	1.4
F-D	mg/L			0.12	0.090	0.12	0.19
Flu-CSR	mg/L	Flu-CSR		3.00	2.00	3.00	3.00
Br-D	mg/L			0.010	0.005	0.005	0.005
P-D	mg/L			0.0081	0.010	0.012	0.017
Al-D	mg/L			0.0015	0.0015	0.0015	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.000500	0.000500	0.000500	0.0150
As-D	mg/L		0.05	0.0217	0.0165	0.0268	0.0695
Ba-D	mg/L		10	0.0443	0.0397	0.0790	0.179
B-D	mg/L		50	0.186	0.132	0.177	1.13
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000300	0.000300	0.000300	0.000600
Ca-D	mg/L			17.6	13.2	25.0	68.6

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 2-North and River Barrier Pillar			
Well ID				QU1105S	QU1105S	QU1105S	QU1105S
*Station Type				GW	GW	GW	GW
Surface Elevation (m ASL)				229	229	229	229
H ₂ O Level (below top of casing) (m ASL)				195	195	195	195
H ₂ O Level below top of casing (m)				30	27	21	14
Date				17-May-23	3-Aug-23	8-Nov-23	13-Mar-24
Parameter	Units		CSR-AL				
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0300	0.0200	0.0400	0.0900
Fe-D	mg/L			0.283	0.175	0.271	3.16
Hard-D	mg/L			56.1	41.6	78.8	233
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00021
Pb-CSR	mg/L	Pb-CSR		0.0500	0.0400	0.0500	0.110
Mg-D	mg/L			2.98	2.09	3.96	14.9
Mn-D	mg/L			0.0582	0.0202	0.0357	0.279
Na-D	mg/L			25.4	16.6	23.6	160
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		0.250	0.250	0.650	1.50
K-D	mg/L			1.11	0.736	1.21	4.18
S-D	mg/L			12.7	6.5	20.5	67.5
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00101	0.00005	0.00012	0.00005
Si-D	mg/L			2.23	2.10	2.73	3.67
Sr-D	mg/L			0.174	0.114	0.232	0.815
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00011
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.075	0.075	0.075	1.650
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		18.5	18.5	18.5	18.4

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 2-North and River Barrier Pillar			
Well ID				QU1105D	QU1105D	QU1105D	QU1105D
*Station Type				GW	GW	GW	GW
Surface Elevation (m ASL)				229	229	229	229
H ₂ O Level (below top of casing) (m ASL)				99	99	99	99
H ₂ O Level below top of casing (m)				31	28	24	15
Date				17-May-23	3-Aug-23	8-Nov-23	13-Mar-24
Parameter	Units		CSR-AL				
SO4-D	mg/L		1280	100	160	220	170
H2SEquiv	mg/L	H2S	0.02	64.8	43.6	47.8	96.7
Cond-F	uS/cm			4686.7	4509	4551.3	4742.9
pH-F	pH Units			7.78	7.68	7.64	7.75
Temp-F	C			11.137	10.5	9.076	8.398
DO-F	mg/L			0.06	0.33	-0.65	-0.064
ORP-F	mV			-389.2	-246.9	-334.2	-380.3
Turb	NTU			6.8	0.68	1.9	2.2
Alk-T	mg/L			460	410	370	430
Acidity83	mg/L			0.5	0.5	0.5	0.5
N-D	mg/L			0.452	0.413	0.434	0.772
DOC	mg/L			5.9	6.9	3.9	0.91
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			480	430	400	470
Carb	mg/L			41	30	24	28
Cl-D	mg/L		1500	1300	1200	1200	1300
F-D	mg/L			0.050	0.076	0.025	0.025
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00
Br-D	mg/L			2.26	2.08	2.18	2.43
P-D	mg/L			0.45	0.34	0.24	0.36
Al-D	mg/L			0.0075	0.0075	0.0108	0.140
Ag-D	mg/L			0.00005	0.00005	0.000020	0.00005
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00301	0.00258	0.00141	0.00263
Ba-D	mg/L		10	0.179	0.137	0.135	0.176
B-D	mg/L		50	0.53	0.61	0.53	0.50
Be-D	mg/L		0.053	0.00025	0.00025	0.00010	0.00025
Bi-D	mg/L			0.0025	0.0025	0.0010	0.0025
Cd-D	mg/L			0.000025	0.000025	0.000010	0.000025
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			118	113	139	144

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 2-North and River Barrier Pillar			
Well ID				QU1105D	QU1105D	QU1105D	QU1105D
*Station Type				GW	GW	GW	GW
Surface Elevation (m ASL)				229	229	229	229
H ₂ O Level (below top of casing) (m ASL)				99	99	99	99
H ₂ O Level below top of casing (m)				31	28	24	15
Date				17-May-23	3-Aug-23	8-Nov-23	13-Mar-24
Parameter	Units		CSR-AL				
Cr-D	mg/L		0.01	0.0025	0.0025	0.0010	0.0025
Co-D	mg/L		0.009	0.0005	0.0005	0.00020	0.0005
Cu-D	mg/L			0.0005	0.0005	0.00020	0.0005
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L			0.0125	0.0125	0.014	0.0125
Hard-D	mg/L			312	299	367	381
Pb-D	mg/L			0.0005	0.0005	0.00020	0.0005
Pb-CSR	mg/L	Pb-CSR		0.160	0.110	0.160	0.160
Mg-D	mg/L			4.22	3.96	5.03	4.95
Mn-D	mg/L			0.120	0.127	0.0927	0.0805
Na-D	mg/L			824	792	949	917
Mo-D	mg/L		10	0.0025	0.0025	0.0010	0.0025
Ni-D	mg/L			0.0025	0.0025	0.0010	0.0025
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50
K-D	mg/L			4.59	4.16	5.05	5.10
S-D	mg/L			245	122	1200	140
Sb-D	mg/L		0.2	0.00125	0.00125	0.0005	0.00125
Se-D	mg/L		0.01	0.0251	0.0480	0.0387	0.0121
Si-D	mg/L			5.37	6.46	6.20	4.85
Sr-D	mg/L			1.51	1.37	1.81	1.65
Tl-D	mg/L		0.003	0.000025	0.000025	0.000010	0.000025
Ti-D	mg/L		1	0.0125	0.0125	0.005	0.0125
U-D	mg/L		3	0.00025	0.00025	0.00010	0.00025
V-D	mg/L			0.0125	0.0125	0.005	0.0125
Zn-D	mg/L			0.0125	0.0125	0.005	0.0125
Zn-CSR	mg/L	Zn-CSR		2.400	1.650	2.400	2.400
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	11.3	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 2-North and River Barrier Pillar shallow Groundwater above RBP		
Well ID				QU1109S	QU1109S	QU1109S
*Station Type				GW	GW	GW
Surface Elevation (m ASL)				227	227	227
H ₂ O Level (below top of casing) (m ASL)				202	202	202
H ₂ O Level below top of casing (m)				4	6	5
Date				8-May-23	10-Aug-23	2-Nov-23
Parameter	Units		CSR-AL			
SO4-D	mg/L		1280	140	120	100
H2SEquiv	mg/L	H2S	0.02	1.59	2.76	0.627
Cond-F	uS/cm			1220.3	1437	1289.4
pH-F	pH Units			7.65	7.96	7.96
Temp-F	C			9.265	9.7	8.596
DO-F	mg/L			0.03	0.22	-0.6
ORP-F	mV			-256.1	-39.8	-246.7
Turb	NTU			5.3	11	18
Alk-T	mg/L			480	510	480
Acidity83	mg/L			0.5	0.5	0.5
N-D	mg/L			0.373	0.453	0.492
DOC	mg/L			1.2	1.2	1.2
Hydrox	mg/L			0.5	0.5	0.5
Bicarb	mg/L			560	580	540
Carb	mg/L			9.2	18	21
Cl-D	mg/L		1500	49	58	52
F-D	mg/L			0.60	0.68	0.74
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00
Br-D	mg/L			0.22	0.41	0.05
P-D	mg/L			0.054	0.059	0.092
Al-D	mg/L			0.0099	0.0015	0.0030
Ag-D	mg/L			0.000020	0.000010	0.000020
Ag-CSR	mg/L	Ag-CSR		0.000500	0.000500	0.000500
As-D	mg/L		0.05	0.0847	0.119	0.0789
Ba-D	mg/L		10	0.0487	0.0554	0.0520
B-D	mg/L		50	1.85	2.11	2.16
Be-D	mg/L		0.053	0.00010	0.00005	0.00010
Bi-D	mg/L			0.0010	0.0005	0.0010
Cd-D	mg/L			0.000010	0.000005	0.000010
Cd-CSR	mg/L	Cd-CSR		0.000300	0.000300	0.000300
Ca-D	mg/L			16.5	17.1	15.1

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description		Ex-situ 2-North and River Barrier Pillar shallow Groundwater above RBP				
Well ID		QU1109S		QU1109S		QU1109S
*Station Type		GW		GW		GW
Surface Elevation (m ASL)		227		227		227
H ₂ O Level (below top of casing) (m ASL)		202		202		202
H ₂ O Level below top of casing (m)		4		6		5
Date				8-May-23	10-Aug-23	2-Nov-23
Parameter	Units		CSR-AL			
Cr-D	mg/L		0.01	0.0010	0.0005	0.0010
Co-D	mg/L		0.009	0.00020	0.00010	0.00020
Cu-D	mg/L			0.00020	0.00010	0.00020
Cu-CSR	mg/L	Cu-CSR		0.0300	0.0300	0.0300
Fe-D	mg/L			0.077	0.0409	0.098
Hard-D	mg/L			56.9	59.0	52.3
Pb-D	mg/L			0.00020	0.00010	0.00020
Pb-CSR	mg/L	Pb-CSR		0.0500	0.0500	0.0500
Mg-D	mg/L			3.84	3.98	3.57
Mn-D	mg/L			0.0240	0.0202	0.0189
Na-D	mg/L			259	292	278
Mo-D	mg/L		10	0.0010	0.0005	0.0010
Ni-D	mg/L			0.0010	0.0005	0.0010
Ni-CSR	mg/L	Ni-CSR		0.250	0.250	0.250
K-D	mg/L			3.28	3.60	3.49
S-D	mg/L			64.7	44.8	42.9
Sb-D	mg/L		0.2	0.0005	0.00025	0.0005
Se-D	mg/L		0.01	0.00046	0.00060	0.00059
Si-D	mg/L			5.18	5.32	5.87
Sr-D	mg/L			0.308	0.347	0.312
Tl-D	mg/L		0.003	0.000010	0.000005	0.000010
Ti-D	mg/L		1	0.005	0.0025	0.005
U-D	mg/L		3	0.00010	0.00005	0.00010
V-D	mg/L			0.005	0.0025	0.005
Zn-D	mg/L			0.005	0.0025	0.005
Zn-CSR	mg/L	Zn-CSR		0.075	0.075	0.075
NH3	mg/L					
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description		Ex-situ 2-North and River Barrier Pillar shallow Groundwater above RBP				
Well ID		QU1109M		QU1109M		QU1109M
*Station Type		GW		GW		GW
Surface Elevation (m ASL)		227		227		227
H ₂ O Level (below top of casing) (m ASL)		143		143		143
H ₂ O Level below top of casing (m)		41		32		26
Date				8-May-23	10-Aug-23	2-Nov-23
Parameter	Units		CSR-AL			
SO4-D	mg/L		1280	540	460	450
H2SEquiv	mg/L	H2S	0.02	0.0255	0.0191	0.0553
Cond-F	uS/cm			1938.2	1932	1896.7
pH-F	pH Units			6.79	7.1	7.15
Temp-F	C			8.686	9.2	8.461
DO-F	mg/L			0.2	1.11	-0.31
ORP-F	mV			-135.8	3	-119.3
Turb	NTU			50	43	92
Alk-T	mg/L			500	490	460
Acidity83	mg/L			26.6	21.1	18.3
N-D	mg/L			0.359	0.291	0.424
DOC	mg/L			0.94	0.91	0.88
Hydrox	mg/L			0.5	0.5	0.5
Bicarb	mg/L			610	600	560
Carb	mg/L			0.5	0.5	0.5
Cl-D	mg/L		1500	31	31	28
F-D	mg/L			0.11	0.11	0.12
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00
Br-D	mg/L			0.22	0.39	0.05
P-D	mg/L			0.0015	0.0052	0.0041
Al-D	mg/L			0.0030	0.0030	0.0030
Ag-D	mg/L			0.000020	0.000020	0.000020
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00458	0.00484	0.00168
Ba-D	mg/L		10	0.0130	0.0138	0.0183
B-D	mg/L		50	1.09	0.94	0.94
Be-D	mg/L		0.053	0.00010	0.00010	0.00010
Bi-D	mg/L			0.0010	0.0010	0.0010
Cd-D	mg/L			0.000010	0.000010	0.000010
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600
Ca-D	mg/L			105	93.3	89.2

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description		Ex-situ 2-North and River Barrier Pillar shallow Groundwater above RBP				
Well ID		QU1109M		QU1109M		QU1109M
*Station Type		GW		GW		GW
Surface Elevation (m ASL)		227		227		227
H ₂ O Level (below top of casing) (m ASL)		143		143		143
H ₂ O Level below top of casing (m)		41		32		26
Date				8-May-23	10-Aug-23	2-Nov-23
Parameter	Units		CSR-AL			
Cr-D	mg/L		0.01	0.0010	0.0010	0.0010
Co-D	mg/L		0.009	0.00020	0.00020	0.00020
Cu-D	mg/L			0.00020	0.00020	0.00020
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900
Fe-D	mg/L			5.26	4.99	6.62
Hard-D	mg/L			307	272	267
Pb-D	mg/L			0.00020	0.00020	0.00020
Pb-CSR	mg/L	Pb-CSR		0.160	0.110	0.110
Mg-D	mg/L			10.9	9.49	10.8
Mn-D	mg/L			0.208	0.185	0.323
Na-D	mg/L			356	346	335
Mo-D	mg/L		10	0.0023	0.0024	0.0010
Ni-D	mg/L			0.0010	0.0010	0.0010
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50
K-D	mg/L			5.01	4.77	4.94
S-D	mg/L			186	173	172
Sb-D	mg/L		0.2	0.0005	0.0005	0.0005
Se-D	mg/L		0.01	0.00010	0.00010	0.00010
Si-D	mg/L			3.43	3.64	3.95
Sr-D	mg/L			1.31	1.13	1.07
Tl-D	mg/L		0.003	0.000010	0.000010	0.000010
Ti-D	mg/L		1	0.005	0.005	0.005
U-D	mg/L		3	0.00010	0.00010	0.00010
V-D	mg/L			0.005	0.005	0.005
Zn-D	mg/L			0.005	0.005	0.005
Zn-CSR	mg/L	Zn-CSR		2.400	1.650	1.650
NH3	mg/L					
NH3-CSR	mg/L	NH3-CSR		18.4	18	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 2-North Groundwater Below the Coal Processing Plant			
Well ID				MW006S	MW006S	MW006D	MW006D
*Station Type				GW	GW	GW	GW
Surface Elevation (m ASL)				312	312	312	312
H ₂ O Level (below top of casing) (m ASL)				304	304	294	294
H ₂ O Level below top of casing (m)				2	2	2	1
Date				30-Nov-23	14-Mar-24	30-Nov-23	14-Mar-24
Parameter	Units		CSR-AL				
SO4-D	mg/L		1280	490	430	11	11
H2SEquiv	mg/L	H2S	0.02	0.000957	0.000957	0.149	0.000957
Cond-F	uS/cm			1281.4	1104.1	171.6	178.2
pH-F	pH Units			7.38	7.37	8.62	8.61
Temp-F	C			8.313	9.081	8.098	9.026
DO-F	mg/L			-0.11	1.27	-0.19	-0.13
ORP-F	mV			37.2	114	23.8	81.2
Turb	NTU			0.68	1.6	1.0	0.39
Alk-T	mg/L			150	130	78	72
Acidity83	mg/L			0.5	0.5	0.5	0.5
N-D	mg/L			0.487	0.342	0.321	0.139
DOC	mg/L			2.0	2.1	0.89	0.95
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			190	160	95	85
Carb	mg/L			0.5	0.5	0.5	1.5
Cl-D	mg/L		1500	2.4	1.8	0.5	0.5
F-D	mg/L			0.057	0.025	0.091	0.081
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	2.00	2.00
Br-D	mg/L			0.014	0.014	0.005	0.005
P-D	mg/L			0.063	0.054	0.15	0.16
Al-D	mg/L			0.0034	0.0015	0.0228	0.0163
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.000500	0.000500
As-D	mg/L		0.05	0.00243	0.00156	0.0281	0.0281
Ba-D	mg/L		10	0.0290	0.0278	0.0110	0.0098
B-D	mg/L		50	0.141	0.131	0.054	0.055
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000024	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000300	0.000300
Ca-D	mg/L			117	109	17.5	17.7

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 2-North Groundwater Below the Coal Processing Plant			
Well ID				MW006S	MW006S	MW006D	MW006D
*Station Type				GW	GW	GW	GW
Surface Elevation (m ASL)				312	312	312	312
H ₂ O Level (below top of casing) (m ASL)				304	304	294	294
H ₂ O Level below top of casing (m)				2	2	2	1
Date				30-Nov-23	14-Mar-24	30-Nov-23	14-Mar-24
Parameter	Units		CSR-AL				
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00020	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00074	0.00053	0.00052	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0200	0.0200
Fe-D	mg/L			0.0147	0.0072	0.0025	0.0025
Hard-D	mg/L			338	316	45.8	46.4
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.160	0.160	0.0400	0.0400
Mg-D	mg/L			11.1	10.2	0.530	0.526
Mn-D	mg/L			0.0611	0.0429	0.0041	0.0048
Na-D	mg/L			142	141	20.2	20.1
Mo-D	mg/L		10	0.0271	0.0270	0.0031	0.0032
Ni-D	mg/L			0.0010	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	0.250	0.250
K-D	mg/L			2.09	1.99	0.773	0.703
S-D	mg/L			178	166	3.6	4.7
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00027	0.00026	0.00005	0.00005
Si-D	mg/L			4.85	4.39	3.94	3.81
Sr-D	mg/L			0.715	0.610	0.0807	0.0792
Tl-D	mg/L		0.003	0.000010	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00674	0.00651	0.00062	0.00064
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	0.075	0.075
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		18.5	18.5	1.31	1.31

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ Groundwater 7-South			
Well ID				QU0810	QU0813A	QU0813A	QU0813A
*Station Type				GW	GW	GW	GW
Surface Elevation (m ASL)				296	221	221	221
H ₂ O Level (below top of casing) (m ASL)				268	169	169	169
H ₂ O Level below top of casing (m)				23	14	14	14
Date				6-Mar-24	23-May-23	27-Jul-23	27-Jul-23
Parameter	Units		CSR-AL				Replicate
SO4-D	mg/L		1280	590	66	61	60
H2SEquiv	mg/L	H2S	0.02	0.00542	0.255	0.202	0.223
Cond-F	uS/cm			1381.4	557.8	502.8	502.8
pH-F	pH Units			6.71	8.908	7.74	7.74
Temp-F	C			7.419	7.48	9.3	9.3
DO-F	mg/L			-0.25	0	0.06	0.06
ORP-F	mV			87.3	-203	23.9	23.9
Turb	NTU			8.9	1.5	2.3	1.9
Alk-T	mg/L			230	220	210	210
Acidity83	mg/L			0.5	0.5	0.5	7.5
N-D	mg/L			0.177	0.284	0.216	0.243
DOC	mg/L			0.95	0.70	0.60	0.67
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			290	260	260	260
Carb	mg/L			0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	0.5	13	14	14
F-D	mg/L			0.31	0.71	0.71	0.73
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.027	0.027	0.027
P-D	mg/L			0.0087	0.13	0.11	0.12
Al-D	mg/L			0.0015	0.0015	0.0015	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00037	0.334	0.375	0.374
Ba-D	mg/L		10	0.0464	0.166	0.164	0.164
B-D	mg/L		50	0.325	0.788	0.806	0.813
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000084	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000500
Ca-D	mg/L			255	44.6	42.9	42.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ Groundwater 7-South			
Well ID				QU0810	QU0813A	QU0813A	QU0813A
*Station Type				GW	GW	GW	GW
Surface Elevation (m ASL)				296	221	221	221
H ₂ O Level (below top of casing) (m ASL)				268	169	169	169
H ₂ O Level below top of casing (m)				23	14	14	14
Date				6-Mar-24	23-May-23	27-Jul-23	27-Jul-23
Parameter	Units		CSR-AL				Replicate
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.0104	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00062	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0700	0.0700	0.0600
Fe-D	mg/L			0.0199	0.177	0.174	0.167
Hard-D	mg/L			853	155	150	149
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.160	0.0600	0.0600	0.0600
Mg-D	mg/L			52.6	10.6	10.4	10.5
Mn-D	mg/L			0.630	0.0348	0.0337	0.0339
Na-D	mg/L			12.0	65.9	62.0	62.1
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0158	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.10	1.10	1.10
K-D	mg/L			4.91	2.60	2.43	2.47
S-D	mg/L			221	22.3	20.7	20.6
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00052	0.00063
Si-D	mg/L			4.20	4.14	3.86	3.77
Sr-D	mg/L			2.19	0.640	0.599	0.600
Tl-D	mg/L		0.003	0.000050	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00198	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		2.400	0.900	0.900	0.900
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		18.4	1.310	11.3	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ Groundwater 7-South		
Well ID				QU0813A	QU0813A	QU0813A
*Station Type				GW	GW	GW
Surface Elevation (m ASL)				221	221	221
H ₂ O Level (below top of casing) (m ASL)				169	169	169
H ₂ O Level below top of casing (m)				13	11	12
Date				24-Oct-23	26-Feb-24	26-Mar-24
Parameter	Units		CSR-AL			
SO4-D	mg/L		1280	55	50	46
H2SEquiv	mg/L	H2S	0.02	0.234	0.202	0.287
Cond-F	uS/cm			537.4	476.2	483.5
pH-F	pH Units			7.63	7.62	7.51
Temp-F	C			6.848	7.523	8.506
DO-F	mg/L			-0.64	-0.58	-0.62
ORP-F	mV			-150	-177.9	-164.1
Turb	NTU			3.0	3.3	3.3
Alk-T	mg/L			210	200	190
Acidity83	mg/L			0.5	0.5	0.5
N-D	mg/L			0.365	0.403	0.290
DOC	mg/L			0.94	0.91	0.85
Hydrox	mg/L			0.5	0.5	0.5
Bicarb	mg/L			250	240	240
Carb	mg/L			0.5	0.5	0.5
Cl-D	mg/L		1500	13	12	12
F-D	mg/L			0.69	0.61	0.62
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00
Br-D	mg/L			0.027	0.021	0.025
P-D	mg/L			0.058	0.099	0.070
Al-D	mg/L			0.0015	0.0052	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.400	0.339	0.377
Ba-D	mg/L		10	0.178	0.156	0.163
B-D	mg/L		50	0.813	0.758	0.801
Be-D	mg/L		0.053	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000500	0.000500
Ca-D	mg/L			44.6	40.2	39.7

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ Groundwater 7-South		
Well ID				QU0813A	QU0813A	QU0813A
*Station Type				GW	GW	GW
Surface Elevation (m ASL)				221	221	221
H ₂ O Level (below top of casing) (m ASL)				169	169	169
H ₂ O Level below top of casing (m)				13	11	12
Date				24-Oct-23	26-Feb-24	26-Mar-24
Parameter	Units		CSR-AL			
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0700	0.0600	0.0600
Fe-D	mg/L			0.204	0.248	0.224
Hard-D	mg/L			153	141	141
Pb-D	mg/L			0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0600	0.0600	0.0600
Mg-D	mg/L			10.2	9.91	10.1
Mn-D	mg/L			0.0355	0.0396	0.0348
Na-D	mg/L			62.3	58.6	59.3
Mo-D	mg/L		10	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.10	1.10	1.10
K-D	mg/L			2.64	2.39	2.39
S-D	mg/L			20.0	17.3	19.0
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00040
Si-D	mg/L			4.47	4.05	3.83
Sr-D	mg/L			0.659	0.548	0.557
Ti-D	mg/L		0.003	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.900	0.900	0.900
NH3	mg/L					
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ Groundwater 7-South				
Well ID				QU0813B	QU0813B	QU0813B	QU0813B	QU0813B
*Station Type				GW	GW	GW	GW	GW
Surface Elevation (m ASL)				221	221	221	221	221
H ₂ O Level (below top of casing) (m ASL)				195	195	195	195	195
H ₂ O Level below top of casing (m)				17	17	15	13	12
Date				23-May-23	27-Jul-23	18-Oct-23	26-Feb-24	26-Mar-24
Parameter	Units		CSR-AL					
SO4-D	mg/L		1280	33	44	53	92	110
H2SEquiv	mg/L	H2S	0.02	0.00829	0.0276	0.0105	0.0393	0.0489
Cond-F	uS/cm			302.3	289.1	333.5	397.8	466
pH-F	pH Units			7.74	7.97	8	7.76	7.57
Temp-F	C			10.173	9.7	9.334	7.324	9.015
DO-F	mg/L			0.57	0.38	-0.43	-0.48	-0.4
ORP-F	mV			-145.4	26.6	-141.1	-168	-166.8
Turb	NTU			0.94	2.2	6.9	2.9	4.2
Alk-T	mg/L			120	120	130	120	120
Acidity83	mg/L			0.5	0.5	12.5	0.5	0.5
N-D	mg/L			0.180	0.137	0.330	0.368	0.250
DOC	mg/L			0.83	0.68	1.0	0.92	0.78
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			150	150	160	150	150
Carb	mg/L			0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	0.5	1.2	0.5	0.5	0.5
F-D	mg/L			0.39	0.40	0.38	0.33	0.32
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.005	0.005	0.005	0.021	0.005
P-D	mg/L			0.21	0.22	0.20	0.20	0.18
Al-D	mg/L			0.0038	0.0037	0.0015	0.0046	0.0034
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.000500	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.451	0.546	0.555	0.534	0.564
Ba-D	mg/L		10	0.0486	0.0626	0.0624	0.0854	0.103
B-D	mg/L		50	0.354	0.292	0.324	0.359	0.346
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000500	0.000500	0.000500	0.000600	0.000600
Ca-D	mg/L			31.0	33.9	35.5	49.1	56.9

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ Groundwater 7-South				
Well ID				QU0813B	QU0813B	QU0813B	QU0813B	QU0813B
*Station Type				GW	GW	GW	GW	GW
Surface Elevation (m ASL)				221	221	221	221	221
H ₂ O Level (below top of casing) (m ASL)				195	195	195	195	195
H ₂ O Level below top of casing (m)				17	17	15	13	12
Date				23-May-23	27-Jul-23	18-Oct-23	26-Feb-24	26-Mar-24
Parameter	Units		CSR-AL					
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0400	0.0500	0.0500	0.0700	0.0800
Fe-D	mg/L			0.154	0.197	0.186	0.287	0.349
Hard-D	mg/L			98.9	109	115	158	188
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0500	0.0600	0.0600	0.0600	0.0600
Mg-D	mg/L			5.19	5.93	6.31	8.70	11.2
Mn-D	mg/L			0.0798	0.0725	0.0825	0.0848	0.0988
Na-D	mg/L			27.6	24.7	26.2	28.2	28.5
Mo-D	mg/L		10	0.0024	0.0022	0.0022	0.0023	0.0022
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		0.650	0.650	0.650	1.10	1.50
K-D	mg/L			1.33	1.43	1.49	1.63	1.77
S-D	mg/L			11.5	12.6	17.8	30.5	44.1
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			4.55	4.17	4.43	4.47	4.27
Sr-D	mg/L			0.237	0.281	0.297	0.401	0.487
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.150	0.900	0.900	0.900	0.900
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	4	11.3	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ Groundwater 242	
Well ID				QU1136S	QU1136D
*Station Type				GW	GW
Surface Elevation (m ASL)				286	286
H ₂ O Level (below top of casing) (m ASL)				244	219
H ₂ O Level below top of casing (m)				16	24
Date				12-Mar-24	12-Mar-24
Parameter	Units		CSR-AL		
SO4-D	mg/L		1280	8.3	12
H2SEquiv	mg/L	H2S	0.02	0.0138	0.00914
Cond-F	uS/cm			169.2	302.5
pH-F	pH Units			6.27	7.48
Temp-F	C			7.3	7.1
DO-F	mg/L			1.93	0.23
ORP-F	mV			105.1	26.6
Turb	NTU			46	7.0
Alk-T	mg/L			78	150
Acidity83	mg/L			1.9	0.5
N-D	mg/L			0.092	0.246
DOC	mg/L			0.56	0.58
Hydrox	mg/L			0.5	0.5
Bicarb	mg/L			95	180
Carb	mg/L			0.5	0.5
Cl-D	mg/L		1500	0.5	0.5
F-D	mg/L			0.025	0.61
Flu-CSR	mg/L	Flu-CSR		3.00	3.00
Br-D	mg/L			0.005	0.005
P-D	mg/L			0.0061	0.23
Al-D	mg/L			0.238	0.0289
Ag-D	mg/L			0.000010	0.000020
Ag-CSR	mg/L	Ag-CSR		0.000500	0.0150
As-D	mg/L		0.05	0.0242	0.957
Ba-D	mg/L		10	0.114	0.114
B-D	mg/L		50	0.025	0.63
Be-D	mg/L		0.053	0.00005	0.00010
Bi-D	mg/L			0.0005	0.0010
Cd-D	mg/L			0.000018	0.000010
Cd-CSR	mg/L	Cd-CSR		0.000500	0.000600
Ca-D	mg/L			31.2	46.2

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ Groundwater 242	
Well ID				QU1136S	QU1136D
*Station Type				GW	GW
Surface Elevation (m ASL)				286	286
H ₂ O Level (below top of casing) (m ASL)				244	219
H ₂ O Level below top of casing (m)				16	24
Date				12-Mar-24	12-Mar-24
Parameter	Units		CSR-AL		
Cr-D	mg/L		0.01	0.0005	0.0010
Co-D	mg/L		0.009	0.00091	0.00020
Cu-D	mg/L			0.00025	0.00052
Cu-CSR	mg/L	Cu-CSR		0.0400	0.0700
Fe-D	mg/L			0.617	0.575
Hard-D	mg/L			91.9	153
Pb-D	mg/L			0.00026	0.00041
Pb-CSR	mg/L	Pb-CSR		0.0500	0.0600
Mg-D	mg/L			3.39	9.28
Mn-D	mg/L			0.137	0.0357
Na-D	mg/L			1.18	11.6
Mo-D	mg/L		10	0.0005	0.0024
Ni-D	mg/L			0.0005	0.0010
Ni-CSR	mg/L	Ni-CSR		0.650	1.10
K-D	mg/L			0.207	0.91
S-D	mg/L			1.5	3.0
Sb-D	mg/L		0.2	0.00075	0.0005
Se-D	mg/L		0.01	0.00005	0.00010
Si-D	mg/L			3.76	4.56
Sr-D	mg/L			0.0335	0.442
Tl-D	mg/L		0.003	0.000005	0.000010
Ti-D	mg/L		1	0.0052	0.005
U-D	mg/L		3	0.00005	0.00010
V-D	mg/L			0.0025	0.005
Zn-D	mg/L			0.0025	0.005
Zn-CSR	mg/L	Zn-CSR		0.150	0.900
NH3	mg/L				
NH3-CSR	mg/L	NH3-CSR		18.4	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 4-South Groundwater					
Well ID				QU1008D	QU1009S	QU1009S	QU1009S	QU1009D	QU1009D
*Station Type				GW	GW	GW	GW	GW	GW
Surface Elevation (m ASL)				338	304	304	304	304	304
H ₂ O Level (below top of casing) (m ASL)				255	288	288	288	265	265
H ₂ O Level below top of casing (m)				34	3	4	3	4	4
Date				8-Jun-23	18-May-23	10-Aug-23	11-Mar-24	18-May-23	18-May-23
Parameter	Units		CSR-AL						Replicate
SO4-D	mg/L		1280	1.0	100	99	100	62	61
H2SEquiv	mg/L	H2S	0.02	0.0893	0.0138	0.00638	0.0287	0.0819	0.0989
Cond-F	uS/cm			532.9	482.2	504.2	516.8	464.4	464.4
pH-F	pH Units			8.24	6.69	6.96	6.68	7.28	7.28
Temp-F	C			9.527	10.854	9.7	7.540	9.958	9.958
DO-F	mg/L				0.09	0.68	-0.5	0.3	0.3
ORP-F	mV			-285.5	-129.4	38.2	-113	-152.9	-152.9
Turb	NTU			110	58	44	13	4.2	4.0
Alk-T	mg/L			260	140	130	140	180	180
Acidity83	mg/L			0.5	8.0	8.6	3.0	7.1	3.8
N-D	mg/L			0.130	0.129	0.088	0.185	0.182	0.167
DOC	mg/L			17	1.2	1.4	1.5	0.89	0.92
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			290	170	160	170	220	220
Carb	mg/L			11	0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	4.4	0.5	0.5	0.5	0.5	1.0
F-D	mg/L			1.9	0.077	0.066	0.066	0.29	0.29
Flu-CSR	mg/L	Flu-CSR		2.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.024	0.021	0.021	0.037	0.015
P-D	mg/L			0.17	0.027	0.037	0.019	0.037	0.039
Al-D	mg/L			0.022	0.0015	0.0015	0.0015	0.0015	0.0015
Ag-D	mg/L			0.00005	0.000010	0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.000500	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.164	0.0867	0.0925	0.0832	0.112	0.114
Ba-D	mg/L		10	0.0315	0.134	0.123	0.146	0.117	0.118
B-D	mg/L		50	1.97	0.088	0.063	0.055	0.576	0.583
Be-D	mg/L		0.053	0.00025	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0025	0.0005	0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000025	0.000005	0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000100	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			2.66	71.5	66.7	80.7	49.4	49.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 4-South Groundwater					
Well ID				QU1008D	QU1009S	QU1009S	QU1009S	QU1009D	QU1009D
*Station Type				GW	GW	GW	GW	GW	GW
Surface Elevation (m ASL)				338	304	304	304	304	304
H ₂ O Level (below top of casing) (m ASL)				255	288	288	288	265	265
H ₂ O Level below top of casing (m)				34	3	4	3	4	4
Date				8-Jun-23	18-May-23	10-Aug-23	11-Mar-24	18-May-23	18-May-23
Parameter	Units		CSR-AL						Replicate
Cr-D	mg/L		0.01	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.0005	0.00010	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.0005	0.00010	0.00010	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0200	0.0900	0.0900	0.0900	0.0700	0.0700
Fe-D	mg/L			0.112	4.47	4.05	4.75	0.513	0.507
Hard-D	mg/L			7.73	223	207	250	165	164
Pb-D	mg/L			0.0005	0.00010	0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0400	0.110	0.110	0.110	0.0600	0.0600
Mg-D	mg/L			0.26	10.9	9.89	11.9	10.2	10.0
Mn-D	mg/L			0.147	0.394	0.324	0.387	0.0435	0.0437
Na-D	mg/L			132	9.23	8.76	10.1	35.2	36.0
Mo-D	mg/L		10	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0025	0.0005	0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		0.250	1.50	1.50	1.50	1.10	1.10
K-D	mg/L			0.68	0.689	0.661	0.784	1.69	1.75
S-D	mg/L			8	37.0	35.7	41.7	21.5	22.6
Sb-D	mg/L		0.2	0.00125	0.00025	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00025	0.00005	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			6.14	9.29	9.20	9.05	10.0	10.0
Sr-D	mg/L			0.0684	0.308	0.262	0.308	0.966	0.980
Tl-D	mg/L		0.003	0.000025	0.000005	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0125	0.0025	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00025	0.00005	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0125	0.0025	0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0125	0.0025	0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.075	1.650	1.650	1.650	0.900	0.900
NH ₃	mg/L								
NH ₃ -CSR	mg/L	NH ₃ -CSR		3.70	18.4	18.4	18.4	18.5	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 4-South Groundwater		
Well ID				QU1009D	QU1009D	QU1009D
*Station Type				GW	GW	GW
Surface Elevation (m ASL)				304	304	304
H ₂ O Level (below top of casing) (m ASL)				265	265	265
H ₂ O Level below top of casing (m)				5	5	4
Date				14-Aug-23	14-Aug-23	11-Mar-24
Parameter	Units		CSR-AL		Replicate	
SO4-D	mg/L		1280	64	63	66
H2SEquiv	mg/L	H2S	0.02	0.106	0.103	0.0819
Cond-F	uS/cm			456.1	456.1	478.4
pH-F	pH Units			7.52	7.52	7.19
Temp-F	C			9.8	9.8	7.519
DO-F	mg/L			0.31	0.31	-0.54
ORP-F	mV			46.4	46.4	-169
Turb	NTU			4.5	4.4	9.2
Alk-T	mg/L			180	190	170
Acidity83	mg/L			0.5	0.5	0.5
N-D	mg/L			0.147	0.146	0.328
DOC	mg/L			1.1	1.1	1.3
Hydrox	mg/L			0.5	0.5	0.5
Bicarb	mg/L			220	230	200
Carb	mg/L			0.5	0.5	0.5
Cl-D	mg/L		1500	1.1	1.3	0.5
F-D	mg/L			0.28	0.28	0.20
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00
Br-D	mg/L			0.005	0.005	0.014
P-D	mg/L			0.050	0.041	0.027
Al-D	mg/L			0.0015	0.0015	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.115	0.116	0.107
Ba-D	mg/L		10	0.126	0.126	0.125
B-D	mg/L		50	0.507	0.534	0.436
Be-D	mg/L		0.053	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600
Ca-D	mg/L			49.0	49.2	56.8

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				Ex-situ 4-South Groundwater		
Well ID				QU1009D	QU1009D	QU1009D
*Station Type				GW	GW	GW
Surface Elevation (m ASL)				304	304	304
H ₂ O Level (below top of casing) (m ASL)				265	265	265
H ₂ O Level below top of casing (m)				5	5	4
Date				14-Aug-23	14-Aug-23	11-Mar-24
Parameter	Units		CSR-AL		Replicate	
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0700	0.0700	0.0800
Fe-D	mg/L			0.448	0.438	0.667
Hard-D	mg/L			162	163	188
Pb-D	mg/L			0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0600	0.0600	0.0600
Mg-D	mg/L			9.72	9.81	11.1
Mn-D	mg/L			0.0421	0.0421	0.0550
Na-D	mg/L			37.6	38.0	30.4
Mo-D	mg/L		10	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.10	1.10	1.50
K-D	mg/L			1.71	1.67	1.63
S-D	mg/L			20.2	20.5	26.2
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005
Si-D	mg/L			9.66	9.74	8.94
Sr-D	mg/L			0.930	0.934	0.982
Ti-D	mg/L		0.003	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.900	0.900	0.900
NH3	mg/L					
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 2-North Flooded Mine Void			
Well ID				QU1013D	QU1013D	QU1013D	QU1013D
*Station Type				MW	MW	MW	MW
Surface Elevation (m ASL)				271	271	271	271
H ₂ O Level (below top of casing) (m ASL)				128	128	128	128
H ₂ O Level below top of casing (m)				75	66	66	61
Date				16-Aug-23	23-Nov-23	23-Nov-23	13-Mar-24
Parameter	Units		CSR-AL			Replicate	
SO4-D	mg/L		1280	210	170	170	340
H2SEquiv	mg/L	H2S	0.02	0.0659	0.128	0.149	0.0819
Cond-F	uS/cm			1663	1343.9	1343.9	1296.2
pH-F	pH Units			7.05	7.11	7.11	7.16
Temp-F	C			9.9	7.68	7.68	7.582
DO-F	mg/L			0.99	-0.35	-0.35	-0.38
ORP-F	mV			87.6	-180.2	-180.2	-125.3
Turb	NTU			6.8	4.3	5.6	14
Alk-T	mg/L			540	520	520	530
Acidity83	mg/L			9.7	0.5	0.5	0.5
N-D	mg/L			0.359	0.353	0.413	0.411
DOC	mg/L			1.4	1.1	1.3	1.1
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			660	630	630	650
Carb	mg/L			0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	49	33	33	27
F-D	mg/L			0.12	0.18	0.18	0.11
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.05	0.05	0.05
P-D	mg/L			0.014	0.0054	0.020	0.020
Al-D	mg/L			0.0015	0.0062	0.0015	0.0091
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00096	0.00085	0.00088	0.00106
Ba-D	mg/L		10	0.0366	0.0425	0.0412	0.0612
B-D	mg/L		50	1.04	1.12	1.01	1.14
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000500	0.000500	0.000600
Ca-D	mg/L			64.5	42.5	39.7	78.0

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 2-North Flooded Mine Void			
Well ID				QU1013D	QU1013D	QU1013D	QU1013D
*Station Type				MW	MW	MW	MW
Surface Elevation (m ASL)				271	271	271	271
H ₂ O Level (below top of casing) (m ASL)				128	128	128	128
H ₂ O Level below top of casing (m)				75	66	66	61
Date				16-Aug-23	23-Nov-23	23-Nov-23	13-Mar-24
Parameter	Units		CSR-AL			Replicate	
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00010	0.00010	0.00111
Cu-CSR	mg/L	Cu-CSR		0.0800	0.0500	0.0500	0.0900
Fe-D	mg/L			1.36	0.638	0.616	1.24
Hard-D	mg/L			187	122	114	223
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0600	0.0600	0.0600	0.110
Mg-D	mg/L			6.41	3.87	3.64	6.83
Mn-D	mg/L			0.256	0.158	0.145	0.278
Na-D	mg/L			285	300	291	355
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.10	0.650	1.50
K-D	mg/L			3.69	3.04	3.00	4.12
S-D	mg/L			75.1	63.0	64.8	144
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00116
Se-D	mg/L		0.01	0.00005	0.00005	0.00021	0.00005
Si-D	mg/L			3.95	4.05	3.48	4.77
Sr-D	mg/L			0.714	0.457	0.483	0.838
Ti-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.900	0.900	0.900	1.650
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		18.5	18.5	18.5	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ Shallow Groundwater Next to 3-South Pit				
Well ID				MW002	MW002	MW002	MW002	MW002
*Station Type				GW	GW	GW	GW	GW
Surface Elevation (m ASL)				325	325	325	325	325
H ₂ O Level (below top of casing) (m ASL)				318	318	318	318	318
H ₂ O Level below top of casing (m)				4	4	3	4	4
Date				24-May-23	24-May-23	11-Sep-23	28-Nov-23	6-Mar-24
Parameter	Units		CSR-AL		Replicate			
SO4-D	mg/L		1280	1300	1300	1200	1200	1200
H2SEquiv	mg/L	H2S	0.02	0.000957	0.000957	0.000957	0.000957	0.00478
Cond-F	uS/cm			2334.3	2334.3	2466	2334	2203.8
pH-F	pH Units			6.51	6.51	6.72	6.74	6.65
Temp-F	C			10.724	10.724	11.3	10.8	10.449
DO-F	mg/L					0.88	0.74	-0.49
ORP-F	mV			-74.9	-74.9	80.5	62.8	-44.2
Turb	NTU			48	31	21	22	18
Alk-T	mg/L			280	270	280	270	260
Acidity83	mg/L			25.6	23.5	29.1	11.2	0.5
N-D	mg/L			0.240	0.204	0.311	0.291	0.281
DOC	mg/L			1.1	1.2	1.0	0.98	1.0
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			340	330	340	330	310
Carb	mg/L			0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	1.1	1.3	1.6	1.2	0.5
F-D	mg/L			0.11	0.11	0.11	0.11	0.11
Flu-CSR	mg/L	Flu-CSR		3.000	3.000	3.000	3.000	3.000
Br-D	mg/L			0.05	0.05	0.05	0.05	0.05
P-D	mg/L			0.0015	0.0015	0.0048	0.0032	0.0036
Al-D	mg/L			0.0075	0.0075	0.0075	0.0075	0.0030
Ag-D	mg/L			0.00005	0.00005	0.00005	0.00005	0.000020
Ag-CSR	mg/L	Ag-CSR		0.01500	0.01500	0.01500	0.01500	0.01500
As-D	mg/L		0.05	0.00219	0.00229	0.00204	0.00226	0.00228
Ba-D	mg/L		10	0.0147	0.0149	0.0141	0.0137	0.0145
B-D	mg/L		50	0.67	0.86	0.81	0.74	0.80
Be-D	mg/L		0.053	0.00025	0.00025	0.00025	0.00025	0.00010
Bi-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0010
Cd-D	mg/L			0.000025	0.000025	0.000025	0.000025	0.000010
Cd-CSR	mg/L	Cd-CSR		0.0006000	0.0006000	0.0006000	0.0006000	0.0006000
Ca-D	mg/L			498	535	447	466	487

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ Shallow Groundwater Next to 3-South Pit				
Well ID				MW002	MW002	MW002	MW002	MW002
*Station Type				GW	GW	GW	GW	GW
Surface Elevation (m ASL)				325	325	325	325	325
H ₂ O Level (below top of casing) (m ASL)				318	318	318	318	318
H ₂ O Level below top of casing (m)				4	4	3	4	4
Date				24-May-23	24-May-23	11-Sep-23	28-Nov-23	6-Mar-24
Parameter	Units		CSR-AL		Replicate			
Cr-D	mg/L		0.01	0.0025	0.0025	0.0025	0.0025	0.0010
Co-D	mg/L		0.009	0.0031	0.0034	0.0032	0.0028	0.00292
Cu-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.00020
Cu-CSR	mg/L	Cu-CSR		0.09000	0.09000	0.09000	0.09000	0.09000
Fe-D	mg/L			5.18	5.50	4.66	4.99	5.45
Hard-D	mg/L			1450	1550	1320	1370	1410
Pb-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.00020
Pb-CSR	mg/L	Pb-CSR		0.1600	0.1600	0.1600	0.1600	0.1600
Mg-D	mg/L			50.5	53.2	48.9	50.2	47.9
Mn-D	mg/L			1.80	1.91	1.66	1.49	1.59
Na-D	mg/L			48.4	53.2	53.2	53.4	49.9
Mo-D	mg/L		10	0.0025	0.0025	0.0025	0.0025	0.0010
Ni-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0023
Ni-CSR	mg/L	Ni-CSR		1.500	1.500	1.500	1.500	1.500
K-D	mg/L			5.02	5.99	5.27	5.74	5.95
S-D	mg/L			439	469	442	436	433
Sb-D	mg/L		0.2	0.00125	0.00125	0.00125	0.00125	0.0005
Se-D	mg/L		0.01	0.00025	0.00025	0.00025	0.00025	0.00010
Si-D	mg/L			3.70	3.81	3.63	3.86	4.70
Sr-D	mg/L			4.48	4.85	4.38	4.36	4.56
Tl-D	mg/L		0.003	0.000025	0.000025	0.000025	0.000025	0.000010
Ti-D	mg/L		1	0.0125	0.0125	0.0125	0.0125	0.005
U-D	mg/L		3	0.00025	0.00025	0.00025	0.00025	0.00037
V-D	mg/L			0.0125	0.0125	0.0125	0.0125	0.005
Zn-D	mg/L			0.0125	0.0125	0.0125	0.0125	0.005
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400	2.400	2.400
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		18.4	18.4	18.4	18.4	18.4

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 2 / 3 South Flooded Mine Void		
Well ID				MW004	MW004	MW004
*Station Type				MW	MW	MW
Surface Elevation (m ASL)				348	348	348
H ₂ O Level (below top of casing) (m ASL)				298	298	298
H ₂ O Level below top of casing (m)				43	47	47
Date				29-May-23	28-Aug-23	28-Aug-23
Parameter	Units		CSR-AL			Replicate
SO4-D	mg/L		1280	350	380	380
H2SEquiv	mg/L	H2S	0.02	0.000957	0.000957	0.000957
Cond-F	uS/cm			899.6	1178	1178
pH-F	pH Units			6.86	7.03	7.03
Temp-F	C			11.038	15.1	15.1
DO-F	mg/L				0.68	0.68
ORP-F	mV			144.4	74.5	74.5
Turb	NTU			0.33	1.3	1.6
Alk-T	mg/L			110	160	160
Acidity83	mg/L			3.4	3.3	8.3
N-D	mg/L			0.288	0.121	0.426
DOC	mg/L			2.7	2.0	1.9
Hydrox	mg/L			0.5	0.5	0.5
Bicarb	mg/L			140	190	190
Carb	mg/L			0.5	0.5	0.5
Cl-D	mg/L		1500	0.5	0.5	0.5
F-D	mg/L			0.081	0.083	0.084
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00
Br-D	mg/L			0.005	0.5	0.05
P-D	mg/L			0.0015	0.0038	0.0031
Al-D	mg/L			0.0046	0.0034	0.0039
Ag-D	mg/L			0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00036	0.00066	0.00068
Ba-D	mg/L		10	0.0236	0.0368	0.0369
B-D	mg/L		50	0.213	0.221	0.228
Be-D	mg/L		0.053	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600
Ca-D	mg/L			146	162	166

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 2 / 3 South Flooded Mine Void		
Well ID				MW004	MW004	MW004
*Station Type				MW	MW	MW
Surface Elevation (m ASL)				348	348	348
H ₂ O Level (below top of casing) (m ASL)				298	298	298
H ₂ O Level below top of casing (m)				43	47	47
Date				29-May-23	28-Aug-23	28-Aug-23
Parameter	Units		CSR-AL			Replicate
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00062	0.00061
Cu-D	mg/L			0.00090	0.00063	0.00049
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900
Fe-D	mg/L			0.0025	0.0339	0.0316
Hard-D	mg/L			434	480	489
Pb-D	mg/L			0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.160	0.160	0.160
Mg-D	mg/L			16.8	18.5	18.3
Mn-D	mg/L			0.0016	0.0972	0.0940
Na-D	mg/L			32.0	41.9	41.9
Mo-D	mg/L		10	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0012	0.0012	0.0011
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50
K-D	mg/L			1.39	1.63	1.63
S-D	mg/L			129	138	137
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005
Si-D	mg/L			2.85	2.81	2.81
Sr-D	mg/L			1.17	1.29	1.26
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0067	0.0066
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400
NH3	mg/L					
NH3-CSR	mg/L	NH3-CSR		18.4	18.5	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 2 / 3 South Flooded Mine Void		
Well ID				MW004	MW004	MW005
*Station Type				MW	MW	MW
Surface Elevation (m ASL)				348	348	343
H ₂ O Level (below top of casing) (m ASL)				298	298	297
H ₂ O Level below top of casing (m)				46	41	26
Date				28-Nov-23	5-Mar-24	30-May-23
Parameter	Units		CSR-AL			
SO4-D	mg/L		1280	350	340	1900
H2SEquiv	mg/L	H2S	0.02	0.000957	0.000957	0.000957
Cond-F	uS/cm			866.3	735.3	3578.7
pH-F	pH Units			6.67	6.63	6.66
Temp-F	C			6.942	6.666	12.996
DO-F	mg/L			4.3	5.42	
ORP-F	mV			152.1	160.7	-62.7
Turb	NTU			1.8	2.2	44
Alk-T	mg/L			85	81	260
Acidity83	mg/L			1.9	1.1	3.0
N-D	mg/L			0.210	0.167	0.219
DOC	mg/L			2.8	2.3	3.6
Hydrox	mg/L			0.5	0.5	0.5
Bicarb	mg/L			100	98	320
Carb	mg/L			0.5	0.5	0.5
Cl-D	mg/L		1500	0.5	0.5	5.6
F-D	mg/L			0.064	0.025	0.22
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.000
Br-D	mg/L			0.005	0.005	0.05
P-D	mg/L			0.0015	0.0015	0.0015
Al-D	mg/L			0.0080	0.0992	0.0030
Ag-D	mg/L			0.000010	0.000010	0.000020
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.01500
As-D	mg/L		0.05	0.00042	0.00104	0.00291
Ba-D	mg/L		10	0.0265	0.0192	0.0147
B-D	mg/L		50	0.240	0.171	2.01
Be-D	mg/L		0.053	0.00005	0.00005	0.00010
Bi-D	mg/L			0.0005	0.0005	0.0010
Cd-D	mg/L			0.000005	0.000005	0.000010
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.0006000
Ca-D	mg/L			137	133	345

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 2 / 3 South Flooded Mine Void		
Well ID				MW004	MW004	MW005
*Station Type				MW	MW	MW
Surface Elevation (m ASL)				348	348	343
H ₂ O Level (below top of casing) (m ASL)				298	298	297
H ₂ O Level below top of casing (m)				46	41	26
Date				28-Nov-23	5-Mar-24	30-May-23
Parameter	Units		CSR-AL			
Cr-D	mg/L		0.01	0.0005	0.0005	0.0010
Co-D	mg/L		0.009	0.00010	0.00010	0.00136
Cu-D	mg/L			0.00138	0.00157	0.00020
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.09000
Fe-D	mg/L			0.0074	0.119	3.92
Hard-D	mg/L			409	396	1010
Pb-D	mg/L			0.00010	0.00010	0.00020
Pb-CSR	mg/L	Pb-CSR		0.160	0.160	0.1600
Mg-D	mg/L			16.3	15.4	35.4
Mn-D	mg/L			0.0027	0.0139	0.238
Na-D	mg/L			36.1	23.8	491
Mo-D	mg/L		10	0.0005	0.0005	0.0010
Ni-D	mg/L			0.0005	0.0016	0.0032
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.500
K-D	mg/L			1.51	1.12	4.60
S-D	mg/L			140	113	635
Sb-D	mg/L		0.2	0.00025	0.00025	0.0005
Se-D	mg/L		0.01	0.00005	0.00005	0.00010
Si-D	mg/L			3.78	3.97	3.08
Sr-D	mg/L			1.13	0.892	5.27
Tl-D	mg/L		0.003	0.000005	0.000005	0.000010
Ti-D	mg/L		1	0.0025	0.0025	0.005
U-D	mg/L		3	0.00005	0.00005	0.00010
V-D	mg/L			0.0025	0.0025	0.005
Zn-D	mg/L			0.0060	0.0025	0.005
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400
NH3	mg/L					
NH3-CSR	mg/L	NH3-CSR		18.4	18.4	18.4

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 2 / 3 South Flooded Mine Void	
Well ID				MW005	MW005
*Station Type				MW	MW
Surface Elevation (m ASL)				343	343
H ₂ O Level (below top of casing) (m ASL)				297	297
H ₂ O Level below top of casing (m)				36	36
Date				14-Dec-23	27-Feb-24
Parameter	Units		CSR-AL		
SO4-D	mg/L		1280	1800	1900
H2SEquiv	mg/L	H2S	0.02	0.000957	0.00478
Cond-F	uS/cm			3279.5	3277.3
pH-F	pH Units			6.68	6.66
Temp-F	C			8.935	7.553
DO-F	mg/L			0.63	-0.22
ORP-F	mV			117.7	41.6
Turb	NTU			12	8.6
Alk-T	mg/L			230	220
Acidity83	mg/L			3.7	7.6
N-D	mg/L			0.373	0.090
DOC	mg/L			1.1	0.90
Hydrox	mg/L			0.5	0.5
Bicarb	mg/L			280	270
Carb	mg/L			0.5	0.5
Cl-D	mg/L		1500	2.2	2.4
F-D	mg/L			0.16	0.16
Flu-CSR	mg/L	Flu-CSR		3.000	3.000
Br-D	mg/L			0.05	0.05
P-D	mg/L			0.0015	0.0015
Al-D	mg/L			0.0075	0.0030
Ag-D	mg/L			0.00005	0.000020
Ag-CSR	mg/L	Ag-CSR		0.01500	0.01500
As-D	mg/L		0.05	0.00025	0.00036
Ba-D	mg/L		10	0.0151	0.0150
B-D	mg/L		50	1.60	1.45
Be-D	mg/L		0.053	0.00025	0.00010
Bi-D	mg/L			0.0025	0.0010
Cd-D	mg/L			0.000068	0.000010
Cd-CSR	mg/L	Cd-CSR		0.0006000	0.0006000
Ca-D	mg/L			454	440

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 2 / 3 South Flooded Mine Void	
Well ID				MW005	MW005
*Station Type				MW	MW
Surface Elevation (m ASL)				343	343
H ₂ O Level (below top of casing) (m ASL)				297	297
H ₂ O Level below top of casing (m)				36	36
Date				14-Dec-23	27-Feb-24
Parameter	Units		CSR-AL		
Cr-D	mg/L		0.01	0.0025	0.0010
Co-D	mg/L		0.009	0.0005	0.00068
Cu-D	mg/L			0.0005	0.00047
Cu-CSR	mg/L	Cu-CSR		0.09000	0.09000
Fe-D	mg/L			0.127	0.501
Hard-D	mg/L			1340	1300
Pb-D	mg/L			0.0005	0.00020
Pb-CSR	mg/L	Pb-CSR		0.1600	0.1600
Mg-D	mg/L			50.6	49.2
Mn-D	mg/L			0.0417	0.102
Na-D	mg/L			392	369
Mo-D	mg/L		10	0.0025	0.0010
Ni-D	mg/L			0.0025	0.0034
Ni-CSR	mg/L	Ni-CSR		1.500	1.500
K-D	mg/L			4.86	4.76
S-D	mg/L			662	644
Sb-D	mg/L		0.2	0.00125	0.0005
Se-D	mg/L		0.01	0.00062	0.00010
Si-D	mg/L			3.43	3.28
Sr-D	mg/L			5.32	5.12
Ti-D	mg/L		0.003	0.000025	0.000010
Ti-D	mg/L		1	0.0125	0.005
U-D	mg/L		3	0.00025	0.00010
V-D	mg/L			0.0125	0.005
Zn-D	mg/L			0.0125	0.005
Zn-CSR	mg/L	Zn-CSR		2.400	2.400
NH3	mg/L				
NH3-CSR	mg/L	NH3-CSR		18.4	18.4

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 4-South Flooded Mine Void	
Well ID				QU1101	QU1101
*Station Type				MW	MW
Surface Elevation (m ASL)				316	316
H ₂ O Level (below top of casing) (m ASL)				228	228
H ₂ O Level below top of casing (m)				27	27
Date				7-Jun-23	13-Dec-23
Parameter	Units		CSR-AL		
SO ₄ -D	mg/L		1280	1300	1200
H ₂ SEquiv	mg/L	H ₂ S	0.02	0.00957	0.0276
Cond-F	uS/cm			2564.5	2288
pH-F	pH Units			6.59	6.8
Temp-F	C			8.527	7.576
DO-F	mg/L				-0.37
ORP-F	mV			-146.6	-145.3
Turb	NTU			610	130
Alk-T	mg/L			69	
Acidity ₈₃	mg/L			49.4	
N-D	mg/L			0.384	0.820
DOC	mg/L			2.0	2.4
Hydrox	mg/L			0.5	
Bicarb	mg/L			84	
Carb	mg/L			0.5	
Cl-D	mg/L		1500	2.0	4.3
F-D	mg/L			0.49	0.42
Flu-CSR	mg/L	Flu-CSR		3.000	3.000
Br-D	mg/L			0.05	0.05
P-D	mg/L			0.0097	0.017
Al-D	mg/L			0.0030	0.0074
Ag-D	mg/L			0.000020	0.000020
Ag-CSR	mg/L	Ag-CSR		0.01500	0.01500
As-D	mg/L		0.05	0.248	0.120
Ba-D	mg/L		10	0.0235	0.0121
B-D	mg/L		50	2.21	1.25
Be-D	mg/L		0.053	0.00010	0.00010
Bi-D	mg/L			0.0010	0.0010
Cd-D	mg/L			0.000010	0.000010
Cd-CSR	mg/L	Cd-CSR		0.0006000	0.0006000
Ca-D	mg/L			637	334

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 4-South Flooded Mine Void	
Well ID				QU1101	QU1101
*Station Type				MW	MW
Surface Elevation (m ASL)				316	316
H ₂ O Level (below top of casing) (m ASL)				228	228
H ₂ O Level below top of casing (m)				27	27
Date				7-Jun-23	13-Dec-23
Parameter	Units		CSR-AL		
Cr-D	mg/L		0.01	0.0010	0.0010
Co-D	mg/L		0.009	0.00020	0.00020
Cu-D	mg/L			0.00020	0.00020
Cu-CSR	mg/L	Cu-CSR		0.09000	0.09000
Fe-D	mg/L			253	133
Hard-D	mg/L			1990	1020
Pb-D	mg/L			0.00020	0.00020
Pb-CSR	mg/L	Pb-CSR		0.1600	0.1600
Mg-D	mg/L			98.0	45.9
Mn-D	mg/L			3.92	1.81
Na-D	mg/L			251	129
Mo-D	mg/L		10	0.0022	0.0010
Ni-D	mg/L			0.0010	0.0010
Ni-CSR	mg/L	Ni-CSR		1.500	1.500
K-D	mg/L			11.6	5.83
S-D	mg/L			980	467
Sb-D	mg/L		0.2	0.0005	0.0005
Se-D	mg/L		0.01	0.00010	0.00010
Si-D	mg/L			11.5	6.02
Sr-D	mg/L			4.08	1.91
Ti-D	mg/L		0.003	0.000010	0.000010
Ti-D	mg/L		1	0.005	0.005
U-D	mg/L		3	0.00010	0.00010
V-D	mg/L			0.005	0.005
Zn-D	mg/L			0.005	0.005
Zn-CSR	mg/L	Zn-CSR		2.400	2.400
NH ₃	mg/L				
NH ₃ -CSR	mg/L	NH ₃ -CSR		18.4	18

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description		In-situ 7-South 2-Mains Flooded PAG-CCR						
Well ID			QU1410	QU1410	QU1410	QU1410	QU1410	QU1410
*Station Type			MW	MW	MW	MW	MW	MW
Surface Elevation (m ASL)			240	240	240	240	240	240
H ₂ O Level (below top of casing) (m ASL)			205	205	205	205	205	205
H ₂ O Level below top of casing (m)			9	9	9	1	1	1
Date			6-Jun-23	27-Jul-23	18-Oct-23	7-Mar-24	7-Mar-24	
Parameter	Units		CSR-AL					Replicate
SO4-D	mg/L		1280	1800	1900	1900	1800	1800
H2SEquiv	mg/L	H2S	0.02	0.000957	0.000957	0.000957	0.000957	0.000957
Cond-F	uS/cm			3172.7	2792	2984.3	2935.8	2935.8
pH-F	pH Units			6.56	6.71	6.69	6.6	6.6
Temp-F	C			13.927	11.7	9.582	5.279	5.279
DO-F	mg/L				1.37	-0.47	-0.59	-0.59
ORP-F	mV			-53.5	64.1	27.9	-7.6	-7.6
Turb	NTU			28	8.0	12	2.9	4.8
Alk-T	mg/L			320	320	330	310	300
Acidity83	mg/L			27.3	39.6	68.9	0.5	0.5
N-D	mg/L			0.282	0.204	0.441	0.530	0.418
DOC	mg/L			1.6	1.2	1.2	1.5	1.7
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			390	390	400	370	370
Carb	mg/L			0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	5.6	4.9	4.5	4.0	4.3
F-D	mg/L			0.17	0.025	0.17	0.15	0.15
Flu-CSR	mg/L	Flu-CSR		3.000	3.000	3.000	3.000	3.000
Br-D	mg/L			0.05	0.05	0.05	0.05	0.05
P-D	mg/L			0.0094	0.019	0.010	0.013	0.012
Al-D	mg/L			0.0075	0.0075	0.0075	0.0030	0.0134
Ag-D	mg/L			0.00005	0.00005	0.00005	0.000020	0.000020
Ag-CSR	mg/L	Ag-CSR		0.01500	0.01500	0.01500	0.01500	0.01500
As-D	mg/L		0.05	0.101	0.108	0.105	0.0959	0.0971
Ba-D	mg/L		10	0.0152	0.0146	0.0160	0.0142	0.0156
B-D	mg/L		50	1.05	1.05	1.16	1.09	1.25
Be-D	mg/L		0.053	0.00025	0.00025	0.00025	0.00010	0.00010
Bi-D	mg/L			0.0025	0.0025	0.0025	0.0010	0.0010
Cd-D	mg/L			0.000025	0.000025	0.000025	0.000010	0.000010
Cd-CSR	mg/L	Cd-CSR		0.0006000	0.0006000	0.0006000	0.0006000	0.0006000
Ca-D	mg/L			527	534	539	512	524

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description		In-situ 7-South 2-Mains Flooded PAG-CCR						
Well ID				QU1410	QU1410	QU1410	QU1410	QU1410
*Station Type				MW	MW	MW	MW	MW
Surface Elevation (m ASL)				240	240	240	240	240
H ₂ O Level (below top of casing) (m ASL)				205	205	205	205	205
H ₂ O Level below top of casing (m)				9	9	9	1	1
Date				6-Jun-23	27-Jul-23	18-Oct-23	7-Mar-24	7-Mar-24
Parameter	Units		CSR-AL					Replicate
Cr-D	mg/L		0.01	0.0025	0.0025	0.0025	0.0010	0.0010
Co-D	mg/L		0.009	0.0005	0.0005	0.0005	0.00020	0.00020
Cu-D	mg/L			0.0005	0.0005	0.0005	0.00020	0.00020
Cu-CSR	mg/L	Cu-CSR		0.09000	0.09000	0.09000	0.09000	0.09000
Fe-D	mg/L			2.40	2.73	2.60	2.48	2.61
Hard-D	mg/L			2020	2100	2120	2010	2010
Pb-D	mg/L			0.0005	0.0005	0.0005	0.00020	0.00020
Pb-CSR	mg/L	Pb-CSR		0.1600	0.1600	0.1600	0.1600	0.1600
Mg-D	mg/L			172	187	188	178	171
Mn-D	mg/L			1.56	1.52	1.45	1.35	1.55
Na-D	mg/L			62.7	60.6	60.4	54.7	56.5
Mo-D	mg/L		10	0.0025	0.0025	0.0025	0.0010	0.0010
Ni-D	mg/L			0.0025	0.0025	0.0025	0.0010	0.0010
Ni-CSR	mg/L	Ni-CSR		1.500	1.500	1.500	1.500	1.500
K-D	mg/L			7.70	7.33	7.70	7.13	7.61
S-D	mg/L			651	619	718	672	647
Sb-D	mg/L		0.2	0.00125	0.00125	0.00125	0.0005	0.0005
Se-D	mg/L		0.01	0.00025	0.00025	0.00025	0.00010	0.00010
Si-D	mg/L			3.22	3.28	3.85	3.05	3.99
Sr-D	mg/L			5.10	4.58	4.77	4.69	5.00
Ti-D	mg/L		0.003	0.000025	0.000025	0.000025	0.000010	0.000010
Ti-D	mg/L		1	0.0125	0.0125	0.0125	0.005	0.005
U-D	mg/L		3	0.00081	0.00082	0.00079	0.00080	0.00088
V-D	mg/L			0.0125	0.0125	0.0125	0.005	0.005
Zn-D	mg/L			0.0125	0.0125	0.0125	0.005	0.005
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400	2.400	2.400
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		18.4	18.4	18.4	18	18

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 242 Flooded Mine Void			
Well ID				242MW	242MW	242MW	242MW
*Station Type				MW	MW	MW	MW
Surface Elevation (m ASL)				290	290	290	290
H ₂ O Level (below top of casing) (m ASL)				257	257	257	257
H ₂ O Level below top of casing (m)				22	23	23	21
Date				31-May-23	1-Aug-23	31-Oct-23	12-Mar-24
Parameter	Units		CSR-AL				
SO4-D	mg/L		1280	30	27	28	28
H2SEquiv	mg/L	H2S	0.02	0.00882	0.0191	0.0276	0.00425
Cond-F	uS/cm			287.8	295.4	294.6	257
pH-F	pH Units			6.49	6.73	6.62	6.41
Temp-F	C			8.782	10.5	8.478	7.309
DO-F	mg/L				1.07	-0.48	-0.5
ORP-F	mV			-103.1	40.6	-71.1	52.1
Turb	NTU			120	74	71	27
Alk-T	mg/L			90	99	94	89
Acidity83	mg/L			2.3	13.1	2.5	2.5
N-D	mg/L			0.113	0.111	0.756	0.242
DOC	mg/L			0.58	0.99	0.78	0.76
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			110	120	110	110
Carb	mg/L			0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	1.1	0.5	0.5	0.5
F-D	mg/L			0.075	0.068	0.078	0.063
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00
Br-D	mg/L			0.005	0.005	0.005	0.005
P-D	mg/L			0.019	0.033	0.010	0.0066
Al-D	mg/L			0.0015	0.0015	0.0098	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.110	0.125	0.124	0.113
Ba-D	mg/L		10	0.0744	0.0771	0.0757	0.0793
B-D	mg/L		50	0.084	0.059	0.056	0.058
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000500	0.000500	0.000500	0.000500
Ca-D	mg/L			41.3	43.4	44.0	43.7

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 242 Flooded Mine Void			
Well ID				242MW	242MW	242MW	242MW
*Station Type				MW	MW	MW	MW
Surface Elevation (m ASL)				290	290	290	290
H ₂ O Level (below top of casing) (m ASL)				257	257	257	257
H ₂ O Level below top of casing (m)				22	23	23	21
Date				31-May-23	1-Aug-23	31-Oct-23	12-Mar-24
Parameter	Units		CSR-AL				
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00064	0.00060	0.00058	0.00055
Cu-D	mg/L			0.00010	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0500	0.0500	0.0500	0.0500
Fe-D	mg/L			13.2	14.8	15.8	12.3
Hard-D	mg/L			116	123	124	123
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0600	0.0600	0.0600	0.0600
Mg-D	mg/L			3.21	3.48	3.44	3.34
Mn-D	mg/L			0.550	0.563	0.574	0.481
Na-D	mg/L			2.02	2.18	2.16	2.27
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		0.650	1.10	1.10	1.10
K-D	mg/L			0.399	0.427	0.443	0.461
S-D	mg/L			9.6	10.4	9.9	10.1
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			3.57	3.81	3.75	3.50
Sr-D	mg/L			0.0620	0.0651	0.0639	0.0676
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000013
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.900	0.900	0.900	0.900
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		18.4	18.4	18.4	18.4

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 5-South Flooded Mine Void (Coal Pillar)					
Well ID				QU0516W	QU0516W	QU0516W	QU0516W	QU0516W	QU0516W
*Station Type				GW	GW	GW	GW	GW	GW
Surface Elevation (m ASL)				309	309	309	309	309	309
H ₂ O Level (below top of casing) (m ASL)				184	184	184	184	184	184
H ₂ O Level below top of casing (m)				70	73	74	64	57	58
Date				19-Jul-23	24-Aug-23	31-Oct-23	18-Dec-23	7-Mar-24	27-Mar-24
Parameter	Units		CSR-AL						
SO4-D	mg/L		1280	140	86	65	190	170	210
H2SEquiv	mg/L	H2S	0.02	0.542	0.489	0.457	0.446	0.627	0.563
Cond-F	uS/cm			819	1017	906.2	1135	1020.3	1117.7
pH-F	pH Units			8.26	8.24	8.1	8.1	8.11	7.86
Temp-F	C			8	10.3	9.294	7.5	7.135	7.424
DO-F	mg/L			0.33	0.38	-0.16	0.35	-0.6	-0.62
ORP-F	mV			-6.4	30.1	-143.6	-26.9	-215.8	-220.7
Turb	NTU			0.36	1.9	2.4	3.6	1.6	0.66
Alk-T	mg/L			340	360	350	310	310	300
Acidity83	mg/L			0.5	0.5	0.5	0.5	1.9	0.5
N-D	mg/L			0.111	0.312	0.172	0.173	0.213	0.211
DOC	mg/L			0.82	22	1.4	0.80	0.99	0.82
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			400	410	400	380	370	350
Carb	mg/L			8.7	16	18	3.1	6.6	9.8
Cl-D	mg/L		1500	34	32	28	39	37	42
F-D	mg/L			1.6	1.6	1.8	1.4	1.5	1.2
Flu-CSR	mg/L	Flu-CSR		2.00	2.00	2.00	2.00	2.00	2.00
Br-D	mg/L			0.05	0.5	0.044	0.067	0.061	0.067
P-D	mg/L			0.12	0.22	0.32	0.088	0.11	0.052
Al-D	mg/L			0.0030	0.0062	0.0075	0.0081	0.0030	0.0030
Ag-D	mg/L			0.000020	0.000020	0.00005	0.000020	0.000020	0.000020
Ag-CSR	mg/L	Ag-CSR		0.000500	0.000500	0.000500	0.000500	0.000500	0.000500
As-D	mg/L		0.05	0.0165	0.0331	0.0450	0.0111	0.0130	0.00808
Ba-D	mg/L		10	0.0558	0.0481	0.0451	0.0655	0.0622	0.0784
B-D	mg/L		50	3.25	3.24	3.36	3.09	3.45	3.38
Be-D	mg/L		0.053	0.00010	0.00010	0.00025	0.00010	0.00010	0.00010
Bi-D	mg/L			0.0010	0.0010	0.0025	0.0010	0.0010	0.0010
Cd-D	mg/L			0.000010	0.000010	0.000025	0.000010	0.000010	0.000010
Cd-CSR	mg/L	Cd-CSR		0.000100	0.000100	0.000100	0.000300	0.000300	0.000300
Ca-D	mg/L			9.18	8.29	7.37	11.0	10.9	13.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Description				In-situ 5-South Flooded Mine Void (Coal Pillar)					
Well ID				QU0516W	QU0516W	QU0516W	QU0516W	QU0516W	QU0516W
*Station Type				GW	GW	GW	GW	GW	GW
Surface Elevation (m ASL)				309	309	309	309	309	309
H ₂ O Level (below top of casing) (m ASL)				184	184	184	184	184	184
H ₂ O Level below top of casing (m)				70	73	74	64	57	58
Date				19-Jul-23	24-Aug-23	31-Oct-23	18-Dec-23	7-Mar-24	27-Mar-24
Parameter	Units		CSR-AL						
Cr-D	mg/L		0.01	0.0010	0.0010	0.0025	0.0010	0.0010	0.0010
Co-D	mg/L		0.009	0.00020	0.00020	0.0005	0.00020	0.00020	0.00020
Cu-D	mg/L			0.00020	0.00020	0.0005	0.00020	0.00020	0.00020
Cu-CSR	mg/L	Cu-CSR		0.0200	0.0200	0.0200	0.0200	0.0200	0.0200
Fe-D	mg/L			0.055	0.040	0.048	0.059	0.044	0.100
Hard-D	mg/L			27.3	24.3	22.3	31.9	32.1	39.6
Pb-D	mg/L			0.00020	0.00020	0.0005	0.00020	0.00020	0.00020
Pb-CSR	mg/L	Pb-CSR		0.0400	0.0400	0.0400	0.0400	0.0400	0.0400
Mg-D	mg/L			1.06	0.88	0.94	1.10	1.17	1.43
Mn-D	mg/L			0.0542	0.0528	0.0588	0.0548	0.0554	0.0612
Na-D	mg/L			221	202	212	234	232	271
Mo-D	mg/L		10	0.0010	0.0010	0.0025	0.0010	0.0021	0.0020
Ni-D	mg/L			0.0010	0.0010	0.0025	0.0010	0.0010	0.0010
Ni-CSR	mg/L	Ni-CSR		0.250	0.250	0.250	0.250	0.250	0.250
K-D	mg/L			1.58	1.47	1.45	1.64	1.69	1.81
S-D	mg/L			49.3	29.8	30	66.1	66.1	83.5
Sb-D	mg/L		0.2	0.0005	0.0005	0.00125	0.0005	0.0005	0.0005
Se-D	mg/L		0.01	0.00027	0.00010	0.00202	0.00030	0.00449	0.00073
Si-D	mg/L			3.85	4.14	3.85	3.76	4.11	3.66
Sr-D	mg/L			0.169	0.144	0.119	0.206	0.181	0.253
Ti-D	mg/L		0.003	0.000010	0.000010	0.000025	0.000010	0.000010	0.000010
Ti-D	mg/L		1	0.005	0.005	0.0125	0.005	0.005	0.005
U-D	mg/L		3	0.00010	0.00010	0.00025	0.00010	0.00010	0.00010
V-D	mg/L			0.005	0.005	0.0125	0.005	0.005	0.005
Zn-D	mg/L			0.005	0.005	0.0125	0.005	0.005	0.005
Zn-CSR	mg/L	Zn-CSR		0.075	0.075	0.075	0.075	0.075	0.075
NH3	mg/L								
NH3-CSR	mg/L	NH3-CSR		3.70	3.70	3.7	3.7	3.70	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		In-situ 7-South Underground Sump						
Well ID								
*Station Type								
Date	Units	**	CSR-AL	1M7SA5 MW 24-Apr-23	1M7SA5 MW 4-May-23	1M7SA5 MW 12-Jun-23	1M7SA5 MW 19-Jul-23	1M7SA5 MW 19-Sep-23
Parameter	Units							
SO4-D	mg/L		1280	120	83	100	130	180
H2SEquiv	mg/L	H2S	0.02					0.000957
Cond-F	uS/cm			507	452	491	504	700
pH-F	pH Units			8.17	8.33	8.22	7.13	7.24
Temp-F	C			12.2	13.8	15.5	17.7	9.6
DO-F	mg/L							
ORP-F	mV							
Turb	NTU			4.0	2.3	0.92	0.59	0.71
Alk-T	mg/L			130	150	140	140	140
Acidity83	mg/L				0.5	0.5	7.0	0.5
N-D	mg/L			0.314	0.251	0.246	0.255	0.463
DOC	mg/L			0.95	0.83	0.82	1.0	0.63
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			160	180	170	170	170
Carb	mg/L			0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	0.5	0.5	0.5	1.3	0.5
F-D	mg/L			0.37	0.43	0.48	0.51	0.48
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.005	0.005	0.005	0.005	0.005
P-D	mg/L			0.0070	0.018	0.012	0.0033	0.0038
Al-D	mg/L			0.0071	0.0068	0.0070	0.0117	0.0068
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.0398	0.0788	0.0364	0.00512	0.0240
Ba-D	mg/L		10	0.146	0.186	0.174	0.155	0.137
B-D	mg/L		50	0.392	0.463	0.526	0.520	0.566
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			69.9	57.5	57.5	61.7	72.6
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00112	0.00052	0.00043	0.00068	0.00041
Cu-D	mg/L			0.00059	0.00188	0.00169	0.00158	0.00029
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0800	0.0900	0.0900	0.0900
Fe-D	mg/L			0.112	0.0693	0.0744	0.114	0.0548
Hard-D	mg/L			233	195	201	218	269
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.110	0.0600	0.110	0.110	0.110
Mg-D	mg/L			14.2	12.5	13.9	15.6	21.3
Mn-D	mg/L			0.0637	0.0306	0.0199	0.0397	0.0216
Na-D	mg/L			16.8	19.6	20.2	20.3	21.3
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0026	0.0015	0.0020	0.0029	0.0022
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50
K-D	mg/L			2.05	2.04	2.16	2.26	2.31
S-D	mg/L			45.8	28.6	37.1	48.1	61.3
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			4.36	4.53	4.49	4.76	4.37
Sr-D	mg/L			0.596	0.563	0.626	0.637	0.718
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000014	0.000011
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0098	0.0025	0.0025	0.0089	0.0025
Zn-CSR	mg/L	Zn-CSR		1.650	0.900	1.650	1.650	1.650

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Table 34 In-situ Minewater 28 Page(s)

Description		In-situ 7-South Underground Sump						
Well ID								
*Station Type								
Date	Units	**	CSR-AL	1M7SA5 MW 24-Apr-23	1M7SA5 MW 4-May-23	1M7SA5 MW 12-Jun-23	1M7SA5 MW 19-Jul-23	1M7SA5 MW 19-Sep-23
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		3.70	3.70	3.70	18.5	18.5
N-NH3	mg/L			0.021	0.035	0.0075	0.0075	0.0075
Al-T	mg/L			0.0259	0.0182	0.0098	0.0223	0.0100
As-T	mg/L			0.0727	0.101	0.0397	0.0128	0.0297
B-T	mg/L			0.364	0.482	0.441	0.503	0.568
Ba-T	mg/L			0.127	0.176	0.152	0.145	0.128
Be-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			62.7	52.8	48.9	57.6	66.0
Cd-T	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005
Co-T	mg/L			0.00107	0.00052	0.00040	0.00066	0.00040
Cr-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cu-T	mg/L			0.00085	0.00227	0.00193	0.00089	0.00025
Fe-T	mg/L			0.570	0.348	0.209	0.595	0.205
Hard-T	mg/L			209	180	173	207	245
K-T	mg/L			1.74	1.95	1.93	2.14	2.05
Li-T	mg/L			0.0300	0.0375	0.0365	0.0419	0.0452
Mg-T	mg/L			12.6	11.6	12.4	15.3	19.5
Mn-T	mg/L			0.0575	0.0298	0.0184	0.0372	0.0206
Mo-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
N-T	mg/L							
Na-T	mg/L			15.3	18.3	17.9	20.1	19.3
Ni-T	mg/L			0.0025	0.0015	0.0020	0.0027	0.0022
P-T	mg/L							
S-T	mg/L			40.5	27.2	30.3	42.3	55.8
Sb-T	mg/L			0.00025	0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Si-T	mg/L			3.63	4.41	3.66	4.18	3.87
Sn-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			0.524	0.544	0.530	0.604	0.650
Ti-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Zn-T	mg/L			0.0137	0.0025	0.0025	0.0064	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description				In-situ 7-South Underground Sump						
Well ID				1M7SA5	1M7SA5	1M7SA5	1M7SA5	1M7SA5	1M7SA5	7SA5
*Station Type				MW	MW	MW	MW	MW	MW	MW
Date				17-Oct-23	14-Nov-23	13-Dec-23	8-Jan-24	21-Feb-24	26-Mar-24	24-Apr-23
Parameter	Units	**	CSR-AL							
SO4-D	mg/L		1280	150	230	230	140	83	90	48
H2SEquiv	mg/L	H2S	0.02					0.000957	0.000957	
Cond-F	uS/cm			595	751	789	489	446	473	386
pH-F	pH Units			7.59	7.05	7.31	7.76	8.12	7.88	8.44
Temp-F	C			14.6	10.4	9.5	10.6	8.6	8.1	12.2
DO-F	mg/L									
ORP-F	mV									
Turb	NTU			1.3	1.6	3.9	2.3	0.81	1.3	2.8
Alk-T	mg/L			140	120	100	120	130	130	160
Acidity83	mg/L			2.4	0.5	3.9	0.5	0.5	0.5	
N-D	mg/L			0.400	1.13	0.334	0.319	0.203	0.268	0.164
DOC	mg/L			0.77	0.91	1.1	1.1	0.93	1.2	0.59
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			170	140	130	140	160	150	190
Carb	mg/L			0.5	0.5	0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	0.5	1.3	0.5	0.5	0.5	1.0	1.2
F-D	mg/L			0.49	0.40	0.29	0.35	0.40	0.37	0.55
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.005	0.005	0.005	0.005	0.005	0.005
P-D	mg/L			0.0044	0.0064	0.0015	0.0091	0.0080	0.0078	0.054
Al-D	mg/L			0.0175	0.0117	0.0053	0.0041	0.0037	0.0072	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.0330	0.0232	0.00233	0.0653	0.102	0.0654	0.225
Ba-D	mg/L		10	0.140	0.111	0.0692	0.102	0.138	0.130	0.131
B-D	mg/L		50	0.568	0.522	0.390	0.394	0.456	0.451	0.554
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000011	0.000028	0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			69.6	86.4	99.4	65.3	53.6	57.2	45.6
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00042	0.00285	0.00786	0.00278	0.00090	0.00108	0.00010
Cu-D	mg/L			0.00095	0.00089	0.00076	0.00036	0.00020	0.00028	0.00021
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900	0.0800	0.0900	0.0700
Fe-D	mg/L			0.0724	0.0100	0.287	0.0308	0.0178	0.0557	0.0075
Hard-D	mg/L			256	307	345	224	185	200	156
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.110	0.160	0.160	0.110	0.0600	0.110	0.0600
Mg-D	mg/L			19.9	22.2	23.5	14.7	12.4	13.8	10.1
Mn-D	mg/L			0.0218	0.100	0.252	0.101	0.0375	0.0416	0.0063
Na-D	mg/L			22.5	19.4	15.3	15.1	17.7	17.5	24.5
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0011
Ni-D	mg/L			0.0019	0.0055	0.0133	0.0047	0.0020	0.0025	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50	1.50	1.10
K-D	mg/L			2.38	2.24	2.06	1.86	1.94	1.91	2.13
S-D	mg/L			52.4	75.4	96.9	48.5	30.2	37.0	16.6
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			4.44	4.62	4.61	4.31	4.88	4.11	5.50
Sr-D	mg/L			0.678	0.742	0.635	0.510	0.514	0.503	0.585
Tl-D	mg/L		0.003	0.000016	0.000044	0.000051	0.000020	0.000017	0.000012	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0069	0.0123	0.0159	0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		1.650	2.400	2.400	1.650	0.900	1.650	0.900

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description				In-situ 7-South Underground Sump						
Well ID				1M7SA5	1M7SA5	1M7SA5	1M7SA5	1M7SA5	1M7SA5	7SA5
*Station Type				MW	MW	MW	MW	MW	MW	MW
Date				17-Oct-23	14-Nov-23	13-Dec-23	8-Jan-24	21-Feb-24	26-Mar-24	24-Apr-23
Parameter	Units	**	CSR-AL							
NH3	mg/L									
NH3-CSR	mg/L	NH3-CSR		11.3	18.5	18.5	11.3	3.70	11.3	3.70
N-NH3	mg/L			0.0075	0.0075	0.038	0.097	0.044	0.017	0.0075
Al-T	mg/L			0.0254	0.0209	0.0544	0.0110	0.0075	0.0448	0.0288
As-T	mg/L			0.0479	0.0276	0.0156	0.0847	0.104	0.0683	0.214
B-T	mg/L			0.593	0.496	0.363	0.391	0.428	0.389	0.548
Ba-T	mg/L			0.142	0.101	0.0652	0.100	0.129	0.117	0.119
Be-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			70.9	77.1	92.2	65.6	50.1	54.3	41.2
Cd-T	mg/L			0.000005	0.000014	0.000033	0.000020	0.000005	0.000005	0.000005
Co-T	mg/L			0.00047	0.00250	0.00751	0.00280	0.00080	0.00126	0.00010
Cr-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu-T	mg/L			0.00136	0.00112	0.00206	0.00052	0.00025	0.00087	0.00025
Fe-T	mg/L			0.277	0.210	1.32	0.225	0.089	0.466	0.099
Hard-T	mg/L			261	277	324	225	172	188	141
K-T	mg/L			2.36	2.11	1.94	1.87	1.73	1.71	1.95
Li-T	mg/L			0.0482	0.0382	0.0303	0.0312	0.0325	0.0310	0.0374
Mg-T	mg/L			20.4	20.6	22.9	14.9	11.4	12.6	9.28
Mn-T	mg/L			0.0238	0.0922	0.234	0.110	0.0337	0.0434	0.0066
Mo-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0011
N-T	mg/L									
Na-T	mg/L			22.5	18.0	14.5	15.9	16.5	15.4	22.6
Ni-T	mg/L			0.0020	0.0050	0.0128	0.0046	0.0018	0.0028	0.0005
P-T	mg/L									
S-T	mg/L			57.0	68.1	91.0	49.5	26.2	35.7	14.3
Sb-T	mg/L			0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Si-T	mg/L			4.57	3.79	4.32	4.58	4.11	3.75	5.09
Sn-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			0.689	0.694	0.585	0.509	0.489	0.460	0.519
Ti-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Zn-T	mg/L			0.0090	0.0095	0.0173	0.0054	0.0025	0.0260	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		In-situ 7-South Area 5						
Well ID								
*Station Type								
Date	Units	**	CSR-AL	7SA5 MW 4-May-23	7SA5 MW 12-Jun-23	7SA5 MW 19-Sep-23	7SA5 MW 17-Oct-23	7SA5 MW 14-Nov-23
Parameter	Units							
SO4-D	mg/L		1280	56	72	130	120	24
H2SEquiv	mg/L	H2S	0.02			0.000957		
Cond-F	uS/cm			476	467	599	508	429
pH-F	pH Units			8.54	8.36	7.02	7.79	7.44
Temp-F	C			16.1	16	11.6	14.8	10.1
DO-F	mg/L							
ORP-F	mV							
Turb	NTU			1.1	5.2	2.4	1.6	3.6
Alk-T	mg/L			160	150	150	150	170
Acidity83	mg/L			0.5	0.5	4.3	0.5	0.5
N-D	mg/L			0.182	0.187	0.366	0.305	0.447
DOC	mg/L			0.76	0.93	0.50	0.58	0.25
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			200	180	180	180	210
Carb	mg/L			0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	1.1	1.2	1.5	1.0	0.5
F-D	mg/L			0.56	0.55	0.57	0.56	0.44
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.005	0.005	0.005	0.005	0.005
P-D	mg/L			0.044	0.059	0.029	0.026	0.042
Al-D	mg/L			0.0015	0.0087	0.0362	0.0049	0.0038
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.195	0.172	0.185	0.180	0.222
Ba-D	mg/L		10	0.129	0.126	0.117	0.118	0.110
B-D	mg/L		50	0.580	0.601	0.634	0.611	0.560
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			46.7	50.0	56.3	58.2	45.4
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00024	0.00075	0.00026	0.00010	0.00010
Cu-D	mg/L			0.00023	0.00043	0.00034	0.00056	0.00032
Cu-CSR	mg/L	Cu-CSR		0.0700	0.0700	0.0900	0.0900	0.0700
Fe-D	mg/L			0.0193	0.0953	0.0623	0.0485	0.0221
Hard-D	mg/L			160	174	207	212	157
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0600	0.0600	0.110	0.110	0.0600
Mg-D	mg/L			10.4	11.9	16.1	16.2	10.5
Mn-D	mg/L			0.0115	0.0158	0.0075	0.0053	0.0119
Na-D	mg/L			24.0	24.6	24.4	26.0	24.9
Mo-D	mg/L		10	0.0011	0.0010	0.0011	0.0012	0.0014
Ni-D	mg/L			0.0010	0.0023	0.0020	0.0014	0.0005
Ni-CSR	mg/L	Ni-CSR		1.10	1.10	1.50	1.50	1.10
K-D	mg/L			2.13	2.14	2.19	2.30	1.91
S-D	mg/L			19.1	26.5	46.6	40.7	20.5
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			5.41	5.32	5.12	5.17	5.14
Sr-D	mg/L			0.578	0.618	0.690	0.640	0.547
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.900	0.900	1.650	1.650	0.900

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		In-situ 7-South Area 5						
Well ID								
*Station Type								
Date	Units	**	CSR-AL	7SA5 MW	7SA5 MW	7SA5 MW	7SA5 MW	7SA5 MW
				4-May-23	12-Jun-23	19-Sep-23	17-Oct-23	14-Nov-23
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		1.31	3.70	18.5	11.3	18.5
N-NH3	mg/L			0.0075	0.0075	0.0075	0.0075	0.0075
Al-T	mg/L			0.0116	0.0305	0.0156	0.0141	0.0114
As-T	mg/L			0.198	0.182	0.198	0.212	0.206
B-T	mg/L			0.620	0.471	0.641	0.644	0.517
Ba-T	mg/L			0.124	0.109	0.115	0.121	0.0973
Be-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			44.2	40.6	56.5	58.9	38.9
Cd-T	mg/L			0.000005	0.000005	0.000005	0.000005	0.000033
Co-T	mg/L			0.00026	0.00084	0.00040	0.00021	0.00010
Cr-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cu-T	mg/L			0.00025	0.00181	0.00095	0.00105	0.00061
Fe-T	mg/L			0.155	0.586	0.361	0.275	0.155
Hard-T	mg/L			150	142	209	216	136
K-T	mg/L			1.97	1.83	2.04	2.31	1.76
Li-T	mg/L			0.0402	0.0350	0.0475	0.0470	0.0365
Mg-T	mg/L			9.75	9.98	16.6	16.8	9.32
Mn-T	mg/L			0.0123	0.0161	0.0119	0.0073	0.0117
Mo-T	mg/L			0.0010	0.0005	0.0011	0.0012	0.0012
N-T	mg/L							
Na-T	mg/L			22.8	20.7	24.1	27.2	22.0
Ni-T	mg/L			0.0010	0.0024	0.0022	0.0015	0.0005
P-T	mg/L							
S-T	mg/L			16.9	21.1	42.2	44.1	17.9
Sb-T	mg/L			0.00025	0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Si-T	mg/L			5.29	4.29	4.87	5.34	3.99
Sn-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			0.544	0.504	0.634	0.661	0.489
Ti-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Zn-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		In-situ 7-South Area 5					
Well ID	Station Type	7SA5	7SA5	7SA5	7SA5	7SA5	7SA5
Date	Units	**	CSR-AL	13-Dec-23	8-Jan-24	21-Feb-24	26-Mar-24
Parameter	Units	**	CSR-AL	13-Dec-23	8-Jan-24	21-Feb-24	26-Mar-24
SO4-D	mg/L		1280	55	37	45	44
H2SEquiv	mg/L	H2S	0.02			0.000957	0.000957
Cond-F	uS/cm			487	480	442	401
pH-F	pH Units			7.84	8.35	6.97	8.1
Temp-F	C			9.5	12.1	8.5	10.2
DO-F	mg/L						
ORP-F	mV						
Turb	NTU			2.9	1.4	2.1	1.0
Alk-T	mg/L			150	160	150	150
Acidity83	mg/L			0.5	0.5	0.5	0.5
N-D	mg/L			0.652	0.270	0.212	0.374
DOC	mg/L			1.6	0.82	1.0	0.87
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			190	200	190	180
Carb	mg/L			0.5	0.5	0.5	1.2
Cl-D	mg/L		1500	0.5	0.5	0.5	1.1
F-D	mg/L			0.52	0.48	0.46	0.46
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00
Br-D	mg/L			0.005	0.005	0.005	0.005
P-D	mg/L			0.018	0.12	0.013	0.025
Al-D	mg/L			0.0015	0.0015	0.0015	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.207	0.209	0.197	0.197
Ba-D	mg/L		10	0.152	0.155	0.264	0.254
B-D	mg/L		50	0.549	0.560	0.566	0.552
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			46.2	44.3	45.2	44.4
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00034	0.00032	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0700	0.0700	0.0700	0.0700
Fe-D	mg/L			0.0154	0.0277	0.0293	0.0267
Hard-D	mg/L			158	155	154	154
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0600	0.0600	0.0600	0.0600
Mg-D	mg/L			10.5	10.9	10.1	10.4
Mn-D	mg/L			0.0124	0.0132	0.0105	0.0091
Na-D	mg/L			24.3	23.6	22.4	22.9
Mo-D	mg/L		10	0.0010	0.0010	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.10	1.10	1.10	1.10
K-D	mg/L			2.03	2.06	2.19	2.14
S-D	mg/L			17.8	19.1	14.8	15.7
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			5.08	5.12	5.58	4.75
Sr-D	mg/L			0.523	0.530	0.525	0.515
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.900	0.900	0.900	0.900

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		In-situ 7-South Area 5					
Well ID		7SA5		7SA5		7SA5	
*Station Type		MW		MW		MW	
Date				13-Dec-23	8-Jan-24	21-Feb-24	26-Mar-24
Parameter	Units	**	CSR-AL				
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		11.3	3.70	18.4	3.7
N-NH3	mg/L			0.028	0.037	0.029	0.023
Al-T	mg/L			0.0698	0.0083	0.0128	0.0051
As-T	mg/L			0.240	0.226	0.194	0.191
B-T	mg/L			0.551	0.584	0.530	0.482
Ba-T	mg/L			0.150	0.156	0.244	0.232
Be-T	mg/L			0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			44.6	46.6	41.5	40.3
Cd-T	mg/L			0.000005	0.000034	0.000005	0.000005
Co-T	mg/L			0.00024	0.00010	0.00010	0.00010
Cr-T	mg/L			0.0005	0.0005	0.0005	0.0005
Cu-T	mg/L			0.00084	0.00025	0.00025	0.00025
Fe-T	mg/L			0.184	0.159	0.120	0.122
Hard-T	mg/L			158	162	142	137
K-T	mg/L			2.03	2.06	1.94	1.89
Li-T	mg/L			0.0423	0.0425	0.0386	0.0372
Mg-T	mg/L			11.3	11.1	9.29	8.78
Mn-T	mg/L			0.0138	0.0170	0.0103	0.0085
Mo-T	mg/L			0.0011	0.0011	0.0005	0.0005
N-T	mg/L						
Na-T	mg/L			24.2	24.7	21.2	20.3
Ni-T	mg/L			0.0005	0.0005	0.0005	0.0005
P-T	mg/L						
S-T	mg/L			17.6	20.2	13.3	14.1
Sb-T	mg/L			0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00005	0.00005
Si-T	mg/L			5.14	5.44	4.70	4.30
Sn-T	mg/L			0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			0.517	0.544	0.507	0.458
Ti-T	mg/L			0.0025	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00005	0.00005
Zn-T	mg/L			0.0025	0.0025	0.0025	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description				In-situ 7-South 2 and 3 Mains			
Well ID				2M7S	2M7S	3M7S	3M7S
*Station Type				MW	MW	MW	MW
Date				21-Feb-24	26-Mar-24	21-Feb-24	26-Mar-24
Parameter	Units	**	CSR-AL				
SO4-D	mg/L		1280	220	160	770	820
H2SEquiv	mg/L	H2S	0.02	0.000957	0.000957	0.000957	0.000957
Cond-F	uS/cm			596	508	1287	1456
pH-F	pH Units			7.92	8	7.71	7.29
Temp-F	C			5.1	7.6	9	8
DO-F	mg/L						
ORP-F	mV						
Turb	NTU			41.0	1.4	0.75	0.50
Alk-T	mg/L			49	97	97	98
Acidity83	mg/L			0.5	0.5	2.9	2.8
N-D	mg/L			0.099	0.259	0.010	0.142
DOC	mg/L			1.3	1.3	0.25	0.71
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			60	120	120	120
Carb	mg/L			0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	0.5	0.5	1.5	1.4
F-D	mg/L			0.025	0.25	0.24	0.27
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00
Br-D	mg/L			0.018	0.005	0.05	0.005
P-D	mg/L			0.0015	0.0053	0.0015	0.0015
Al-D	mg/L			0.0064	0.0042	0.0015	0.0038
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00057	0.0333	0.00015	0.00028
Ba-D	mg/L		10	0.0124	0.0818	0.0214	0.0215
B-D	mg/L		50	0.101	0.353	0.836	0.756
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000018	0.000014
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			76.5	67.3	256	242
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00509	0.00135	0.00188	0.00169
Cu-D	mg/L			0.00057	0.00034	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L			0.0214	0.0105	0.0025	0.0143
Hard-D	mg/L			264	230	887	854
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.1100	0.1100	0.160	0.160
Mg-D	mg/L			17.7	15	60.2	60.7
Mn-D	mg/L			0.172	0.0452	0.0757	0.0772
Na-D	mg/L			5.53	13.8	28.0	25.7
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0107	0.0039	0.0121	0.0107
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50
K-D	mg/L			0.777	1.61	4.35	4.20
S-D	mg/L			77.6	50.7	282	281
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			4.11	3.93	2.87	2.97
Sr-D	mg/L			0.304	0.47	2.27	2.37
Tl-D	mg/L		0.003	0.00001	0.000017	0.000013	0.000013
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00019	0.00018
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0074	0.0067
Zn-CSR	mg/L	Zn-CSR		1.650	1.650	2.400	2.400

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description				In-situ 7-South 2 and 3 Mains			
Well ID				2M7S	2M7S	3M7S	3M7S
*Station Type				MW	MW	MW	MW
Date	Units	**	CSR-AL	21-Feb-24	26-Mar-24	21-Feb-24	26-Mar-24
Parameter	Units						
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		11.3	4	11.3	18.5
N-NH3	mg/L			0.041	0.0075	0.0075	0.0075
Al-T	mg/L			0.563	0.0117	0.0053	0.0096
As-T	mg/L			0.0129	0.00945	0.00050	0.00076
B-T	mg/L			0.085	0.174	0.672	0.687
Ba-T	mg/L			0.0187	0.0356	0.0189	0.0195
Be-T	mg/L			0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			68.6	70.9	213	201
Cd-T	mg/L			0.000027	0.000018	0.000012	0.000013
Co-T	mg/L			0.00631	0.00301	0.00130	0.00177
Cr-T	mg/L			0.0012	0.0005	0.0005	0.0005
Cu-T	mg/L			0.0075	0.00068	0.00025	0.00025
Fe-T	mg/L			4	0.36	0.085	0.161
Hard-T	mg/L			235	234	738	711
K-T	mg/L			0.707	0.987	3.63	3.73
Li-T	mg/L			0.0046	0.0123	0.0687	0.0648
Mg-T	mg/L			15.6	13.7	49.9	50.9
Mn-T	mg/L			0.167	0.11	0.0508	0.0871
Mo-T	mg/L			0.0005	0.0005	0.0005	0.0005
N-T	mg/L						
Na-T	mg/L			4.99	7.24	20.5	22.6
Ni-T	mg/L			0.0119	0.0066	0.0093	0.0097
P-T	mg/L						
S-T	mg/L			68.7	62.8	226	253
Sb-T	mg/L			0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00011	0.00014	0.00005	0.00005
Si-T	mg/L			4.06	3.40	2.72	2.63
Sn-T	mg/L			0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			0.285	0.343	1.88	2.03
Ti-T	mg/L			0.0356	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00016	0.00014
Zn-T	mg/L			0.0189	0.0516	0.0062	0.0065

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		Tailings Dam Flow					
Well ID	Station Type	TDF EFF	TDF EFF	TDF EFF	TDF EFF	TDF EFF	TDF EFF
Date		3-Apr-23	10-Jul-23	3-Oct-23	2-Jan-24		
Parameter	Units	**	CSR-AL				
SO4-D	mg/L		1280	1400	1500	1400	1500
H2SEquiv	mg/L	H2S	0.02				
Cond-F	uS/cm			3070	2820	2850	2470.5
pH-F	pH Units			7.96	7.87	7.47	7.45
Temp-F	C			10.3	15.5	9.8	11.126
DO-F	mg/L						
ORP-F	mV						
Turb	NTU						
Alk-T	mg/L			300	330	320	300
Acidity83	mg/L			14.0	12.2	18.4	7.3
N-D	mg/L						
DOC	mg/L						0.51
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			370	400	400	360
Carb	mg/L			0.5	0.5	0.5	0.5
Cl-D	mg/L		1500				
F-D	mg/L						
Flu-CSR	mg/L	Flu-CSR		3.000	3.000	3.000	3.000
Br-D	mg/L						
P-D	mg/L						0.0015
Al-D	mg/L			0.0075	0.0075	0.0075	0.0030
Ag-D	mg/L			0.00005	0.00005	0.00005	0.000020
Ag-CSR	mg/L	Ag-CSR		0.01500	0.01500	0.01500	0.01500
As-D	mg/L		0.05	0.00025	0.00025	0.00025	0.00020
Ba-D	mg/L		10	0.0102	0.0100	0.0089	0.0107
B-D	mg/L		50	1.05	0.96	0.91	0.77
Be-D	mg/L		0.053	0.00025	0.00025	0.00025	0.00010
Bi-D	mg/L			0.0025	0.0025	0.0025	0.0010
Cd-D	mg/L			0.000025	0.000025	0.000025	0.000010
Cd-CSR	mg/L	Cd-CSR		0.0006000	0.0006000	0.0006000	0.0006000
Ca-D	mg/L			414	447	442	469
Cr-D	mg/L		0.01	0.0025	0.0025	0.0025	0.0010
Co-D	mg/L		0.009	0.0005	0.0005	0.0005	0.00020
Cu-D	mg/L			0.0005	0.0005	0.0005	0.00020
Cu-CSR	mg/L	Cu-CSR		0.09000	0.09000	0.09000	0.09000
Fe-D	mg/L			0.0125	0.0125	0.0125	0.005
Hard-D	mg/L			1210	1310	1290	1360
Pb-D	mg/L			0.0005	0.0005	0.0005	0.00020
Pb-CSR	mg/L	Pb-CSR		0.1600	0.1600	0.1600	0.1600
Mg-D	mg/L			41.8	45.8	44.7	45.5
Mn-D	mg/L			0.0408	0.0261	0.0543	0.0465
Na-D	mg/L			249	254	259	206
Mo-D	mg/L		10	0.0025	0.0025	0.0025	0.0010
Ni-D	mg/L			0.0025	0.0025	0.0025	0.0010
Ni-CSR	mg/L	Ni-CSR		1.500	1.500	1.500	1.500
K-D	mg/L			5.02	5.22	5.44	5.08
S-D	mg/L			500	523	515	498
Sb-D	mg/L		0.2	0.00125	0.00125	0.00125	0.0005
Se-D	mg/L		0.01	0.00025	0.00025	0.00025	0.00010
Si-D	mg/L			4.46	4.58	4.93	4.33
Sr-D	mg/L			3.11	3.44	3.20	3.26
Tl-D	mg/L		0.003	0.000025	0.000025	0.000025	0.000010
Ti-D	mg/L		1	0.0125	0.0125	0.0125	0.005
U-D	mg/L		3	0.00025	0.00025	0.00025	0.00010
V-D	mg/L			0.0125	0.0125	0.0125	0.005
Zn-D	mg/L			0.0125	0.0125	0.0125	0.005
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400	2.400

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		Tailings Dam Flow					
Well ID		TDF		TDF		TDF	
*Station Type		EFF		EFF		EFF	
Date				3-Apr-23	10-Jul-23	3-Oct-23	2-Jan-24
Parameter	Units	**	CSR-AL				
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	18.5	18.5
N-NH3	mg/L						0.0075
Al-T	mg/L			0.0030	0.0030	0.0030	0.0097
As-T	mg/L			0.00010	0.00010	0.00010	0.00010
B-T	mg/L			0.85	0.73	0.94	0.88
Ba-T	mg/L			0.0092	0.0080	0.0086	0.0110
Be-T	mg/L			0.00010	0.00010	0.00010	0.00010
Bi-T	mg/L			0.0010	0.0010	0.0010	0.0010
Ca-T	mg/L			396	356	417	441
Cd-T	mg/L			0.000010	0.000010	0.000010	0.000010
Co-T	mg/L			0.00020	0.00020	0.00020	0.00020
Cr-T	mg/L			0.0010	0.0010	0.0010	0.0010
Cu-T	mg/L			0.0005	0.0005	0.0005	0.0005
Fe-T	mg/L			0.010	0.010	0.010	0.010
Hard-T	mg/L			1150	1030	1230	1280
K-T	mg/L			4.93	4.46	5.26	4.80
Li-T	mg/L			0.0137	0.0123	0.0164	0.0171
Mg-T	mg/L			38.6	35.7	45.4	44.0
Mn-T	mg/L			0.0375	0.0215	0.0509	0.0433
Mo-T	mg/L			0.0010	0.0010	0.0010	0.0010
N-T	mg/L						
Na-T	mg/L			238	200	238	193
Ni-T	mg/L			0.0010	0.0010	0.0010	0.0010
P-T	mg/L						0.0015
S-T	mg/L			449	413	521	527
Sb-T	mg/L			0.0005	0.0005	0.0005	0.0005
Se-T	mg/L			0.00010	0.00010	0.00010	0.00010
Si-T	mg/L			3.78	3.88	4.77	4.53
Sn-T	mg/L			0.005	0.005	0.005	0.005
Sr-T	mg/L			2.95	2.75	3.20	3.19
Ti-T	mg/L			0.005	0.005	0.005	0.005
U-T	mg/L			0.00010	0.00010	0.00010	0.00010
Zn-T	mg/L			0.005	0.005	0.005	0.005

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		5 Mains Pump #2 - 2 North Mine						
Well ID								
*Station Type								
Date				11-Apr-23	4-May-23	6-Jun-23	21-Aug-23	24-Oct-23
Parameter	Units	**	CSR-AL					
SO4-D	mg/L		1280	150	160	150	160	160
H2SEquiv	mg/L	H2S	0.02	0.0255	0.0138	0.0723	0.0181	0.0276
Cond-F	uS/cm			1370	1342	1306	1498	1416
pH-F	pH Units			7.88	7.93	7.67	7.27	7.36
Temp-F	C			10.2	13.2	11.3	14.6	9
DO-F	mg/L							
ORP-F	mV							
Turb	NTU				2.2			4.8
Alk-T	mg/L			550	550	540	580	560
Acidity83	mg/L			11.0	0.5	0.5	0.5	3.8
N-D	mg/L			0.139	0.154	0.148	0.150	0.368
DOC	mg/L			0.86	0.85	1.2	0.87	0.75
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			670	670	600	700	690
Carb	mg/L			0.5	1.9	26	0.5	0.5
Cl-D	mg/L		1500	8.1	8.3	10	15	22
F-D	mg/L			0.072	0.059	0.071	0.085	0.025
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.20	0.05	0.25	0.05
P-D	mg/L			0.0015	0.0015	0.0063	0.0036	0.0015
Al-D	mg/L			0.0015	0.0015	0.0015	0.0015	0.0311
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00712	0.00644	0.00645	0.00725	0.00684
Ba-D	mg/L		10	0.0300	0.0303	0.0300	0.0305	0.0345
B-D	mg/L		50	0.835	0.901	0.923	0.895	1.01
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			68.9	66.3	65.5	63.6	73.1
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0800	0.0800	0.0800	0.0800	0.0900
Fe-D	mg/L			0.664	0.659	0.663	0.633	0.738
Hard-D	mg/L			195	190	186	184	206
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0600	0.0600	0.0600	0.0600	0.110
Mg-D	mg/L			5.54	5.86	5.47	6.11	5.79
Mn-D	mg/L			0.146	0.147	0.138	0.152	0.157
Na-D	mg/L			239	237	238	240	264
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50
K-D	mg/L			2.69	2.67	2.63	2.64	2.98
S-D	mg/L			52.8	50.0	52.0	53.2	57.2
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			3.79	3.55	3.66	3.50	3.90
Sr-D	mg/L			0.750	0.725	0.746	0.761	0.809
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.900	0.900	0.900	0.900	1.650

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		5 Mains Pump #2 - 2 North Mine						
Well ID								
*Station Type								
Date				11-Apr-23	4-May-23	6-Jun-23	21-Aug-23	24-Oct-23
Parameter	Units	**	CSR-AL					
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	11.3	18.5	18.5
N-NH3	mg/L			0.091	0.090	0.099	0.11	0.11
Al-T	mg/L			0.0015	0.0015	0.0030	0.0015	0.0033
As-T	mg/L			0.00681	0.00611	0.00645	0.00679	0.00687
B-T	mg/L			0.870	0.959	0.92	0.803	0.880
Ba-T	mg/L			0.0285	0.0286	0.0292	0.0293	0.0300
Be-T	mg/L			0.00005	0.00005	0.00010	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0010	0.0005	0.0005
Ca-T	mg/L			60.6	61.6	63.6	60.7	64.8
Cd-T	mg/L			0.000005	0.000005	0.000010	0.000005	0.000018
Co-T	mg/L			0.00023	0.00010	0.00020	0.00010	0.00010
Cr-T	mg/L			0.0005	0.0005	0.0010	0.0005	0.0005
Cu-T	mg/L			0.0245	0.00184	0.0077	0.0588	0.00485
Fe-T	mg/L			0.677	0.641	0.838	0.813	0.767
Hard-T	mg/L			172	176	181	175	184
K-T	mg/L			2.50	2.51	2.53	2.45	2.68
Li-T	mg/L			0.0073	0.0065	0.0053	0.0055	0.0053
Mg-T	mg/L			4.96	5.36	5.36	5.75	5.40
Mn-T	mg/L			0.148	0.137	0.136	0.134	0.139
Mo-T	mg/L			0.0005	0.0005	0.0010	0.0005	0.0005
N-T	mg/L							
Na-T	mg/L			211	224	228	234	246
Ni-T	mg/L			0.0017	0.0005	0.0010	0.0005	0.0005
P-T	mg/L							
S-T	mg/L			49.2	48.3	49.7	49.3	52.0
Sb-T	mg/L			0.00025	0.00025	0.0005	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00010	0.00005	0.00005
Si-T	mg/L			3.59	3.42	3.29	3.20	3.56
Sn-T	mg/L			0.0025	0.0025	0.013	0.0025	0.0025
Sr-T	mg/L			0.679	0.700	0.700	0.696	0.725
Ti-T	mg/L			0.0025	0.0025	0.005	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00010	0.00005	0.00005
Zn-T	mg/L			0.0068	0.0025	0.005	0.0115	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		5 Mains Pump #2 - 2 North Mine						
Well ID								
*Station Type								
Date				5M#2 MW	5M#2 MW	5M#2 MW	5M#2 MW	5M#2 MW
				23-Nov-23	13-Dec-23	8-Jan-24	13-Feb-24	13-Mar-24
Parameter	Units	**	CSR-AL					
SO4-D	mg/L		1280	160	160	170	180	180
H2SEquiv	mg/L	H2S	0.02	0.0223	0.0330	0.0128	0.0287	0.0244
Cond-F	uS/cm				1269.1	1293	1376	1335
pH-F	pH Units				7.29	7.67	7.92	7.48
Temp-F	C				8.505	8.2	8.6	12
DO-F	mg/L							
ORP-F	mV							
Turb	NTU			7.7	4.3	4.9	5.4	4.3
Alk-T	mg/L			580	550	520	540	500
Acidity83	mg/L			0.5	2.4	0.5	0.5	0.5
N-D	mg/L			0.367	0.282	0.261	0.306	0.229
DOC	mg/L			0.66	1.2	0.87	0.87	1.2
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			710	680	640	650	550
Carb	mg/L			0.5	0.5	0.5	0.5	29
Cl-D	mg/L		1500	20	15	11	9.2	8.4
F-D	mg/L			0.055	0.025	0.025	0.025	0.025
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.033	0.05	0.05	0.017	0.015
P-D	mg/L			0.0015	0.0031	0.0015	0.0015	0.0015
Al-D	mg/L			0.0015	0.0040	0.0038	0.0015	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00864	0.00639	0.00568	0.00628	0.00648
Ba-D	mg/L		10	0.0318	0.0324	0.0311	0.0316	0.0310
B-D	mg/L		50	0.910	0.953	0.897	0.966	0.913
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			66.8	68.5	69.4	73.6	72.2
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00021	0.00021	0.00010
Cu-D	mg/L			0.00040	0.00010	0.00025	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0800	0.0800	0.0800	0.0900	0.0900
Fe-D	mg/L			0.842	0.728	0.673	0.697	0.635
Hard-D	mg/L			191	195	199	209	204
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.0600	0.0600	0.0600	0.110	0.110
Mg-D	mg/L			5.84	5.80	6.29	6.04	5.85
Mn-D	mg/L			0.148	0.150	0.149	0.146	0.135
Na-D	mg/L			256	247	234	246	241
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50
K-D	mg/L			2.62	2.68	2.68	2.83	2.74
S-D	mg/L			58.4	56.1	61.4	67.8	67.5
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			3.19	3.85	3.69	3.63	3.74
Sr-D	mg/L			0.754	0.738	0.743	0.753	0.737
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		0.900	0.900	0.900	1.650	1.650

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		5 Mains Pump #2 - 2 North Mine						
Well ID								
*Station Type								
Date	Units	**	CSR-AL	5M#2 MW	5M#2 MW	5M#2 MW	5M#2 MW	5M#2 MW
				23-Nov-23	13-Dec-23	8-Jan-24	13-Feb-24	13-Mar-24
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR			18.5	11.3	11.3	18.5
N-NH3	mg/L			0.10	0.096	0.092	0.088	0.092
Al-T	mg/L			0.0015	0.0015	0.0015	0.0035	0.0015
As-T	mg/L			0.00669	0.00655	0.00616	0.00547	0.00702
B-T	mg/L			0.800	0.935	0.895	0.848	0.952
Ba-T	mg/L			0.0267	0.0320	0.0309	0.0274	0.0301
Be-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			59.0	66.0	67.5	61.2	66.7
Cd-T	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005
Co-T	mg/L			0.00010	0.00010	0.00030	0.00010	0.00024
Cr-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
Cu-T	mg/L			0.00923	0.00261	0.0146	0.0360	0.00196
Fe-T	mg/L			1.03	0.755	0.837	0.633	0.656
Hard-T	mg/L			168	189	195	174	189
K-T	mg/L			2.32	2.71	2.64	2.34	2.53
Li-T	mg/L			0.0037	0.0043	0.0059	0.0063	0.0070
Mg-T	mg/L			5.05	5.82	6.44	5.18	5.53
Mn-T	mg/L			0.131	0.150	0.152	0.134	0.135
Mo-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005
N-T	mg/L							
Na-T	mg/L			219	241	237	217	226
Ni-T	mg/L			0.0005	0.0005	0.0012	0.0005	0.0005
P-T	mg/L							
S-T	mg/L			45.7	54.9	60.6	54.5	65.8
Sb-T	mg/L			0.00025	0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Si-T	mg/L			2.98	3.70	3.73	3.06	3.59
Sn-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			0.617	0.723	0.737	0.635	0.711
Ti-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005
Zn-T	mg/L			0.0121	0.0025	0.0069	0.0025	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		1 Mains 2 North Mine					
Well ID		1M2N		1M2N		1M2N	
*Station Type		MW		MW		MW	
Date			11-Apr-23	4-May-23	6-Jun-23	27-Nov-23	
Parameter	Units	**	CSR-AL				
SO4-D	mg/L		1280	380	380	350	210
H2SEquiv	mg/L	H2S	0.02	0.128	0.0967	0.00733	0.0680
Cond-F	uS/cm			1756	1564	1590	1246.4
pH-F	pH Units			7.81	7.86	7.73	7.17
Temp-F	C			9.9	13.1	14.1	11.166
DO-F	mg/L						
ORP-F	mV						
Turb	NTU				10		17
Alk-T	mg/L			490	480	460	440
Acidity83	mg/L			15.9	8.4	0.5	4.1
N-D	mg/L			0.253	0.272	0.241	0.255
DOC	mg/L			1.2	1.1	0.91	1.2
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			600	590	520	540
Carb	mg/L			0.5	0.5	22	0.5
Cl-D	mg/L		1500	15	15	16	21
F-D	mg/L			0.14	0.15	0.15	0.19
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.22	0.05	0.041
P-D	mg/L			0.0015	0.0062	0.0015	0.0015
Al-D	mg/L			0.0015	0.0015	0.0015	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.0118	0.0104	0.0131	0.00694
Ba-D	mg/L		10	0.0227	0.0219	0.0232	0.0265
B-D	mg/L		50	0.939	1.00	0.929	0.844
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			99.7	92.5	86.6	58.2
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0700
Fe-D	mg/L			3.42	3.01	1.10	1.62
Hard-D	mg/L			293	275	258	173
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.110	0.110	0.110	0.0600
Mg-D	mg/L			10.6	10.8	10.1	6.70
Mn-D	mg/L			0.343	0.346	0.312	0.174
Na-D	mg/L			284	271	266	233
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.10
K-D	mg/L			4.26	4.13	4.20	3.58
S-D	mg/L			137	126	128	74.2
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			3.95	3.73	3.54	3.57
Sr-D	mg/L			1.05	0.979	0.969	0.573
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0212	0.0315	0.0025
Zn-CSR	mg/L	Zn-CSR		1.650	1.650	1.650	0.900

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		1 Mains 2 North Mine					
Well ID		1M2N		1M2N		1M2N	
*Station Type		MW		MW		MW	
Date				11-Apr-23	4-May-23	6-Jun-23	27-Nov-23
Parameter	Units	**	CSR-AL				
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	11.3	18.5
N-NH3	mg/L			0.22	0.20	0.20	0.18
Al-T	mg/L			0.0015	0.0015	0.0030	0.0015
As-T	mg/L			0.0110	0.00922	0.0198	0.00774
B-T	mg/L			0.977	1.05	0.97	0.742
Ba-T	mg/L			0.0225	0.0198	0.0244	0.0268
Be-T	mg/L			0.00005	0.00005	0.00010	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0010	0.0005
Ca-T	mg/L			88.4	84.7	86.5	51.3
Cd-T	mg/L			0.000005	0.000005	0.000010	0.000005
Co-T	mg/L			0.00010	0.00010	0.00020	0.00010
Cr-T	mg/L			0.0005	0.0005	0.0010	0.0005
Cu-T	mg/L			0.00075	0.00178	0.0048	0.00025
Fe-T	mg/L			3.42	3.07	3.86	1.42
Hard-T	mg/L			262	251	258	156
K-T	mg/L			4.05	3.85	4.16	3.36
Li-T	mg/L			0.0144	0.0133	0.0177	0.0157
Mg-T	mg/L			9.87	9.65	10.2	6.69
Mn-T	mg/L			0.325	0.319	0.308	0.162
Mo-T	mg/L			0.0005	0.0005	0.0010	0.0005
N-T	mg/L						
Na-T	mg/L			257	254	269	213
Ni-T	mg/L			0.0005	0.0005	0.0010	0.0005
P-T	mg/L						
S-T	mg/L			130	118	124	71.9
Sb-T	mg/L			0.00025	0.00025	0.0005	0.00025
Se-T	mg/L			0.00005	0.00005	0.00010	0.00014
Si-T	mg/L			3.79	3.49	3.51	3.00
Sn-T	mg/L			0.0025	0.0025	0.013	0.0025
Sr-T	mg/L			0.977	0.914	0.953	0.598
Ti-T	mg/L			0.0025	0.0025	0.005	0.0025
U-T	mg/L			0.00005	0.00005	0.00010	0.00005
Zn-T	mg/L			0.0110	0.0312	0.098	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		1 Mains 2 North Mine					
Well ID		1M2N		1M2N		1M2N	
*Station Type		MW		MW		MW	
Date			13-Dec-23		8-Jan-24		13-Feb-24
Parameter	Units	**	CSR-AL				
SO4-D	mg/L		1280	400	460	440	430
H2SEquiv	mg/L	H2S	0.02	0.0659	0.0287	0.117	0.0850
Cond-F	uS/cm			1573.6	1668	1645	1651
pH-F	pH Units			7.07	7.22	6.69	7.11
Temp-F	C			9.27	8.5	9.3	11
DO-F	mg/L						
ORP-F	mV						
Turb	NTU			38	43	43	47
Alk-T	mg/L			480	460	460	420
Acidity83	mg/L			15.6	4.8	4.0	0.5
N-D	mg/L			0.573	0.392	0.390	0.338
DOC	mg/L			1.3	1.3	0.97	1.3
Hydrox	mg/L			0.5	0.5	0.5	0.5
Bicarb	mg/L			580	560	560	480
Carb	mg/L			0.5	0.5	0.5	17
Cl-D	mg/L		1500	17	15	11	10
F-D	mg/L			0.12	0.12	0.12	0.11
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.05	0.05	0.020
P-D	mg/L			0.017	0.011	0.0047	0.0040
Al-D	mg/L			0.0015	0.0015	0.0015	0.0015
Ag-D	mg/L			0.000010	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00675	0.00723	0.00723	0.00729
Ba-D	mg/L		10	0.0312	0.0266	0.0246	0.0240
B-D	mg/L		50	1.01	1.04	1.04	0.972
Be-D	mg/L		0.053	0.00005	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0005	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000005	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			98.4	107	111	106
Cr-D	mg/L		0.01	0.0005	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00010	0.00010	0.00010	0.00010
Cu-D	mg/L			0.00010	0.00061	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L			2.84	3.16	3.51	3.13
Hard-D	mg/L			291	317	325	311
Pb-D	mg/L			0.00010	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.110	0.160	0.160	0.160
Mg-D	mg/L			11.0	12.2	11.8	11.0
Mn-D	mg/L			0.309	0.343	0.368	0.330
Na-D	mg/L			283	283	295	271
Mo-D	mg/L		10	0.0005	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0005	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50
K-D	mg/L			4.36	4.29	4.56	4.32
S-D	mg/L			143	166	171	163
Sb-D	mg/L		0.2	0.00025	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00005	0.00005	0.00005	0.00005
Si-D	mg/L			3.94	3.92	3.77	3.89
Sr-D	mg/L			1.02	1.09	1.09	1.03
Tl-D	mg/L		0.003	0.000005	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.0025	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00005	0.00005	0.00005	0.00005
V-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-D	mg/L			0.0025	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		1.650	2.400	2.400	2.400

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		1 Mains 2 North Mine					
Well ID		1M2N		1M2N		1M2N	
*Station Type		MW		MW		MW	
Date				13-Dec-23	8-Jan-24	13-Feb-24	13-Mar-24
Parameter	Units	**	CSR-AL				
NH3	mg/L						
NH3-CSR	mg/L	NH3-CSR		18.5	18.5	18.4	18.5
N-NH3	mg/L			0.22	0.21	0.22	0.22
Al-T	mg/L			0.0015	0.0015	0.0039	0.0040
As-T	mg/L			0.00723	0.00747	0.00644	0.00806
B-T	mg/L			0.994	0.959	0.942	0.967
Ba-T	mg/L			0.0305	0.0254	0.0212	0.0233
Be-T	mg/L			0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			91.9	103	91.2	95.1
Cd-T	mg/L			0.000005	0.000005	0.000005	0.000005
Co-T	mg/L			0.00010	0.00010	0.00010	0.00010
Cr-T	mg/L			0.0005	0.0005	0.0005	0.0005
Cu-T	mg/L			0.00295	0.00086	0.00160	0.00997
Fe-T	mg/L			2.79	3.18	2.98	2.97
Hard-T	mg/L			275	305	269	279
K-T	mg/L			4.22	4.14	3.81	3.84
Li-T	mg/L			0.0149	0.0149	0.0143	0.0137
Mg-T	mg/L			11.0	11.7	10.0	10.1
Mn-T	mg/L			0.303	0.345	0.327	0.323
Mo-T	mg/L			0.0005	0.0005	0.0005	0.0005
N-T	mg/L						
Na-T	mg/L			272	285	261	248
Ni-T	mg/L			0.0005	0.0005	0.0005	0.0005
P-T	mg/L						
S-T	mg/L			137	159	142	148
Sb-T	mg/L			0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00005	0.00005
Si-T	mg/L			3.67	3.82	3.11	3.61
Sn-T	mg/L			0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			0.979	1.04	0.923	0.968
Ti-T	mg/L			0.0025	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00005	0.00005
Zn-T	mg/L			0.0025	0.0053	0.0025	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		3 Mains 2 North Mine						
Well ID				3M2N	3M2N	3M2N	3M2N	3M2N
*Station Type				MW	MW	MW	MW	MW
Date				24-Apr-23	4-May-23	12-Jun-23	19-Jul-23	19-Sep-23
Parameter	Units	**	CSR-AL					
SO4-D	mg/L		1280	740	780	730	800	800
H2SEquiv	mg/L	H2S	0.02					0.000957
Cond-F	uS/cm			2030	1985	2030	2100	2330
pH-F	pH Units			7.53	7.54	7.46	7.25	7.09
Temp-F	C			13.5	13.3	18.9	13.5	10.4
DO-F	mg/L							
ORP-F	mV							
Turb	NTU			2.8	3.6	4.6	0.18	14
Alk-T	mg/L			400	400	380	290	390
Acidity83	mg/L				12.2	10.5	5.2	2.0
N-D	mg/L			0.150	0.187	0.433	0.071	0.229
DOC	mg/L			0.70	0.77	1.2	0.52	0.68
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			490	490	460	350	480
Carb	mg/L			0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500	3.1	2.7	2.7	11	3.5
F-D	mg/L			0.13	0.14	0.13	0.10	0.14
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.05	0.005	0.05	0.05
P-D	mg/L			0.0015	0.0015	0.0015	0.0015	0.0015
Al-D	mg/L			0.0030	0.0034	0.0015	0.0030	0.0015
Ag-D	mg/L			0.000020	0.000010	0.000010	0.000020	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00027	0.00032	0.00023	0.00010	0.00029
Ba-D	mg/L		10	0.0158	0.0146	0.0140	0.0108	0.0155
B-D	mg/L		50	0.78	0.763	0.756	0.76	0.750
Be-D	mg/L		0.053	0.00010	0.00005	0.00005	0.00010	0.00005
Bi-D	mg/L			0.0010	0.0005	0.0005	0.0010	0.0005
Cd-D	mg/L			0.000010	0.000005	0.000005	0.000010	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			151	137	138	210	142
Cr-D	mg/L		0.01	0.0010	0.0005	0.0005	0.0010	0.0005
Co-D	mg/L		0.009	0.00020	0.00028	0.00037	0.00020	0.00074
Cu-D	mg/L			0.00062	0.00104	0.00637	0.00075	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L			0.117	0.200	0.0171	0.005	0.0332
Hard-D	mg/L			458	425	428	597	438
Pb-D	mg/L			0.00020	0.00010	0.00010	0.00020	0.00010
Pb-CSR	mg/L	Pb-CSR		0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L			19.9	19.9	20.1	17.9	20.4
Mn-D	mg/L			0.169	0.156	0.188	0.0055	0.182
Na-D	mg/L			356	330	327	204	336
Mo-D	mg/L		10	0.0010	0.0005	0.0005	0.0010	0.0005
Ni-D	mg/L			0.0010	0.0005	0.0005	0.0010	0.0014
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50
K-D	mg/L			4.01	3.55	3.77	3.56	3.78
S-D	mg/L			269	244	261	257	303
Sb-D	mg/L		0.2	0.0005	0.00025	0.00025	0.0005	0.00025
Se-D	mg/L		0.01	0.00010	0.00005	0.00005	0.00010	0.00005
Si-D	mg/L			3.12	3.30	3.27	2.88	3.19
Sr-D	mg/L			1.58	1.48	1.55	1.47	1.69
Tl-D	mg/L		0.003	0.000010	0.000005	0.000005	0.000010	0.000005
Ti-D	mg/L		1	0.005	0.0025	0.0025	0.005	0.0025
U-D	mg/L		3	0.00010	0.00005	0.00005	0.00010	0.00005
V-D	mg/L			0.005	0.0025	0.0025	0.005	0.0025
Zn-D	mg/L			0.005	0.0025	0.0025	0.005	0.0025
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400	2.400	2.400

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		3 Mains 2 North Mine						
Well ID								
*Station Type								
Date	Units	**	CSR-AL	24-Apr-23	4-May-23	12-Jun-23	19-Jul-23	19-Sep-23
Parameter	Units							
NH3	mg/L							
NH3-CSR	mg/L	NH3-CSR		11.3	11.3	18.5	18.5	18.5
N-NH3	mg/L			0.11	0.12	0.13	0.0075	0.13
Al-T	mg/L			0.0015	0.0015	0.0079	0.0065	0.0064
As-T	mg/L			0.00029	0.00036	0.00030	0.00005	0.00046
B-T	mg/L			0.783	0.835	0.72	0.673	0.833
Ba-T	mg/L			0.0131	0.0138	0.0124	0.0100	0.0156
Be-T	mg/L			0.00005	0.00005	0.00010	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0010	0.0005	0.0005
Ca-T	mg/L			119	129	121	210	150
Cd-T	mg/L			0.000005	0.000005	0.000010	0.000005	0.000005
Co-T	mg/L			0.00021	0.00026	0.00020	0.00010	0.00080
Cr-T	mg/L			0.0005	0.0005	0.0010	0.0005	0.0005
Cu-T	mg/L			0.00050	0.00103	0.0061	0.00064	0.00025
Fe-T	mg/L			0.309	0.433	0.471	0.014	1.34
Hard-T	mg/L			363	396	372	597	459
K-T	mg/L			3.21	3.35	3.41	3.29	3.51
Li-T	mg/L			0.0172	0.0174	0.0173	0.0093	0.0200
Mg-T	mg/L			16.0	18.3	17.2	18.0	20.6
Mn-T	mg/L			0.131	0.145	0.153	0.0048	0.181
Mo-T	mg/L			0.0005	0.0005	0.0010	0.0005	0.0005
N-T	mg/L							
Na-T	mg/L			284	308	286	199	314
Ni-T	mg/L			0.0005	0.0005	0.0010	0.0016	0.0014
P-T	mg/L							
S-T	mg/L			219	231	223	248	270
Sb-T	mg/L			0.00025	0.00025	0.0005	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00010	0.00005	0.00005
Si-T	mg/L			2.95	3.18	2.95	2.96	3.10
Sn-T	mg/L			0.0025	0.0025	0.005	0.0025	0.0025
Sr-T	mg/L			1.29	1.41	1.30	1.44	1.49
Ti-T	mg/L			0.0025	0.0025	0.005	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00010	0.00005	0.00005
Zn-T	mg/L			0.0025	0.0025	0.005	0.0025	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		3 Mains 2 North Mine							
Well ID									
*Station Type									
Date				17-Oct-23	14-Nov-23	13-Dec-23	8-Jan-24	21-Feb-24	13-Mar-24
Parameter	Units	**	CSR-AL						
SO4-D	mg/L		1280	810	850	820	790	700	710
H2SEquiv	mg/L	H2S	0.02						
Cond-F	uS/cm			2330	270	2090.3	2180	1952	1912
pH-F	pH Units			7.21	6.97	7.01	7.15	7.27	7.03
Temp-F	C			14	12.7	11.295	11.3	13.5	12.2
DO-F	mg/L								
ORP-F	mV								
Turb	NTU			13	4.3	4.8	3.0	2.9	2.0
Alk-T	mg/L			390	390	380	350	340	330
Acidity83	mg/L			10.0	0.5	13.4	4.5	3.5	0.5
N-D	mg/L			0.251	0.496	0.383	0.188	0.083	0.161
DOC	mg/L			0.64	0.89	0.69	0.88	1.2	1.0
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			480	470	460	430	420	390
Carb	mg/L			0.5	0.5	0.5	0.5	0.5	6.4
Cl-D	mg/L		1500	3.6	3.7	2.9	2.9	2.2	2.3
F-D	mg/L			0.14	0.13	0.12	0.10	0.11	0.10
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L			0.05	0.05	0.05	0.05	0.05	0.05
P-D	mg/L			0.0015	0.0015	0.0015	0.0015	0.0015	0.0015
Al-D	mg/L			0.0030	0.0030	0.0030	0.0197	0.0038	0.0094
Ag-D	mg/L			0.000020	0.000020	0.000020	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00032	0.00045	0.00031	0.00028	0.00041	0.00024
Ba-D	mg/L		10	0.0158	0.0154	0.0148	0.0137	0.0129	0.0138
B-D	mg/L		50	0.85	0.88	0.90	0.800	0.835	0.784
Be-D	mg/L		0.053	0.00010	0.00010	0.00010	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0010	0.0010	0.0010	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000010	0.000010	0.000010	0.000005	0.000005	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			163	159	150	137	126	131
Cr-D	mg/L		0.01	0.0010	0.0010	0.0010	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00074	0.00043	0.00020	0.00088	0.00032	0.00010
Cu-D	mg/L			0.00075	0.00040	0.00020	0.00090	0.00614	0.00214
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L			0.021	0.240	0.235	0.117	0.0742	0.157
Hard-D	mg/L			501	487	461	425	393	400
Pb-D	mg/L			0.00020	0.00020	0.00020	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L			22.9	21.7	20.9	19.9	19.1	17.8
Mn-D	mg/L			0.195	0.139	0.158	0.154	0.146	0.0920
Na-D	mg/L			356	378	350	337	317	317
Mo-D	mg/L		10	0.0010	0.0010	0.0010	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0010	0.0010	0.0010	0.0023	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L			3.84	3.64	3.78	3.54	3.44	3.48
S-D	mg/L			297	317	287	291	246	247
Sb-D	mg/L		0.2	0.0005	0.0005	0.0005	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00010	0.00010	0.00010	0.00005	0.00005	0.00005
Si-D	mg/L			3.39	3.42	3.45	3.29	3.72	3.45
Sr-D	mg/L			1.61	1.65	1.57	1.44	1.33	1.26
Tl-D	mg/L		0.003	0.000010	0.000010	0.000010	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.005	0.005	0.005	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00010	0.00010	0.00010	0.00005	0.00005	0.00005
V-D	mg/L			0.005	0.005	0.005	0.0025	0.0025	0.0025
Zn-D	mg/L			0.005	0.005	0.005	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400	2.400	2.400	2.400

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		3 Mains 2 North Mine							
Well ID		3M2N		3M2N		3M2N		3M2N	
*Station Type		MW		MW		MW		MW	
Date									
Parameter	Units	**	CSR-AL	17-Oct-23	14-Nov-23	13-Dec-23	8-Jan-24	21-Feb-24	13-Mar-24
NH3	mg/L								
NH3-CSR	mg/L	NH3-CSR		18.5	18.4	18.5	18.5	18.5	18.5
N-NH3	mg/L			0.13	0.074	0.10	0.083	0.098	0.060
Al-T	mg/L			0.0077	0.0114	0.0215	0.110	0.0086	0.0111
As-T	mg/L			0.00052	0.00037	0.00036	0.00064	0.00035	0.00029
B-T	mg/L			0.81	0.708	0.783	0.753	0.785	0.853
Ba-T	mg/L			0.0156	0.0130	0.0145	0.0131	0.0135	0.0133
Be-T	mg/L			0.00010	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0010	0.0005	0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			157	132	142	128	123	124
Cd-T	mg/L			0.000010	0.000005	0.000005	0.000011	0.000005	0.000005
Co-T	mg/L			0.00072	0.00037	0.00027	0.00085	0.00031	0.00010
Cr-T	mg/L			0.0010	0.0005	0.0005	0.0005	0.0005	0.0005
Cu-T	mg/L			0.0011	0.00076	0.00025	0.00149	0.00548	0.00293
Fe-T	mg/L			1.38	0.480	0.404	0.303	0.256	0.254
Hard-T	mg/L			482	403	446	401	378	381
K-T	mg/L			3.70	3.22	3.58	3.29	3.39	3.26
Li-T	mg/L			0.0195	0.0147	0.0181	0.0172	0.0170	0.0166
Mg-T	mg/L			21.8	17.9	22.0	20.0	17.2	17.2
Mn-T	mg/L			0.189	0.116	0.150	0.144	0.136	0.0933
Mo-T	mg/L			0.0010	0.0005	0.0016	0.0005	0.0005	0.0005
N-T	mg/L								
Na-T	mg/L			337	319	336	312	302	303
Ni-T	mg/L			0.0010	0.0014	0.0005	0.0022	0.0005	0.0005
P-T	mg/L								
S-T	mg/L			287	259	281	278	237	252
Sb-T	mg/L			0.0005	0.00025	0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00010	0.00011	0.00005	0.00005	0.00005	0.00005
Si-T	mg/L			3.36	2.66	3.22	3.36	3.14	3.44
Sn-T	mg/L			0.005	0.0025	0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			1.54	1.48	1.53	1.32	1.43	1.26
Ti-T	mg/L			0.005	0.0025	0.0025	0.0025	0.0025	0.0025
U-T	mg/L			0.00010	0.00005	0.00005	0.00005	0.00005	0.00005
Zn-T	mg/L			0.005	0.0025	0.0025	0.0025	0.0025	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description				Passive Treatment System (PTS) Influent from 2-S Mine Void					
Well ID				INF	INF	INF	INF	INF	INF
*Station Type				MW	MW	MW	MW	MW	MW
Date				3-Apr-23	1-May-23	5-Jun-23	10-Jul-23	2-Aug-23	5-Sep-23
Parameter	Units	**	CSR-AL						
SO4-D	mg/L		1280	590	670	660	600	600	540
H2SEquiv	mg/L	H2S	0.02	0.000957	0.000957	0.000957	0.000957	0.00287	0.00266
Cond-F	uS/cm			1621	1540	1609	1578	1668	1792
pH-F	pH Units			7.37	7.38	7.29	7.35	7.07	6.85
Temp-F	C			6.3	10.2	10.8	12.2	10.9	10.3
DO-F	mg/L								
ORP-F	mV								
Turb	NTU				25				37
Alk-T	mg/L			240	250	240	250	260	300
Acidity83	mg/L			5.4	11.1	7.8	15.4	2.0	7.5
N-D	mg/L								
DOC	mg/L								
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5	0.5
Bicarb	mg/L			290	310	290	310	310	370
Carb	mg/L			0.5	0.5	0.5	0.5	0.5	0.5
Cl-D	mg/L		1500		0.5				
F-D	mg/L				0.15				
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00	3.00
Br-D	mg/L				0.05				
P-D	mg/L								
Al-D	mg/L			0.0030	0.0030	0.0030	0.0015	0.0015	0.0015
Ag-D	mg/L			0.000020	0.000020	0.000020	0.000010	0.000010	0.000010
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
As-D	mg/L		0.05	0.00355	0.00399	0.00340	0.00418	0.00438	0.00488
Ba-D	mg/L		10	0.0221	0.0213	0.0203	0.0205	0.0196	0.0207
B-D	mg/L		50	0.71	0.69	0.72	0.645	0.639	0.720
Be-D	mg/L		0.053	0.00010	0.00010	0.00010	0.00005	0.00005	0.00005
Bi-D	mg/L			0.0010	0.0010	0.0010	0.0005	0.0005	0.0005
Cd-D	mg/L			0.000010	0.000010	0.000010	0.000005	0.000019	0.000005
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600
Ca-D	mg/L			240	247	229	238	239	218
Cr-D	mg/L		0.01	0.0010	0.0010	0.0010	0.0005	0.0005	0.0005
Co-D	mg/L		0.009	0.00085	0.00073	0.00062	0.00060	0.00059	0.00056
Cu-D	mg/L			0.00020	0.00020	0.00020	0.00010	0.00010	0.00010
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900
Fe-D	mg/L			2.62	2.61	2.44	2.77	2.78	2.90
Hard-D	mg/L			670	688	638	669	666	612
Pb-D	mg/L			0.00020	0.00020	0.00020	0.00010	0.00010	0.00010
Pb-CSR	mg/L	Pb-CSR		0.160	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L			17.2	17.3	15.8	17.9	17.0	16.2
Mn-D	mg/L			0.355	0.347	0.305	0.347	0.343	0.382
Na-D	mg/L			106	109	99.7	102	110	107
Mo-D	mg/L		10	0.0010	0.0010	0.0010	0.0005	0.0005	0.0005
Ni-D	mg/L			0.0010	0.0010	0.0010	0.0005	0.0005	0.0005
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50	1.50
K-D	mg/L			1.87	2.00	1.77	2.03	1.90	1.94
S-D	mg/L			242	219	210	226	230	210
Sb-D	mg/L		0.2	0.0005	0.0005	0.0005	0.00025	0.00025	0.00025
Se-D	mg/L		0.01	0.00037	0.00010	0.00068	0.00020	0.00005	0.00005
Si-D	mg/L			3.16	3.29	3.08	3.32	3.15	3.28
Sr-D	mg/L			2.27	2.23	2.21	2.37	2.06	2.13
Tl-D	mg/L		0.003	0.000010	0.000010	0.000010	0.000005	0.000005	0.000005
Ti-D	mg/L		1	0.005	0.005	0.005	0.0025	0.0025	0.0025
U-D	mg/L		3	0.00010	0.00010	0.00010	0.00005	0.00005	0.00005
V-D	mg/L			0.005	0.005	0.005	0.0025	0.0025	0.0025
Zn-D	mg/L			0.005	0.005	0.005	0.0025	0.0025	0.0025
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400	2.400	2.400	2.400

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		Passive Treatment System (PTS) Influent from 2-S Mine Void							
Well ID		INF		INF		INF		INF	
*Station Type		MW		MW		MW		MW	
Date		3-Apr-23	1-May-23	5-Jun-23	10-Jul-23	2-Aug-23	5-Sep-23		
Parameter	Units	**	CSR-AL						
NH3	mg/L								
NH3-CSR	mg/L	NH3-CSR		18.5	18.5	18.5	18.5	18.5	18.4
N-NH3	mg/L			0.056	0.058	0.060	0.061		0.065
Al-T	mg/L			0.0032	0.0015	0.0015	0.0015	0.0015	0.0015
As-T	mg/L			0.00370	0.00350	0.00345	0.00387	0.00408	0.00468
B-T	mg/L			0.564	0.609	0.590	0.577	0.561	0.597
Ba-T	mg/L			0.0208	0.0179	0.0187	0.0183	0.0181	0.0188
Be-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Ca-T	mg/L			230	210	207	213	212	213
Cd-T	mg/L			0.000005	0.000005	0.000005	0.000005	0.000005	0.000005
Co-T	mg/L			0.00081	0.00066	0.00056	0.00055	0.00048	0.00049
Cr-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu-T	mg/L			0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Fe-T	mg/L			2.51	2.27	2.27	2.50	2.53	2.80
Hard-T	mg/L			640	586	575	594	589	595
K-T	mg/L			1.82	1.74	1.78	1.83	1.72	1.88
Li-T	mg/L			0.0177	0.0192	0.0192	0.0182	0.0184	0.0198
Mg-T	mg/L			15.9	15.3	14.3	14.9	14.2	15.0
Mn-T	mg/L			0.340	0.300	0.305	0.309	0.323	0.344
Mo-T	mg/L			0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
N-T	mg/L								
Na-T	mg/L			99.0	95.8	93.2	89.5	87.8	102
Ni-T	mg/L			0.0015	0.0012	0.0011	0.0011	0.0005	0.0005
P-T	mg/L			0.0036	0.0015	0.0015	0.0015	0.0015	0.0037
S-T	mg/L			215	197	204	198	176	207
Sb-T	mg/L			0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Si-T	mg/L			2.71	2.81	2.95	2.93	2.78	3.03
Sn-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Sr-T	mg/L			2.13	1.87	2.12	2.07	2.03	2.07
Ti-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Zn-T	mg/L			0.0025	0.0025	0.0025	0.0025	0.0025	0.0025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description				Passive Treatment System (PTS) Influent from 2-S Mine Void							
Well ID				INF	INF	INF	INF	INF	INF	INF	INF
*Station Type				MW	MW	MW	MW	MW	MW	MW	MW
Date				3-Oct-23	6-Nov-23	6-Nov-23	5-Dec-23	2-Jan-24	6-Feb-24	4-Mar-24	
Parameter	Units	**	CSR-AL			Replicate					
SO4-D	mg/L		1280	560	560	560	680	670	610	620	
H2SEquiv	mg/L	H2S	0.02	0.00319	0.00361	0.00319	0.000957	0.000957	0.000957	0.000957	
Cond-F	uS/cm			1477	1623	1623	1645.3	1451.7	1521	1361	
pH-F	pH Units			6.8	7	7	6.94	6.43	7.17	6.81	
Temp-F	C			10	8.4	8.4	8.217	8.254	8.2	9.6	
DO-F	mg/L										
ORP-F	mV										
Turb	NTU			37							
Alk-T	mg/L			260	260	260	240	220	230	230	
Acidity83	mg/L			12.0	35.2	19.6	8.7	11.0	9.4	10.9	
N-D	mg/L										
DOC	mg/L										
Hydrox	mg/L			0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Bicarb	mg/L			320	310	310	300	270	280	280	
Carb	mg/L			0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Cl-D	mg/L		1500								
F-D	mg/L										
Flu-CSR	mg/L	Flu-CSR		3.00	3.00	3.00	3.00	3.00	3.00	3.00	
Br-D	mg/L										
P-D	mg/L										
Al-D	mg/L			0.0015	0.0030	0.0030	0.0030	0.0336	0.0032	0.0032	
Ag-D	mg/L			0.000010	0.000020	0.000020	0.000020	0.000010	0.000010	0.000010	
Ag-CSR	mg/L	Ag-CSR		0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	
As-D	mg/L		0.05	0.00437	0.00400	0.00402	0.00492	0.00336	0.00235	0.00218	
Ba-D	mg/L		10	0.0184	0.0184	0.0183	0.0213	0.0193	0.0201	0.0208	
B-D	mg/L		50	0.731	0.69	0.70	0.79	0.814	0.738	0.625	
Be-D	mg/L		0.053	0.00005	0.00010	0.00010	0.00010	0.00005	0.00005	0.00005	
Bi-D	mg/L			0.0005	0.0010	0.0010	0.0010	0.0005	0.0005	0.0005	
Cd-D	mg/L			0.000005	0.000010	0.000010	0.000010	0.000005	0.000005	0.000005	
Cd-CSR	mg/L	Cd-CSR		0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	0.000600	
Ca-D	mg/L			220	219	225	263	223	209	210	
Cr-D	mg/L		0.01	0.0005	0.0010	0.0010	0.0010	0.0005	0.0005	0.0005	
Co-D	mg/L		0.009	0.00039	0.00046	0.00048	0.00049	0.00215	0.00068	0.00086	
Cu-D	mg/L			0.00010	0.00020	0.00020	0.00020	0.00030	0.00010	0.00010	
Cu-CSR	mg/L	Cu-CSR		0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	0.0900	
Fe-D	mg/L			3.08	3.04	3.12	3.64	4.17	2.33	2.30	
Hard-D	mg/L			616	611	627	740	620	581	583	
Pb-D	mg/L			0.00010	0.00020	0.00020	0.00020	0.00010	0.00010	0.00010	
Pb-CSR	mg/L	Pb-CSR		0.160	0.160	0.160	0.160	0.160	0.160	0.160	
Mg-D	mg/L			16.1	15.8	15.9	19.9	15.1	14.1	13.9	
Mn-D	mg/L			0.328	0.344	0.345	0.445	0.365	0.297	0.322	
Na-D	mg/L			108	106	107	106	108	105	92.4	
Mo-D	mg/L		10	0.0005	0.0010	0.0010	0.0010	0.0005	0.0005	0.0005	
Ni-D	mg/L			0.0005	0.0010	0.0010	0.0010	0.0040	0.0013	0.0015	
Ni-CSR	mg/L	Ni-CSR		1.50	1.50	1.50	1.50	1.50	1.50	1.50	
K-D	mg/L			1.96	1.92	1.95	2.20	1.78	1.73	1.86	
S-D	mg/L			222	202	205	250	229	213	197	
Sb-D	mg/L		0.2	0.00025	0.0005	0.0005	0.0005	0.00025	0.00025	0.00025	
Se-D	mg/L		0.01	0.00005	0.00010	0.00010	0.00021	0.00011	0.00005	0.00026	
Si-D	mg/L			3.19	3.25	3.31	3.39	3.96	3.16	3.51	
Sr-D	mg/L			2.12	1.99	1.96	2.45	2.13	2.12	2.09	
Tl-D	mg/L		0.003	0.000005	0.000010	0.000010	0.000010	0.000005	0.000005	0.000005	
Ti-D	mg/L		1	0.0025	0.005	0.005	0.005	0.0025	0.0025	0.0025	
U-D	mg/L		3	0.00005	0.00010	0.00010	0.00010	0.00005	0.00005	0.00005	
V-D	mg/L			0.0025	0.005	0.005	0.005	0.0025	0.0025	0.0025	
Zn-D	mg/L			0.0025	0.005	0.005	0.005	0.0052	0.0025	0.0025	
Zn-CSR	mg/L	Zn-CSR		2.400	2.400	2.400	2.400	2.400	2.400	2.400	

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 In-situ Minewater 28 Page(s)

Description		Passive Treatment System (PTS) Influent from 2-S Mine Void								
Well ID										
*Station Type										
Date	Units	**	CSR-AL	INF MW 3-Oct-23	INF MW 6-Nov-23	INF MW 6-Nov-23	INF MW 5-Dec-23	INF MW 2-Jan-24	INF MW 6-Feb-24	INF MW 4-Mar-24
Parameter	Units	**	CSR-AL			Replicate				
NH3	mg/L									
NH3-CSR	mg/L	NH3-CSR		18	20	20	18.4	18.4	18.5	18.4
N-NH3	mg/L			0.068	0.068	0.069	0.069	0.071	0.058	0.063
Al-T	mg/L			0.0015	0.0015	0.0449	0.0030	0.136	0.0065	0.0094
As-T	mg/L			0.00429	0.00389	0.00380	0.00488	0.00399	0.00237	0.00200
B-T	mg/L			0.711	0.723	0.714	0.81	0.792	0.638	0.781
Ba-T	mg/L			0.0177	0.0174	0.0171	0.0210	0.0189	0.0189	0.0181
Be-T	mg/L			0.00005	0.00005	0.00005	0.00010	0.00005	0.00005	0.00005
Bi-T	mg/L			0.0005	0.0005	0.0005	0.0010	0.0005	0.0005	0.0005
Ca-T	mg/L			210	209	203	280	219	211	222
Cd-T	mg/L			0.000005	0.000005	0.000005	0.000010	0.000005	0.000005	0.000005
Co-T	mg/L			0.00036	0.00040	0.00041	0.00051	0.00215	0.00064	0.00085
Cr-T	mg/L			0.0005	0.0005	0.0005	0.0010	0.0005	0.0005	0.0005
Cu-T	mg/L			0.00025	0.00025	0.00025	0.0005	0.00337	0.00050	0.00025
Fe-T	mg/L			2.93	2.86	2.82	3.80	4.33	2.36	2.27
Hard-T	mg/L			588	581	568	786	610	583	619
K-T	mg/L			1.88	1.86	1.82	2.14	1.80	1.66	1.66
Li-T	mg/L			0.0217	0.0211	0.0215	0.0261	0.0240	0.0195	0.0222
Mg-T	mg/L			15.5	14.7	14.6	21.2	15.3	13.5	15.5
Mn-T	mg/L			0.311	0.333	0.329	0.419	0.363	0.291	0.287
Mo-T	mg/L			0.0005	0.0005	0.0005	0.0010	0.0005	0.0005	0.0005
N-T	mg/L									
Na-T	mg/L			102	101	100	111	110	104	99.1
Ni-T	mg/L			0.0005	0.0005	0.0005	0.0010	0.0040	0.0013	0.0014
P-T	mg/L			0.0032	0.0031	0.0015	0.0039	0.0035	0.0015	0.0075
S-T	mg/L			210	195	195	242	223	198	200
Sb-T	mg/L			0.00025	0.00025	0.00025	0.0005	0.00025	0.00025	0.00025
Se-T	mg/L			0.00005	0.00005	0.00005	0.00010	0.00005	0.00005	0.00005
Si-T	mg/L			3.06	3.01	2.96	3.37	3.89	3.02	3.10
Sn-T	mg/L			0.0025	0.0025	0.0025	0.005	0.0025	0.0025	0.0025
Sr-T	mg/L			2.01	1.94	1.91	2.32	2.12	1.96	1.81
Ti-T	mg/L			0.0025	0.0025	0.0025	0.005	0.0025	0.0025	0.0025
U-T	mg/L			0.00005	0.00005	0.00005	0.00010	0.00005	0.00005	0.00005
Zn-T	mg/L			0.0025	0.0025	0.0025	0.005	0.0025	0.0055	0.0064

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AL

Italicised number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 35 Seepage Near QU1109 (S) 2 Page(s)

EMS ID	Stn	Std	Max-WQG							
Site Description				Seepage near QU1109						
Site Name	S	Std Val								
Date		Acute	Chronic	2023-05-01	2023-05-08	2023-05-18	2023-05-31	2023-06-06	2023-06-22	2023-07-11
Flow	m3/s			0.0002	0.0002	0.000125	0.000033	0.0001	0.001	0.00005
pH-F	pH Units		6.5 - 9.0	8.36				8.23		8.13
Cond-F	uS/cm			1129				1417		1273
SO4-D	mg/L		≤ 309	160				170		170
Turb	NTU			0.35				0.48		
Alk-T	mg/L			400				470		490
Acidity83	mg/L			<1.0				1.2		<1.0
Cl-D	mg/L	≤ 600	≤ 150	40				49		50
DOC	mg/L			1.8				1.8		2.4
F-D	mg/L	≤ 0.876		0.55				0.65		0.69
Al-T	mg/L			0.0087				<0.015		0.0096
As-T	mg/L	≤ 0.005		0.0772				0.0722		0.0642
Ba-T	mg/L		≤ 1	0.0532				0.0486		0.0387
B-T	mg/L		≤ 1.2	1.55				1.48		1.69
Cd-T	mg/L			<0.000010				<0.000050		<0.000010
Ca-T	mg/L			27.7				24.4		22.4
Cr-T	mg/L			<0.0010				<0.0050		<0.0010
Co-T	mg/L	≤ 0.11	≤ 0.004	<0.00020				<0.0010		<0.00020
Cu-T	mg/L			<0.00050				<0.0025		<0.00050
Hard-T	mg/L			100				88.1		78.7
Fe-T	mg/L	≤ 1		0.173				0.151		0.106
Pb-T	mg/L	≤ 0.01763	≤ 0.0039978	<0.00020				<0.0010		<0.00020
Mg-T	mg/L			7.52				6.59		5.55
Mn-T	mg/L	≤ 0.8706	≤ 0.737	0.0139				0.0185		0.0151
Mo-T	mg/L	≤ 2		<0.0010				<0.0050		<0.0010
Ni-T	mg/L			<0.0010				0.0174		<0.0010
K-T	mg/L			3.74				3.46		3.59
S-T	mg/L			57.7				54		52.0
Se-T	mg/L			<0.00010				<0.00050		<0.00010
Si-T	mg/L			4.93				4.22		4.14
Ag-T	mg/L	≤ 0.0001		<0.000020				<0.00010		<0.000020
Na-T	mg/L			236				257		249
Sr-T	mg/L			0.423				0.372		0.345
Zn-T	mg/L	≤ 0.033	≤ 0.0075	<0.0050				<0.025		<0.0050
Al-D	mg/L		≤ 0.442	0.0042				<0.0060		0.0079
As-D	mg/L			0.0732				0.0751		0.0754
Ba-D	mg/L			0.0521				0.0512		0.0447
B-D	mg/L			1.28				1.56		1.59
Be-D	mg/L			<0.00010				<0.00020		<0.00010
Cd-D	mg/L	≤ 0.00017	≤ 0.000087	<0.000010				<0.000020		<0.000010
Ca-D	mg/L			27.2				25.9		25.5
Cr-D	mg/L			<0.0010				<0.0020		<0.0010
Co-D	mg/L			<0.00020				<0.00040		<0.00020
Cu-D	mg/L	≤ 0.0002	≤ 0.0002	0.00022				<0.00040		0.00032
Hard-D	mg/L			98.6				95.0		89.8
Fe-D	mg/L	≤ 0.35		0.0953				0.105		0.0801
Pb-D	mg/L			<0.00020				<0.00040		<0.00020
Mg-D	mg/L			7.43				7.37		6.35
Mn-D	mg/L			0.0094				0.0125		0.0072
Mo-D	mg/L			<0.0010				<0.0020		<0.0010
Ni-D	mg/L			<0.0010				<0.0020		<0.0010
K-D	mg/L			3.60				3.95		4.00
S-D	mg/L			56.3				62.2		58.9
Se-D	mg/L		≤ 0.002	<0.00010				<0.00020		<0.00010
Si-D	mg/L			4.79				4.58		4.66
Na-D	mg/L			229				286		285
Sr-D	mg/L			0.442				0.458		0.424
Zn-D	mg/L	≤ 0.033	≤ 0.0075	<0.0050				<0.010		0.0074

Appendix 1 - Tables

Table 35 Seepage Near QU1109 (S) 2 Page(s)

EMS ID				Stn Std							
Site Description											
Site Name		S	Std Val								
Date	Acute		Chronic	2023-08-02	2023-09-06	2023-10-04	2023-11-02	2023-12-05	2024-01-03	2024-02-07	2024-03-25
Flow	m3/s			0.00006	0.000345	0.00073	0.0001	0.0014	0.0012	0.000026	0.000166
pH-F	pH Units		6.5 - 9.0	7.92	8.14	7.74	7.48	7.73	7.59	7.58	7.94
Cond-F	uS/cm			1448	1553	1236	1030	608.7	777.1	982	1425
SO4-D	mg/L		≤ 309	160	150	150	130	120	160	140	160
Turb	NTU				1.1	0.38	1.3	0.93	0.49	0.41	0.36
Alk-T	mg/L			490	500	470	330	160	250	310	380
Acidity83	mg/L			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	≤ 600	≤ 150	52	48	42	26		18	25	39
DOC	mg/L			3.0	2.4	36	6.4	4.1	2.6	1.9	
F-D	mg/L	≤ 0.876		0.66		0.69	0.58		0.33	0.34	
Al-T	mg/L			0.0109	0.0126	0.0127	0.0585	0.0394	0.0125	0.0090	0.0061
As-T	mg/L	≤ 0.005		0.0638	0.0604	0.0585	0.0549	0.0247	0.0347	0.0411	0.0723
Ba-T	mg/L		≤ 1	0.0392	0.0366	0.0351	0.0365	0.0442	0.0462	0.0437	0.0496
B-T	mg/L		≤ 1.2	1.47	1.67	1.67	1.25	0.868	1.04	0.970	1.25
Cd-T	mg/L			<0.000010	<0.000020	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L			22.2	22.0	20.3	18.0	31.1	28.1	25.7	24.4
Cr-T	mg/L			<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	≤ 0.11	≤ 0.004	<0.00020	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L			<0.00050	<0.0010	<0.00050	0.0010	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L			79.0	78.9	72.2	65.9	112	101	91.6	86.6
Fe-T	mg/L	≤ 1		0.094	0.098	0.094	0.225	0.151	0.075	0.068	0.135
Pb-T	mg/L	≤ 0.01763	≤ 0.0039978	<0.00020	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	0.00022
Mg-T	mg/L			5.74	5.79	5.22	5.08	8.32	7.40	6.68	6.25
Mn-T	mg/L	≤0.8706	≤0.737	0.0173	0.0248	0.0109	0.0506	0.0298	0.0168	0.0152	0.0236
Mo-T	mg/L	≤ 2		<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L			<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L			3.56	3.66	3.55	2.67	1.96	2.34	2.38	3.08
S-T	mg/L			49.3	50.8	48.8	39.9	42.6	48.2	42.8	50.7
Se-T	mg/L			<0.00010	<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L			4.14	4.53	4.47	4.48	5.36	5.13	4.25	4.24
Ag-T	mg/L	≤ 0.0001		<0.000020	<0.000040	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L			258	277	248	182	92.1	140	159	205
Sr-T	mg/L			0.367	0.335	0.325	0.294	0.316	0.333	0.304	0.363
Zn-T	mg/L	≤ 0.033	≤ 0.0075	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L		≤ 0.442	0.0080	0.0111	0.0102	0.0524	0.0120	0.0095	0.0066	0.0045
As-D	mg/L			0.0696	0.0659	0.0645	0.0592	0.0249	0.0364	0.0447	0.0799
Ba-D	mg/L			0.0423	0.0404	0.0372	0.0412	0.0439	0.0502	0.0478	0.0550
B-D	mg/L			1.73	1.66	1.75	1.39	0.759	0.883	1.15	1.43
Be-D	mg/L			<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	≤ 0.00017	≤ 0.000087	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L			24.8	22.9	21.9	21.7	28.6	30.5	26.8	27.3
Cr-D	mg/L			<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L			<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	≤0.0002	≤0.0002	0.00027	0.00044	0.00032	0.00066	0.00035	0.00024	<0.00020	<0.00020
Hard-D	mg/L			88.1	82.6	77.8	77.2	103	109	96.0	98.0
Fe-D	mg/L	≤ 0.35		0.0652	0.075	0.0855	0.127	0.0721	0.0575	0.0593	0.114
Pb-D	mg/L			<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L			6.34	6.18	5.60	5.57	7.68	8.06	7.07	7.23
Mn-D	mg/L			0.0100	0.0201	0.0068	0.0158	0.0179	0.0178	0.0157	0.0235
Mo-D	mg/L			<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L			<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L			3.95	3.98	3.71	3.02	1.91	2.61	2.61	3.41
S-D	mg/L			61.4	55.2	53.2	47.6	41.2	51.3	47.1	58.0
Se-D	mg/L		≤0.002	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L			4.86	4.95	4.82	5.08	5.01	5.10	4.82	4.77
Na-D	mg/L			292	296	268	196	89.1	151	171	237
Sr-D	mg/L			0.387	0.352	0.341	0.337	0.326	0.349	0.329	0.407
Zn-D	mg/L	≤ 0.033	≤ 0.0075	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 36 Seepage Near QU1105 (S2A) 1 Page(s)

EMS ID	Stn	Std	Max-WQG													
Site Description				Potential Seepage (S2A) near QU1105 entering river												
Site Name	S2A	Std Val	WQG													
Date		Acute	Chronic	2023-05-03	2023-05-31	2023-06-06	2023-07-12	2023-08-03	2023-09-07	2023-10-04	2023-11-07	2023-12-05	2023-12-12	2024-01-03	2024-02-07	2024-03-13
Flow	m3/s			0.000066	0.0002	0.000266	0.0002	0.0002	0.00025	0.00076	0.00153		0.00277	River was flowing into area		
pH-F	pH Units		6.5 - 9.0	7.73		7.56	7.4	7.5	6.72	6.61	6.85	7.18		6.94	7.33	7.35
Cond-F	uS/cm			747		787	704	739	651	496	38.6	2239		178.7	435	401
SO4-D	mg/L		≤ 309	110		130	120	110	72	65	60	31		22	50	51
Turb	NTU			0.45		0.37		1.6		0.96	2.3	7.1		1.2	1.1	3.0
Alk-T	mg/L			240		240	220	220	170	150	120	79		73	160	140
Acidity83	mg/L			3.9		9.6	10.3	7.0	2.4	8.2	<1.0	<1.0		<1.0	<1.0	<1.0
Cl-D	mg/L	≤ 600	≤ 150	10		14	14	14	8.1	6.7	5.2			<1.0	3.3	3.0
DOC	mg/L			1.8		1.6	2.1	1.9	1.7	1.8	3.8	8.7		3.0	2.5	3.0
F-D	mg/L	≤ 0.876		0.31		0.38	0.43	0.39		0.35	0.22			0.077	0.17	0.18
Al-T	mg/L			0.0057		0.0051	0.0078	0.0101	0.0133	0.0179	0.0830	0.538		0.0672	0.490	0.144
As-T	mg/L	≤ 0.005		0.0318		0.0453	0.0896	0.117	0.0845	0.0558	0.0203	0.0108		0.0114	0.0243	0.0236
Ba-T	mg/L		≤ 1	0.0543		0.0490	0.0296	0.0491	0.0296	0.0291	0.0301	0.0230		0.0173	0.0492	0.0427
B-T	mg/L		≤ 1.2	0.659		0.563	0.508	0.599	0.384	0.352	0.304	0.207		0.181	0.498	0.301
Cd-T	mg/L			<0.000010		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Ca-T	mg/L			36.1		31.4	26.9	17.7	18.6	19.9	16.3			15.3	37.1	27.3
Cr-T	mg/L			<0.0010		0.0016	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Co-T	mg/L	≤ 0.11	≤ 0.004	<0.00020		0.00025	0.00027	0.00028	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Cu-T	mg/L			<0.00050		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00051	0.00120		0.00059	<0.00050	<0.00050
Hard-T	mg/L			121		106	90.7	97.1	59.9	62.8	67.2	55.3		50.4	126	93.5
Fe-T	mg/L	≤ 1		0.226		0.302	0.763	0.898	0.645	0.460	0.235	0.494		0.228	0.170	0.344
Pb-T	mg/L	≤ 0.01763	≤ 0.0039978	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Mg-T	mg/L			7.62		6.81	5.72	6.23	3.79	3.95	4.24	3.57		2.93	7.99	6.12
Mn-T	mg/L	≤ 0.8706	≤ 0.737	0.0887		0.380	0.308	0.293	0.155	0.138	0.0297	0.0243		0.0233	0.0574	0.0445
Mo-T	mg/L	≤ 2		<0.0010		0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	0.0025	<0.0010
Ni-T	mg/L			<0.0010		0.0061	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
K-T	mg/L			3.04		2.98	2.73	3.11	1.93	1.94	1.68	1.17		0.853	2.72	1.84
S-T	mg/L			35.6		43.3	37.2	42.3	21.6	20.6	18.5	10.5		7.5	21.2	18.4
Se-T	mg/L			<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Si-T	mg/L			3.66		3.14	2.93	3.35	2.58	2.92	3.27	4.24		3.15	3.32	3.68
Ag-T	mg/L	≤ 0.0001		<0.000020		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020
Na-T	mg/L			102		118	103	117	67.5	63.3	46.2	29.2		19.6	74.7	44.7
Sr-T	mg/L			0.583		0.529	0.433	0.466	0.287	0.275	0.300	0.189		0.165	0.530	0.379
Zn-T	mg/L	≤ 0.033	≤ 0.0075	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050
Al-D	mg/L	≤ 0.1	≤ 0.0075	0.0034		0.0049	0.0043	0.0053	0.0071	0.0061	0.0115	0.0815		0.0212	0.0121	0.0232
As-D	mg/L			0.0312		0.0488	0.101	0.110	0.0913	0.0591	0.0183	0.00901		0.00794	0.0127	0.0208
Ba-D	mg/L			0.0552		0.0534	0.0501	0.0473	0.0350	0.0307	0.0308	0.0203		0.0180	0.0421	0.0442
B-D	mg/L			0.613		0.614	0.528	0.562	0.398	0.385	0.338	0.236		0.133	0.349	0.289
Be-D	mg/L			<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Cd-D	mg/L	≤ 0.00017	≤ 0.000087	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010
Ca-D	mg/L			37.0		32.8	30.2	28.7	20.2	19.8	21.4	14.4		16.7	29.9	29.4
Cr-D	mg/L			<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Co-D	mg/L			<0.00020		0.00027	0.00028	0.00027	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Cu-D	mg/L	≤ 0.0002	≤ 0.0002	0.00023		0.00024	<0.00020	<0.00020	<0.00020	<0.00020	0.00045	0.00081		0.00050	0.00027	0.00033
Hard-D	mg/L			125		114	102	96.3	68.4	67.1	72.1	49.0		54.9	102	100
Fe-D	mg/L	≤ 0.35		0.210		0.311	0.852	0.835	0.670	0.414	0.0931	0.148		0.0680	0.104	0.179
Pb-D	mg/L			<0.00020		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020
Mg-D	mg/L			7.95		7.68	6.34	5.95	4.38	4.27	4.54	3.18		3.19	6.54	6.51
Mn-D	mg/L			0.0886		0.399	0.341	0.280	0.181	0.147	0.0253	0.0157		0.0165	0.0358	0.0425
Mo-D	mg/L			<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
Ni-D	mg/L			<0.0010		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010
K-D	mg/L			3.13		3.22	3.05	2.93	2.31	2.04	1.72	1.11		0.947	1.94	1.97
S-D	mg/L			37.0		47.5	42.5	40.6	25.7	26.5	21.6	8.9		8.9	16.0	18.6
Se-D	mg/L		≤ 0.002	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010
Si-D	mg/L			3.70		3.41	3.54	3.52	3.09	3.25	3.76	3.49		3.08	3.61	3.72
Na-D	mg/L			104		127	117	113	79.7	68.7	47.9	25.8		21.3	47.9	47.6
Sr-D	mg/L			0.584		0.559	0.496	0.443	0.335	0.295	0.323	0.187		0.176	0.416	0.391
Zn-D	mg/L	≤ 0.033	≤ 0.0075	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 37 Seepage Near QU1105 (S2B) 1 Page(s)

EMS ID	Stn Std			Max-WQG			
Site Description	Potential Seepage (S2B) near QU1105 entering river						
Site Name	S2B	Std Val	WQG				
Date	Acute		Chronic	2024-01-03	2024-02-07	2024-02-14	2024-03-13
Flow	m3/s				0.000625	0.00114	0.00146
pH-F	pH Units		6.5 - 9.0	7.16	7.56		7.62
Cond-F	uS/cm			507.3	618		611
SO4-D	mg/L		≤ 309	56	69		80
Turb	NTU			0.46	0.51		0.76
Alk-T	mg/L			220	230		210
Acidity83	mg/L			1.3	<1.0		<1.0
Cl-D	mg/L	≤ 600	≤ 150	3.7	5.6		5.8
DOC	mg/L			2.5	1.9		2.0
F-D	mg/L	≤ 0.876		0.31	0.30		0.29
Al-T	mg/L			0.0117	0.0088		0.0117
As-T	mg/L		≤ 0.005	0.0249	0.0252		0.0288
Ba-T	mg/L		≤ 1	0.0491	0.0500		0.0556
B-T	mg/L		≤ 1.2	0.539	0.491		0.503
Cd-T	mg/L			<0.000010	<0.000010		<0.000010
Ca-T	mg/L			35.0	38.1		38.6
Cr-T	mg/L			<0.0010	<0.0010		<0.0010
Co-T	mg/L	≤ 0.11	≤ 0.004	<0.00020	<0.00020		<0.00020
Cu-T	mg/L			<0.00050	<0.00050		<0.00050
Hard-T	mg/L			120	129		132
Fe-T	mg/L	≤ 1		0.169	0.179		0.202
Pb-T	mg/L	≤ 0.01763	≤ 0.0039978	<0.00020	<0.00020		<0.00020
Mg-T	mg/L			7.92	8.20		8.74
Mn-T	mg/L	≤0.8706	≤0.737	0.0570	0.0540		0.0568
Mo-T	mg/L	≤ 2		<0.0010	<0.0010		<0.0010
Ni-T	mg/L			<0.0010	<0.0010		<0.0010
K-T	mg/L			2.81	2.78		2.81
S-T	mg/L			19.1	22.4		28.4
Se-T	mg/L			<0.00010	<0.00010		<0.00010
Si-T	mg/L			3.83	3.43		3.66
Ag-T	mg/L	≤ 0.0001		<0.000020	<0.000020		<0.000020
Na-T	mg/L			70.0	75.5		76.0
Sr-T	mg/L			0.541	0.548		0.593
Zn-T	mg/L	≤ 0.033	≤ 0.0075	<0.0050	<0.0050		<0.0050
Al-D	mg/L	≤ 0.1	≤ 0.0075	0.0054	0.0039		0.0044
As-D	mg/L			0.0247	0.0263		0.0270
Ba-D	mg/L			0.0516	0.0537		0.0598
B-D	mg/L			0.471	0.513		0.508
Be-D	mg/L			<0.00010	<0.00010		<0.00010
Cd-D	mg/L	≤ 0.00017	≤ 0.000087	<0.000010	<0.000010		<0.000010
Ca-D	mg/L			38.5	38.4		42.6
Cr-D	mg/L			<0.0010	<0.0010		<0.0010
Co-D	mg/L			<0.00020	<0.00020		<0.00020
Cu-D	mg/L	≤0.0002	≤0.0002	<0.00020	<0.00020		<0.00020
Hard-D	mg/L			131	132		145
Fe-D	mg/L	≤ 0.35		0.152	0.152		0.160
Pb-D	mg/L			<0.00020	<0.00020		<0.00020
Mg-D	mg/L			8.52	8.70		9.26
Mn-D	mg/L			0.0642	0.0565		0.0543
Mo-D	mg/L			<0.0010	<0.0010		<0.0010
Ni-D	mg/L			<0.0010	<0.0010		<0.0010
K-D	mg/L			3.03	2.99		3.11
S-D	mg/L			19.9	23.7		30.0
Se-D	mg/L		≤0.002	<0.00010	<0.00010		<0.00010
Si-D	mg/L			3.87	3.66		3.94
Na-D	mg/L			73.9	79.7		82.2
Sr-D	mg/L			0.561	0.584		0.621
Zn-D	mg/L	≤ 0.033	≤ 0.0075	<0.0050	<0.0050		<0.0050

Appendix 1 - Tables

Table 38 No Name Lake Depth Profile 1 Page(s)

EMS ID: E217018

Site NAME: NO NAME LAKE (NNL)

NO NAME LAKE DEPTH PROFILING SPRING

Sample Date Parameter Sample Depth (m)	05-Apr						12-Apr						19-Apr						25-Apr						02-May					
	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	6.3	6.85	29.9	92.2	11.38	139.0	6.3	7.00	31.1	93.0	11.48	185.7	6.6	7.30	33.8	93.4	11.46	146.6	7.8	7.15	30.8	96.6	11.50	149.9	13.1	6.94	30.6	98.9	10.37	165.4
2	6.3	6.79	29.9	91.6	11.32	149.2	6.3	6.98	31.1	92.5	11.42	190.1	6.6	7.17	33.8	93.1	11.42	156.6	7.6	7.02	30.9	96.3	11.53	162.1	10.3	6.92	30.4	97.3	11.02	165.9
3	6.1	6.72	30.0	90.8	11.26	151.6	6.3	6.90	31.0	92.3	11.39	195.4	6.5	7.07	33.8	92.9	11.40	163.6	7.1	6.94	31.1	95.4	11.56	164.2	8.0	6.83	30.7	95.7	11.35	170.4
4	6.1	6.70	30.0	90.5	11.24	153.4	6.3	6.81	31.0	92.1	11.38	199.4	6.5	6.94	33.8	92.7	11.38	170.0	6.8	6.92	31.2	94.2	11.51	164.7	7.1	6.78	31.0	94.2	11.37	170.9
5	5.9	6.67	30.2	89.9	11.18	154.5	6.3	6.80	31.0	92.0	11.37	198.5	6.5	6.88	33.9	92.3	11.35	175.7	6.6	6.88	31.2	93.6	11.47	165.7	6.9	6.77	31.0	93.0	11.33	171.0
	5.6	6.62	30.8	87.6	10.98	155.0	6.3	6.80	31.0	91.8	11.35	197.4	6.5	6.81	34.0	92.1	11.34	179.3	6.5	6.87	31.3	93.1	11.43	166.9	6.6	6.75	31.3	91.3	11.20	171.6
7	5.7	6.58	30.8	86.7	10.92	157.5	6.2	6.74	31.0	91.4	11.31	197.7	6.4	6.79	34.0	92.0	11.33	181.2	6.4	6.83	31.5	92.6	11.40	167.5	6.5	6.73	31.3	90.9	11.16	171.5
8	5.5	6.56	31.0	85.9	10.84	157.9	6.1	6.68	31.1	90.8	11.26	200.6	6.4	6.78	34.0	91.7	11.31	181.9	6.4	6.81	31.6	92.3	11.38	168.6	6.5	6.71	31.3	90.7	11.14	171.9
9	5.5	6.51	31.2	85.5	10.78	161.9	6.1	6.70	31.4	90.6	11.24	199.1	6.4	6.78	34.1	91.6	11.30	182.8	6.3	6.80	31.7	91.9	11.35	169.2	6.5	6.68	31.3	90.6	11.13	173.0
10	5.3	6.25	31.5	84.7	10.73	173.1	6.1	6.68	31.5	90.3	11.21	199.0	6.3	6.76	34.2	91.5	11.30	183.3	6.3	6.75	31.8	91.7	11.34	170.6	6.5	6.68	31.4	90.4	11.12	173.0
11	5.2	6.04	32.0	83.4	10.60	187.8	6.0	6.67	31.7	89.9	11.18	199.4	6.3	6.76	34.2	91.4	11.28	183.2	6.3	6.74	31.8	91.6	11.33	171.2	6.5	6.67	31.4	90.2	11.11	173.5
12	5.2	5.94	32.1	83.2	10.57	190.7	6.0	6.62	31.8	89.4	11.13	200.3	6.3	6.77	34.2	91.2	11.28	183.1	6.2	6.72	31.9	91.5	11.32	171.6	6.4	6.65	31.6	89.5	11.02	173.7
13							5.9	6.63	31.9	89.1	11.11	198.8	6.2	6.76	34.1	91.1	11.28	183.7												
1m from Bottom (1mB)	1mB = 12.0m						1mB = 13.0m						1mB = 13.0m						1mB = 12.0m						1mB = 12.0m					

Appendix 1 - Tables

Table 39 Long Lake Depth Profile 3 Page(s)

EMS ID: E206619		LONG LAKE DEPTH PROFILING SPRING																												
Site NAME: LONG LAKE (LLM)																														
Sample Date Parameter Sample Depth (m)	05-Apr						12-Apr						19-Apr						25-Apr						02-May					
	Temp. Celcius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	Temp. Celcius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	Temp. Celcius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	Temp. Celcius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV	Temp. Celcius	pH	Cond µS/cm	Sat. %	D.O. mg/L	ORP mV
1	6.58	6.93	137.60	94.50	11.59	166.10	6.80	6.80	148.80	93.30	11.38	208.30	7.00	6.86	160.30	93.10	11.30	168.50	8.04	6.77	93.00	96.90	11.46	181.40	13.22	6.92	89.70	99.70	10.45	170.30
2	6.56	6.92	137.70	94.50	11.59	165.70	6.79	6.84	151.80	93.30	11.38	206.60	6.99	6.92	162.30	92.80	11.26	168.50	7.72	6.73	109.60	96.40	11.50	183.70	11.76	6.88	112.50	98.90	10.76	172.30
3	6.55	6.98	138.00	94.20	11.57	164.00	6.80	6.83	153.80	93.30	11.38	207.90	6.91	6.96	165.30	92.40	11.23	166.80	7.53	6.77	122.20	96.10	11.52	183.80	8.75	6.88	125.60	96.30	11.16	173.70
4	6.46	6.95	138.00	92.30	11.56	164.40	6.79	6.81	156.90	93.30	11.38	208.60	6.85	6.97	165.50	92.10	11.21	166.40	7.35	6.75	174.60	94.70	11.39	187.30	7.38	6.84	182.20	90.60	10.87	177.10
5	5.56	6.78	145.00	73.50	9.24	171.10	6.74	6.78	181.20	91.00	11.11	209.40	6.88	6.96	179.30	92.00	11.20	180.00	6.72	6.71	197.50	89.10	10.87	188.50	7.07	6.81	195.00	87.40	10.58	178.40
6	4.88	6.69	268.80	59.40	7.55	173.50	5.78	6.69	246.00	70.80	8.40	211.60	6.02	6.82	268.60	68.30	8.49	173.30	6.13	6.57	238.70	71.80	8.90	193.40	6.28	6.70	234.40	71.60	8.84	183.60
7	4.81	6.66	274.00	54.80	6.97	173.90	5.13	6.63	275.20	58.20	7.35	212.70	5.25	6.72	299.70	55.40	7.00	175.80	5.42	6.49	278.80	56.50	7.12	196.40	5.76	6.57	268.80	58.40	7.30	187.40
8	4.82	6.63	278.00	50.50	6.50	174.20	5.05	6.59	278.10	52.50	6.68	211.80	5.10	6.68	305.20	51.20	6.51	177.00	5.24	6.45	285.10	52.50	6.63	197.10	5.35	6.51	288.50	51.40	6.48	188.70
9	4.81	6.62	280.50	48.20	6.17	174.70	4.93	6.57	282.70	49.10	6.27	210.90	5.03	6.66	307.60	49.50	6.30	177.60	5.13	6.43	287.40	50.20	6.37	197.60	5.25	6.49	282.90	49.60	6.49	189.10
10	4.80	6.61	283.20	45.90	5.86	175.30	4.88	6.57	285.10	47.50	6.56	210.50	4.99	6.64	309.20	47.90	6.11	177.90	5.05	6.40	289.10	48.90	6.23	198.10	5.19	6.48	284.30	48.90	6.48	189.50
11	4.80	6.57	284.00	44.70	5.72	177.20	4.85	6.56	285.80	46.80	5.99	209.70	4.96	6.63	310.10	47.10	6.00	178.40	5.03	6.39	289.90	48.40	6.17	198.30	5.12	6.47	286.30	47.60	6.05	189.40
12	4.79	6.53	284.00	44.20	5.67	178.90	4.85	6.56	286.70	46.00	5.88	210.60	4.92	6.62	311.60	46.20	5.89	178.60	5.00	6.38	290.30	48.10	6.14	198.50	5.10	6.47	286.60	46.80	5.95	189.60
13	4.79	6.48	284.60	43.60	5.60	180.80	4.82	6.55	288.30	44.90	5.75	209.70	4.89	6.61	313.40	44.70	5.72	178.90	4.95	6.37	292.30	46.50	5.93	198.90	5.08	6.46	287.50	45.80	5.83	189.70
14	4.80	6.46	285.20	42.90	5.50	181.40	4.82	6.53	289.30	43.60	5.59	210.40	4.87	6.59	314.30	43.70	5.59	179.20	4.93	6.36	293.50	44.80	5.73	199.00	5.03	6.45	288.60	45.00	5.73	190.10
15	4.79	6.46	285.80	42.30	5.42	181.60	4.82	6.53	290.00	42.60	5.54	209.60	4.86	6.58	315.10	42.80	5.47	179.40	4.90	6.35	294.90	43.30	5.53	199.10	5.01	6.45	289.10	44.30	5.65	190.10
16	4.80	6.45	286.70	41.20	5.28	181.50	4.82	6.54	290.30	42.00	5.38	208.90	4.86	6.58	315.60	42.20	5.40	179.40	4.89	6.35	295.40	42.30	5.40	199.20	4.99	6.44	290.00	43.40	5.54	190.30
17	4.80	6.46	287.50	39.80	5.10	181.00	4.82	6.53	290.60	41.60	5.33	208.70	4.85	6.58	316.00	41.60	5.33	179.40	4.88	6.34	296.30	41.00	5.25	199.20	4.97	6.43	290.60	42.60	5.43	190.40
18	4.80	6.48	287.60	39.40	5.04	179.70	4.82	6.53	290.90	41.50	5.26	208.20	4.85	6.58	316.20	41.10	5.26	179.20	4.87	6.33	296.60	40.30	5.15	199.10	4.95	6.43	291.50	41.30	5.26	190.30
19	4.81	6.48	288.00	38.70	4.96	179.20	4.82	6.53	291.40	40.30	5.16	207.80	4.85	6.58	316.70	40.40	5.16	179.20	4.87	6.33	296.60	40.00	5.12	199.10	4.94	6.42	291.80	40.80	5.21	190.50
20	4.81	6.49	288.10	38.30	4.91	178.10	4.82	6.52	291.90	39.60	5.07	208.00	4.85	6.57	316.80	40.00	5.12	179.30	4.87	6.33	296.70	39.80	5.09	198.90	4.93	6.42	292.20	40.20	5.14	190.50
1m from Bottom (1MB)	1MB = 20m						1MB = 20m						1MB = 20m						1MB = 20m						1MB = 20m					

Appendix 1 - Tables

Table 39 Long Lake Depth Profile 3 Page(s)

EMS ID: E206619		LONG LAKE DEPTH PROFILING SUMMER																													
Sample Date	Parameter Sample Depth (m)	12-Jul						18-Jul						26-Jul						01-Aug						09-Aug					
Temp.		pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	
Celcius			µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	
1		22.8	7.59	148.7	81.6	7.05	140.4	22.1	7.71	157.0	86.6	7.51	25.0	21.0	7.87	158.8	76.4	6.73	3.9	20.8	7.89	174.1	80.5	7.21	132.3	21.7	7.95	177.9	79.1	6.81	140.7
2		22.7	7.74	149.1	79.6	6.86	139.1	22.1	7.74	157.0	79.1	6.91	28.0	21.0	7.86	159.1	73.7	6.53	-5.6	20.8	7.90	174.1	75.9	6.75	133.7	21.7	7.95	177.7	72.9	6.41	139.3
3		22.5	7.84	150.2	78.1	6.95	135.7	22.1	7.76	156.6	75.0	6.62	35.2	21.0	7.85	159.4	78.6	7.06	-22.0	20.8	7.88	173.9	76.1	6.65	133.2	21.7	7.90	177.7	75.3	6.50	137.6
4		17.7	7.73	185.5	95.1	9.35	133.2	21.0	7.47	170.2	87.0	7.79	35.6	21.0	7.86	159.4	81.0	7.14	-22.6	20.8	7.88	174.3	77.4	6.87	132.6	21.0	7.79	182.6	68.9	6.32	138.6
5		11.3	7.26	221.3	99.2	10.95	128.3	12.3	7.15	222.1	89.0	9.24	46.4	13.0	7.41	227.0	82.6	8.67	-31.4	15.0	7.18	234.4	86.2	8.71	143.0	17.2	7.35	231.5	86.4	8.32	146.4
6		8.5	7.13	260.2	79.3	9.36	135.5	8.5	7.01	266.2	63.7	7.49	47.0	10.4	7.37	254.7	78.2	8.81	-34.2	10.4	7.10	279.5	71.9	8.07	142.5	12.1	7.21	272.5	80.0	8.56	145.3
7		7.2	7.06	278.1	64.6	7.72	142.9	6.9	6.98	282.2	50.4	6.16	48.2	7.7	7.16	283.0	55.7	6.52	-33.4	7.8	7.04	301.6	53.4	6.32	138.6	8.6	7.16	300.7	61.4	7.08	144.0
8		6.3	7.02	283.6	54.6	6.68	145.3	6.3	6.95	286.7	44.8	5.50	47.3	6.8	6.94	287.7	43.6	5.30	-41.3	6.7	6.98	305.7	45.0	5.47	139.0	7.0	7.13	307.8	48.4	5.80	140.2
9		5.9	6.99	286.0	48.0	5.96	147.4	5.8	6.88	287.3	40.7	5.06	46.2	6.1	6.87	290.4	40.6	5.05	-46.5	6.2	6.97	307.8	40.7	5.02	138.5	6.4	7.06	309.3	40.9	5.02	140.3
10		5.7	6.96	287.0	47.1	5.90	147.3	5.7	6.82	288.0	41.7	5.21	47.8	5.8	6.86	290.2	39.7	4.91	-40.0	5.8	6.92	309.2	35.0	4.31	136.8	5.8	7.00	311.9	31.8	3.94	139.6
11		5.5	6.95	288.0	43.1	5.43	146.4	5.5	6.80	289.2	36.2	4.56	48.1	5.6	6.77	291.1	37.1	4.63	-26.4	5.6	6.87	310.4	30.4	3.81	117.4	5.6	6.88	312.5	29.9	3.72	136.2
12		5.4	6.93	288.9	39.6	5.00	143.3	5.4	6.79	290.0	34.4	4.33	48.6	5.6	6.76	291.8	33.1	4.17	-52.0	5.5	6.85	310.7	29.6	3.73	104.4	5.5	6.86	313.0	27.7	3.47	131.7
13		5.2	6.92	289.5	38.0	4.82	138.0	5.3	6.70	290.4	32.1	4.05	48.9	5.4	6.76	292.6	30.2	3.76	-80.4	5.4	6.84	311.3	27.7	3.50	90.2	5.3	6.84	313.9	25.3	3.24	128.3
14		5.2	6.91	289.9	36.8	4.71	138.7	5.2	6.69	290.8	30.6	3.84	49.5	5.3	6.79	293.6	28.5	3.61	-60.1	5.3	6.82	312.5	25.8	3.30	82.1	5.2	6.82	315.4	21.5	2.70	113.0
15		5.1	6.90	291.4	32.6	4.13	139.6	5.2	6.68	291.3	29.7	3.77	49.7	5.2	6.79	294.5	25.3	3.20	-63.5	5.1	6.82	314.4	20.5	2.59	77.5	5.1	6.81	316.4	18.2	2.32	83.2
16		5.0	6.89	292.2	29.2	3.71	141.1	5.1	6.66	292.3	27.2	3.47	49.2	5.1	6.73	295.0	24.5	3.06	-57.5	5.1	6.82	314.7	19.8	2.50	74.8	5.1	6.81	316.7	16.7	2.13	70.1
17		5.0	6.88	292.5	28.1	3.54	141.7	5.0	6.65	293.9	26.2	3.38	49.0	5.1	6.75	295.9	21.7	2.74	-94.2	5.1	6.81	315.2	18.4	2.32	70.4	5.1	6.80	317.1	16.7	2.10	65.5
18		5.0	6.88	292.7	26.6	3.40	142.6	5.0	6.65	293.5	23.6	2.92	49.5	5.1	6.72	296.0	21.4	2.72	-99.5	5.1	6.80	315.6	17.6	2.23	75.6	5.1	6.81	317.2	16.6	2.02	62.0
19		5.0	6.88	292.7	25.8	3.30	142.1	5.0	6.63	293.7	22.1	2.80	48.2	5.0	6.79	296.6	18.5	2.37	-74.3	5.0	6.80	316.0	16.1	2.04	78.3	5.1	6.82	317.4	15.5	1.98	54.6
20		5.0	6.88	293.2	24.2	3.08	141.9	5.0	6.61	294.3	19.8	2.50	48.5	5.0	6.81	297.0	18.6	2.36	-72.1	5.0	6.82	316.1	15.6	1.96	79.0	5.1	6.77	320.9	12.0	1.47	51.0
1m from Bottom (1MB)		1MB = 20.0m						1MB=20.0m						1MB=20.0m						1MB=20.0m						1MB=20.0m					

Appendix 1 - Tables

Table 39 Long Lake Depth Profile 3 Page(s)

EMS ID: E206619																																
Site NAME: LONG LAKE (LLM)																																
LONG LAKE DEPTH PROFILING FALL																																
Sample Date	04-Oct						11-Oct						17-Oct						23-Oct						30-Oct							
	Parameter		Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.		pH	Cond	Sat.	D.O.	ORP	Temp.		pH	Cond	Sat.	D.O.	ORP	Temp.		pH	Cond	Sat.	D.O.	ORP			
	Sample Depth (m)		Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV
1			13.85	7.29	205.70	93.00	9.61	184.00	13.67	7.19	202.60	91.20	9.46	174.30	12.80	7.33	223.10	91.10	9.64	153.60	12.11	7.35	233.10	90.70	9.75	149.10	8.94	6.99	248.20	80.50	9.31	247.30
2			13.78	7.29	205.70	92.8	9.6	188.2	13.573	7.33	206.30	96.4	9.46	173.8	12.802	7.33	223.00	91.2	9.64	154.4	12.087	7.35	232.70	90.6	9.74	149.7	8.9	6.98	248.20	80.2	9.32	248.4
3			13.75	7.29	205.40	92.6	9.6	191.2	13.53	7.36	208.00	96.2	9.46	174.8	12.801	7.33	223.00	91.2	9.65	155.3	12.081	7.34	235.00	90.6	9.73	150.5	8.9	6.98	248.70	80.5	9.33	249
4			13.73	7.29	205.60	92.40	9.58	196.10	13.51	7.37	208.60	96.20	9.47	177.60	12.80	7.33	223.00	91.20	9.64	156.70	12.081	7.34	235.00	90.6	9.73	150.5	8.9	6.98	248.70	80.8	9.36	249.3
5			13.72	7.29	205.80	92.30	9.57	198.70	13.51	7.37	209.50	96.30	9.48	180.90	12.80	7.33	223.00	91.20	9.65	158.30	12.07	7.34	236.10	90.40	9.72	151.80	8.88	6.98	248.90	80.90	9.37	249.60
6			13.709	7.28	206.40	92.1	9.55	201	13.469	7.37	210.80	96.2	9.47	182.3	12.791	7.33	223.00	91.2	9.65	159.9	12.072	7.33	238.40	90.3	9.7	152.6	8.9	6.98	248.70	81	9.38	249.8
7			12.895	6.91	310.00	83.2	8.79	215.7	12.689	6.92	296.10	83.2	8.33	195.6	12.782	7.33	223.30	91.1	9.64	161.1	12.189	7.23	312.10	87.7	9.4	157.3	8.9	6.97	248.80	81	9.39	250.4
8			8.914	6.68	287.40	51.5	5.96	220.5	9.933	6.6	279.30	54	6.09	205	10.365	6.73	286.00	59.6	6.66	173.7	10.696	6.74	297.10	59.2	6.59	166	8.9	6.97	249.00	80.9	9.38	251
9			7.808	6.77	291.90	47.3	5.58	217.5	8.131	6.56	281.20	45.3	5.33	207.9	7.913	6.65	286.30	44.8	5.29	176.3	8.404	6.68	291.10	43.6	5.09	169.3	8.805	6.95	254.20	80.1	9.29	252.2
10			7.15	6.73	290.80	38.6	4.82	222.1	7.334	6.53	282.50	39.1	4.69	209.9	7.093	6.64	288.20	39.7	4.79	177.6	7.027	6.65	292.70	32.7	3.96	170.8	7.857	6.50	299.40	41.5	4.93	261.1
11			6.625	6.71	291.30	34.4	4.2	224.3	6.539	6.53	282.90	33.3	4.07	210.8	6.551	6.62	288.90	32.4	3.9	178.9	6.691	6.66	293.50	30.8	3.7	170.9	6.616	6.47	299.30	33.1	4.02	262.4
12			6.228	6.69	293.10	28	3.45	226.9	6.293	6.53	283.30	27.2	3.34	210.7	6.263	6.61	288.80	29.2	3.61	179.7	6.422	6.65	294.30	27.4	3.35	171.2	6.392	6.45	300.50	27.6	3.37	263.2
13			6.035	6.67	293.30	24.3	3.02	228.3	6.044	6.53	283.90	23.5	2.9	210.7	6.058	6.60	289.60	23.9	2.93	180.3	6.183	6.65	295.20	24.6	2.93	171.6	6.227	6.45	300.60	24.8	3.05	263.7
14			5.812	6.66	294.20	20.1	2.51	229.6	5.812	6.54	284.40	20.2	2.52	210.8	5.841	6.59	290.30	20.3	2.45	180.6	5.941	6.63	295.70	19.6	2.41	171.6	6.0	6.43	301.30	20.4	2.5	263.9
15			5.684	6.65	294.70	15.3	1.94	230.2	5.621	6.53	285.50	16.1	1.99	210.8	5.669	6.58	290.90	14.8	1.84	180.9	5.783	6.63	296.10	14.8	1.85	171.6	5.772	6.43	301.90	15.9	1.98	264.2
16			5.547	6.62	295.40	10.6	1.3	230.6	5.528	6.51	286.10	10.3	1.28	210.7	5.563	6.57	291.40	11.2	1.41	181.8	5.646	6.62	296.80	12.5	1.55	171.8	5.688	6.42	302.60	13	1.62	264.7
17			5.476	6.61	295.60	7.3	0.92	231	5.466	6.51	286.50	5.4	0.67	210.5	5.511	6.55	291.70	7.64	0.95	182	5.542	6.60	297.60	7.4	0.89	172.3	5.581	6.40	302.90	9.1	1.12	264.8
18			5.436	6.6	295.60	4.8	0.59	231.3	5.446	6.51	286.50	2.8	0.35	210.2	5.472	6.54	292.00	3.7	0.45	182	5.466	6.58	297.80	1.6	0.17	172.4	5.52	6.39	303.60	5.1	0.63	265.1
19			5.412	6.58	295.1	-1	-0.15	231.1	5.432	6.51	287.2	0.3	0.02	210	5.448	6.54	292.20	0.4	0.04	182	5.449	6.58	298.70	-2.3	-0.31	172.8	5.482	6.38	303.70	1.2	0.19	265.2
20			5.408	6.58	296.7	-3.2	-0.41	231.8	5.425	6.51	287.9	-2.4	-0.31	209.8	5.442	6.53	292.50	-0.9	-0.13	181.9	5.443	6.59	300.70	-3.5	-0.45	173.5	5.463	6.38	304.20	-0.9	-0.18	265.5
1m from Bottom (1MB)			1MB = 20.0m						1MB=20.0m						1MB=20.0m						1MB=20.0m						1MB=20.0m					

Appendix 1 - Tables

Table 40 Middle Quinsam Lake Depth Profile 3 Page(s)

EMS ID E206618																														
Site NAME: MIDDLE QUINSAM LAKE (MQL)																														
MIDDLE QUINSAM LAKE DEPTH PROFILING SPRING																														
Sample Date	12-Apr						19-Apr						25-Apr						02-May						09-May					
Parameter	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP
Sample Depth (m)	°C		µS/cm		mg/L	mV	°C		µS/cm		mg/L	mV	°C		µS/cm		mg/L	mV	°C		µS/cm		mg/L	mV	°C		µS/cm		mg/L	mV
1	7.4	7.29	108.9	98.4	11.84	183.4	7.2	7.48	110.7	97.4	11.77	196.0	8.3	7.15	104.0	100.4	11.80	161.4	13.6	7.25	106.8	101.0	10.50	155.1	15.2	7.48	114.7	99.4	9.97	132.2
2	7.3	7.31	108.9	98.4	11.84	183	7.2	7.49	110.9	97.0	11.71	194.5	8.1	7.16	104.2	99.9	11.83	162.3	12.5	7.26	107.1	101.4	10.81	155.4	14.4	7.40	117.7	100.5	10.27	134.8
3	7.2	7.34	109.1	98.1	11.84	181.8	7.2	7.52	110.9	97.0	11.71	192.2	7.8	7.18	103.9	99.5	11.87	162.0	10.5	7.32	106.1	103.3	11.53	153.7	12.2	7.40	111.1	104.4	11.22	135.9
4	7.2	7.35	109.1	98.1	11.84	181.4	7.2	7.52	110.9	97.0	11.70	188.9	7.6	7.18	103.9	99.2	11.87	162.5	9.4	7.33	105.1	102.4	11.75	154.9	10.3	7.40	105.4	105.4	11.82	138.1
5	7.2	7.36	109.1	98.1	11.84	181.4	7.2	7.52	111.1	97.0	11.70	190.1	7.5	7.20	104.0	98.9	11.86	162.3	8.8	7.33	103.8	101.5	11.83	154.2	9.3	7.37	104.0	102.8	11.84	139.7
6	7.2	7.36	109.1	98.1	11.84	181.1	7.2	7.53	111.2	97.0	11.70	192.3	7.4	7.21	104.1	98.7	11.85	161.9	7.9	7.36	103.6	100.5	11.90	154.4	8.6	7.37	104.1	102.5	11.95	140.2
7	7.2	7.37	109.1	98.1	11.84	181	7.2	7.49	111.1	97.0	11.70	192.9	7.4	7.22	104.0	98.5	11.84	161.4	7.8	7.37	103.5	99.6	11.84	153.5	8.4	7.37	104.3	101.7	11.95	140.7
8	7.2	7.38	109.1	98.1	11.85	180.6	7.2	7.49	111.2	97.0	11.70	193.5	7.4	7.22	104.0	98.2	11.81	161.4	7.6	7.37	103.6	99.1	11.83	153.8	8.1	7.36	104.5	100.8	11.92	140.9
9	7.2	7.38	109.1	98.1	11.85	180.3	7.2	7.49	111.0	97.0	11.70	193.5	7.3	7.22	103.8	98.1	11.81	161.8	7.6	7.36	103.8	98.4	11.79	154.1	7.7	7.36	104.8	99.2	11.81	142.5
10	7.2	7.38	109.1	98.1	11.85	180.3	7.2	7.49	111.1	97.0	11.70	193.6	7.2	7.22	104.3	97.8	11.80	161.9	7.5	7.36	103.8	98.4	11.79	154.4	7.6	7.32	105.2	98.1	11.73	143.2
11	7.2	7.37	109.1	98.1	11.84	180.4	7.2	7.49	111.2	96.8	11.69	193.5	7.2	7.22	104.5	97.6	11.78	162.2	7.5	7.34	103.9	98.2	11.79	154.5	7.5	7.31	105.5	96.9	11.60	143.2
12	7.2	7.38	109.0	98.1	11.84	180	7.2	7.49	111.0	96.7	11.69	193.6	7.1	7.23	104.5	97.1	11.74	161.7	7.4	7.34	104.6	97.1	11.67	154.6	7.5	7.30	105.7	96.4	11.54	143.7
13	7.2	7.38	109.0	98.0	11.84	180.1	7.2	7.49	110.9	96.7	11.69	193.4	7.1	7.23	104.6	96.9	11.71	161.7	7.4	7.33	104.6	97.0	11.65	155.1	7.5	7.28	106.1	96.0	11.49	144.7
14	7.2	7.38	109.0	97.9	11.83	180.5													7.34	7.31	104.9	96.4	11.60	155.7	7.47	7.26	106.5	94.7	11.35	144.9
1m from Bottom (BS)	BS=14.0m						BS=13.0m						BS=14.0m						BS=14.0m											

Appendix 1 - Tables

Table 40 Middle Quinsam Lake Depth Profile 3 Page(s)

EMS ID E206618																														
Site NAME: MIDDLE QUINSAM LAKE (MQL)																														
MIDDLE QUINSAM LAKE DEPTH PROFILING SUMMER																														
Sample Date	12-Jul						18-Jul						26-Jul						01-Aug						09-Aug					
Parameter	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP
Sample Depth (m)	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV	Celsius		µS/cm		mg/L	mV
1	24.1	8.40	100.7	78.6	6.52	111.6	23.2	8.41	95.8	85.0	7.27	55.8	22.2	8.37	87.7	86.4	7.54	73.1	21.8	8.38	92.2	81.7	7.18	117.9	22.7	8.30	88.2	81.3	6.81	45.4
2	24.0	8.41	100.7	75.2	6.33	109.5	23.0	8.42	95.1	88.7	7.57	54.6	22.0	8.39	89.5	87.2	7.50	72.4	21.7	8.36	92.0	83.1	7.18	114.8	22.6	8.32	88.2	76.4	6.68	42.2
3	23.7	8.41	100.3	74.7	6.34	107.9	23.0	8.42	95.7	89.0	7.44	52.2	21.9	8.39	89.4	82.6	7.17	70.4	21.7	8.38	92.0	74.0	6.64	117.7	22.6	8.33	88.2	77.9	6.76	46.1
4	23.4	8.41	100.9	75.9	6.53	106.7	22.9	8.42	96.5	87.8	7.33	53.2	21.8	8.39	89.9	77.0	6.73	70.5	21.7	8.39	91.5	77.1	6.85	116.8	22.6	8.32	88.5	74.1	6.38	45.7
5	21.9	8.65	107.7	92.4	8.13	106.2	22.7	8.40	96.7	84.5	7.28	52.4	21.7	8.36	89.4	80.0	7.15	65.2	21.6	8.34	91.4	85.6	7.35	118.0	21.3	8.40	99.2	83.9	7.53	44.2
6	17.7	8.99	111.3	108.1	10.19	92.8	18.9	9.06	111.0	118.0	11.00	57.3	19.7	9.19	111.1	126.5	12.05	70.3	20.6	9.08	114.1	107.7	9.62	116.5	17.8	9.52	121.2	136.8	12.97	42.0
7	14.8	9.30	111.5	113.3	11.49	90.9	15.9	9.26	112.2	132.4	13.09	54.2	16.0	9.41	112.6	132.7	12.85	66.4	16.4	9.53	120.6	135.7	13.36	97.5	14.6	9.47	121.3	129.7	13.22	42.1
8	12.8	9.21	111.0	111.2	11.87	91.7	12.8	9.23	111.5	128.4	13.84	56.6	13.7	9.30	112.2	127.2	13.05	57.6	13.7	9.39	119.9	122.0	12.67	961.0	12.5	9.04	120.5	107.2	11.40	28.5
9	11.5	9.04	111.0	104.4	11.47	94.1	11.6	9.13	111.6	122.4	13.40	52.4	11.5	8.77	112.2	108.6	11.83	56.2	12.2	9.03	119.4	115.1	12.24	90.0	11.1	8.37	121.6	93.1	10.30	16.3
10	10.4	8.50	111.7	93.6	10.60	101.5	11.7	8.93	111.1	121.0	13.14	47.1	10.6	8.42	113.3	100.4	11.20	57.0	10.6	8.21	121.1	93.1	10.36	81.3	10.5	7.96	123.1	82.8	9.28	10.8
11	10.1	8.36	112.1	89.3	10.11	106.3	10.4	8.36	112.2	106.7	11.94	46.6	10.2	8.06	114.1	89.6	10.01	57.1	10.3	8.07	121.7	86.2	9.61	86.0	10.2	7.78	123.6	78.8	8.73	9.5
12	9.8	8.14	112.8	86.4	9.74	109.2	9.9	8.10	112.9	96.4	10.78	48.2	10.0	7.88	114.4	82.8	9.38	58.9	10.0	7.86	122.4	79.2	9.07	84.5	10.1	7.68	124.4	74.1	8.35	5.1
13	9.7	8.06	112.7	83.3	9.51	112.3	9.8	7.95	113.0	95.1	10.80	52.5	9.8	7.75	115.0	83.5	9.44	60.7	10.0	7.64	123.0	77.8	8.78	71.3	10.0	7.52	126.1	64.9	7.21	6.0
1m from Bottom (BS)	BS=13.0m						BS=13.0m						BS=13.0m						BS=13.0m						BS=13.0m					

Appendix 1 - Tables

Table 40 Middle Quinsam Lake Depth Profile 3 Page(s)

EMS ID E206618																															
Site NAME: MIDDLE QUINSAM LAKE (MQL)																															
MIDDLE QUINSAM LAKE DEPTH PROFILING FALL																															
Sample Date Parameter Sample Depth (m)		04-Oct						11-Oct						17-Oct						23-Oct						30-Oct					
	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	
1	14.468	7.59	82.9	94.1	9.6	199.2	14.351	7.45	77.6	91.6	9.36	176.3	13.24	7.40	76.6	92	9.64	188.1	12.674	7.46	77.2	90.8	9.64	172.1	9.922	7.25	79.9	8.2	9.73	204.6	
2	14.438	7.59	82.9	94.2	9.61	201.2	14.248	7.44	77.5	91.4	9.36	179.5	13.245	7.40	76.5	91.8	9.62	188.6	12.65	7.46	77.2	90.7	9.63	172.8	9.841	7.25	79.8	85.8	9.72	206.3	
3	14.427	7.6	82.8	94.1	9.61	203.7	14.177	7.44	77.4	91.2	9.36	180.8	13.245	7.39	76.4	91.7	9.61	188.8	12.625	7.46	77.2	90.6	9.62	173	9.757	7.25	79.9	85.6	9.72	207.7	
4	14.404	7.59	82.7	94.1	9.61	205.1	14.139	7.43	77.5	91.1	9.35	182.1	13.244	7.38	76.4	91.7	9.61	189.1	12.541	7.45	77	90.3	9.61	173.8	9.733	7.25	79.9	85.6	9.72	209	
5	14.381	7.58	82.3	93.9	9.6	206.1	14.117	7.43	77.3	91	9.35	183.5	13.247	7.38	76.4	91.6	9.6	189.4	12.516	7.46	77	90.2	9.61	173.5	9.719	7.25	79.8	85.5	9.72	209.9	
6	14.372	7.58	82.1	93.6	9.57	207.3	14.106	7.43	77.4	90.9	9.34	185	13.247	7.38	76.5	91.5	9.59	189.8	12.507	7.45	77	90.1	9.6	174	9.665	7.25	79.7	85.4	9.72	211	
7	14.366	7.56	82.7	93	9.51	208.7	14.095	7.42	77.4	90.7	9.33	185.9	13.243	7.38	76.5	91.5	9.59	189.8	12.496	7.45	77	90.1	9.6	174.2	9.643	7.24	79.8	85.3	9.71	211.9	
8	14.326	7.55	82.9	92.6	9.51	210.1	14.07	7.41	77.4	90.5	9.31	186.7	13.239	7.38	76.5	91.5	9.58	190	12.48	7.45	77	90	9.59	174.5	9.638	7.24	79.8	85.3	9.7	212.9	
9	14.319	7.55	83	92.2	9.43	211.7	14.057	7.41	77.1	90.3	9.3	187.5	13.23	7.38	76.5	91.4	9.58	190.2	12.463	7.44	77	89.9	9.59	175.1	9.619	7.24	79.9	85	9.69	213.8	
10	14.264	7.53	83.2	91.7	9.39	213.3	14.036	7.41	76.5	90.5	9.32	188	13.23	7.38	76.5	91.3	9.57	190.4	12.448	7.44	76.9	89.9	9.58	175.3	9.615	7.24	80	85	9.68	214.7	
11	14.198	7.49	83.7	90.7	9.3	214.8	14.003	7.41	76.2	90.3	9.31	188.7	13.207	7.37	76.6	91.1	9.55	190.7	12.447	7.44	76.9	89.9	9.58	175.4	9.608	7.23	80	84.8	9.66	215.8	
12	13.429	7.16	94.9	75.5	7.89	223.5	13.974	7.36	78.3	88.4	9.12	191.6	13.146	7.36	76.6	90.4	9.49	191.2	12.444	7.44	76.9	89.9	9.58	175.7	9.571	7.23	80.1	84.9	9.68	216.5	
13	10.91	6.8	128.2	24.6	2.64	235.7	13.21	7.02	95.3	65.4	6.88	202	13.098	7.36	76.6	90.4	9.48	191	12.404	7.44	77.2	89.6	9.57	176	9.563	7.24	80	84.9	9.68	218	
1m from Bottom (1MB)		1MB = 13m					1MB = 13m					1MB = 13m					1MB = 13m					1MB = 13m									

Appendix 1 - Tables

Table 41 LQL Depth Profile 1 Page(s)

EMS ID E292118

LOWER QUINSAM LAKE DEPTH PROFILING SPRING

Site NAME: LOWER QUINSAM LAKE (LQL)

Sample Date Parameter Sample Depth (m)	04-Apr						12-Apr						19-Apr						25-Apr						02-May						
	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	
1	6.6	7.40	101.1	100.4	12.31	128.8	6.5	7.21	87.1	97.4	11.98	176.0	6.8	7.17	95.0	97.0	11.82	174.0	8.2	7.10	81.2	100.2	11.77	162.3	10.8	7.13	77.9	101.2	11.20	140.4	
2	6.2	7.40	101.7	99.3	12.31	119.0	6.5	7.18	87.1	97.5	11.98	176.2	6.8	7.21	95.0	97.0	11.83	172.6	7.4	7.09	82.2	98.5	11.84	163.0	10.7	7.14	77.9	101.0	11.24	140.1	
3	6.1	7.42	101.4	99.5	12.28	114.0	6.5	7.18	87.1	97.4	11.98	176.5	6.8	7.21	95.1	96.9	11.83	172.4	7.0	7.09	82.8	97.7	11.85	163.0	9.1	7.14	78.5	98.4	11.34	140.8	
4	6.1	7.43	101.8	98.9	12.28	112.3	6.5	7.17	87.1	97.4	11.98	176.6	6.8	7.24	95.0	96.8	11.82	172.1	6.9	7.08	82.6	97.7	11.87	163.4	8.7	7.14	77.2	97.4	11.32	141.2	
5	6.0	7.42	101.8	98.7	12.27	111.3	6.4	7.15	86.9	97.4	11.98	176.8	6.8	7.24	95.0	96.8	11.82	171.7	6.8	7.08	82.7	97.5	11.88	163.4	8.7	7.13	77.1	97.0	11.30	141.3	
6	6.0	7.43	101.8	98.7	12.28	110.4	6.4	7.16	86.8	97.3	11.98	176.4	6.8	7.24	95.0	96.7	11.81	171.8	6.8	7.07	82.8	97.5	11.88	163.6	7.9	7.12	78.0	95.9	11.39	141.6	
7	6.0	7.50	101.7	98.6	12.28	109.0	6.4	7.16	86.8	97.3	11.98	176.5	6.8	7.25	95.0	96.7	11.81	171.5	6.8	7.06	83.2	97.4	11.89	164.0	7.7	7.11	80.6	96.2	11.48	141.9	
8	6.0	7.48	101.7	98.6	12.28	110.6	6.4	7.17	86.7	97.3	11.98	176.1	6.7	7.24	95.0	96.6	11.80	171.8	6.8	7.05	83.4	97.4	11.90	163.9	7.1	7.09	82.6	95.6	11.56	143.2	
9	6.0	7.48	101.9	98.5	12.27	109.7	6.4	7.16	86.6	97.3	11.98	177.0	6.7	7.24	95.0	96.6	11.80	171.7	6.7	7.05	83.4	97.3	11.89	164.0	7.0	7.07	83.1	95.2	11.55	144.3	
10	5.9	7.50	101.3	98.5	12.27	110.1	6.4	7.16	86.6	97.3	11.98	176.8	6.7	7.24	95.0	96.6	11.80	172.4	6.7	7.04	83.6	97.2	11.88	164.5	6.9	7.04	83.2	94.8	11.54	145.2	
11	5.9	7.49	101.5	98.4	12.27	110.5	6.4	7.16	86.6	97.3	11.98	176.2	6.7	7.23	95.0	96.6	11.80	172.3	6.7	7.05	83.6	97.2	11.88	164.7	6.8	7.02	83.3	94.5	11.51	146.3	
12	5.9	7.45	102.2	98.0	12.25	112.0	6.4	7.16	86.5	97.6	11.98	176.4	6.7	7.23	95.0	96.5	11.79	171.8	6.7	7.04	83.9	97.1	11.88	164.9	6.8	7.00	83.3	94.1	11.48	146.8	
13	5.7	7.43	102.2	97.1	12.17	113.7	6.4	7.15	86.3	97.1	11.98	176.5	6.7	7.24	95.0	96.5	11.79	171.6	6.6	7.04	84.0	96.7	11.86	164.9	6.8	6.99	83.4	93.9	11.46	147.2	
14	5.6	7.40	102.1	96.1	12.07	113.1	6.4	7.15	86.2	97.1	11.97	176.6	6.7	7.23	95.0	96.3	11.79	171.9	6.6	7.03	83.8	96.5	11.84	164.9	6.7	6.98	83.4	93.7	11.45	147.8	
15	5.6	7.42	103.6	95.5	12.02	114.5	6.3	7.15	86.3	96.9	11.96	177.0	6.6	7.23	94.6	96.1	11.78	171.6	6.5	7.01	83.7	96.1	11.81	165.9	6.7	6.96	83.4	93.2	11.39	148.1	
16	5.5	7.40	104.1	95.3	12.00	115.5	6.3	7.14	86.4	96.9	11.96	177.0	6.6	7.23	94.6	96.0	11.78	171.5	6.5	7.01	83.6	95.9	11.78	165.8	6.7	6.96	83.4	92.8	11.36	148.2	
17	5.5	7.38	104.4	95.2	12.00	116.2	6.2	7.11	86.4	96.4	11.95	178.3	6.5	7.22	94.5	95.7	11.75	172.0	6.5	6.99	83.4	95.5	11.75	166.2	6.6	6.95	83.4	92.2	11.29	148.3	
18							6.1	7.09	86.1	96.2	11.95	178.7	6.5	7.21	94.3	95.3	11.71	172.5													
1m from Bottom (BS)	BS=17.0m						BS=18.0m						BS=18.0m						BS=17.0m						BS=17.0m						

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E217018												Count of results exceeding standard
StnName	No Name Lake 1M												
StnCode	NNL1												
	5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile		
									Chronic	Acute			
SO4-D	mg/L	1.9	2.4	2.7	2.2	5	2.7	2.2	128		2.6	0	
Turb	NTU		0.41	0.24	0.53	4	0.53	0.36			0.49	0	
Alk-T	mg/L	11	12	12	11	5	12	11.6			12	0	
Al-T	mg/L	0.0303	0.0301	0.0294	0.0287	5	0.0303	0.0296	*		0.0302	0	
As-T	mg/L	0.00026	0.00021	0.00023	0.00023	5	0.00026	0.00023	0.005		0.00025	0	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	
Ba-T	mg/L	0.0011	0.0011	0.0011	0.0010	5	0.0011	0.00096	1		0.0011	0	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	
Ca-T	mg/L	3.90	3.92	3.83	3.59	5	3.92	3.78			3.91	0	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0	
Fe-T	mg/L	0.065	0.063	0.064	0.051	5	0.065	0.061		1	0.065	0	
Hard-T	mg/L	12.9	13.2	12.9	12.1	5	13.2	12.7			13.1	0	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0	
Mg-T	mg/L	0.779	0.822	0.818	0.749	5	0.822	0.794			0.82	0	
Mn-T	mg/L	0.0047	0.0051	0.0043	0.0035	5	0.0051	0.0042	0.737	0.8706	0.0049	0	
P-T	mg/L	0.0038	<0.0030	0.0033	0.0031	5	0.0038	0.00264	0.007		0.0036	0	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	
K-T	mg/L	0.058	0.062	0.066	0.059	5	0.066	0.061			0.064	0	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	
Na-T	mg/L	1.10	1.09	1.06	1.01	5	1.10	1.06			1.1	0	
Sr-T	mg/L	0.0121	0.0127	0.0126	0.0114	5	0.0127	0.0120			0.0127	0	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
Al-D	mg/L	0.0254	0.0284	0.0251	0.0288	5	0.0289	0.0273			0.0289	0	
As-D	mg/L	0.00025	0.00025	0.00023	0.00023	5	0.00027	0.00025			0.00026	0	
Ba-D	mg/L	0.0011	0.0012	0.0012	0.0011	5	0.0012	0.0012			0.0012	0	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	
Ca-D	mg/L	4.02	4.29	4.19	3.76	5	4.29	4.05			4.25	0	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Cu-D	mg/L	0.00056	0.00043	0.00042	0.00045	5	0.00056	0.00046	*	*	0.00052	*	
DOC	mg/L	3.1	3.1	2.8	2.9	5	3.1	3.0			3.1	0	
Hard-D	mg/L	13.4	14.3	13.9	12.7	5	14.3	13.5			14.1	0	
Fe-D	mg/L	0.0404	0.0411	0.0382	0.0362	5	0.0445	0.0401		0.35	0.0431	0	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Mg-D	mg/L	0.812	0.879	0.827	0.805	5	0.879	0.826			0.858	0	
Mn-D	mg/L	0.0041	0.0041	0.0037	0.0034	5	0.0041	0.0037			0.0041	0	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001			0.0001	0	
K-D	mg/L	0.060	0.065	0.064	0.061	5	0.065	0.063			0.065	0	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	
Na-D	mg/L	1.13	1.19	1.14	1.12	5	1.19	1.14			1.17	0	
Sr-D	mg/L	0.0123	0.0130	0.0131	0.0128	5	0.0131	0.0128			0.0131	0	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
N-NO23	mg/L	0.059	0.032	0.029	0.030	5	0.059	0.0320			0.0482	0	
Chlr-a	ug/L					1	<0.53	0.265			<0.53	0	
Notes: *Calculated guideline. Refer to Exceedance Tables.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E217018	Water Quality Guidelines											Count of results exceeding standard
StnName	No Name Lake 4M												
StnCode	NNL4												
		5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	1.9	2.6	2.7	2.1	2.5	5	2.7	2.4	128		2.7	0
Turb	NTU		0.36	0.28	0.35	0.25	4	0.36	0.31			0.36	0
Alk-T	mg/L	12	12	11	11	11	5	12	11.4			12	0
Al-T	mg/L	0.0293	0.0320	0.0310	0.0302	0.0318	5	0.0320	0.0309	*		0.0319	0
As-T	mg/L	0.00024	0.00024	0.00024	0.00024	0.00024	5	0.00024	0.00024	0.005		0.00024	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0011	0.0012	0.0012	0.0011	0.0011	5	0.0012	0.0011	1		0.0012	0
Cd-T	mg/L	<0.000010	<0.000010	0.000011	<0.000010	<0.000010	5	0.000011	0.0000062			8.60E-06	0
Ca-T	mg/L	3.77	4.14	3.95	3.73	3.75	5	4.14	3.87			4.06	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0
Fe-T	mg/L	0.061	0.065	0.066	0.053	0.059	5	0.066	0.061		1	0.066	0
Hard-T	mg/L	12.5	13.9	13.2	12.4	12.9	5	13.9	13.0			13.6	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	0
Mg-T	mg/L	0.760	0.858	0.801	0.754	0.849	5	0.858	0.804			0.854	0
Mn-T	mg/L	0.0047	0.0052	0.0043	0.0037	0.0035	5	0.0052	0.0043	0.737	0.8706	0.005	0
P-T	mg/L	0.0033	<0.0030	0.0031	<0.0030	<0.0030	5	0.0033	0.00218	0.007		0.00322	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.055	0.064	0.071	0.061	0.061	5	0.071	0.062			0.068	0
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	1.08	1.16	1.04	1.02	1.06	5	1.16	1.07			1.13	0
Sr-T	mg/L	0.0116	0.0132	0.0125	0.0117	0.0120	5	0.0132	0.0122			0.0129	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0268	0.0260	0.0248	0.0264	0.0264	5	0.0268	0.0261			0.0266	0
As-D	mg/L	0.00023	0.00025	0.00023	0.00023	0.00024	5	0.00025	0.00024			0.00025	0
Ba-D	mg/L	0.0011	0.0012	0.0011	0.0011	0.0011	5	0.0012	0.0011			0.0012	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	3.96	4.30	4.07	3.79	4.00	5	4.30	4.02			4.21	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00042	0.00044	0.00043	0.00042	0.00038	5	0.00044	0.00042	*	*	0.00044	*
DOC	mg/L	3.1	3.2	2.9	3.0	3.0	5	3.2	3.0			3.2	0
Hard-D	mg/L	13.2	14.4	13.5	12.8	13.4	5	14.4	13.5			14	0
Fe-D	mg/L	0.0391	0.0400	0.0383	0.0367	0.0365	5	0.0400	0.0381		0.35	0.0396	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	0.800	0.894	0.814	0.819	0.894	5	0.894	0.829			0.864	0
Mn-D	mg/L	0.0040	0.0041	0.0036	0.0032	0.0030	5	0.0041	0.0036			0.0041	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001			0.00001	0
K-D	mg/L	0.060	0.067	0.062	0.061	0.064	5	0.067	0.063			0.066	0
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	1.13	1.18	1.14	1.12	1.11	5	1.18	1.14			1.16	0
Sr-D	mg/L	0.0125	0.0136	0.0130	0.0128	0.0129	5	0.0136	0.0130			0.0134	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.033	0.033	0.028	0.032	0.025	5	0.033	0.030			0.033	0

Notes: *Calculated guideline. Refer to Exceedance Tables.

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

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E217018	Water Quality Guidelines											Count of results exceeding standard
StnName	No Name Lake 9M												
StnCode	NNL9												
		5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	2.4	2.6	2.9	2.4	2.4	5	2.9	2.5	128		2.8	0
Turb	NTU		0.43	0.25	0.39	0.24	4	0.43	0.33			0.42	0
Alk-T	mg/L	11	13	11	12	11	5	13	11.6			12.6	0
Al-T	mg/L	0.0325	0.0321	0.0300	0.0287	0.0296	5	0.0325	0.0306	*		0.0323	0
As-T	mg/L	0.00026	0.00022	0.00024	0.00023	0.00024	5	0.00026	0.00024	0.005		0.00025	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0012	0.0011	0.0012	0.0011	<0.0010	5	0.0012	0.00102	1		0.0012	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	4.15	4.10	4.01	3.59	3.86	5	4.15	3.94			4.13	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0
Fe-T	mg/L	0.070	0.064	0.068	0.058	0.064	5	0.070	0.065		1	0.069	0
Hard-T	mg/L	13.8	13.7	13.5	12.0	13.0	5	13.8	13.2			13.8	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	0.826	0.841	0.838	0.738	0.816	5	0.841	0.812			0.84	0
Mn-T	mg/L	0.0056	0.0051	0.0044	0.0039	0.0037	5	0.0056	0.0045	0.737	0.8706	0.0054	0
P-T	mg/L	0.0032	<0.0030	<0.0030	<0.0030	<0.0030	5	0.0032	0.00184	0.007		0.00252	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.058	0.066	0.066	0.059	0.060	5	0.066	0.062			0.066	0
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	1.12	1.13	1.07	0.994	1.02	5	1.13	1.067			1.126	0
Sr-T	mg/L	0.0127	0.0131	0.0127	0.0114	0.0123	5	0.0131	0.0124			0.0129	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0257	0.0271	0.0260	0.0268	0.0266	5	0.0271	0.0264			0.027	0
As-D	mg/L	0.00023	0.00028	0.00023	0.00023	0.00023	5	0.00028	0.00024			0.00026	0
Ba-D	mg/L	0.0012	0.0013	0.0012	0.0012	0.0011	5	0.0013	0.0012			0.0013	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	4.15	4.22	4.12	3.87	4.06	5	4.22	4.08			4.19	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00037	0.00044	0.00047	0.00044	0.00094	5	0.00094	0.00053	*	*	0.00075	*
DOC	mg/L	3.4	3.3	2.9	3.0	2.9	5	3.4	3.1			3.4	0
Hard-D	mg/L	13.8	14.6	13.7	13.1	13.5	5	14.6	13.7			14.3	0
Fe-D	mg/L	0.0424	0.0391	0.0403	0.0385	0.0386	5	0.0424	0.0398		0.35	0.0416	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	0.832	0.982	0.830	0.834	0.859	5	0.982	0.859			0.923	0
Mn-D	mg/L	0.0044	0.0045	0.0037	0.0033	0.0031	5	0.0045	0.0038			0.0045	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.058	0.074	0.066	0.062	0.064	5	0.074	0.065			0.071	0
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	1.13	1.32	1.13	1.15	1.11	5	1.32	1.17			1.25	0
Sr-D	mg/L	0.0132	0.0143	0.0134	0.0132	0.0132	5	0.0143	0.0135			0.0139	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.036	0.034	0.028	0.033	0.026	5	0.036	0.031			0.035	0

Notes: *Calculated guideline. Refer to Exceedance Tables.

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

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E217018	Water Quality Guidelines											Count of results
StnName	No Name Lake Bottom												exceeding
StnCode	NNLB												standard
		5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	2.3	4.2	2.9	2.5	2.4	5	4.2	2.9	128		3.7	0
Turb	NTU		0.31	0.25	0.43	0.26	4	0.43	0.31			0.39	0
Alk-T	mg/L	11	10	11	12	11	5	12	11.0			11.6	0
Al-T	mg/L	0.0318	0.0328	0.0278	0.0304	0.0308	5	0.0328	0.0307	*		0.0324	0
As-T	mg/L	0.00027	0.00027	0.00022	0.00025	0.00024	5	0.00027	0.00025	0.005		0.00027	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0013	0.0012	0.0010	0.0011	0.0011	5	0.0013	0.0011	1		0.0013	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	4.29	4.23	3.57	3.85	3.95	5	4.29	3.98			4.27	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00092	<0.00050	5	0.00092	0.000384			0.000652	0
Fe-T	mg/L	0.073	0.083	0.060	0.067	0.069	5	0.083	0.070		1	0.079	0
Hard-T	mg/L	14.2	14.2	12.1	12.8	13.3	5	14.2	13.3			14.2	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	0.839	0.871	0.777	0.783	0.841	5	0.871	0.822			0.859	0
Mn-T	mg/L	0.0059	0.0061	0.0041	0.0043	0.0039	5	0.0061	0.0049	0.737	0.8706	0.006	0
P-T	mg/L	0.0032	<0.0030	0.0030	<0.0030	<0.0030	5	0.0032	0.00214	0.007		0.00312	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.061	0.071	0.065	0.068	0.061	5	0.071	0.065			0.07	0
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	1.17	1.12	1.00	1.06	1.07	5	1.17	1.08			1.15	0
Sr-T	mg/L	0.0133	0.0139	0.0112	0.0122	0.0128	5	0.0139	0.0127			0.0137	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0257	0.0255	0.0246	0.0293	0.0255	5	0.0293	0.0261			0.0279	0
As-D	mg/L	0.00025	0.00026	0.00022	0.00023	0.00024	5	0.00026	0.00024			0.00026	0
Ba-D	mg/L	0.0012	0.0012	0.0012	0.0012	0.0012	5	0.0012	0.0012			0.0012	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	4.19	4.43	4.05	3.93	3.96	5	4.43	4.11			4.33	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00035	0.00053	0.00037	0.00041	0.00040	5	0.00053	0.00041	*	*	0.00048	*
DOC	mg/L	3.2	3.4	3.1	2.9	3.0	5	3.4	3.1			3.3	0
Hard-D	mg/L	13.9	14.8	13.5	13.2	13.3	5	14.8	13.7			14.4	0
Fe-D	mg/L	0.0437	0.0447	0.0381	0.0391	0.0399	5	0.0447	0.0411		0.35	0.0443	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	0.829	0.902	0.819	0.821	0.902	5	0.902	0.837			0.873	0
Mn-D	mg/L	0.0046	0.0049	0.0037	0.0032	0.0031	5	0.0049	0.0039			0.0048	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.059	0.065	0.064	0.062	0.062	5	0.065	0.062			0.065	0
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	1.13	1.17	1.14	1.12	1.11	5	1.17	1.13			1.16	0
Sr-D	mg/L	0.0133	0.0139	0.0130	0.0133	0.0131	5	0.0139	0.0133			0.0137	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.035	0.031	0.029	0.035	0.026	5	0.035	0.031			0.035	0

Notes: *Calculated guideline. Refer to Exceedance Tables.

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

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID		E206619						Water Quality Guidelines						Count of results exceeding standard
StnName		Long Lake Middle 1 M												
StnCode		LLM1												
		5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile		
SO4-D	mg/L	43	47	48	21	24	5	48	36.6	128		47.6	0	
Turb	NTU	0.32	0.48	0.26	0.39	0.24	5	0.48	0.34			0.44	0	
Alk-T	mg/L	22	24	24	16	17	5	24	20.6			24	0	
Al-T	mg/L	0.0239	0.0230	0.0198	0.0279	0.0259	5	0.0279	0.0241	*		0.0271	0	
As-T	mg/L	0.00035	0.00031	0.00032	0.00034	0.00034	5	0.00035	0.00033	0.005		0.00035	0	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	
Ba-T	mg/L	0.0044	0.0047	0.0041	0.0027	0.0031	5	0.0047	0.0038	1		0.0046	0	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	
Ca-T	mg/L	17.8	19.8	17.8	9.73	11.4	5	19.8	15.31			19	0	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0	
Fe-T	mg/L	0.056	0.057	0.050	0.053	0.050	5	0.057	0.053		1	0.057	0	
Hard-T	mg/L	54.6	60.4	53.6	30.6	34.7	5	60.4	46.8			58.1	0	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0	
Mg-T	mg/L	2.47	2.68	2.20	1.54	1.52	5	2.68	2.08			2.6	0	
Mn-T	mg/L	0.0072	0.0093	0.0075	0.0044	0.0045	5	0.0093	0.0066	0.737	0.8706	0.0086	0	
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0032	<0.0030	5	0.0032	0.00184	0.007		0.00252	0	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	
Ni-T	mg/L	0.0017	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0017	0.00074	0.025		0.00122	0	
K-T	mg/L	0.200	0.215	0.189	0.130	0.151	5	0.215	0.177			0.209	0	
S-T	mg/L	13.9	15.2	13.3	5.6	7.0	5	15.2	11.0			14.7	0	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	
Na-T	mg/L	5.00	5.63	4.90	2.90	3.14	5	5.63	4.31			5.38	0	
Sr-T	mg/L	0.103	0.114	0.0989	0.0537	0.0582	5	0.114	0.0856			0.1096	0	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
Al-D	mg/L	0.0194	0.0205	0.0189	0.0258	0.0216	5	0.0258	0.0212			0.0241	0	
As-D	mg/L	0.00033	0.00035	0.00034	0.00032	0.00035	5	0.00035	0.00034			0.00035	0	
Ba-D	mg/L	0.0044	0.0051	0.0046	0.0029	0.0032	5	0.0051	0.0040			0.0049	0	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	
Ca-D	mg/L	18.5	21.7	19.0	10.2	11.5	5	21.7	16.2			20.6	0	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Cu-D	mg/L	0.00035	0.00039	0.00037	0.00040	0.00044	5	0.00044	0.00039	*	*	0.00042	*	
DOC	mg/L	3.4	3.1	3.0	3.1	3.4	5	3.4	3.2			3.4	0	
Hard-D	mg/L	56.2	65.7	58.2	31.7	35.7	5	65.7	49.5			62.7	0	
Fe-D	mg/L	0.0404	0.0419	0.0357	0.0343	0.0402	5	0.0419	0.0385		0.35	0.0413	0	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Mg-D	mg/L	2.41	2.80	2.62	1.53	1.69	5	2.80	2.21			2.73	0	
Mn-D	mg/L	0.0066	0.0080	0.0068	0.0037	0.0036	5	0.0080	0.0057			0.0075	0	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0	
K-D	mg/L	0.206	0.226	0.225	0.128	0.148	5	0.226	0.187			0.226	0	
S-D	mg/L	14.5	16.2	14.2	7.1	7.2	5	16.2	11.8			15.5	0	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	
Na-D	mg/L	4.95	5.81	5.73	3.02	3.24	5	5.81	4.55			5.78	0	
Sr-D	mg/L	0.105	0.119	0.113	0.0573	0.0624	5	0.119	0.0913			0.1166	0	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
N-NO23	mg/L	0.027	0.024	0.021	0.023	<0.020	5	0.027	0.0210			0.0258	0	
Chlr-a	ug/L					<0.53	1	<0.53	0.265			<0.53	0	
Notes: *Calculated guideline. Refer to Exceedance Tables.														
Factor applied to less-than results when calculating statistics: 0.5														

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E206619	Water Quality Guidelines											Count of results exceeding standard
StnName	Long Lake Middle 4 M												
StnCode	LLM4												
		5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	45	46	50	52	57	5	57	50.0	128		55	0
Turb	NTU	0.33	0.41	0.26	0.58	0.27	5	0.58	0.37			0.51	0
Alk-T	mg/L	24	24	24	21	26	5	26	23.8			25.2	0
Al-T	mg/L	0.0237	0.0229	0.0286	0.0284	0.0238	5	0.0286	0.0255	*		0.0285	0
As-T	mg/L	0.00037	0.00029	0.00035	0.00035	0.00036	5	0.00037	0.00034	0.005		0.00037	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0046	0.0046	0.0047	0.0049	0.0053	5	0.0053	0.0048	1		0.0051	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	18.6	19.6	20.7	19.7	22.4	5	22.4	20.2			21.7	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0
Fe-T	mg/L	0.057	0.056	0.057	0.062	0.051	5	0.062	0.057		1	0.06	0
Hard-T	mg/L	56.8	59.8	62.4	60.5	67.7	5	67.7	61.4			65.6	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	2.53	2.64	2.58	2.73	2.84	5	2.84	2.66			2.8	0
Mn-T	mg/L	0.0076	0.0094	0.0086	0.0065	0.0070	5	0.0094	0.0078	0.737	0.8706	0.0091	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0044	5	0.0044	0.00208	0.007		0.00324	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.207	0.214	0.216	0.238	0.248	5	0.248	0.225			0.244	0
S-T	mg/L	14.7	15.6	14.9	15.2	17.3	5	17.3	15.5			16.6	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	5.19	5.49	5.64	5.79	6.25	5	6.25	5.67			6.07	0
Sr-T	mg/L	0.108	0.115	0.116	0.121	0.131	5	0.131	0.118			0.127	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0194	0.0193	0.0181	0.0220	0.0179	5	0.0220	0.0193			0.021	0
As-D	mg/L	0.00032	0.00033	0.00033	0.00033	0.00035	5	0.00035	0.00033			0.00034	0
Ba-D	mg/L	0.0046	0.0047	0.0047	0.0052	0.0052	5	0.0052	0.0049			0.0052	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	18.9	20.6	20.0	20.7	22.1	5	22.1	20.5			21.5	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00035	0.00041	0.00034	0.00034	0.00052	5	0.00052	0.00039	*	*	0.00048	*
DOC	mg/L	3.5	2.9	3.0	3.3	3.3	5	3.5	3.2			3.4	0
Hard-D	mg/L	57.8	63.1	61.1	63.5	67.3	5	67.3	62.6			65.8	0
Fe-D	mg/L	0.0419	0.0402	0.0360	0.0384	0.0334	5	0.0419	0.0380		0.35	0.0412	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	2.56	2.79	2.71	2.85	2.96	5	2.96	2.77			2.92	0
Mn-D	mg/L	0.0069	0.0081	0.0070	0.0056	0.0057	5	0.0081	0.0067			0.0077	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001			0.00001	0
K-D	mg/L	0.213	0.223	0.231	0.233	0.257	5	0.257	0.231			0.247	0
S-D	mg/L	15.0	16.2	14.5	18.9	17.7	5	18.9	16.5			18.4	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	5.25	5.78	5.91	5.99	6.44	5	6.44	5.87			6.26	0
Sr-D	mg/L	0.108	0.119	0.118	0.126	0.143	5	0.143	0.123			0.136	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.025	0.027	<0.020	0.022	0.021	5	0.027	0.0210			0.0262	0
Notes: *Calculated guideline. Refer to Exceedance Tables.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E206619	Water Quality Guidelines											Count of results exceeding standard
StnName	Long Lake Middle 9 M												
StnCode	LLM9												
		5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	93	93	57	98	97	5	98	87.6	128		97.6	0
Turb	NTU	0.93	0.60	0.30	0.59	0.29	5	0.93	0.54			0.8	0
Alk-T	mg/L	40	39	27	39	39	5	40	36.8			39.6	0
Al-T	mg/L	0.0094	0.0109	0.0212	0.0100	0.0106	5	0.0212	0.0124	*		0.0171	0
As-T	mg/L	0.00035	0.00027	0.00035	0.00032	0.00030	5	0.00035	0.00032	0.005		0.00035	0
B-T	mg/L	0.080	0.082	0.052	0.075	0.081	5	0.082	0.074	1.2		0.082	0
Ba-T	mg/L	0.0077	0.0073	0.0056	0.0071	0.0070	5	0.0077	0.0069	1		0.0075	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	37.1	37.5	25.5	35.5	37.3	5	37.5	34.6			37.4	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	0.00054	<0.00050	<0.00050	5	0.00054	0.000308			0.000424	0
Fe-T	mg/L	0.062	0.064	0.060	0.056	0.054	5	0.064	0.059		1	0.063	0
Hard-T	mg/L	110	112	76.1	106	111	5	112	103.0			111.6	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	4.32	4.41	3.04	4.16	4.36	5	4.41	4.06			4.39	0
Mn-T	mg/L	0.0825	0.0587	0.0167	0.0349	0.0226	5	0.0825	0.0431	0.737	0.8706	0.073	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0033	5	0.0033	0.00186	0.007		0.00258	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.409	0.402	0.270	0.394	0.407	5	0.409	0.376			0.408	0
S-T	mg/L	32.2	31.6	18.9	30.5	30.3	5	32.2	28.7			32	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	11.8	11.5	7.33	11.2	11.4	5	11.8	10.65			11.68	0
Sr-T	mg/L	0.276	0.280	0.150	0.261	0.264	5	0.280	0.246			0.278	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0074	0.0075	0.0177	0.0072	0.0077	5	0.0177	0.0095			0.0137	0
As-D	mg/L	0.00029	0.00029	0.00032	0.00027	0.00028	5	0.00032	0.00029			0.00031	0
Ba-D	mg/L	0.0074	0.0074	0.0048	0.0074	0.0071	5	0.0074	0.0068			0.0074	0
B-D	mg/L	0.078	0.092	<0.050	0.087	0.085	5	0.092	0.0734			0.09	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	39.3	39.7	20.7	37.3	37.0	5	39.7	34.8			39.5	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00039	0.00030	0.00036	0.00031	0.00032	5	0.00039	0.00034	*	*	0.00038	*
DOC	mg/L	2.9	2.5	2.9	2.7	2.7	5	2.9	2.7			2.9	0
Hard-D	mg/L	116	118	63.1	112	111	5	118	104.0			117.2	0
Fe-D	mg/L	0.0249	0.0251	0.0363	0.0192	0.0167	5	0.0363	0.0244		0.35	0.0318	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	4.38	4.65	2.75	4.53	4.51	5	4.65	4.16			4.6	0
Mn-D	mg/L	0.0245	0.0132	0.0069	0.0053	0.0042	5	0.0245	0.0108			0.02	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.427	0.423	0.241	0.414	0.438	5	0.438	0.389			0.434	0
S-D	mg/L	32.6	33.3	14.8	34.5	31.2	5	34.5	29.3			34	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	12.0	12.5	6.26	12.1	12.1	5	12.5	10.99			12.34	0
Sr-D	mg/L	0.287	0.291	0.130	0.290	0.270	5	0.291	0.254			0.291	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.063	0.059	0.029	0.058	0.056	5	0.063	0.053			0.061	0
Notes: *Calculated guideline. Refer to Exceedance Tables.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E206619	Water Quality Guidelines											Count of results exceeding standard
StnName	Long Lake Middle 1M From B												
StnCode	LLMB												
		5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	97	99	100	100	96	5	100	98.4	128		100	0
Turb	NTU	1.3	0.70	0.39	0.57	0.29	5	1.3	0.65			1.06	0
Alk-T	mg/L	41	40	41	41	40	5	41	40.6			41	0
Al-T	mg/L	0.0086	0.0090	0.0091	0.0075	0.0091	5	0.0091	0.0087	*		0.0091	0
As-T	mg/L	0.00033	0.00027	0.00034	0.00032	0.00031	5	0.00034	0.00031	0.005		0.00034	0
B-T	mg/L	0.084	0.087	0.086	0.076	0.084	5	0.087	0.083	1.2		0.087	0
Ba-T	mg/L	0.0079	0.0079	0.0080	0.0072	0.0072	5	0.0080	0.0076	1		0.008	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	37.7	38.8	39.8	35.6	37.4	5	39.8	37.9			39.4	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0
Fe-T	mg/L	0.060	0.064	0.074	0.061	0.057	5	0.074	0.063		1	0.07	0
Hard-T	mg/L	112	115	117	105	111	5	117	112.0			116.2	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	4.32	4.46	4.35	3.96	4.28	5	4.46	4.27			4.42	0
Mn-T	mg/L	0.114	0.0977	0.0788	0.0582	0.0349	5	0.114	0.0767	0.737	0.8706	0.1075	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.417	0.416	0.419	0.388	0.418	5	0.419	0.412			0.419	0
S-T	mg/L	32.6	32.3	32.6	30.0	30.5	5	32.6	31.6			32.6	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	12.3	12.3	12.4	11.0	11.8	5	12.4	12.0			12.4	0
Sr-T	mg/L	0.290	0.292	0.280	0.261	0.269	5	0.292	0.278			0.291	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0061	0.0061	0.0058	0.0068	0.0070	5	0.0070	0.0064			0.0069	0
As-D	mg/L	0.00027	0.00027	0.00026	0.00027	0.00029	5	0.00029	0.00027			0.00028	0
Ba-D	mg/L	0.0074	0.0077	0.0074	0.0077	0.0070	5	0.0077	0.0074			0.0077	0
B-D	mg/L	0.083	0.098	0.084	0.092	0.087	5	0.098	0.089			0.096	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	40.0	42.0	38.4	39.3	37.2	5	42.0	39.4			41.2	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00029	0.00031	0.00038	0.00032	0.00040	5	0.00040	0.00034	*	*	0.00039	*
DOC	mg/L	2.8	2.9	2.4	2.5	2.7	5	2.9	2.7			2.9	0
Hard-D	mg/L	119	124	115	117	112	5	124	117.4			122	0
Fe-D	mg/L	0.0192	0.0196	0.0191	0.0175	0.0156	5	0.0196	0.0182		0.35	0.0194	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	4.59	4.77	4.55	4.60	4.51	5	4.77	4.60			4.7	0
Mn-D	mg/L	0.0036	0.0037	0.0055	0.0042	0.0036	5	0.0055	0.0041			0.005	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.441	0.448	0.449	0.433	0.438	5	0.449	0.442			0.449	0
S-D	mg/L	34.3	35.8	31.7	35.7	31.7	5	35.8	33.8			35.8	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	12.8	13.2	12.7	12.8	12.3	5	13.2	12.8			13	0
Sr-D	mg/L	0.301	0.303	0.275	0.303	0.276	5	0.303	0.292			0.303	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.069	0.104	0.066	0.091	0.065	5	0.104	0.079			0.099	0
Notes: *Calculated guideline. Refer to Exceedance Tables.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID		E206618							Water Quality Guidelines					Count of results exceeding standard
StnName	Middle Quinsam Lake 1M													
StnCode	MQL1													
	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	9-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile			
SO4-D	mg/L	20	18	18	17	21	5	21	18.8	128		20.6	0	
Turb	NTU	0.26	0.16	0.21	0.20	0.22	5	0.26	0.21			0.24	0	
Alk-T	mg/L	33	33	32	34	33	5	34	33.0			33.6	0	
Al-T	mg/L	0.0118	0.0114	0.0119	0.0146	0.0136	5	0.0146	0.0127	*		0.0142	0	
As-T	mg/L	0.00011	0.00011	0.00011	0.00015	0.00014	5	0.00015	0.00012	0.005		0.00015	0	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	
Ba-T	mg/L	0.0014	0.0014	0.0013	0.0015	0.0017	5	0.0017	0.0015	1		0.0016	0	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	0.000023	<0.000010	5	0.000023	0.0000086			1.58E-05	0	
Ca-T	mg/L	10.2	9.41	8.75	9.75	10.5	5	10.5	9.72			10.38	0	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	
Cu-T	mg/L	<0.00050	<0.00050	0.00113	0.00052	0.00051	5	0.00113	0.000532			0.000886	0	
Fe-T	mg/L	0.021	0.022	0.020	0.025	0.030	5	0.030	0.024		1	0.028	0	
Hard-T	mg/L	30.7	28.4	26.3	29.8	31.6	5	31.6	29.4			31.2	0	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0	
Mg-T	mg/L	1.27	1.19	1.08	1.32	1.32	5	1.32	1.24			1.32	0	
Mn-T	mg/L	0.0028	0.0028	0.0025	0.0036	0.0058	5	0.0058	0.0035	0.737	0.8706	0.0049	0	
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0041	5	0.0041	0.00202	0.007		0.00306	0	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	
K-T	mg/L	0.183	0.175	0.153	0.187	0.203	5	0.203	0.180			0.197	0	
S-T	mg/L	6.4	5.7	5.4	6.0	5.9	5	6.4	5.9			6.2	0	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	0.00010	<0.00010	5	0.00010	0.000060	0.002		8.00E-05	0	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	
Na-T	mg/L	10.6	9.56	8.67	10.6	11.6	5	11.6	10.21			11.2	0	
Sr-T	mg/L	0.0482	0.0429	0.0401	0.0455	0.0511	5	0.0511	0.0456			0.0499	0	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
Al-D	mg/L	0.0091	0.0138	0.0110	0.0123	0.0122	5	0.0138	0.0117			0.0132	0	
As-D	mg/L	0.00012	0.00011	0.00011	0.00019	0.00015	5	0.00019	0.00014			0.00017	0	
Ba-D	mg/L	0.0015	0.0016	0.0015	0.0014	0.0017	5	0.0017	0.0015			0.0017	0	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	
Ca-D	mg/L	10.3	9.93	9.52	9.92	10.5	5	10.5	10.03			10.42	0	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Cu-D	mg/L	0.00046	0.00053	0.00050	0.00048	0.00061	5	0.00061	0.00052	*	*	0.00058	*	
DOC	mg/L	1.8	1.9	1.9	1.8	1.9	5	1.9	1.9			1.9	0	
Hard-D	mg/L	31.0	30.0	28.8	30.1	31.7	5	31.7	30.3			31.4	0	
Fe-D	mg/L	0.0120	0.0198	0.0117	0.0163	0.0186	5	0.0198	0.0157		0.35	0.0193	0	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Mg-D	mg/L	1.29	1.27	1.22	1.29	1.34	5	1.34	1.28			1.32	0	
Mn-D	mg/L	0.0013	0.0015	0.0016	0.0027	0.0047	5	0.0047	0.0024			0.0039	0	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0	
K-D	mg/L	0.189	0.179	0.164	0.179	0.207	5	0.207	0.184			0.2	0	
S-D	mg/L	6.6	6.2	6.5	5.8	7.0	5	7.0	6.4			6.8	0	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	
Na-D	mg/L	10.7	10.1	9.90	10.1	11.7	5	11.7	10.50			11.3	0	
Sr-D	mg/L	0.0508	0.0454	0.0461	0.0473	0.0523	5	0.0523	0.0484			0.0517	0	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0	
Chlr-a	ug/L				<0.52		1	<0.52	0.260			<0.52	0	
Notes: *Calculated guideline. Refer to Exceedance Tables.														
Factor applied to less-than results when calculating statistics: 0.5														

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E206618	Water Quality Guidelines											Count of results
StnName	Middle Quinsam Lake 4M												exceeding
StnCode	MQL4												standard
		12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	9-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	20	19	18	18	19	5	20	18.8	128		19.6	0
Turb	NTU	0.30	0.24	0.23	0.19	0.20	5	0.30	0.23			0.28	0
Alk-T	mg/L	36	33	33	33	33	5	36	33.6			34.8	0
Al-T	mg/L	0.0114	0.0132	0.0123	0.0125	0.0136	5	0.0136	0.0126	*		0.0134	0
As-T	mg/L	0.00012	0.00010	0.00011	0.00012	0.00014	5	0.00014	0.00012	0.005		0.00013	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0015	0.0014	0.0014	0.0013	0.0015	5	0.0015	0.0014	1		0.0015	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	0.000015	<0.000010	5	0.000015	0.0000070			1.10E-05	0
Ca-T	mg/L	10.1	8.83	8.94	9.43	10.5	5	10.5	9.56			10.34	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	0.00051	<0.00050	<0.00050	0.00054	5	0.00054	0.000360			0.000528	0
Fe-T	mg/L	0.021	0.025	0.020	0.022	0.022	5	0.025	0.022		1	0.024	0
Hard-T	mg/L	30.5	26.8	26.9	28.7	31.6	5	31.6	28.9			31.2	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	1.27	1.14	1.11	1.24	1.33	5	1.33	1.22			1.31	0
Mn-T	mg/L	0.0029	0.0026	0.0027	0.0026	0.0032	5	0.0032	0.0028	0.737	0.8706	0.0031	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	0.0010	<0.0010	<0.0010	<0.0010	5	0.0010	0.00060	0.025		0.0008	0
K-T	mg/L	0.188	0.164	0.160	0.170	0.197	5	0.197	0.176			0.193	0
S-T	mg/L	6.7	5.0	5.4	5.3	6.1	5	6.7	5.7			6.5	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	10.7	8.91	8.99	9.79	11.3	5	11.3	9.94			11.06	0
Sr-T	mg/L	0.0494	0.0402	0.0417	0.0430	0.0495	5	0.0495	0.0448			0.0495	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0088	0.0093	0.0112	0.0104	0.0108	5	0.0112	0.0101			0.011	0
As-D	mg/L	0.00012	0.00010	0.00012	0.00019	0.00014	5	0.00019	0.00013			0.00017	0
Ba-D	mg/L	0.0014	0.0013	0.0015	0.0013	0.0015	5	0.0015	0.0014			0.0015	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	10.1	10.1	9.52	10.0	10.3	5	10.3	10.00			10.22	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00045	0.00046	0.00085	0.00046	0.00046	5	0.00085	0.00054	*	*	0.00069	*
DOC	mg/L	2.0	1.7	1.8	1.9	2.2	5	2.2	1.9			2.1	0
Hard-D	mg/L	30.6	30.5	28.8	30.4	30.9	5	30.9	30.2			30.8	0
Fe-D	mg/L	0.0121	0.0121	0.0121	0.0116	0.0129	5	0.0129	0.0122		0.35	0.0126	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.28	1.29	1.22	1.31	1.27	5	1.31	1.27			1.3	0
Mn-D	mg/L	0.0013	0.0013	0.0013	<0.0010	0.0016	5	0.0016	0.00120			0.00148	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
K-D	mg/L	0.195	0.171	0.167	0.178	0.188	5	0.195	0.180			0.192	0
S-D	mg/L	6.5	5.5	6.1	5.3	6.8	5	6.8	6.0			6.7	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	10.8	10.0	9.90	10.1	10.9	5	10.9	10.34			10.86	0
Sr-D	mg/L	0.0500	0.0448	0.0463	0.0466	0.0499	5	0.0500	0.0475			0.05	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.028	<0.020	<0.020	<0.020	<0.020	5	0.028	0.0136			0.0208	0

Notes: *Calculated guideline. Refer to Exceedance Tables.

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

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E206618	Water Quality Guidelines											Count of results exceeding standard
StnName	Middle Quinsam Lake 9M												
StnCode	SQL9												
		12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	9-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	20	19	17	17	19	5	20	18.4	128		19.6	0
Turb	NTU	0.36	0.17	0.28	0.37	0.24	5	0.37	0.28			0.37	0
Alk-T	mg/L	34	33	33	33	32	5	34	33.0			33.6	0
Al-T	mg/L	0.0118	0.0110	0.0126	0.0120	0.0115	5	0.0126	0.0118	*		0.0124	0
As-T	mg/L	0.00012	<0.00010	0.00012	0.00014	0.00013	5	0.00014	0.000112	0.005		0.000136	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0014	0.0012	0.0013	0.0014	0.0013	5	0.0014	0.0013	1		0.0014	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	0.000030	<0.000010	5	0.000030	0.0000100			2.00E-05	0
Ca-T	mg/L	10.3	8.71	9.02	9.75	9.88	5	10.3	9.53			10.13	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0
Fe-T	mg/L	0.022	0.021	0.022	0.022	0.018	5	0.022	0.021		1	0.022	0
Hard-T	mg/L	30.9	26.4	27.4	29.8	30.0	5	30.9	28.9			30.5	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	1.28	1.12	1.18	1.31	1.28	5	1.31	1.23			1.3	0
Mn-T	mg/L	0.0029	0.0026	0.0028	0.0024	0.0021	5	0.0029	0.0026	0.737	0.8706	0.0029	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0031	5	0.0031	0.00182	0.007		0.00246	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.184	0.158	0.163	0.178	0.176	5	0.184	0.172			0.182	0
S-T	mg/L	6.5	5.3	4.9	5.3	5.4	5	6.5	5.5			6.1	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	10.5	8.81	9.21	9.99	9.85	5	10.5	9.67			10.3	0
Sr-T	mg/L	0.0483	0.0389	0.0427	0.0433	0.0442	5	0.0483	0.0435			0.0467	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0093	0.0095	0.0109	0.0087	0.0097	5	0.0109	0.0096			0.0104	0
As-D	mg/L	0.00013	0.00010	0.00011	0.00013	0.00013	5	0.00013	0.00012			0.00013	0
Ba-D	mg/L	0.0015	0.0013	0.0014	0.0013	0.0014	5	0.0015	0.0014			0.0015	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	10.5	9.92	9.61	9.95	10.0	5	10.5	10.00			10.3	0
Cl-D	mg/L	<1.0	<1.0	<1.0	1.1	<1.0	5	1.1	0.62	150	600	0.86	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00045	0.00046	0.00051	0.00045	0.00045	5	0.00051	0.00046	*	*	0.00049	*
DOC	mg/L	1.8	2.0	1.9	1.8	2.0	5	2.0	1.9			2	0
Hard-D	mg/L	31.6	29.9	29.0	30.0	30.2	5	31.6	30.1			31	0
Fe-D	mg/L	0.0137	0.0132	0.0121	0.0101	0.0092	5	0.0137	0.0117		0.35	0.0135	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.30	1.24	1.22	1.24	1.26	5	1.30	1.25			1.28	0
Mn-D	mg/L	0.0013	0.0013	0.0011	<0.0010	<0.0010	5	0.0013	0.00094			0.0013	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.191	0.170	0.166	0.178	0.172	5	0.191	0.175			0.186	0
S-D	mg/L	6.8	5.6	6.1	6.4	6.6	5	6.8	6.3			6.7	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	0.00011	<0.00010	5	0.00011	0.000062			8.60E-05	0
Na-D	mg/L	11.0	9.78	10.1	9.53	9.99	5	11.0	10.08			10.64	0
Sr-D	mg/L	0.0510	0.0441	0.0460	0.0463	0.0466	5	0.0510	0.0468			0.0492	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0
Notes: *Calculated guideline. Refer to Exceedance Tables.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E206618	Water Quality Guidelines											Count of results exceeding standard
StnName	Middle Quinsam Lake 1MB												
StnCode	MLB												
		12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	9-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	20	19	18	18	19	5	20	18.8	128		19.6	0
Turb	NTU	0.21	0.17	0.26	0.20	0.21	5	0.26	0.21			0.24	0
Alk-T	mg/L	33	33	33	32	32	5	33	32.6			33	0
Al-T	mg/L	0.0125	0.0101	0.0149	0.0121	0.0124	5	0.0149	0.0124	*		0.0139	0
As-T	mg/L	0.00012	<0.00010	0.00012	0.00014	0.00012	5	0.00014	0.000110	0.005		0.000132	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0015	0.0012	0.0014	0.0013	0.0014	5	0.0015	0.0014	1		0.0015	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	0.000034	<0.000010	5	0.000034	0.0000108			2.24E-05	0
Ca-T	mg/L	10.3	8.53	9.34	9.40	9.98	5	10.3	9.51			10.17	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00051	<0.00050	5	0.00051	0.000302			0.000406	0
Fe-T	mg/L	0.021	0.018	0.025	0.023	0.020	5	0.025	0.021		1	0.024	0
Hard-T	mg/L	31.1	25.7	28.5	28.5	30.1	5	31.1	28.8			30.7	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	1.33	1.08	1.26	1.23	1.27	5	1.33	1.23			1.31	0
Mn-T	mg/L	0.0029	0.0024	0.0028	0.0028	0.0025	5	0.0029	0.0027	0.737	0.8706	0.0029	0
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.189	0.158	0.171	0.164	0.174	5	0.189	0.171			0.183	0
S-T	mg/L	6.5	4.8	5.3	5.5	5.4	5	6.5	5.5			6.1	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	0.00012	<0.00010	5	0.00012	0.000064	0.002		9.20E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	10.8	8.59	9.59	9.52	9.97	5	10.8	9.69			10.47	0
Sr-T	mg/L	0.0495	0.0393	0.0437	0.0416	0.0433	5	0.0495	0.0435			0.0472	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0092	0.0093	0.0096	0.0085	0.0096	5	0.0096	0.0092			0.0096	0
As-D	mg/L	0.00011	0.00012	0.00011	0.00012	0.00012	5	0.00012	0.00012			0.00012	0
Ba-D	mg/L	0.0014	0.0015	0.0014	0.0013	0.0014	5	0.0015	0.0014			0.0015	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	10.5	9.71	9.73	10.0	10.2	5	10.5	10.03			10.38	0
Cl-D	mg/L	<1.0	<1.0	<1.0	1.0	<1.0	5	1.0	0.60	150	600	0.8	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00045	0.00047	0.00049	0.00053	0.00050	5	0.00053	0.00049	*	*	0.00052	*
DOC	mg/L	1.8	1.8	2.0	1.9	1.8	5	2.0	1.9			2	0
Hard-D	mg/L	31.7	29.5	29.5	30.2	30.7	5	31.7	30.3			31.3	0
Fe-D	mg/L	0.0119	0.0143	0.0107	0.0105	0.0090	5	0.0143	0.0113		0.35	0.0133	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.31	1.28	1.25	1.24	1.27	5	1.31	1.27			1.3	0
Mn-D	mg/L	0.0013	0.0014	<0.0010	<0.0010	<0.0010	5	0.0014	0.00084			0.00136	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.190	0.176	0.167	0.178	0.175	5	0.190	0.177			0.185	0
S-D	mg/L	7.0	4.8	6.5	6.6	7.0	5	7.0	6.2			6.8	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	0.00012	<0.00010	5	0.00012	0.000064			9.20E-05	0
Na-D	mg/L	10.9	10.1	10.1	9.60	9.93	5	10.9	10.13			10.58	0
Sr-D	mg/L	0.0504	0.0442	0.0467	0.0461	0.0476	5	0.0504	0.0470			0.0493	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0
Notes: *Calculated guideline. Refer to Exceedance Tables.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID		LLE Zone of Dilution 2						Water Quality Guidelines						Count of results exceeding standard
StnName	StnCode	LLEZ2						Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
		5-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23								
SO4-D	mg/L	46	57	56	26	25	5	57	42.0	128			56.6	0
Turb	NTU	0.31	0.38	0.32	0.40	0.24	5	0.40	0.33				0.39	0
Alk-T	mg/L	24	26	26	18	17	5	26	22.2				26	0
Al-T	mg/L	0.0232	0.0244	0.0275	0.0244	0.0284	5	0.0284	0.0256	*			0.028	0
As-T	mg/L	0.00035	0.00030	0.00037	0.00033	0.00036	5	0.00037	0.00034	0.005			0.00037	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2			0.025	0
Ba-T	mg/L	0.0046	0.0053	0.0052	0.0031	0.0032	5	0.0053	0.0043	1			0.0053	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050				5.00E-06	0
Ca-T	mg/L	19.0	22.3	21.1	11.6	11.8	5	22.3	17.2				21.8	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11		0.0001	0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250				0.00025	0
Fe-T	mg/L	0.057	0.061	0.071	0.049	0.051	5	0.071	0.058		1		0.067	0
Hard-T	mg/L	58.2	68.0	64.2	36.0	35.9	5	68.0	52.5				66.5	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176		0.0001	0
Mg-T	mg/L	2.60	3.00	2.83	1.68	1.56	5	3.00	2.33				2.93	0
Mn-T	mg/L	0.0077	0.0091	0.0087	0.0052	0.0046	5	0.0091	0.0071	0.737	0.8706		0.0089	0
P-T	mg/L	<0.0030	<0.0030	0.0038	0.0031	<0.0030	5	0.0038	0.00228	0.007			0.00352	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46		0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025			0.0005	0
K-T	mg/L	0.211	0.238	0.257	0.146	0.140	5	0.257	0.198				0.249	0
S-T	mg/L	14.9	17.7	16.6	8.6	7.4	5	17.7	13.0				17.3	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002			5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001		1.00E-05	0
Na-T	mg/L	5.32	6.17	6.08	3.37	3.20	5	6.17	4.83				6.13	0
Sr-T	mg/L	0.111	0.131	0.136	0.0638	0.0605	5	0.136	0.1005				0.134	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033		0.0025	0
Al-D	mg/L	0.0196	0.0182	0.0193	0.0214	0.0218	5	0.0218	0.0201				0.0216	0
As-D	mg/L	0.00032	0.00035	0.00033	0.00031	0.00034	5	0.00035	0.00033				0.00035	0
Ba-D	mg/L	0.0046	0.0058	0.0051	0.0032	0.0033	5	0.0058	0.0044				0.0055	0
B-D	mg/L	<0.050	0.057	<0.050	<0.050	<0.050	5	0.057	0.0314				0.0442	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017		5.00E-06	0
Ca-D	mg/L	19.4	25.1	21.5	11.9	11.8	5	25.1	17.9				23.7	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600		0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100				0.0001	0
Cu-D	mg/L	0.00034	0.00036	0.00035	0.00038	0.00036	5	0.00038	0.00036	*	*		0.00037	*
DOC	mg/L	3.5	3.5	3.5	3.2	3.2	5	3.5	3.4				3.5	0
Hard-D	mg/L	59.0	75.6	66.1	37.0	36.3	5	75.6	54.8				71.8	0
Fe-D	mg/L	0.0494	0.0409	0.0395	0.0334	0.0366	5	0.0494	0.0400		0.35		0.046	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100				0.0001	0
Mg-D	mg/L	2.57	3.15	2.99	1.77	1.68	5	3.15	2.43				3.09	0
Mn-D	mg/L	0.0069	0.0083	0.0074	0.0042	0.0037	5	0.0083	0.0061				0.0079	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100				1.00E-05	0
K-D	mg/L	0.213	0.257	0.258	0.146	0.144	5	0.258	0.204				0.258	0
S-D	mg/L	15.0	19.5	17.7	8.9	8.0	5	19.5	13.8				18.8	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050				5.00E-05	0
Na-D	mg/L	5.19	6.71	6.47	3.55	3.37	5	6.71	5.06				6.61	0
Sr-D	mg/L	0.112	0.144	0.133	0.0695	0.0652	5	0.144	0.1047				0.1396	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033		0.0025	0
N-NO23	mg/L	0.024	0.027	0.024	0.020	<0.020	5	0.027	0.0210				0.0258	0
Notes: *Calculated guideline. Refer to Exceedance Tables.														
Factor applied to less-than results when calculating statistics: 0.5														

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID		E292118							Water Quality Guidelines					Count of results exceeding standard
StnName		Lower Quinsam Lake 1M												
StnCode		LQL1												
		4-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile		
SO4-D	mg/L	17	15	15	12	11	5	17	14.0	128		16.2	0	
Turb	NTU	0.23	0.55	0.33	0.49	0.36	5	0.55	0.39			0.53	0	
Alk-T	mg/L	30	26	29	27	28	5	30	28.0			29.6	0	
Al-T	mg/L	0.0211	0.0386	0.0343	0.0355	0.0377	5	0.0386	0.0334	*		0.0382	0	
As-T	mg/L	0.00060	0.00055	0.00060	0.00057	0.00058	5	0.00060	0.00058	0.005		0.0006	0	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	
Ba-T	mg/L	0.0027	0.0029	0.0029	0.0029	0.0029	5	0.0029	0.0029	1		0.0029	0	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	
Ca-T	mg/L	9.54	9.43	9.56	8.77	9.43	5	9.56	9.35			9.55	0	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	
Cu-T	mg/L	0.00051	0.00054	0.00056	0.00061	0.00055	5	0.00061	0.00055			0.00059	0	
Fe-T	mg/L	0.070	0.092	0.085	0.069	0.065	5	0.092	0.076		1	0.089	0	
Hard-T	mg/L	29.2	28.4	29.0	26.5	27.8	5	29.2	28.2			29.1	0	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0	
Mg-T	mg/L	1.30	1.18	1.24	1.11	1.04	5	1.30	1.17			1.28	0	
Mn-T	mg/L	0.0053	0.0051	0.0044	0.0039	0.0037	5	0.0053	0.0045	0.737	0.8706	0.0052	0	
P-T	mg/L	0.0064	0.0030	0.0032	0.0033	<0.0030	5	0.0064	0.00348	0.007		0.00516	0	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	
K-T	mg/L	0.177	0.174	0.180	0.164	0.158	5	0.180	0.171			0.179	0	
S-T	mg/L	5.6	4.5	4.6	3.9	3.4	5	5.6	4.4			5.2	0	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	0.00010	<0.00010	5	0.00010	0.000060	0.002		8.00E-05	0	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	
Na-T	mg/L	7.74	6.89	6.83	5.46	5.06	5	7.74	6.40			7.4	0	
Sr-T	mg/L	0.0458	0.0432	0.0425	0.0394	0.0387	5	0.0458	0.0419			0.0448	0	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
Al-D	mg/L	0.0151	0.0241	0.0205	0.0258	0.0287	5	0.0287	0.0228			0.0275	0	
As-D	mg/L	0.00056	0.00055	0.00054	0.00052	0.00052	5	0.00056	0.00054			0.00056	0	
Ba-D	mg/L	0.0028	0.0029	0.0028	0.0029	0.0030	5	0.0030	0.0029			0.003	0	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	
Ca-D	mg/L	10.2	9.94	9.56	8.93	9.27	5	10.2	9.58			10.1	0	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Cu-D	mg/L	0.00046	0.00053	0.00052	0.00056	0.00057	5	0.00057	0.00053	*	*	0.00057	*	
DOC	mg/L	2.6	3.2	2.8	3.1	3.1	5	3.2	3.0			3.2	0	
Hard-D	mg/L	30.7	30.0	29.0	27.1	27.4	5	30.7	28.8			30.4	0	
Fe-D	mg/L	0.0423	0.0412	0.0403	0.0402	0.0357	5	0.0423	0.0399		0.35	0.0419	0	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Mg-D	mg/L	1.30	1.25	1.24	1.16	1.04	5	1.30	1.20			1.28	0	
Mn-D	mg/L	0.0031	0.0024	0.0017	0.0024	0.0018	5	0.0031	0.0023			0.0028	0	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0	
K-D	mg/L	0.177	0.175	0.172	0.164	0.160	5	0.177	0.170			0.176	0	
S-D	mg/L	5.9	5.4	4.1	4.5	3.6	5	5.9	4.7			5.7	0	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	5	0.00011	0.000062			8.60E-05	0	
Na-D	mg/L	7.94	7.04	6.81	5.76	5.08	5	7.94	6.53			7.58	0	
Sr-D	mg/L	0.0485	0.0441	0.0431	0.0418	0.0410	5	0.0485	0.0437			0.0467	0	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
N-NO23	mg/L	0.024	0.022	<0.020	0.049	<0.020	5	0.049	0.0230			0.039	0	
Chlr-a	ug/L					0.54	1	0.54	0.54			0.54	0	
Notes: *Calculated guideline. Refer to Exceedance Tables.														
Factor applied to less-than results when calculating statistics: 0.5														

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID		E292118						Water Quality Guidelines						Count of results exceeding standard
StnName		Lower Quinsam Lake 4M												
StnCode		LQL4												
		4-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile		
SO4-D	mg/L	17	15	15	13	11	5	17	14.2	128		16.2	0	
Turb	NTU	0.22	0.56	0.40	0.55	0.35	5	0.56	0.42			0.56	0	
Alk-T	mg/L	30	28	28	26	27	5	30	27.8			29.2	0	
Al-T	mg/L	0.0199	0.0374	0.0285	0.0367	0.0387	5	0.0387	0.0322	*		0.0382	0	
As-T	mg/L	0.00059	0.00055	0.00050	0.00058	0.00054	5	0.00059	0.00055	0.005		0.00059	0	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	
Ba-T	mg/L	0.0027	0.0028	0.0026	0.0029	0.0028	5	0.0029	0.0028	1		0.0029	0	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	
Ca-T	mg/L	9.42	9.19	8.48	8.70	14.9	5	14.9	10.14			12.71	0	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	
Cu-T	mg/L	<0.00050	0.00055	0.00054	0.00057	0.00054	5	0.00057	0.000490			0.000562	0	
Fe-T	mg/L	0.067	0.086	0.078	0.072	0.107	5	0.107	0.082		1	0.099	0	
Hard-T	mg/L	28.6	27.7	25.7	26.2	41.1	5	41.1	29.9			36.1	0	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0	
Mg-T	mg/L	1.24	1.15	1.09	1.09	0.969	5	1.24	1.108			1.204	0	
Mn-T	mg/L	0.0051	0.0049	0.0041	0.0041	0.0035	5	0.0051	0.0043	0.737	0.8706	0.005	0	
P-T	mg/L	0.0037	0.0033	0.0033	<0.0030	<0.0030	5	0.0037	0.00266	0.007		0.00354	0	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	
K-T	mg/L	0.169	0.168	0.164	0.162	0.151	5	0.169	0.163			0.169	0	
S-T	mg/L	5.1	4.4	4.1	3.7	3.1	5	5.1	4.1			4.8	0	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00015	5	0.00015	0.000070	0.002		0.00011	0	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	
Na-T	mg/L	7.57	6.71	6.17	5.44	4.77	5	7.57	6.13			7.23	0	
Sr-T	mg/L	0.0459	0.0417	0.0375	0.0394	0.0374	5	0.0459	0.0404			0.0442	0	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
Al-D	mg/L	0.0144	0.0234	0.0214	0.0262	0.0300	5	0.0300	0.0231			0.0285	0	
As-D	mg/L	0.00056	0.00054	0.00055	0.00054	0.00058	5	0.00058	0.00055			0.00057	0	
Ba-D	mg/L	0.0028	0.0028	0.0028	0.0030	0.0028	5	0.0030	0.0028			0.0029	0	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	
Ca-D	mg/L	10.1	9.92	9.59	8.94	9.29	5	10.1	9.57			10.03	0	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Cu-D	mg/L	0.00101	0.00056	0.00084	0.00055	0.00060	5	0.00101	0.00071	*	*	0.00094	*	
DOC	mg/L	2.4	3.2	3.0	3.0	3.6	5	3.6	3.0			3.4	0	
Hard-D	mg/L	30.6	29.9	29.1	27.1	27.7	5	30.6	28.9			30.3	0	
Fe-D	mg/L	0.0418	0.0405	0.0411	0.0376	0.0363	5	0.0418	0.0395		0.35	0.0415	0	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	
Mg-D	mg/L	1.27	1.25	1.25	1.17	1.09	5	1.27	1.21			1.26	0	
Mn-D	mg/L	0.0031	0.0025	0.0017	0.0018	0.0016	5	0.0031	0.0021			0.0029	0	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0	
K-D	mg/L	0.178	0.177	0.179	0.165	0.170	5	0.179	0.174			0.179	0	
S-D	mg/L	5.6	5.1	4.4	4.2	3.9	5	5.6	4.6			5.4	0	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	
Na-D	mg/L	7.88	7.10	6.74	5.88	5.26	5	7.88	6.57			7.57	0	
Sr-D	mg/L	0.0475	0.0439	0.0433	0.0431	0.0395	5	0.0475	0.0435			0.0461	0	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	
N-NO23	mg/L	0.023	0.025	<0.020	0.023	<0.020	5	0.025	0.0182			0.0242	0	
Notes: *Calculated guideline. Refer to Exceedance Tables.														
Factor applied to less-than results when calculating statistics: 0.5														

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E292118	Water Quality Guidelines											Count of results exceeding standard
StnName	Lower Quinsam Lake 9M												
StnCode	LQL9												
		4-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	17	14	15	13	13	5	17	14.4	128		16.2	0
Turb	NTU	0.26	0.62	0.33	0.49	0.37	5	0.62	0.41			0.57	0
Alk-T	mg/L	30	28	29	27	27	5	30	28.2			29.6	0
Al-T	mg/L	0.0201	0.0396	0.0315	0.0333	0.0364	5	0.0396	0.0322	*		0.0383	0
As-T	mg/L	0.00061	0.00056	0.00055	0.00056	0.00058	5	0.00061	0.00057	0.005		0.0006	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0026	0.0029	0.0028	0.0028	0.0030	5	0.0030	0.0028	1		0.003	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	9.40	9.48	8.94	8.32	9.64	5	9.64	9.16			9.58	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	0.00059	0.00056	0.00056	0.00052	5	0.00059	0.000496			0.000578	0
Fe-T	mg/L	0.068	0.091	0.097	0.070	0.097	5	0.097	0.080		1	0.095	0
Hard-T	mg/L	28.5	28.5	27.2	25.1	28.8	5	28.8	27.6			28.7	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	1.22	1.18	1.18	1.06	1.15	5	1.22	1.16			1.2	0
Mn-T	mg/L	0.0050	0.0050	0.0043	0.0040	0.0042	5	0.0050	0.0045	0.737	0.8706	0.005	0
P-T	mg/L	<0.0030	0.0034	<0.0030	<0.0030	<0.0030	5	0.0034	0.00188	0.007		0.00264	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0
K-T	mg/L	0.168	0.172	0.175	0.157	0.173	5	0.175	0.169			0.174	0
S-T	mg/L	5.2	4.3	4.1	3.9	4.0	5	5.2	4.3			4.8	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	7.64	6.80	6.53	5.46	6.11	5	7.64	6.51			7.3	0
Sr-T	mg/L	0.0452	0.0433	0.0398	0.0378	0.0416	5	0.0452	0.0415			0.0444	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0155	0.0237	0.0213	0.0247	0.0230	5	0.0247	0.0216			0.0243	0
As-D	mg/L	0.00056	0.00054	0.00054	0.00053	0.00053	5	0.00056	0.00054			0.00055	0
Ba-D	mg/L	0.0027	0.0028	0.0028	0.0029	0.0027	5	0.0029	0.0028			0.0029	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	10.3	9.98	9.59	8.93	9.42	5	10.3	9.64			10.17	0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00056	0.00054	0.00052	0.00056	0.00053	5	0.00056	0.00054	*	*	0.00056	*
DOC	mg/L	2.6	3.2	2.8	2.9	3.1	5	3.2	2.9			3.2	0
Hard-D	mg/L	31.0	30.2	29.2	27.1	28.5	5	31.0	29.2			30.7	0
Fe-D	mg/L	0.0446	0.0404	0.0407	0.0363	0.0358	5	0.0446	0.0396		0.35	0.043	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.28	1.27	1.28	1.17	1.20	5	1.28	1.24			1.28	0
Mn-D	mg/L	0.0031	0.0024	0.0016	0.0013	<0.0010	5	0.0031	0.00178			0.00282	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.180	0.176	0.180	0.166	0.175	5	0.180	0.175			0.18	0
S-D	mg/L	7.2	5.0	5.0	4.3	4.3	5	7.2	5.2			6.3	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	8.05	6.99	6.99	6.13	6.13	5	8.05	6.86			7.63	0
Sr-D	mg/L	0.0481	0.0436	0.0435	0.0432	0.0415	5	0.0481	0.0440			0.0463	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.022	0.021	<0.020	<0.020	<0.020	5	0.022	0.0146			0.0216	0

Notes: *Calculated guideline. Refer to Exceedance Tables.

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

Appendix 1 - Tables

Table 42 Spring Lakes 17 Page(s)

EMS ID	E292118	Water Quality Guidelines											Count of results exceeding standard
StnName	Lower Quinsam Lake 1MB												
StnCode	LQLB	4-Apr-23	12-Apr-23	19-Apr-23	25-Apr-23	2-May-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile	
SO4-D	mg/L	18	14	15	13	13	5	18	14.6	128		16.8	0
Turb	NTU	0.26	0.65	0.34	0.48	0.45	5	0.65	0.44			0.58	0
Alk-T	mg/L	31	28	29	27	27	5	31	28.4			30.2	0
Al-T	mg/L	0.0200	0.0434	0.0342	0.0386	0.0367	5	0.0434	0.0346	*		0.0415	0
As-T	mg/L	0.00064	0.00058	0.00061	0.00060	0.00061	5	0.00064	0.00061	0.005		0.00063	0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0
Ba-T	mg/L	0.0028	0.0030	0.0029	0.0030	0.0029	5	0.0030	0.0029	1		0.003	0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0
Ca-T	mg/L	9.49	9.66	9.50	8.77	9.47	5	9.66	9.38			9.6	0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0
Cu-T	mg/L	<0.00050	0.00058	0.00057	0.00060	0.00056	5	0.00060	0.000512			0.000592	0
Fe-T	mg/L	0.092	0.095	0.088	0.081	0.097	5	0.097	0.091		1	0.096	0
Hard-T	mg/L	28.9	29.1	28.9	26.4	28.3	5	29.1	28.3			29	0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.00400	0.0176	0.0001	0
Mg-T	mg/L	1.26	1.21	1.26	1.09	1.14	5	1.26	1.19			1.26	0
Mn-T	mg/L	0.0067	0.0052	0.0048	0.0046	0.0061	5	0.0067	0.0055	0.737	0.8706	0.0065	0
P-T	mg/L	<0.0030	<0.0030	0.0055	<0.0030	<0.0030	5	0.0055	0.00230	0.007		0.0039	0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0
Ni-T	mg/L	0.0016	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0016	0.00072	0.025		0.00116	0
K-T	mg/L	0.172	0.179	0.183	0.164	0.168	5	0.183	0.173			0.181	0
S-T	mg/L	5.3	4.7	4.3	3.9	3.9	5	5.3	4.4			5.1	0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0
Na-T	mg/L	7.80	7.04	6.83	5.65	6.04	5	7.80	6.67			7.5	0
Sr-T	mg/L	0.0448	0.0440	0.0407	0.0391	0.0421	5	0.0448	0.0421			0.0445	0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
Al-D	mg/L	0.0137	0.0250	0.0211	0.0259	0.0217	5	0.0259	0.0215			0.0255	0
As-D	mg/L	0.00060	0.00054	0.00056	0.00056	0.00054	5	0.00060	0.00056			0.00058	0
Ba-D	mg/L	0.0029	0.0029	0.0028	0.0030	0.0027	5	0.0030	0.0029			0.003	0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0
Ca-D	mg/L	10.3	9.83	9.51	8.96	9.12	5	10.3	9.54			10.11	0
Cl-D	mg/L	1.1	<1.0	<1.0	<1.0	<1.0	5	1.1	0.62	150	600	0.86	0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Cu-D	mg/L	0.00051	0.00054	0.00056	0.00057	0.00050	5	0.00057	0.00054	*	*	0.00057	*
DOC	mg/L	2.4	3.6	2.8	3.1	3.6	5	3.6	3.0			3.4	0
Hard-D	mg/L	30.9	29.7	28.7	27.2	27.8	5	30.9	28.9			30.4	0
Fe-D	mg/L	0.0492	0.0416	0.0427	0.0395	0.0468	5	0.0492	0.0440		0.35	0.0482	0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0
Mg-D	mg/L	1.29	1.24	1.20	1.18	1.22	5	1.29	1.23			1.27	0
Mn-D	mg/L	0.0049	0.0023	0.0019	0.0015	0.0021	5	0.0049	0.0025			0.0039	0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05	0
K-D	mg/L	0.180	0.176	0.177	0.171	0.167	5	0.180	0.174			0.179	0
S-D	mg/L	5.4	5.3	4.0	4.6	4.4	5	5.4	4.7			5.4	0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0
Na-D	mg/L	8.16	7.02	6.76	6.17	6.04	5	8.16	6.83			7.7	0
Sr-D	mg/L	0.0490	0.0441	0.0433	0.0428	0.0417	5	0.0490	0.0442			0.047	0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0
N-NO23	mg/L	0.024	0.021	<0.020	0.043	<0.020	5	0.043	0.0216			0.0354	0
Notes: *Calculated guideline. Refer to Exceedance Tables.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

StnName StnCode		Long Lake Middle 1 M LLM1								Water Quality Guidelines		
		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	41	44	44	47	47	5	47	44.6	128		47
Turb	NTU	0.17	0.23	0.31	0.18	0.27	5	0.31	0.23			0.29
Alk-T	mg/L	25	27	27	28	28	5	28	27.0			28
Al-T	mg/L	0.0120	0.0103	0.0103	0.0087	0.0085	5	0.0120	0.0100	*		0.0113
As-T	mg/L	0.00055	0.00056	0.00060	0.00060	0.00059	5	0.00060	0.00058	0.005		0.0006
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0041	0.0042	0.0042	0.0049	0.0045	5	0.0049	0.0044	1		0.0047
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001
Ca-T	mg/L	16.3	15.3	16.6	17.7	17.9	5	17.9	16.8			17.8
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.00025			0.00025
Fe-T	mg/L	0.037	0.031	0.028	0.027	0.025	5	0.037	0.030		1	0.035
Hard-T	mg/L	50.1	47.4	51.0	53.7	55.3	5	55.3	51.5			54.7
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	2.32	2.26	2.32	2.32	2.56	5	2.56	2.36			2.46
Mn-T	mg/L	0.0115	0.0074	0.0051	0.0050	0.0036	5	0.0115	0.0065	0.737	0.8706	0.0099
P-T	mg/L	<0.0030	0.0032	<0.0030	<0.0030	0.0063	5	0.0063	0.00280	0.007		0.00506
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.203	0.199	0.201	0.200	0.218	5	0.218	0.204			0.212
S-T	mg/L	12.1	11.9	13.0	12.5	14.5	5	14.5	12.8			13.9
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001	0.00005	0.0001	0.00001
Na-T	mg/L	4.65	4.30	4.84	4.75	5.05	5	5.05	4.72			4.97
Sr-T	mg/L	0.0942	0.0938	0.100	0.105	0.109	5	0.109	0.1004			0.1074
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0103	0.0111	0.0101	0.0094	0.0087	5	0.0111	0.0099			0.0108
As-D	mg/L	0.00062	0.00064	0.00059	0.00064	0.00065	5	0.00065	0.00063			0.00065
Ba-D	mg/L	0.0047	0.0048	0.0051	0.0050	0.0050	5	0.0051	0.0049			0.0051
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001
Ca-D	mg/L	18.6	18.4	19.3	20.0	21.3	5	21.3	19.5			20.8
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00039	0.00032	0.00031	0.00038	0.00034	5	0.00039	0.00035	*	*	0.00039
DOC	mg/L	3.3	3.6	3.2	3.5	3.7	5	3.7	3.5			3.7
Hard-D	mg/L	57.0	56.7	59.5	61.7	64.5	5	64.5	59.9			63.4
Fe-D	mg/L	0.0343	0.0307	0.0253	0.0296	0.0223	5	0.0343	0.0284		0.35	0.0329
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	2.54	2.63	2.74	2.85	2.78	5	2.85	2.71			2.82
Mn-D	mg/L	0.0088	0.0020	0.0021	0.0022	<0.0010	5	0.0088	0.00312			0.00616
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05
K-D	mg/L	0.219	0.232	0.255	0.253	0.245	5	0.255	0.241			0.254
S-D	mg/L	13.5	15.1	14.9	15.2	16.7	5	16.7	15.1			16.1
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	5.03	5.42	5.57	5.72	5.65	5	5.72	5.48			5.69
Sr-D	mg/L	0.107	0.111	0.122	0.119	0.121	5	0.122	0.116			0.122
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	0.028	<0.020	0.089	0.060	5	0.089	0.0394			0.0774
Chlr-a	ug/L			<1.1								<0.53

Notes: * P-T is a Water Quality Objective. **Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	E206619											
StnName	Long Lake Middle 4 M									Water Quality		
StnCode	LLM4									Guidelines		90th
		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Chronic	Acute	Percentile
SO4-D	mg/L	48	45	45	47	47	5	48	46.4	128		47.6
Turb	NTU	0.18	0.30	0.20	0.18	0.35	5	0.35	0.24			0.33
Alk-T	mg/L	26	25	27	27	27	5	27	26.4			27
Al-T	mg/L	0.0109	0.0112	0.0095	0.0086	0.0087	5	0.0112	0.0098	*		0.0111
As-T	mg/L	0.00054	0.00051	0.00059	0.00060	0.00061	5	0.00061	0.00057	0.005		0.00061
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0040	0.0039	0.0043	0.0054	0.0044	5	0.0054	0.0044	1		0.005
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001
Ca-T	mg/L	15.6	15.6	16.6	17.7	17.7	5	17.7	16.6			17.7
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.041	0.032	0.027	0.027	0.025	5	0.041	0.030		1	0.037
Hard-T	mg/L	48.2	48.0	50.8	53.7	54.2	5	54.2	51.0			54
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	2.21	2.18	2.29	2.31	2.45	5	2.45	2.29			2.39
Mn-T	mg/L	0.0114	0.0080	0.0050	0.0052	0.0036	5	0.0114	0.0066	0.737	0.8706	0.01
P-T	mg/L	0.0037	<0.0030	<0.0030	<0.0030	0.0033	5	0.0037	0.00230	0.007		0.00354
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.195	0.193	0.199	0.202	0.214	5	0.214	0.201			0.209
S-T	mg/L	11.6	12.3	12.8	12.6	14.0	5	14.0	12.7			13.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001
Na-T	mg/L	4.34	4.41	4.68	4.75	4.95	5	4.95	4.63			4.87
Sr-T	mg/L	0.0916	0.0917	0.101	0.102	0.106	5	0.106	0.0985			0.1044
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0128	0.0112	0.0096	0.0098	0.0083	5	0.0128	0.0103			0.0122
As-D	mg/L	0.00065	0.00065	0.00059	0.00063	0.00064	5	0.00065	0.00063			0.00065
Ba-D	mg/L	0.0047	0.0050	0.0050	0.0049	0.0050	5	0.0050	0.0049			0.005
B-D	mg/L	0.059	<0.050	<0.050	<0.050	<0.050	5	0.059	0.0318			0.0454
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001
Ca-D	mg/L	19.1	18.9	19.7	19.8	20.2	5	20.2	19.5			20
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00041	0.00031	0.00028	0.00035	0.00032	5	0.00041	0.00033	*	*	0.00039
DOC	mg/L	3.4	3.2	3.2	1.2	3.6	5	3.6	2.9			3.5
Hard-D	mg/L	57.8	58.4	60.4	61.3	62.1	5	62.1	60.0			61.8
Fe-D	mg/L	0.0395	0.0303	0.0248	0.0255	0.0225	5	0.0395	0.0285		0.35	0.0358
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	2.44	2.72	2.75	2.89	2.83	5	2.89	2.73			2.87
Mn-D	mg/L	0.0095	0.0027	0.0020	0.0025	<0.0010	5	0.0095	0.00344			0.00678
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001
K-D	mg/L	0.227	0.240	0.251	0.256	0.242	5	0.256	0.243			0.254
S-D	mg/L	13.6	16.2	13.6	15.0	15.7	5	16.2	14.8			16
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	4.94	5.65	5.44	5.71	5.70	5	5.71	5.49			5.71
Sr-D	mg/L	0.108	0.119	0.125	0.121	0.122	5	0.125	0.119			0.124
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Notes: * P-T is a Water Quality Objective. **Calculated guideline. See Exceedance Table.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	E206619											
StnName	Long Lake Middle 9 M											
StnCode	LLM9											
		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	95	45	64	70	94	5	95	73.6	128		94.6
Turb	NTU	0.42	0.18	0.23	0.17	0.29	5	0.42	0.26			0.37
Alk-T	mg/L	41	26	32	34	41	5	41	34.8			41
Al-T	mg/L	0.0068	0.0108	0.0089	0.0080	0.0070	5	0.0108	0.0083	*		0.01
As-T	mg/L	0.00023	0.00059	0.00044	0.00043	0.00024	5	0.00059	0.00039	0.005		0.00053
B-T	mg/L	0.072	<0.050	0.058	0.059	0.074	5	0.074	0.0576	1.2		0.0732
Ba-T	mg/L	0.0065	0.0042	0.0052	0.0059	0.0066	5	0.0066	0.0057	1		0.0066
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001
Ca-T	mg/L	33.5	16.8	23.6	27.7	33.8	5	33.8	27.1			33.7
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.016	0.035	0.023	0.023	0.016	5	0.035	0.023		1	0.03
Hard-T	mg/L	99.6	51.9	71.3	82.5	101	5	101	81.3			100.4
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	3.90	2.39	2.97	3.24	4.13	5	4.13	3.33			4.04
Mn-T	mg/L	0.0198	0.0087	0.0102	0.0125	0.0179	5	0.0198	0.0138	0.737	0.8706	0.019
P-T	mg/L	0.0040	0.0031	<0.0030	<0.0030	0.0062	5	0.0062	0.00326	0.007		0.00532
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.385	0.210	0.271	0.302	0.394	5	0.394	0.312			0.39
S-T	mg/L	27.9	12.8	20.1	21.4	30.5	5	30.5	22.5			29.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001
Na-T	mg/L	10.8	4.66	7.18	8.06	10.9	5	10.9	8.32			10.86
Sr-T	mg/L	0.244	0.101	0.171	0.191	0.259	5	0.259	0.193			0.253
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0057	0.0113	0.0076	0.0078	0.0058	5	0.0113	0.0076			0.0099
As-D	mg/L	0.00025	0.00065	0.00041	0.00043	0.00025	5	0.00065	0.00040			0.00056
Ba-D	mg/L	0.0073	0.0047	0.0061	0.0060	0.0072	5	0.0073	0.0063			0.0073
B-D	mg/L	0.090	<0.050	0.063	0.063	0.087	5	0.090	0.0656			0.0888
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001
Ca-D	mg/L	38.4	18.9	27.8	27.7	37.3	5	38.4	30.0			38
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00032	0.00029	0.00025	0.00032	0.00026	5	0.00032	0.00029	*	*	0.00032
DOC	mg/L	2.6	3.4	2.8	3.0	2.9	5	3.4	2.9			3.2
Hard-D	mg/L	114	57.8	84.0	83.9	112	5	114	90.3			113.2
Fe-D	mg/L	0.0136	0.0300	0.0187	0.0202	0.0120	5	0.0300	0.0189		0.35	0.0261
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	4.36	2.54	3.55	3.60	4.57	5	4.57	3.72			4.49
Mn-D	mg/L	0.0203	0.0024	0.0092	0.0096	0.0172	5	0.0203	0.0117			0.0191
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001
K-D	mg/L	0.430	0.230	0.344	0.350	0.438	5	0.438	0.358			0.435
S-D	mg/L	33.2	15.6	22.3	23.3	32.6	5	33.2	25.4			33
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	11.8	5.49	8.31	8.76	12.1	5	12.1	9.29			11.98
Sr-D	mg/L	0.279	0.113	0.193	0.182	0.278	5	0.279	0.209			0.279
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	0.082	<0.020	<0.020	<0.020	0.056	5	0.082	0.0336			0.0716

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

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Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID		E206619										
StnName		Long Lake Middle 1M From B										
StnCode		LLMB										
		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	92	100	84	100	77	5	100	90.6	128		100
Turb	NTU	0.14	0.42	0.30	0.72	0.56	5	0.72	0.43			0.66
Alk-T	mg/L	40	42	37	42	36	5	42	39.4			42
Al-T	mg/L	0.0063	0.0066	0.0073	0.0060	0.0069	5	0.0073	0.0066	*		0.0071
As-T	mg/L	0.00030	0.00032	0.00032	0.00039	0.00043	5	0.00043	0.00035	0.005		0.00041
B-T	mg/L	0.074	0.073	0.083	0.074	0.065	5	0.083	0.074	1.2		0.079
Ba-T	mg/L	0.0089	0.0092	0.0067	0.0113	0.0073	5	0.0113	0.0087	1		0.0105
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000050			0.00001
Ca-T	mg/L	33.7	33.7	29.6	35.1	28.2	5	35.1	32.1			34.5
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.046	0.062	0.025	0.112	0.047	5	0.112	0.058		1	0.092
Hard-T	mg/L	101	101	88.8	104	84.5	5	104	95.9			102.8
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	3.96	4.02	3.65	3.94	3.45	5	4.02	3.80			4
Mn-T	mg/L	0.171	0.247	0.0771	0.461	0.163	5	0.461	0.2238	0.737	0.8706	0.3754
P-T	mg/L	<0.0030	0.0056	<0.0030	0.0036	0.0057	5	0.0057	0.00358	0.007		0.00566
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.403	0.409	0.345	0.400	0.329	5	0.409	0.377			0.407
S-T	mg/L	29.2	30.7	26.8	29.2	24.2	5	30.7	28.0			30.1
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001
Na-T	mg/L	10.9	11.4	9.66	11.1	8.90	5	11.4	10.39			11.28
Sr-T	mg/L	0.249	0.248	0.233	0.270	0.206	5	0.270	0.241			0.262
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0043	0.0042	0.0063	0.0047	0.0052	5	0.0063	0.0049			0.0059
As-D	mg/L	0.00026	0.00028	0.00030	0.00028	0.00039	5	0.00039	0.00030			0.00035
Ba-D	mg/L	0.0099	0.0103	0.0079	0.0123	0.0084	5	0.0123	0.0098			0.0115
B-D	mg/L	0.092	0.091	0.079	0.086	0.076	5	0.092	0.085			0.092
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000050	0.000087	0.00017	0.00001
Ca-D	mg/L	39.3	39.0	35.4	37.1	32.4	5	39.3	36.6			39.2
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00032	0.00026	0.00024	0.00031	0.00029	5	0.00032	0.00028	*	*	0.00032
DOC	mg/L	3.0	2.4	2.5	2.4	3.2	5	3.2	2.7			3.1
Hard-D	mg/L	117	116	106	111	97.7	5	117	109.5			116.6
Fe-D	mg/L	0.0149	0.0179	0.0136	0.0345	0.0221	5	0.0345	0.0206		0.35	0.0295
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	4.46	4.44	4.29	4.57	4.06	5	4.57	4.36			4.53
Mn-D	mg/L	0.187	0.253	0.0839	0.476	0.192	5	0.476	0.2384			0.3868
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001
K-D	mg/L	0.446	0.444	0.425	0.476	0.389	5	0.476	0.436			0.464
S-D	mg/L	33.5	35.4	29.1	34.1	26.6	5	35.4	31.7			34.9
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	12.2	12.5	11.0	12.5	10.2	5	12.5	11.7			12.5
Sr-D	mg/L	0.301	0.273	0.266	0.291	0.230	5	0.301	0.272			0.297
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	0.083	0.086	0.767	0.087	0.051	5	0.767	0.215			0.495

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 1M											
StnCode	MQL1											
		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th Percentile
										Chronic	Acute	
SO4-D	mg/L	12	11	9.5	8.2	7.6	5	12	9.7	128		11.6
Turb	NTU	0.30	0.30	0.40	0.35	0.34	5	0.40	0.34			0.38
Alk-T	mg/L	34	33	32	32	30	5	34	32.2			33.6
Al-T	mg/L	0.0135	0.0141	0.0138	0.0127	0.0129	5	0.0141	0.0134	*		0.014
As-T	mg/L	0.00015	0.00015	0.00018	0.00019	0.00017	5	0.00019	0.00017	0.005		0.00019
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1		0.0005
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001
Ca-T	mg/L	8.45	8.21	8.14	8.35	8.21	5	8.45	8.27			8.41
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.034	0.034	0.036	0.036	0.031	5	0.036	0.034		1	0.036
Hard-T	mg/L	25.3	24.6	24.5	24.8	24.5	5	25.3	24.7			25.1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	1.01	0.996	1.01	0.954	0.962	5	1.01	0.986			1.01
Mn-T	mg/L	0.0070	0.0073	0.0089	0.0093	0.0069	5	0.0093	0.0079	0.737	0.8706	0.0091
P-T	mg/L	<0.0030	<0.0030	0.0034	<0.0030	0.0065	5	0.0065	0.00288	0.006		0.00526
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.129	0.121	0.113	0.106	0.109	5	0.129	0.116			0.126
S-T	mg/L	3.1	3.5	<3.0	<3.0	<3.0	5	3.5	2.22			3.34
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001
Na-T	mg/L	7.45	6.61	6.12	5.61	5.05	5	7.45	6.17			7.11
Sr-T	mg/L	0.0338	0.0307	0.0315	0.0301	0.0287	5	0.0338	0.0310			0.0329
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0123	0.0122	0.0131	0.0125	0.0120	5	0.0131	0.0124			0.0129
As-D	mg/L	0.00017	0.00016	0.00012	0.00015	0.00017	5	0.00017	0.00015			0.00017
Ba-D	mg/L	0.0010	<0.0010	0.0012	<0.0010	<0.0010	5	0.0012	0.00074			0.00112
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001
Ca-D	mg/L	9.46	8.89	9.29	8.92	9.09	5	9.46	9.13			9.39
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00050	0.00046	0.00044	0.00049	0.00046	5	0.00050	0.00047	*	*	0.0005
DOC	mg/L	2.1	2.3	2.2	2.3	2.3	5	2.3	2.2			2.3
Hard-D	mg/L	28.2	26.6	27.8	26.7	27.0	5	28.2	27.3			28
Fe-D	mg/L	0.0198	0.0193	0.0212	0.0210	0.0192	5	0.0212	0.0201		0.35	0.0211
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	1.11	1.07	1.11	1.08	1.05	5	1.11	1.08			1.11
Mn-D	mg/L	0.0012	0.0011	<0.0010	0.0010	<0.0010	5	0.0012	0.00086			0.00116
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001
K-D	mg/L	0.136	0.133	0.134	0.133	0.114	5	0.136	0.130			0.135
S-D	mg/L	4.1	3.1	<3.0	3.3	<3.0	5	4.1	2.70			3.78
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	8.14	7.48	6.79	6.18	5.52	5	8.14	6.82			7.88
Sr-D	mg/L	0.0369	0.0335	0.0359	0.0320	0.0309	5	0.0369	0.0338			0.0365
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Chlr-a	ug/L		<0.53									

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 4M											
StnCode	MQL4											
		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Chronic	Acute	Percentile
SO4-D	mg/L	12	11	9.4	8.1	7.6	5	12	9.6	128		11.6
Turb	NTU	0.35	0.31	0.52	0.30	0.33	5	0.52	0.36			0.45
Alk-T	mg/L	35	32	31	31	30	5	35	31.8			33.8
Al-T	mg/L	0.0139	0.0145	0.0135	0.0127	0.0144	5	0.0145	0.0138	*		0.0145
As-T	mg/L	0.00017	0.00017	0.00017	0.00019	0.00018	5	0.00019	0.00018	0.005		0.00019
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1		0.0005
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001
Ca-T	mg/L	8.64	8.34	8.23	7.79	7.66	5	8.64	8.13			8.52
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.035	0.034	0.036	0.035	0.029	5	0.036	0.034		1	0.036
Hard-T	mg/L	25.9	25.2	24.6	23.2	22.9	5	25.9	24.4			25.6
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	1.06	1.06	0.983	0.903	0.912	5	1.06	0.984			1.06
Mn-T	mg/L	0.0075	0.0081	0.0088	0.0090	0.0068	5	0.0090	0.0080	0.737	0.8706	0.0089
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0034	5	0.0034	0.00188	0.006		0.00264
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.137	0.129	0.110	0.104	0.106	5	0.137	0.117			0.134
S-T	mg/L	3.1	3.7	3.0	<3.0	<3.0	5	3.7	2.56			3.46
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001
Na-T	mg/L	7.58	7.30	5.89	5.26	4.88	5	7.58	6.18			7.47
Sr-T	mg/L	0.0359	0.0327	0.0311	0.0290	0.0275	5	0.0359	0.0312			0.0346
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0159	0.0124	0.0138	0.0131	0.0130	5	0.0159	0.0136			0.0151
As-D	mg/L	0.00017	0.00016	0.00013	0.00015	0.00017	5	0.00017	0.00016			0.00017
Ba-D	mg/L	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0010	0.00060			0.0008
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001
Ca-D	mg/L	9.49	8.61	9.14	8.97	9.19	5	9.49	9.08			9.37
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00053	0.00045	0.00042	0.00058	0.00050	5	0.00058	0.00050	*	*	0.00056
DOC	mg/L	2.2	2.1	2.5	2.3	2.3	5	2.5	2.3			2.5
Hard-D	mg/L	28.3	25.8	27.2	26.9	27.6	5	28.3	27.2			28
Fe-D	mg/L	0.0210	0.0196	0.0212	0.0211	0.0186	5	0.0212	0.0203		0.35	0.0212
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	1.11	1.04	1.07	1.08	1.12	5	1.12	1.08			1.12
Mn-D	mg/L	0.0010	0.0011	<0.0010	<0.0010	<0.0010	5	0.0011	0.00072			0.00106
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001
K-D	mg/L	0.136	0.131	0.131	0.132	0.126	5	0.136	0.131			0.134
S-D	mg/L	3.9	3.4	3.3	<3.0	<3.0	5	3.9	2.72			3.7
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	8.24	7.13	6.64	6.12	5.94	5	8.24	6.81			7.8
Sr-D	mg/L	0.0384	0.0332	0.0361	0.0336	0.0332	5	0.0384	0.0349			0.0375
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 9M											
StnCode	MLQ9											
		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Chronic	Acute	Percentile
SO4-D	mg/L	17	18	17	17	18	5	18	17.4	128		18
Turb	NTU	0.26	0.32	0.35	0.30	0.46	5	0.46	0.34			0.42
Alk-T	mg/L	<1.0	32	34	34	34	5	34	26.90			34
Al-T	mg/L	0.0093	0.0100	0.0103	0.0156	0.0083	5	0.0156	0.0107	*		0.0135
As-T	mg/L	0.00014	0.00013	0.00015	0.00015	0.00014	5	0.00015	0.00014	0.005		0.00015
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0010	0.0010	0.0011	0.0012	0.0011	5	0.0012	0.0011	1		0.0012
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001
Ca-T	mg/L	9.09	8.61	9.15	9.41	8.57	5	9.41	8.97			9.31
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00057	<0.00050	5	0.00057	0.000314			0.000442
Fe-T	mg/L	0.019	0.023	0.023	0.022	0.020	5	0.023	0.021		1	0.023
Hard-T	mg/L	27.5	26.0	27.6	28.2	25.9	5	28.2	27.0			28
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	1.16	1.08	1.15	1.13	1.10	5	1.16	1.12			1.16
Mn-T	mg/L	0.0047	0.0061	0.0072	0.0073	0.0070	5	0.0073	0.0065	0.737	0.8706	0.0073
P-T	mg/L	<0.0030	0.0031	<0.0030	<0.0030	0.0053	5	0.0053	0.00258	0.006		0.00442
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.138	0.120	0.127	0.119	0.118	5	0.138	0.124			0.134
S-T	mg/L	5.1	5.0	5.6	5.6	5.5	5	5.6	5.4			5.6
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001
Na-T	mg/L	9.33	8.25	9.11	9.52	8.99	5	9.52	9.04			9.44
Sr-T	mg/L	0.0419	0.0369	0.0426	0.0445	0.0421	5	0.0445	0.0416			0.0437
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0083	0.0085	0.0086	0.0078	0.0069	5	0.0086	0.0080			0.0086
As-D	mg/L	0.00014	0.00014	<0.00010	0.00011	0.00014	5	0.00014	0.000116			0.00014
Ba-D	mg/L	0.0014	0.0010	0.0012	0.0012	0.0012	5	0.0014	0.0012			0.0013
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001
Ca-D	mg/L	10.1	9.19	10.1	10.2	10.7	5	10.7	10.06			10.5
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00048	0.00044	0.00043	0.00050	0.00048	5	0.00050	0.00047	*	*	0.00049
DOC	mg/L	2.0	2.3	2.0	2.3	2.3	5	2.3	2.2			2.3
Hard-D	mg/L	30.1	27.9	30.3	30.9	32.1	5	32.1	30.3			31.6
Fe-D	mg/L	0.0074	0.0081	0.0069	0.0074	<0.0050	5	0.0081	0.00646		0.35	0.00782
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	1.21	1.20	1.25	1.29	1.32	5	1.32	1.25			1.31
Mn-D	mg/L	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	5	0.0013	0.00066			0.00098
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001
K-D	mg/L	0.134	0.131	0.147	0.142	0.132	5	0.147	0.137			0.145
S-D	mg/L	5.6	6.0	5.6	5.9	6.4	5	6.4	5.9			6.2
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	9.98	9.37	10.1	10.4	10.7	5	10.7	10.11			10.58
Sr-D	mg/L	0.0456	0.0413	0.0489	0.0479	0.0488	5	0.0489	0.0465			0.0489
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618												
StnName	Middle Quinsam Lake 1MB									Water Quality			
StnCode	MLB										Guidelines		90th
		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Chronic	Acute	Percentile	
SO4-D	mg/L	17	19	14	18	15	5	19	16.6	128		18.6	
Turb	NTU	0.21	0.18	0.38	0.21	0.44	5	0.44	0.28			0.42	
Alk-T	mg/L	34	34	32	33	33	5	34	33.2			34	
Al-T	mg/L	0.0071	0.0071	0.0106	0.0057	0.0101	5	0.0106	0.0081	*		0.0104	
As-T	mg/L	<0.00010	<0.00010	0.00014	0.00011	0.00015	5	0.00015	0.000100	0.005		0.000146	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Ba-T	mg/L	<0.0010	0.0013	0.0011	0.0016	0.0011	5	0.0016	0.00112	1		0.00148	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	
Ca-T	mg/L	8.71	8.63	8.58	9.63	8.21	5	9.63	8.75			9.26	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	
Fe-T	mg/L	0.013	0.016	0.024	0.018	0.025	5	0.025	0.019		1	0.025	
Hard-T	mg/L	26.4	26.6	26.0	29.3	24.8	5	29.3	26.6			28.2	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001	
Mg-T	mg/L	1.14	1.23	1.11	1.27	1.05	5	1.27	1.16			1.25	
Mn-T	mg/L	0.0034	0.0045	0.0071	0.0063	0.0082	5	0.0082	0.0059	0.737	0.8706	0.0078	
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0050	0.0045	5	0.0050	0.00280	0.006		0.0048	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.140	0.151	0.129	0.154	0.127	5	0.154	0.140			0.153	
S-T	mg/L	4.6	5.8	4.7	5.4	4.4	5	5.8	5.0			5.6	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	
Na-T	mg/L	9.12	9.40	7.94	9.96	7.61	5	9.96	8.81			9.74	
Sr-T	mg/L	0.0415	0.0399	0.0387	0.0463	0.0368	5	0.0463	0.0406			0.0444	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0126	0.0053	0.0103	0.0047	0.0080	5	0.0126	0.0082			0.0117	
As-D	mg/L	0.00012	0.00012	<0.00010	<0.00010	0.00015	5	0.00015	0.000098			0.000138	
Ba-D	mg/L	0.0013	0.0013	0.0012	0.0017	0.0011	5	0.0017	0.0013			0.0015	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.000005	
Ca-D	mg/L	10.1	9.55	9.66	10.1	9.76	5	10.1	9.83			10.1	
Cl-D	mg/L	1.0	<1.0	<1.0	1.2	<1.0	5	1.2	0.74	150	600	1.12	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00089	0.00041	0.00043	0.00046	0.00048	5	0.00089	0.00053	*	*	0.00073	
DOC	mg/L	2.1	2.2	2.3	2.0	2.7	5	2.7	2.3			2.5	
Hard-D	mg/L	30.6	29.3	29.2	30.8	29.3	5	30.8	29.8			30.7	
Fe-D	mg/L	0.0092	0.0075	0.0137	0.0082	0.0105	5	0.0137	0.0098		0.35	0.0124	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.29	1.31	1.23	1.37	1.20	5	1.37	1.28			1.35	
Mn-D	mg/L	0.0022	0.0027	0.0011	0.0029	0.0015	5	0.0029	0.0021			0.0028	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	
K-D	mg/L	0.155	0.155	0.159	0.183	0.140	5	0.183	0.158			0.173	
S-D	mg/L	6.4	6.7	4.4	5.8	5.0	5	6.7	5.7			6.6	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	
Na-D	mg/L	10.3	10.1	8.74	10.9	8.74	5	10.9	9.76			10.66	
Sr-D	mg/L	0.0466	0.0431	0.0440	0.0495	0.0414	5	0.0495	0.0449			0.0483	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

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Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	LLE Zone of Dilution 2									Water Quality		
StnName	LLEZ2									Guidelines		90th
StnCode		12-Jul-23	18-Jul-23	26-Jul-23	1-Aug-23	9-Aug-23	Count	Max	5 in 30 Ave	Chronic	Acute	Percentile
SO4-D	mg/L	40	44	44	46	47	5	47	44.2	128		46.6
Turb	NTU	0.45	0.22	0.2	0.19	0.28	5	0.45	0.27			0.38
Alk-T	mg/L	25	27	27	28	28	5	28	27			28
Al-T	mg/L	0.013	0.0104	0.0101	0.0085	0.0094	5	0.013	0.0103	*		0.012
As-T	mg/L	0.00042	0.00058	0.00062	0.00062	0.00064	5	0.00064	0.00058	0.005		0.00063
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0044	0.0043	0.0044	0.0044	0.0048	5	0.0048	0.0045	1		0.0046
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.000005
Ca-T	mg/L	18.2	15.9	17.6	17.8	19	5	19	17.7			18.7
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.033	0.033	0.024	0.027	0.031	5	0.033	0.03		1	0.033
Hard-T	mg/L	56	49.5	54.1	54.1	58.3	5	58.3	54.4			57.4
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	2.53	2.36	2.43	2.32	2.67	5	2.67	2.46			2.61
Mn-T	mg/L	0.0103	0.0083	0.0027	0.0053	0.0058	5	0.0103	0.0065	0.737	0.8706	0.0095
P-T	mg/L	0.0055	0.0031	<0.0030	<0.0030	0.0047	5	0.0055	0.00326	0.007		0.00518
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005000	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.223	0.2	0.213	0.202	0.232	5	0.232	0.21400			0.228
S-T	mg/L	14.2	12.2	13.9	12.8	14.800	5	14.8	13.6			14.6
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00005	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.000010	0.00005	0.0001	0.00001
Na-T	mg/L	5.57	4.41	5.02	4.86	5.34	5	5.57	5.0400000			5.48
Sr-T	mg/L	0.104	0.0959	0.105	0.103	0.11	5	0.113	0.1042			0.1098
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.0075	0.033	0.0025
Al-D	mg/L	0.0109	0.0112	0.0099	0.0087	0.0083	5	0.0112	0.00980			0.0111
As-D	mg/L	0.0005	0.00066	0.00062	0.00064	0.00065	5	0.00066	0.00061			0.00066
Ba-D	mg/L	0.0051	0.0047	0.0051	0.0049	0.0049	5	0.0051	0.0049			0.0051
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.025			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000005	0.000087	0.00017	0.000005
Ca-D	mg/L	20.8	19.2	19.8	19.5	19.8	5	20.8	19.80			20.40
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.5	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.00010			0.0001
Cu-D	mg/L	0.00038	0.00031	0.00028	0.00035	0.00031	5	0.00038	0.000330	*	*	0.00037
DOC	mg/L	3.10	3.20	3.00	3.00	3.40	5	3.4	3.1			3.3
Hard-D	mg/L	63.1	58.4	60.3	60.1	61.4	5	63.1	60.7			62.4
Fe-D	mg/L	0.0298	0.0322	0.0307	0.0249	0.0240	5	0.0322	0.0283		0.35	0.0316
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001			0.0001
Mg-D	mg/L	2.71	2.55	2.65	2.78	2.92	5	2.92	2.72			2.86
Mn-D	mg/L	0.008	0.0021	0.0051	0.0027	0.0014	5	0.008	0.0039			0.0068
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001			0.00001
K-D	mg/L	0.238	0.225	0.253	0.244	0.248	5	0.253	0.242			0.251
S-D	mg/L	15.9	15.1	14.4	15.5	15.5	5	15.9	15.3			15.7
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	5.65	5.32	5.39	5.66	5.7	5	5.7	5.54			5.68
Sr-D	mg/L	0.12	0.111	0.124	0.117	0.122	5	0.124	0.119			0.123
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

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

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

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

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 1M											
StnCode	MQL1											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Water Quality Guidelines		
										Chronic	Acute	90th Percentile
SO4-D	mg/L	8.4	7.6	7.4	7.6	8.0	5	8.4	7.8	128		8.2
Turb	NTU	0.25	0.29	0.41	0.28	0.32	5	0.41	0.31			0.37
Alk-T	mg/L	32	31	30	30	27	5	32	30.0			31.6
Al-T	mg/L	0.0076	0.0065	0.0083	0.0068	0.0081	5	0.0083	0.0075	*		0.0082
As-T	mg/L	0.00015	0.00014	0.00019	0.00013	0.00015	5	0.00019	0.00015	0.005		0.00017
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0010	<0.0010	0.0013	0.0011	0.0013	5	0.0013	0.00104	1		0.0013
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	7.80	7.17	8.96	7.47	8.12	5	8.96	7.90			8.62
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00064	<0.00050	<0.00050	<0.00050	<0.00050	5	0.00064	0.000328			0.000484
Fe-T	mg/L	0.028	0.025	0.037	0.030	0.034	5	0.037	0.031		1	0.036
Hard-T	mg/L	23.3	21.3	26.9	22.3	24.2	5	26.9	23.6			25.8
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	0.937	0.829	1.10	0.879	0.950	5	1.10	0.939			1.04
Mn-T	mg/L	0.0060	0.0091	0.0137	0.0087	0.0102	5	0.0137	0.0095	0.737	0.8706	0.0123
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.006		0.0015
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.119	0.105	0.138	0.102	0.128	5	0.138	0.118			0.134
S-T	mg/L	3.4	<3.0	<3.0	<3.0	<3.0	5	3.4	1.88			2.64
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	5.94	5.07	6.35	5.02	5.52	5	6.35	5.58			6.19
Sr-T	mg/L	0.0267	0.0231	0.0298	0.0242	0.0273	5	0.0298	0.0262			0.0288
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0061	0.0052	0.0052	0.0043	0.0048	5	0.0061	0.0051			0.0057
As-D	mg/L	0.00016	0.00015	0.00011	0.00016	0.00016	5	0.00016	0.00015			0.00016
Ba-D	mg/L	0.0011	0.0012	0.0013	0.0012	0.0013	5	0.0013	0.0012			0.0013
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06
Ca-D	mg/L	9.04	8.86	8.98	8.55	8.52	5	9.04	8.79			9.02
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00045	0.00043	0.00040	0.00043	0.00049	5	0.00049	0.00044	*	*	0.00047
DOC	mg/L	2.3	1.9	2.3	1.9	2.4	5	2.4	2.2			2.4
Hard-D	mg/L	27.0	26.5	26.7	25.5	25.5	5	27.0	26.2			26.9
Fe-D	mg/L	0.0190	0.0168	0.0176	0.0168	0.0148	5	0.0190	0.0170		0.35	0.0184
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	1.07	1.08	1.04	1.01	1.02	5	1.08	1.04			1.08
Mn-D	mg/L	<0.0010	0.0028	0.0028	0.0016	0.0032	5	0.0032	0.00218			0.00304
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05
K-D	mg/L	0.138	0.127	0.145	0.125	0.136	5	0.145	0.134			0.142
S-D	mg/L	<3.0	<3.0	3.7	<3.0	<3.0	5	3.7	1.94			2.82
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05
Na-D	mg/L	6.70	6.21	6.03	5.72	5.96	5	6.70	6.12			6.5
Sr-D	mg/L	0.0302	0.0278	0.0294	0.0261	0.0294	5	0.0302	0.0286			0.0299
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Chlr-a	ug/L	0.86					1	0.86	0.86			0.86

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618											
StnName	Middle Quinsam Lake 4M											
StnCode	MQL4											
		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Water Quality Guidelines		
										Chronic	Acute	90th Percentile
SO4-D	mg/L	8.5	7.5	7.4	8.3	8.0	5	8.5	7.9	128		8.4
Turb	NTU	0.29	0.37	0.40	0.32	0.44	5	0.44	0.36			0.42
Alk-T	mg/L	31	31	31	31	29	5	31	30.6			31
Al-T	mg/L	0.0082	0.0078	0.0081	0.0066	0.0073	5	0.0082	0.0076	*		0.0082
As-T	mg/L	0.00016	0.00015	0.00019	0.00015	0.00014	5	0.00019	0.00016	0.005		0.00018
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Ba-T	mg/L	0.0011	0.0011	0.0013	0.0012	0.0013	5	0.0013	0.0012	1		0.0013
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	8.24	8.32	8.65	8.07	7.85	5	8.65	8.23			8.52
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Fe-T	mg/L	0.029	0.031	0.035	0.033	0.038	5	0.038	0.033		1	0.037
Hard-T	mg/L	24.7	24.8	25.9	24.0	23.4	5	25.9	24.6			25.5
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	0.994	0.968	1.04	0.931	0.922	5	1.04	0.971			1.022
Mn-T	mg/L	0.0064	0.0106	0.0132	0.0092	0.0104	5	0.0132	0.0100	0.737	0.8706	0.0122
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.006		0.0015
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.121	0.128	0.135	0.110	0.124	5	0.135	0.124			0.132
S-T	mg/L	<3.0	<3.0	3.0	<3.0	<3.0	5	3.0	1.80			2.4
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	6.33	5.88	6.06	5.33	5.35	5	6.33	5.79			6.22
Sr-T	mg/L	0.0281	0.0267	0.0287	0.0259	0.0264	5	0.0287	0.0272			0.0285
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0066	0.0055	0.0051	0.0042	0.0048	5	0.0066	0.0052			0.0062
As-D	mg/L	0.00017	0.00014	0.00012	0.00017	0.00015	5	0.00017	0.00015			0.00017
Ba-D	mg/L	0.0011	0.0011	0.0012	0.0012	0.0013	5	0.0013	0.0012			0.0013
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06
Ca-D	mg/L	8.98	8.66	8.83	8.30	8.59	5	8.98	8.67			8.92
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00044	0.00042	0.00041	0.00041	0.00041	5	0.00044	0.00042	*	*	0.00043
DOC	mg/L	2.2	2.2	2.0	1.9	2.7	5	2.7	2.2			2.5
Hard-D	mg/L	26.9	26.0	26.3	24.8	25.6	5	26.9	25.9			26.7
Fe-D	mg/L	0.0192	0.0176	0.0164	0.0136	0.0161	5	0.0192	0.0166		0.35	0.0186
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	1.09	1.07	1.04	0.994	1.01	5	1.09	1.041			1.082
Mn-D	mg/L	<0.0010	0.0021	0.0023	0.0014	0.0031	5	0.0031	0.00188			0.00278
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05
K-D	mg/L	0.142	0.122	0.136	0.125	0.137	5	0.142	0.132			0.14
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	3.1	5	3.1	1.82			2.46
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05
Na-D	mg/L	6.74	6.09	5.90	5.61	5.93	5	6.74	6.05			6.48
Sr-D	mg/L	0.0302	0.0274	0.0295	0.0257	0.0293	5	0.0302	0.0284			0.0299
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01
Notes: *Calculated guideline. See Exceedance Table.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 43 Summer and Fall Lakes 18 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.

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

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Table 43 Summer and Fall Lakes 18 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

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Table 43 Summer and Fall Lakes 18 Page(s)

EMS ID	LLE Zone of Dilution 2									Water Quality		
StnName	LLEZ2									Guidelines		
StnCode		4-Oct-23	11-Oct-23	17-Oct-23	23-Oct-23	30-Oct-23	Count	Max	5 in 30 Ave	Chronic	Acute	90th Percentile
SO4-D	mg/L	62	67	74	76	80	5	80	71.8	128		78.4
Turb	NTU	0.23	0.39	0.29	0.28	0.35	5	0.39	0.31			0.37
Alk-T	mg/L	31	34	33	31	30	5	34	31.8			33.6
Al-T	mg/L	0.0062	0.0078	0.0063	0.0070	0.0065	5	0.0078	0.0068	*		0.0075
As-T	mg/L	0.00054	0.00056	0.00058	0.00051	0.00048	5	0.00058	0.00053	0.005		0.00057
B-T	mg/L	0.055	0.059	0.067	0.056	0.072	5	0.072	0.062	1.2		0.07
Ba-T	mg/L	0.0055	0.0062	0.0070	0.0064	0.0072	5	0.0072	0.0065	1		0.0071
Cd-T	mg/L	<0.000010	0.000028	<0.000010	<0.000010	<0.000010	5	0.000028	0.000096			1.88E-05
Ca-T	mg/L	23.9	25.2	29.5	27.5	30.5	5	30.5	27.3			30.1
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00070	0.00055	<0.00050	<0.00050	<0.00050	5	0.00070	0.000400			0.00064
Fe-T	mg/L	0.017	0.026	0.018	0.017	0.022	5	0.026	0.020		1	0.024
Hard-T	mg/L	73.1	76.8	89.9	83.5	92.4	5	92.4	83.1			91.4
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176	0.0001
Mg-T	mg/L	3.24	3.38	3.94	3.59	3.97	5	3.97	3.62			3.96
Mn-T	mg/L	0.0058	0.0063	0.0071	0.0060	0.0111	5	0.0111	0.0073	0.737	0.8706	0.0095
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007		0.0015
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.272	0.293	0.326	0.301	0.332	5	0.332	0.305			0.33
S-T	mg/L	17.8	21.5	26.6	23.8	26.6	5	26.6	23.3			26.6
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	6.89	7.25	8.56	7.83	8.91	5	8.91	7.89			8.77
Sr-T	mg/L	0.145	0.163	0.183	0.168	0.195	5	0.195	0.171			0.19
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0048	0.0040	0.0033	0.0044	0.0037	5	0.0048	0.0040			0.0046
As-D	mg/L	0.00060	0.00057	0.00055	0.00054	0.00055	5	0.00060	0.00056			0.00059
Ba-D	mg/L	0.0065	0.0068	0.0070	0.0074	0.0080	5	0.0080	0.0071			0.0078
B-D	mg/L	0.062	0.062	0.059	0.066	0.066	5	0.066	0.063			0.066
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06
Ca-D	mg/L	26.7	28.5	30.4	30.7	33.1	5	33.1	29.9			32.1
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00032	0.00029	0.00028	0.00029	0.00032	5	0.00032	0.00030	*	*	0.00032
DOC	mg/L	2.9	2.9	3.0	2.8	3.6	5	3.6	3.0			3.4
Hard-D	mg/L	81.7	86.5	92.2	92.8	100	5	100	90.6			97.1
Fe-D	mg/L	0.0111	0.0091	0.0079	0.0082	0.0081	5	0.0111	0.0089		0.35	0.0103
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	3.64	3.73	3.94	3.88	4.31	5	4.31	3.90			4.16
Mn-D	mg/L	0.0019	<0.0010	0.0014	0.0011	0.0035	5	0.0035	0.00168			0.00286
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			1.00E-05
K-D	mg/L	0.300	0.304	0.348	0.309	0.368	5	0.368	0.326			0.36
S-D	mg/L	22.7	24.6	27.2	25.9	29.3	5	29.3	25.9			28.5
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05
Na-D	mg/L	7.75	8.06	8.44	8.39	9.31	5	9.31	8.39			8.96
Sr-D	mg/L	0.162	0.182	0.188	0.195	0.205	5	0.205	0.186			0.201
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
N-NO23	mg/L	<0.020	<0.020	<0.020	0.072	<0.020	5	0.072	0.0224			0.0472
Notes: *Calculated guideline. See Exceedance Table.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 44 Spring Rivers 7 Page(s)

EMS ID	E217017										Water Quality Guidelines		
StnName	No Name Lake Outlet												
StnCode	NNO												
Date	Unit	4-Apr-23	11-Apr-23	17-Apr-23	24-Apr-23	1-May-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.31	7.37	7.57	7.5	7.64	5	7.64	7.48			7.61	
Cond-F	uS/cm	36.4	39	37.5	33.5	32.1	5	39	35.7			38.4	
SO4-D	mg/L	1.9	2.6	2.7	2.1	2.0	5	2.7	2.3	128		2.7	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	
TSS	mg/L	<1.0	<1.0	<1.0	2.4	<1.0	5	2.4	0.88			1.64	
Alk-T	mg/L	12	12	12	11	11	5	12	11.6			12	
Al-T	mg/L	0.0349	0.0298	0.0320	0.0302	0.0316	5	0.0349	0.0317	*		0.0337	
As-T	mg/L	0.00026	0.00024	0.00023	0.00024	0.00026	5	0.00026	0.00025	0.005		0.00026	
Ba-T	mg/L	0.0012	0.0011	0.0011	0.0011	0.0011	5	0.0012	0.0011	1		0.0012	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	15	14	14	14	14	5	15	14.2			14.6	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.000030	5	0.000030	0.0000100			2.00E-05	
Ca-T	mg/L	3.98	3.68	4.06	3.56	3.70	5	4.06	3.80			4.03	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	
Hard-T	mg/L	13.3	12.5	13.6	12.0	12.7	5	13.6	12.8			13.5	
Fe-T	mg/L	0.076	0.064	0.071	0.053	0.058	5	0.076	0.064		1	0.074	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	
Mg-T	mg/L	0.814	0.799	0.834	0.748	0.835	5	0.835	0.806			0.835	
Mn-T	mg/L	0.0057	0.0046	0.0046	0.0036	0.0037	5	0.0057	0.0044	0.737	0.8706	0.0053	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	5	0.0010	0.00060	0.025		0.0008	
K-T	mg/L	0.059	0.063	0.061	0.056	0.062	5	0.063	0.060			0.063	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	
Na-T	mg/L	1.14	1.07	1.11	1.03	1.07	5	1.14	1.08			1.13	
Sr-T	mg/L	0.0123	0.0124	0.0120	0.0118	0.0114	5	0.0124	0.0120			0.0124	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0289	0.0255	0.0249	0.0279	0.0276	5	0.0289	0.0270			0.0285	
As-D	mg/L	0.00038	0.00027	0.00024	0.00024	0.00025	5	0.00038	0.00028			0.00034	
Ba-D	mg/L	0.0014	0.0012	0.0012	0.0011	0.0011	5	0.0014	0.0012			0.0013	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	
Ca-D	mg/L	4.15	4.11	3.98	3.93	3.85	5	4.15	4.00			4.13	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00047	0.00040	0.00039	0.00039	0.00047	5	0.00047	0.00042	*	*	0.00047	
Hard-D	mg/L	13.8	13.8	13.4	13.2	13.0	5	13.8	13.4			13.8	
DOC	mg/L	3.5	3.3	3.0	2.8	3.0	5	3.5	3.1			3.4	
Fe-D	mg/L	0.0456	0.0386	0.0390	0.0406	0.0428	5	0.0456	0.0413		0.35	0.0445	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	0.821	0.864	0.836	0.829	0.830	5	0.864	0.836			0.853	
Mn-D	mg/L	0.0049	0.0038	0.0034	0.0032	0.0031	5	0.0049	0.0037			0.0045	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.059	0.064	0.065	0.064	0.062	5	0.065	0.063			0.065	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	
Na-D	mg/L	1.12	1.20	1.13	1.14	1.12	5	1.20	1.14			1.18	
Sr-D	mg/L	0.0131	0.0138	0.0130	0.0128	0.0126	5	0.0138	0.0131			0.0135	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 44 Spring Rivers 7 Page(s)

EMS ID	E219412	Water Quality Guidelines										
StnName	Long Lake Outlet											
StnCode	LLO											
Date	Unit	4-Apr-23	11-Apr-23	17-Apr-23	24-Apr-23	1-May-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.61	7.59	7.76	7.76	7.87	5	7.87	7.72			7.83
Cond-F	uS/cm	163.4	192.2	167.9	133.1	99.4	5	192.2	151.2			182.5
SO4-D	mg/L	44	50	50	36	28	5	50	41.6	128		50
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5
Alk-T	mg/L	23	25	24	21	18	5	25	22.2			24.6
Al-T	mg/L	0.0223	0.0308	0.0227	0.0275	0.0241	5	0.0308	0.0255	*		0.0295
As-T	mg/L	0.00035	0.00037	0.00031	0.00036	0.00034	5	0.00037	0.00035	0.005		0.00037
Ba-T	mg/L	0.0046	0.0052	0.0043	0.0038	0.0030	5	0.0052	0.0042	1		0.005
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Bicarb	mg/L	28	30	29	26	22	5	30	27.0			29.6
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000050			5.00E-06
Ca-T	mg/L	19.0	19.0	18.3	15.0	11.3	5	19.0	16.5			19
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025
Hard-T	mg/L	57.6	58.4	55.9	46.0	35.2	5	58.4	50.6			58.1
Fe-T	mg/L	0.053	0.076	0.056	0.061	0.053	5	0.076	0.060		1	0.07
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	2.43	2.68	2.45	2.07	1.68	5	2.68	2.26			2.59
Mn-T	mg/L	0.0052	0.0092	0.0065	0.0067	0.0048	5	0.0092	0.0065	0.737	0.8706	0.0082
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.204	0.239	0.214	0.171	0.143	5	0.239	0.194			0.229
S-T	mg/L	13.9	15.4	14.6	11.3	7.1	5	15.4	12.5			15.1
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	5.21	5.74	5.34	4.21	3.20	5	5.74	4.74			5.58
Sr-T	mg/L	0.105	0.130	0.103	0.0878	0.0636	5	0.130	0.0979			0.12
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0208	0.0178	0.0168	0.0205	0.0212	5	0.0212	0.0194			0.021
As-D	mg/L	0.00036	0.00034	0.00033	0.00034	0.00034	5	0.00036	0.00034			0.00035
Ba-D	mg/L	0.0048	0.0050	0.0048	0.0040	0.0034	5	0.0050	0.0044			0.0049
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06
Ca-D	mg/L	19.1	22.4	19.7	16.3	12.3	5	22.4	18.0			21.3
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00042	0.00034	0.00035	0.00036	0.00037	5	0.00042	0.00037	*	*	0.0004
Hard-D	mg/L	57.9	67.6	60.0	49.8	37.8	5	67.6	54.6			64.6
DOC	mg/L	3.2	3.5	3.0	2.8	3.2	5	3.5	3.1			3.4
Fe-D	mg/L	0.0434	0.0405	0.0364	0.0377	0.0369	5	0.0434	0.0390		0.35	0.0422
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	2.48	2.84	2.63	2.20	1.71	5	2.84	2.37			2.76
Mn-D	mg/L	0.0047	0.0066	0.0049	0.0043	0.0030	5	0.0066	0.0047			0.0059
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
K-D	mg/L	0.207	0.235	0.222	0.189	0.147	5	0.235	0.200			0.23
S-D	mg/L	14.5	18.0	15.9	12.0	8.3	5	18.0	13.7			17.2
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05
Na-D	mg/L	5.18	6.05	5.55	4.51	3.43	5	6.05	4.94			5.85
Sr-D	mg/L	0.107	0.127	0.114	0.0931	0.0679	5	0.127	0.1018			0.1218
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Notes: *Calculated guideline. See Exceedance Table.												
Factor applied to less-than results when calculating statistics: 0.5												

Appendix 1 - Tables

Table 44 Spring Rivers 7 Page(s)

EMS ID	E0126402									Water Quality Guidelines			
StnName	Quinsam River at Argonaut Road												
StnCode	WA												
Date	Unit	4-Apr-23	11-Apr-23	17-Apr-23	24-Apr-23	1-May-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.5	7.69	7.97	7.93	8.04	5	8.04	7.83			8.01	
Cond-F	uS/cm	47.9	46.5	45.8	43.5	48	5	48	46.3			48	
SO4-D	mg/L	1.1	1.4	1.4	1.2	1.2	5	1.4	1.3	128		1.4	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5	
Alk-T	mg/L	21	18	20	18	21	5	21	19.6			21	
Al-T	mg/L	0.0159	0.0204	0.0146	0.0179	0.0174	5	0.0204	0.0172	*		0.0194	
As-T	mg/L	<0.00010	0.00012	<0.00010	0.00011	0.00010	5	0.00012	0.000086	0.005		0.000116	
Ba-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1		0.0005	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	25	22	25	22	25	5	25	23.8			25	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	
Ca-T	mg/L	6.98	5.91	6.27	5.92	6.33	5	6.98	6.28			6.72	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	0.00056	0.00055	0.00086	0.00051	0.00059	5	0.00086	0.00061			0.00075	
Hard-T	mg/L	20.3	17.7	18.4	17.4	18.6	5	20.3	18.5			19.6	
Fe-T	mg/L	0.011	0.016	0.011	0.011	0.012	5	0.016	0.012		1	0.014	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	
Mg-T	mg/L	0.709	0.707	0.668	0.649	0.685	5	0.709	0.684			0.708	
Mn-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	5	0.0012	0.00064	0.737	0.8706	0.00092	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	
Ni-T	mg/L	0.0021	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0021	0.00082	0.025		0.00146	
K-T	mg/L	0.054	0.066	0.054	0.054	0.059	5	0.066	0.057			0.063	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	
Na-T	mg/L	0.641	0.695	0.622	0.630	0.626	5	0.695	0.643			0.673	
Sr-T	mg/L	0.0112	0.0109	0.0096	0.0107	0.0109	5	0.0112	0.0107			0.0111	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0123	0.0160	0.0120	0.0152	0.0142	5	0.0160	0.0139			0.0157	
As-D	mg/L	<0.00010	0.00013	<0.00010	0.00011	0.00010	5	0.00013	0.000088			0.000122	
Ba-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	
Ca-D	mg/L	6.93	6.52	6.66	6.44	6.73	5	6.93	6.66			6.85	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00060	0.00052	0.00051	0.00053	0.00059	5	0.00060	0.00055	*	*	0.0006	
Hard-D	mg/L	20.2	19.2	19.5	19.0	19.7	5	20.2	19.5			20	
DOC	mg/L	2.1	2.3	1.8	1.9	1.8	5	2.3	2.0			2.2	
Fe-D	mg/L	0.0082	0.0081	0.0062	0.0070	0.0113	5	0.0113	0.0082		0.35	0.0101	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	0.704	0.700	0.705	0.701	0.706	5	0.706	0.703			0.706	
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.056	0.058	0.062	0.060	0.057	5	0.062	0.059			0.061	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	
Na-D	mg/L	0.671	0.687	0.636	0.699	0.662	5	0.699	0.671			0.694	
Sr-D	mg/L	0.0114	0.0113	0.0111	0.0113	0.0118	5	0.0118	0.0114			0.0116	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 44 Spring Rivers 7 Page(s)

EMS ID	E0900504									Water Quality Guidelines			
StnName	Middle Quinsam Lake Outlet												
StnCode	WB												
Date	Unit	4-Apr-23	11-Apr-23	17-Apr-23	24-Apr-23	1-May-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.98	7.83	8.01	7.93	8.13	5	8.13	7.98			8.08	
Cond-F	uS/cm	122.8	137.4	123	124.6	156.1	5	156.1	132.8			148.6	
SO4-D	mg/L	25	27	22	24	20	5	27	23.6	128		26.2	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5	
Alk-T	mg/L	33	32	33	30	33	5	33	32.2			33	
Al-T	mg/L	0.0124	0.0166	0.0134	0.0151	0.0137	5	0.0166	0.0142	*		0.016	
As-T	mg/L	0.00012	0.00018	0.00012	0.00017	0.00013	5	0.00018	0.00014	0.005		0.00018	
Ba-T	mg/L	0.0018	0.0024	0.0015	0.0022	0.0015	5	0.0024	0.0019	1		0.0023	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	40	39	40	37	40	5	40	39.2			40	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	
Ca-T	mg/L	11.1	12.4	10.2	11.1	10.0	5	12.4	11.0			11.9	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	0.00052	<0.00050	<0.00050	<0.00050	<0.00050	5	0.00052	0.000304			0.000412	
Hard-T	mg/L	33.0	38.0	30.7	33.5	30.3	5	38.0	33.1			36.2	
Fe-T	mg/L	0.023	0.030	0.024	0.027	0.024	5	0.030	0.026		1	0.029	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	
Mg-T	mg/L	1.30	1.72	1.30	1.43	1.27	5	1.72	1.40			1.6	
Mn-T	mg/L	0.0030	0.0037	0.0027	0.0031	0.0034	5	0.0037	0.0032	0.737	0.8706	0.0036	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.178	0.206	0.179	0.166	0.178	5	0.206	0.181			0.195	
S-T	mg/L	7.0	8.9	6.1	7.5	5.8	5	8.9	7.1			8.3	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	
Na-T	mg/L	10.3	9.67	9.31	7.89	9.42	5	10.3	9.32			10.05	
Sr-T	mg/L	0.0532	0.0701	0.0448	0.0584	0.0475	5	0.0701	0.0548			0.0654	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0109	0.0106	0.0112	0.0125	0.0132	5	0.0132	0.0117			0.0129	
As-D	mg/L	0.00013	0.00017	0.00012	0.00018	0.00013	5	0.00018	0.00015			0.00018	
Ba-D	mg/L	0.0018	0.0024	0.0017	0.0023	0.0016	5	0.0024	0.0020			0.0024	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	
Ca-D	mg/L	11.5	14.1	10.4	11.6	10.1	5	14.1	11.5			13.1	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00063	0.00046	0.00050	0.00044	0.00048	5	0.00063	0.00050	*	*	0.00058	
Hard-D	mg/L	34.6	42.2	31.4	35.7	30.3	5	42.2	34.8			39.6	
DOC	mg/L	2.1	2.2	2.0	2.0	2.0	5	2.2	2.1			2.2	
Fe-D	mg/L	0.0155	0.0190	0.0156	0.0190	0.0174	5	0.0190	0.0173		0.35	0.019	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.44	1.72	1.31	1.61	1.26	5	1.72	1.47			1.68	
Mn-D	mg/L	0.0019	0.0022	0.0017	0.0021	0.0027	5	0.0027	0.0021			0.0025	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.185	0.200	0.176	0.182	0.176	5	0.200	0.184			0.194	
S-D	mg/L	8.7	9.3	6.5	11.4	5.9	5	11.4	8.4			10.6	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	
Na-D	mg/L	10.7	10.1	9.66	8.47	9.59	5	10.7	9.70			10.46	
Sr-D	mg/L	0.0550	0.0696	0.0507	0.0634	0.0499	5	0.0696	0.0577			0.0671	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 44 Spring Rivers 7 Page(s)

EMS ID	E286930										Water Quality Guidelines		
StnName	Quinsam River Downstream 1												
StnCode	QRDS1												
Date	Unit	4-Apr-23	11-Apr-23	17-Apr-23	24-Apr-23	1-May-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.89	8.09	8.05	8.29	8.28	5	8.29	8.12			8.29	
Cond-F	uS/cm	162.9	142.7	127.5	114.9	154.3	5	162.9	140.5			159.5	
SO4-D	mg/L	24	25	23	22	20	5	25	22.8	128		24.6	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	
TSS	mg/L	<1.0	<1.0	1.6	<1.0	1.2	5	1.6	0.86			1.44	
Alk-T	mg/L	35	34	34	32	33	5	35	33.6			34.6	
Al-T	mg/L	0.0140	0.0200	0.0156	0.0158	0.0189	5	0.0200	0.0169	*		0.0196	
As-T	mg/L	0.00046	0.00048	0.00052	0.00047	0.00048	5	0.00052	0.00048	0.005		0.0005	
Ba-T	mg/L	0.0021	0.0025	0.0020	0.0022	0.0020	5	0.0025	0.0022	1		0.0024	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	43	41	42	39	41	5	43	41.2			42.6	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	
Ca-T	mg/L	11.3	11.6	11.5	10.2	9.94	5	11.6	10.91			11.56	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00051	5	0.00051	0.000302			0.000406	
Hard-T	mg/L	33.7	35.9	35.0	31.0	30.2	5	35.9	33.2			35.5	
Fe-T	mg/L	0.029	0.036	0.036	0.030	0.038	5	0.038	0.034		1	0.037	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	
Mg-T	mg/L	1.36	1.65	1.50	1.34	1.30	5	1.65	1.43			1.59	
Mn-T	mg/L	0.0030	0.0039	0.0031	0.0032	0.0040	5	0.0040	0.0034	0.737	0.8706	0.004	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.196	0.225	0.206	0.176	0.192	5	0.225	0.199			0.217	
S-T	mg/L	7.2	8.7	7.5	6.6	5.7	5	8.7	7.1			8.2	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	
Na-T	mg/L	11.7	10.7	11.0	8.72	9.53	5	11.7	10.33			11.42	
Sr-T	mg/L	0.0558	0.0661	0.0529	0.0554	0.0505	5	0.0661	0.0561			0.062	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0113	0.0102	0.0096	0.0118	0.0116	5	0.0118	0.0109			0.0117	
As-D	mg/L	0.00043	0.00045	0.00042	0.00045	0.00042	5	0.00045	0.00043			0.00045	
Ba-D	mg/L	0.0023	0.0026	0.0021	0.0025	0.0021	5	0.0026	0.0023			0.0026	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	
Ca-D	mg/L	11.5	12.9	11.0	11.7	10.2	5	12.9	11.5			12.4	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00067	0.00042	0.00050	0.00050	0.00088	5	0.00088	0.00059	*	*	0.0008	
Hard-D	mg/L	34.8	39.0	33.4	35.7	30.9	5	39.0	34.8			37.7	
DOC	mg/L	2.0	2.4	1.9	2.0	2.2	5	2.4	2.1			2.3	
Fe-D	mg/L	0.0177	0.0183	0.0150	0.0182	0.0186	5	0.0186	0.0176		0.35	0.0185	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.46	1.68	1.42	1.58	1.30	5	1.68	1.49			1.64	
Mn-D	mg/L	0.0011	0.0012	0.0011	0.0014	0.0012	5	0.0014	0.0012			0.0013	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.204	0.213	0.198	0.207	0.189	5	0.213	0.202			0.211	
S-D	mg/L	7.6	9.0	7.5	8.6	6.3	5	9.0	7.8			8.8	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	
Na-D	mg/L	11.7	11.1	10.5	9.74	9.96	5	11.7	10.60			11.46	
Sr-D	mg/L	0.0582	0.0667	0.0560	0.0625	0.0524	5	0.0667	0.0592			0.065	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 44 Spring Rivers 7 Page(s)

EMS ID	E292113										Water Quality Guidelines		
StnName	7 South Quinsam River												
StnCode	75QR												
Date	Unit	4-Apr-23	11-Apr-23	18-Apr-23	24-Apr-23	2-May-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.96	7.41	7.56	7.75	7.71	5	7.96	7.68			7.88	
Cond-F	uS/cm	137.8	137.3	117.2	117.8	117.2	5	137.8	125.5			137.6	
SO4-D	mg/L	23	22	19	20	20	5	23	20.8	128		22.6	
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	1.2	5	1.2	0.64			0.92	
Alk-T	mg/L	34	32	31	31	34	5	34	32.4			34	
Al-T	mg/L	0.0162	0.0311	0.0453	0.0321	0.0293	5	0.0453	0.0308	*		0.04	
As-T	mg/L	0.00044	0.00046	0.00051	0.00048	0.00056	5	0.00056	0.00049	0.005		0.00054	
Ba-T	mg/L	0.0021	0.0025	0.0022	0.0023	0.0022	5	0.0025	0.0023	1		0.0024	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	42	39	38	37	41	5	42	39.4			41.6	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	
Ca-T	mg/L	10.6	10.9	10.2	9.97	9.79	5	10.9	10.29			10.78	
Cr-T	mg/L	0.0029	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0029	0.00098			0.00194	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	0.00053	0.00058	0.00052	0.00053	5	0.00058	0.000482			0.00056	
Hard-T	mg/L	31.7	33.8	31.3	30.5	29.8	5	33.8	31.4			33	
Fe-T	mg/L	0.052	0.081	0.110	0.066	0.108	5	0.110	0.083		1	0.109	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	
Mg-T	mg/L	1.30	1.59	1.44	1.36	1.30	5	1.59	1.40			1.53	
Mn-T	mg/L	0.0044	0.0052	0.0056	0.0046	0.0078	5	0.0078	0.0055	0.737	0.8706	0.0069	
Mo-T	mg/L	0.0032	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0032	0.00104	7.6	46	0.00212	
Ni-T	mg/L	0.0125	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0125	0.00290	0.025		0.0077	
K-T	mg/L	0.187	0.215	0.191	0.176	0.192	5	0.215	0.192			0.206	
S-T	mg/L	6.8	7.0	5.9	6.4	5.6	5	7.0	6.3			6.9	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	
Na-T	mg/L	10.8	10.1	8.85	8.29	9.28	5	10.8	9.46			10.52	
Sr-T	mg/L	0.0523	0.0594	0.0479	0.0532	0.0502	5	0.0594	0.0526			0.0569	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0103	0.0156	0.0191	0.0157	0.0135	5	0.0191	0.0148			0.0177	
As-D	mg/L	0.00043	0.00046	0.00045	0.00046	0.00053	5	0.00053	0.00047			0.0005	
Ba-D	mg/L	0.0023	0.0025	0.0022	0.0025	0.0024	5	0.0025	0.0024			0.0025	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	
Ca-D	mg/L	11.1	11.7	9.76	10.9	10.2	5	11.7	10.73			11.46	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00046	0.00050	0.00050	0.00048	0.00048	5	0.00050	0.00048	*	*	0.0005	
Hard-D	mg/L	33.8	36.0	29.9	33.6	31.1	5	36.0	32.9			35.1	
DOC	mg/L	2.0	2.4	2.6	2.2	2.2	5	2.6	2.3			2.5	
Fe-D	mg/L	0.0350	0.0426	0.0492	0.0396	0.0564	5	0.0564	0.0446		0.35	0.0535	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.45	1.63	1.34	1.53	1.33	5	1.63	1.46			1.59	
Mn-D	mg/L	0.0033	0.0037	0.0038	0.0037	0.0064	5	0.0064	0.0042			0.0054	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.212	0.208	0.189	0.197	0.204	5	0.212	0.202			0.21	
S-D	mg/L	7.4	7.9	6.2	6.7	6.4	5	7.9	6.9			7.7	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	
Na-D	mg/L	11.4	10.2	8.75	8.89	10.2	5	11.4	9.89			10.92	
Sr-D	mg/L	0.0562	0.0609	0.0496	0.0582	0.0532	5	0.0609	0.0556			0.0598	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 44 Spring Rivers 7 Page(s)

EMS ID	E299256										Water Quality Guidelines		
StnName	Iron River & Quinsam River												
StnCode	IRQR												
Date	Unit	4-Apr-23	11-Apr-23	18-Apr-23	24-Apr-23	2-May-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	8.11	7.73	7.72	7.8	7.81	5	8.11	7.83			7.99	
Cond-F	uS/cm	123.9	92.5	96.7	90	77.3	5	123.9	96.1			113	
SO4-D	mg/L	19	12	13	13	8.6	5	19	13.1	128		16.6	
Cl-D	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	5	1.0	0.60	150	600	0.8	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5	
Alk-T	mg/L	35	27	28	27	28	5	35	29.0			32.2	
Al-T	mg/L	0.0132	0.0768	0.0512	0.0402	0.0590	5	0.0768	0.0481	*		0.0697	
As-T	mg/L	0.00057	0.00089	0.00067	0.00062	0.00059	5	0.00089	0.00067	0.005		0.0008	
Ba-T	mg/L	0.0023	0.0035	0.0028	0.0030	0.0028	5	0.0035	0.0029	1		0.0033	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	43	33	34	33	35	5	43	35.6			39.8	
Cd-T	mg/L	<0.000010	0.000012	<0.000010	<0.000010	<0.000010	5	0.000012	0.0000064			9.20E-06	
Ca-T	mg/L	9.59	9.08	9.29	8.91	8.76	5	9.59	9.13			9.47	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	0.00089	0.00055	0.00052	0.00078	5	0.00089	0.000598			0.000846	
Hard-T	mg/L	28.6	27.2	28.0	26.6	25.6	5	28.6	27.2			28.4	
Fe-T	mg/L	0.033	0.156	0.082	0.052	0.076	5	0.156	0.080		1	0.126	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	
Mg-T	mg/L	1.13	1.10	1.17	1.05	0.896	5	1.17	1.069			1.154	
Mn-T	mg/L	0.0028	0.0045	0.0037	0.0030	0.0038	5	0.0045	0.0036	0.737	0.8706	0.0042	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.168	0.187	0.175	0.157	0.148	5	0.187	0.167			0.182	
S-T	mg/L	5.3	3.8	4.3	3.8	<3.0	5	5.3	3.74			4.9	
Se-T	mg/L	<0.00010	0.00011	<0.00010	<0.00010	0.00010	5	0.00011	0.000072	0.002		0.000106	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	
Na-T	mg/L	8.37	4.94	5.87	4.97	4.06	5	8.37	5.64			7.37	
Sr-T	mg/L	0.0449	0.0425	0.0388	0.0413	0.0358	5	0.0449	0.0407			0.0439	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0128	0.0465	0.0296	0.0307	0.0450	5	0.0465	0.0329			0.0459	
As-D	mg/L	0.00065	0.00059	0.00068	0.00063	0.00055	5	0.00068	0.00062			0.00067	
Ba-D	mg/L	0.0027	0.0033	0.0031	0.0031	0.0029	5	0.0033	0.0030			0.0032	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	
Ca-D	mg/L	11.1	9.37	9.39	9.74	9.00	5	11.1	9.72			10.56	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00075	0.00067	0.00060	0.00060	0.00064	5	0.00075	0.00065	*	*	0.00072	
Hard-D	mg/L	32.9	27.8	28.1	29.1	26.1	5	32.9	28.8			31.4	
DOC	mg/L	2.0	4.2	3.0	2.7	3.9	5	4.2	3.2			4.1	
Fe-D	mg/L	0.0304	0.0369	0.0409	0.0320	0.0335	5	0.0409	0.0347		0.35	0.0393	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.28	1.06	1.14	1.15	0.871	5	1.28	1.100			1.228	
Mn-D	mg/L	0.0029	0.0020	0.0026	0.0023	0.0027	5	0.0029	0.0025			0.0028	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.188	0.174	0.173	0.172	0.153	5	0.188	0.172			0.182	
S-D	mg/L	6.4	4.5	3.9	4.4	<3.0	5	6.4	4.14			5.64	
Se-D	mg/L	<0.00010	0.00011	0.00010	0.00011	0.00011	5	0.00011	0.000096			0.00011	
Na-D	mg/L	9.34	4.96	5.78	5.39	4.19	5	9.34	5.93			7.92	
Sr-D	mg/L	0.0515	0.0423	0.0421	0.0446	0.0372	5	0.0515	0.0435			0.0487	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E217017									Water Quality Guidelines			
StnName	No Name Lake Outlet												
StnCode	NNO												
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	No Flow	No Flow	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	6.65	7.07	7.19			3	7.19	6.97	6.5 - 9.0		7.17	
Cond-F	uS/cm	54.4	87.4	177.1			3	177.1	106.3			159.2	
SO4-D	mg/L	2.4	1.8	1.7			3	2.4	2.0	128		2.3	
TSS	mg/L	<1.0	2.4	1.6			3	2.4	1.50	5	25	2.24	
Alk-T	mg/L	25	29	34			3	34	29.3			33	
Al-T	mg/L	0.0115	0.0094	0.0103			3	0.0115	0.0104	*		0.0113	
As-T	mg/L	0.00049	0.00051	0.00064			3	0.00064	0.00055	0.005		0.00061	
Ba-T	mg/L	0.0018	0.0017	0.0023			3	0.0023	0.0019	1		0.0022	
B-T	mg/L	<0.050	<0.050	<0.050			3	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	31	36	41			3	41	36.0			40	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010			3	<0.000010	0.0000050			0.00001	
Ca-T	mg/L	6.63	7.07	8.92			3	8.92	7.54			8.55	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050			3	<0.00050	0.000250			0.00025	
Hard-T	mg/L	22.6	24.0	30.5			3	30.5	25.7			29.2	
Fe-T	mg/L	0.090	0.102	0.177			3	0.177	0.123		1	0.162	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100	0.004	0.01763	0.0001	
Mg-T	mg/L	1.47	1.54	2.00			3	2.00	1.67			1.91	
Mn-T	mg/L	0.102	0.0633	0.117			3	0.117	0.0941	0.737	0.8706	0.114	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050	1	2	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.145	0.165	0.225			3	0.225	0.178			0.213	
S-T	mg/L	<3.0	<3.0	<3.0			3	<3.0	1.50			1.5	
Se-T	mg/L	<0.00010	<0.00010	<0.00010			3	<0.00010	0.000050	0.002		0.00005	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020			3	<0.000020	0.0000100	0.00005	0.0001	0.00001	
Na-T	mg/L	1.55	1.73	2.45			3	2.45	1.91			2.31	
Sr-T	mg/L	0.0227	0.0237	0.0301			3	0.0301	0.0255			0.0288	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0072	0.0060	0.0047			3	0.0072	0.0060			0.007	
As-D	mg/L	0.00047	0.00055	0.00063			3	0.00063	0.00055			0.00061	
Ba-D	mg/L	0.0020	0.0020	0.0020			3	0.0020	0.0020			0.002	
B-D	mg/L	<0.050	<0.050	<0.050			3	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010			3	<0.000010	0.0000050	0.000087	0.00017	0.00001	
Ca-D	mg/L	7.15	7.39	9.16			3	9.16	7.90			8.81	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00072	0.00042	0.00034			3	0.00072	0.00049	*	*	0.00066	
Hard-D	mg/L	24.3	25.2	31.1			3	31.1	26.9			29.9	
DOC	mg/L	2.0	2.6	2.9			3	2.9	2.5			2.8	
Fe-D	mg/L	0.0509	0.0512	0.0884			3	0.0884	0.0635		0.35	0.081	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.57	1.64	1.99			3	1.99	1.73			1.92	
Mn-D	mg/L	0.101	0.0690	0.0980			3	0.101	0.0893			0.1004	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005	
K-D	mg/L	0.160	0.188	0.226			3	0.226	0.191			0.218	
S-D	mg/L	<3.0	<3.0	<3.0			3	<3.0	1.50			1.5	
Se-D	mg/L	<0.00010	<0.00010	<0.00010			3	<0.00010	0.000050			0.00005	
Na-D	mg/L	1.73	1.87	2.34			3	2.34	1.98			2.25	
Sr-D	mg/L	0.0243	0.0246	0.0301			3	0.0301	0.0263			0.029	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.00250	0.0075	0.033	0.0025	

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E219412									Water Quality Guidelines			
StnName	Long Lake Outlet												
StnCode	LLO												
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	No Flow	No Flow	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	6.9	6.74	6.65			3	6.9	6.76	6.5 - 9.0		6.87	
Cond-F	uS/cm	142.6	155.6	167.2			3	167.2	155.1			164.9	
SO4-D	mg/L	39	40	42			3	42	40.3	128		41.6	
TSS	mg/L	<1.0	<1.0	<1.0			3	<1.0	0.50	5	25	0.5	
Alk-T	mg/L	29	31	38			3	38	32.7			36.6	
Al-T	mg/L	0.0070	0.0072	0.0182			3	0.0182	0.0108	*		0.016	
As-T	mg/L	0.00035	0.00035	0.00054			3	0.00054	0.00041	0.005		0.0005	
Ba-T	mg/L	0.0048	0.0060	0.0105			3	0.0105	0.0071	1		0.0096	
B-T	mg/L	<0.050	<0.050	<0.050			3	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	36	38	46			3	46	40.0			44.4	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010			3	<0.000010	0.0000050			0.00001	
Ca-T	mg/L	16.7	18.4	22.7			3	22.7	19.3			21.8	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050			3	<0.00050	0.000250			0.00025	
Hard-T	mg/L	51.8	57.2	70.9			3	70.9	60.0			68.2	
Fe-T	mg/L	0.010	0.015	0.097			3	0.097	0.041		1	0.081	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100	0.004	0.01763	0.0001	
Mg-T	mg/L	2.46	2.70	3.49			3	3.49	2.88			3.33	
Mn-T	mg/L	0.0112	0.0333	0.431			3	0.431	0.1585	0.737	0.8706	0.3515	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050	1	2	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.250	0.297	0.373			3	0.373	0.307			0.358	
S-T	mg/L	11.1	12.3	15.4			3	15.4	12.9			14.8	
Se-T	mg/L	<0.00010	<0.00010	<0.00010			3	<0.00010	0.000050	0.002		0.00005	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020			3	<0.000020	0.0000100	0.00005	0.0001	0.00001	
Na-T	mg/L	4.47	4.64	5.17			3	5.17	4.76			5.06	
Sr-T	mg/L	0.0990	0.106	0.128			3	0.128	0.1110			0.1236	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0042	0.0034	0.0039			3	0.0042	0.0038			0.0041	
As-D	mg/L	0.00036	0.00036	0.00048			3	0.00048	0.00040			0.00046	
Ba-D	mg/L	0.0057	0.0068	0.0089			3	0.0089	0.0071			0.0085	
B-D	mg/L	<0.050	<0.050	<0.050			3	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010			3	<0.000010	0.0000050	0.000087	0.00017	0.00001	
Ca-D	mg/L	19.2	19.9	22.5			3	22.5	20.5			22	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00035	0.00028	0.00033			3	0.00035	0.00032	*	*	0.00035	
Hard-D	mg/L	59.3	61.4	69.8			3	69.8	63.5			68.1	
DOC	mg/L	1.5	1.4	1.6			3	1.6	1.5			1.6	
Fe-D	mg/L	<0.0050	0.0076	0.0426			3	0.0426	0.01757		0.35	0.0356	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100			0.0001	
Mg-D	mg/L	2.76	2.83	3.28			3	3.28	2.96			3.19	
Mn-D	mg/L	0.0109	0.0482	0.372			3	0.372	0.1437			0.3072	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005	
K-D	mg/L	0.292	0.314	0.358			3	0.358	0.321			0.349	
S-D	mg/L	11.9	14.9	15.4			3	15.4	14.1			15.3	
Se-D	mg/L	<0.00010	<0.00010	<0.00010			3	<0.00010	0.000050			0.00005	
Na-D	mg/L	5.10	5.08	5.01			3	5.10	5.06			5.1	
Sr-D	mg/L	0.112	0.120	0.128			3	0.128	0.120			0.126	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.00250	0.0075	0.033	0.0025	

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E0126402									Water Quality Guidelines			
StnName	Quinsam River at Argonaut Road												
StnCode	WA												
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	31-Jul-23	8-Aug-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.24	7.38	7.15	6.7	6.91	5	7.38	7.08	6.5 - 9.0		7.32	
Cond-F	uS/cm	47.8	38.9	51.9	56.8	50.5	5	56.8	49.2			54.8	
SO4-D	mg/L	1.6	1.1	1.5	1.1	1.3	5	1.6	1.3	128		1.6	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	5	25	0.5	
Alk-T	mg/L	22	22	22	22	22	5	22	22.0			22	
Al-T	mg/L	0.0177	0.0171	0.0156	0.0135	0.0149	5	0.0177	0.0158	*		0.0175	
As-T	mg/L	0.00012	0.00013	0.00013	0.00014	0.00014	5	0.00014	0.00013	0.005		0.00014	
Ba-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1		0.0005	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	27	27	27	27	27	5	27	27.0			27	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	
Ca-T	mg/L	6.61	6.56	7.53	6.42	6.41	5	7.53	6.71			7.16	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	0.00060	0.00054	<0.00050	<0.00050	5	0.00060	0.000378			0.000576	
Hard-T	mg/L	19.5	19.2	22.1	18.7	18.9	5	22.1	19.7			21.1	
Fe-T	mg/L	0.021	0.022	0.022	0.015	0.025	5	0.025	0.021		1	0.024	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.01763	0.0001	
Mg-T	mg/L	0.718	0.694	0.800	0.653	0.691	5	0.800	0.711			0.767	
Mn-T	mg/L	0.0018	0.0015	0.0019	0.0012	0.0016	5	0.0019	0.0016	0.737	0.8706	0.0019	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.056	0.056	0.059	<0.050	0.064	5	0.064	0.0520			0.062	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	
Na-T	mg/L	0.576	0.576	0.654	0.564	0.570	5	0.654	0.588			0.623	
Sr-T	mg/L	0.0111	0.0105	0.0125	0.0107	0.0106	5	0.0125	0.0111			0.0119	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0147	0.0158	0.0130	0.0135	0.0132	5	0.0158	0.0140			0.0154	
As-D	mg/L	0.00011	0.00015	0.00014	0.00013	0.00016	5	0.00016	0.00014			0.00016	
Ba-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	
Ca-D	mg/L	7.36	7.02	7.48	7.12	7.32	5	7.48	7.26			7.43	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00051	0.00046	0.00049	0.00052	0.00055	5	0.00055	0.00051	*	*	0.00054	
Hard-D	mg/L	21.6	20.6	21.8	21.1	21.6	5	21.8	21.3			21.7	
DOC	mg/L	1.9	1.6	1.7	1.8	2.1	5	2.1	1.8			2	
Fe-D	mg/L	0.0145	0.0162	0.0172	0.0118	0.0237	5	0.0237	0.0167		0.35	0.0211	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	0.792	0.749	0.762	0.802	0.803	5	0.803	0.782			0.803	
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.068	0.057	0.060	0.064	0.068	5	0.068	0.063			0.068	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			<0.00005	
Na-D	mg/L	0.684	0.667	0.633	0.676	0.662	5	0.684	0.664			0.681	
Sr-D	mg/L	0.0123	0.0116	0.0113	0.0126	0.0130	5	0.0130	0.0122			0.0128	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E0900504									Water Quality Guidelines			
StnName	Middle Quinsam Lake Outlet												
StnCode	WB												
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	31-Jul-23	8-Aug-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.5	7.72	7.6	6.73	7.2	5	7.72	7.35	6.5 - 9.0		7.67	
Cond-F	uS/cm	113.5	103.9	151.1	133.8	105.9	5	151.1	121.6			144.2	
SO4-D	mg/L	14	12	11	10	9.2	5	14	11.2	128		13.2	
TSS	mg/L	<1.0	1.6	<1.0	<1.0	<1.0	5	1.6	0.72	5	25	1.16	
Alk-T	mg/L	38	36	37	36	34	5	38	36.2			37.6	
Al-T	mg/L	0.0170	0.0193	0.0150	0.0143	0.0156	5	0.0193	0.0162	*		0.0184	
As-T	mg/L	0.00062	0.00070	0.00084	0.00077	0.00071	5	0.00084	0.00073	0.005		0.00081	
Ba-T	mg/L	0.0016	0.0018	0.0019	0.0017	0.0016	5	0.0019	0.0017	1		0.0019	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	47	44	45	44	41	5	47	44.2			46.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	
Ca-T	mg/L	8.75	9.27	9.84	8.70	8.13	5	9.84	8.94			9.61	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	<0.00050	0.00052	<0.00050	0.00062	5	0.00062	0.000378			0.00058	
Hard-T	mg/L	26.5	28.0	29.6	26.0	24.5	5	29.6	26.9			29	
Fe-T	mg/L	0.047	0.050	0.045	0.041	0.042	5	0.050	0.045		1	0.049	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763	0.0001	
Mg-T	mg/L	1.12	1.19	1.22	1.04	1.02	5	1.22	1.12			1.21	
Mn-T	mg/L	0.0100	0.0113	0.0100	0.0084	0.0078	5	0.0113	0.0095	0.737	0.8706	0.0108	
Mo-T	mg/L	0.0014	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0014	0.00068	1	2	0.00104	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.173	0.179	0.181	0.146	0.151	5	0.181	0.166			0.18	
S-T	mg/L	3.4	4.7	4.1	3.2	3.1	5	4.7	3.7			4.5	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	
Na-T	mg/L	9.56	9.34	9.31	7.63	6.80	5	9.56	8.53			9.47	
Sr-T	mg/L	0.0405	0.0412	0.0427	0.0371	0.0337	5	0.0427	0.0390			0.0421	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0106	0.0103	0.0093	0.0109	0.0088	5	0.0109	0.0100			0.0108	
As-D	mg/L	0.00063	0.00064	0.00073	0.00072	0.00068	5	0.00073	0.00068			0.00073	
Ba-D	mg/L	0.0019	0.0018	0.0018	0.0018	0.0017	5	0.0019	0.0018			0.0019	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	
Ca-D	mg/L	9.89	9.42	9.21	9.21	9.07	5	9.89	9.36			9.7	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00043	0.00038	0.00048	0.00047	0.00041	5	0.00048	0.00043	*	*	0.00048	
Hard-D	mg/L	29.9	28.4	28.0	28.0	27.3	5	29.9	28.3			29.3	
DOC	mg/L	2.2	2.3	2.1	2.6	2.3	5	2.6	2.3			2.5	
Fe-D	mg/L	0.0225	0.0222	0.0231	0.0204	0.0215	5	0.0231	0.0219		0.35	0.0229	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.26	1.18	1.20	1.22	1.14	5	1.26	1.20			1.24	
Mn-D	mg/L	0.0018	0.0015	0.0015	0.0017	0.0015	5	0.0018	0.0016			0.0018	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.191	0.166	0.164	0.175	0.174	5	0.191	0.174			0.185	
S-D	mg/L	4.8	4.8	4.1	4.3	4.2	5	4.8	4.4			4.8	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	
Na-D	mg/L	10.9	9.58	8.88	8.86	7.56	5	10.9	9.16			10.37	
Sr-D	mg/L	0.0433	0.0402	0.0372	0.0401	0.0405	5	0.0433	0.0403			0.0422	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E286930									Water Quality Guidelines			
StnName	Quinsam River Downstream 1												
StnCode	QRDS1												
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	31-Jul-23	8-Aug-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.5	7.72	7.6	6.73	7.2	5	7.72	7.35	6.5 - 9.0		7.67	
Cond-F	uS/cm	113.5	103.9	151.1	133.8	105.9	5	151.1	121.6			144.2	
SO4-D	mg/L	14	12	11	10	9.2	5	14	11.2	128		13.2	
TSS	mg/L	<1.0	1.6	<1.0	<1.0	<1.0	5	1.6	0.72	5	25	1.16	
Alk-T	mg/L	38	36	37	36	34	5	38	36.2			37.6	
Al-T	mg/L	0.0170	0.0193	0.0150	0.0143	0.0156	5	0.0193	0.0162	*		0.0184	
As-T	mg/L	0.00062	0.00070	0.00084	0.00077	0.00071	5	0.00084	0.00073	0.005		0.00081	
Ba-T	mg/L	0.0016	0.0018	0.0019	0.0017	0.0016	5	0.0019	0.0017	1		0.0019	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	47	44	45	44	41	5	47	44.2			46.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	
Ca-T	mg/L	8.75	9.27	9.84	8.70	8.13	5	9.84	8.94			9.61	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	<0.00050	0.00052	<0.00050	0.00062	5	0.00062	0.000378			0.00058	
Hard-T	mg/L	26.5	28.0	29.6	26.0	24.5	5	29.6	26.9			29	
Fe-T	mg/L	0.047	0.050	0.045	0.041	0.042	5	0.050	0.045		1	0.049	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763	0.0001	
Mg-T	mg/L	1.12	1.19	1.22	1.04	1.02	5	1.22	1.12			1.21	
Mn-T	mg/L	0.0100	0.0113	0.0100	0.0084	0.0078	5	0.0113	0.0095	0.737	0.8706	0.0108	
Mo-T	mg/L	0.0014	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0014	0.00068	1	2	0.00104	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	
K-T	mg/L	0.173	0.179	0.181	0.146	0.151	5	0.181	0.166			0.18	
S-T	mg/L	3.4	4.7	4.1	3.2	3.1	5	4.7	3.7			4.5	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	
Na-T	mg/L	9.56	9.34	9.31	7.63	6.80	5	9.56	8.53			9.47	
Sr-T	mg/L	0.0405	0.0412	0.0427	0.0371	0.0337	5	0.0427	0.0390			0.0421	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0106	0.0103	0.0093	0.0109	0.0088	5	0.0109	0.0100			0.0108	
As-D	mg/L	0.00063	0.00064	0.00073	0.00072	0.00068	5	0.00073	0.00068			0.00073	
Ba-D	mg/L	0.0019	0.0018	0.0018	0.0018	0.0017	5	0.0019	0.0018			0.0019	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	
Ca-D	mg/L	9.89	9.42	9.21	9.21	9.07	5	9.89	9.36			9.7	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00043	0.00038	0.00048	0.00047	0.00041	5	0.00048	0.00043	*	*	0.00048	
Hard-D	mg/L	29.9	28.4	28.0	28.0	27.3	5	29.9	28.3			29.3	
DOC	mg/L	2.2	2.3	2.1	2.6	2.3	5	2.6	2.3			2.5	
Fe-D	mg/L	0.0225	0.0222	0.0231	0.0204	0.0215	5	0.0231	0.0219		0.35	0.0229	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.26	1.18	1.20	1.22	1.14	5	1.26	1.20			1.24	
Mn-D	mg/L	0.0018	0.0015	0.0015	0.0017	0.0015	5	0.0018	0.0016			0.0018	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.191	0.166	0.164	0.175	0.174	5	0.191	0.174			0.185	
S-D	mg/L	4.8	4.8	4.1	4.3	4.2	5	4.8	4.4			4.8	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	
Na-D	mg/L	10.9	9.58	8.88	8.86	7.56	5	10.9	9.16			10.37	
Sr-D	mg/L	0.0433	0.0402	0.0372	0.0401	0.0405	5	0.0433	0.0403			0.0422	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E292113									Water Quality Guidelines			
StnName	7 South Quinsam River												
StnCode	7SQR												
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	31-Jul-23	8-Aug-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	
pH-F	pH Units	7.28	6.58	7.08	6.86	7.11	5	7.28	6.98	6.5 - 9.0		7.21	
Cond-F	uS/cm	114	108.7	101.1	103.5	167.1	5	167.1	118.9			145.9	
SO4-D	mg/L	13	13	11	9.9	9.3	5	13	11.2	128		13	
TSS	mg/L	2.4	<1.0	<1.0	<1.0	<1.0	5	2.4	0.88	5	25	1.64	
Alk-T	mg/L	37	36	38	36	37	5	38	36.8			37.6	
Al-T	mg/L	0.0165	0.0186	0.0142	0.0166	0.0188	5	0.0188	0.0169	*		0.0187	
As-T	mg/L	0.00065	0.00071	0.00086	0.00083	0.00079	5	0.00086	0.00077	0.005		0.00085	
Ba-T	mg/L	0.0017	0.0020	0.0022	0.0020	0.0020	5	0.0022	0.0020	1		0.0021	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	
Bicarb	mg/L	45	44	47	43	45	5	47	44.8			46.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	
Ca-T	mg/L	8.35	8.88	9.79	8.82	8.52	5	9.79	8.87			9.43	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	
Hard-T	mg/L	25.3	26.9	29.4	26.6	25.6	5	29.4	26.8			28.4	
Fe-T	mg/L	0.084	0.090	0.103	0.106	0.108	5	0.108	0.098		1	0.107	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763	0.0001	
Mg-T	mg/L	1.07	1.14	1.21	1.10	1.06	5	1.21	1.12			1.18	
Mn-T	mg/L	0.0068	0.0074	0.0088	0.0081	0.0073	5	0.0088	0.0077	0.737	0.8706	0.0085	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2	0.0005	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0011	0.00062	0.025		0.00086	
K-T	mg/L	0.165	0.169	0.193	0.165	0.172	5	0.193	0.173			0.185	
S-T	mg/L	3.6	3.4	4.1	3.3	3.1	5	4.1	3.5			3.9	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	
Na-T	mg/L	8.82	8.91	9.19	7.64	7.15	5	9.19	8.34			9.08	
Sr-T	mg/L	0.0397	0.0387	0.0433	0.0393	0.0370	5	0.0433	0.0396			0.0419	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Al-D	mg/L	0.0414	0.0125	0.0087	0.0144	0.0080	5	0.0414	0.0170			0.0306	
As-D	mg/L	0.00071	0.00076	0.00083	0.00082	0.00077	5	0.00083	0.00078			0.00083	
Ba-D	mg/L	0.0021	0.0021	0.0020	0.0024	0.0020	5	0.0024	0.0021			0.0023	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	0.000021	<0.000010	5	0.000021	0.0000082	0.000087	0.00017	0.00001	
Ca-D	mg/L	10.0	9.66	9.42	9.51	9.31	5	10.0	9.58			9.86	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Cu-D	mg/L	0.00061	0.00041	0.00046	0.00082	0.00044	5	0.00082	0.00055	*	*	0.00074	
Hard-D	mg/L	30.3	29.2	28.6	29.1	28.2	5	30.3	29.1			29.9	
DOC	mg/L	1.9	1.9	2.0	2.0	2.3	5	2.3	2.0			2.2	
Fe-D	mg/L	0.0544	0.0563	0.0660	0.0747	0.0637	5	0.0747	0.0630		0.35	0.0712	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	
Mg-D	mg/L	1.27	1.22	1.22	1.29	1.21	5	1.29	1.24			1.28	
Mn-D	mg/L	0.0065	0.0062	0.0071	0.0072	0.0064	5	0.0072	0.0067			0.0072	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	
K-D	mg/L	0.216	0.174	0.178	0.204	0.191	5	0.216	0.193			0.211	
S-D	mg/L	4.4	4.7	4.2	3.8	3.1	5	4.7	4.0			4.6	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	
Na-D	mg/L	11.1	9.68	8.93	8.70	7.87	5	11.1	9.26			10.53	
Sr-D	mg/L	0.0458	0.0414	0.0395	0.0438	0.0415	5	0.0458	0.0424			0.045	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	
Notes: *Calculated guideline. See Exceedance Table.													
Factor applied to less-than results when calculating statistics: 0.5													

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E299256	Water Quality Guidelines										
StnName	Iron River & Quinsam River											
StnCode	IRQR											
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	31-Jul-23	8-Aug-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.23	6.49	7.32	7.12	6.72	5	7.32	6.98	6.5 - 9.0		7.28
Cond-F	uS/cm	114.4	111.4	103.1	101.0	101.8	5	114.4	106.3			113.2
SO4-D	mg/L	13	12	11	9.9	9.1	5	13	11.0	128		12.6
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	5	25	0.5
Alk-T	mg/L	39	37	36	39	34	5	39	37.0			39
Al-T	mg/L	0.0181	0.0215	0.0164	0.0176	0.0180	5	0.0215	0.0183	*		0.0201
As-T	mg/L	0.00071	0.00075	0.00088	0.00089	0.00089	5	0.00089	0.00082	0.005		0.00089
Ba-T	mg/L	0.0020	0.0022	0.0023	0.0022	0.0024	5	0.0024	0.0022	1		0.0024
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Bicarb	mg/L	48	45	44	48	42	5	48	45.4			48
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	0.000012	<0.000010	5	0.000012	0.000064			0.00001
Ca-T	mg/L	8.69	9.23	10.3	9.07	8.94	5	10.3	9.25			9.87
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	0.0038	<0.0010	5	0.0038	0.00116			0.00248
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	0.00050	<0.00050	0.00063	5	0.00063	0.000376			0.000578
Hard-T	mg/L	26.4	27.9	31.1	27.1	27.1	5	31.1	27.9			29.8
Fe-T	mg/L	0.089	0.100	0.120	0.121	0.123	5	0.123	0.111		1	0.122
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763	0.0001
Mg-T	mg/L	1.13	1.18	1.27	1.07	1.15	5	1.27	1.16			1.23
Mn-T	mg/L	0.0078	0.0093	0.0106	0.0096	0.0100	5	0.0106	0.0095	0.737	0.8706	0.0104
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	0.0040	<0.0010	5	0.0040	0.00120	1	2	0.0026
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	0.0165	<0.0010	5	0.0165	0.00370	0.025		0.0101
K-T	mg/L	0.185	0.184	0.203	0.165	0.189	5	0.203	0.185			0.197
S-T	mg/L	3.5	4.1	4.5	3.1	3.3	5	4.5	3.7			4.3
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001	0.00005	0.0001	0.00001
Na-T	mg/L	9.23	9.25	9.43	7.77	7.60	5	9.43	8.66			9.36
Sr-T	mg/L	0.0411	0.0400	0.0444	0.0399	0.0398	5	0.0444	0.0410			0.0431
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0096	0.0105	0.0087	0.0090	0.0091	5	0.0105	0.0094			0.0101
As-D	mg/L	0.00071	0.00078	0.00080	0.00084	0.00086	5	0.00086	0.00080			0.00085
Ba-D	mg/L	0.0023	0.0022	0.0022	0.0024	0.0022	5	0.0024	0.0023			0.0024
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.000019	5	0.000019	0.0000078	0.000087	0.00017	0.00001
Ca-D	mg/L	10.1	9.66	9.81	9.83	9.66	5	10.1	9.81			9.99
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00046	0.00041	0.00047	0.00049	0.00050	5	0.00050	0.00047	*	*	0.0005
Hard-D	mg/L	30.5	29.1	29.5	29.9	29.0	5	30.5	29.6			30.3
DOC	mg/L	2.0	2.2	2.0	2.1	2.5	5	2.5	2.2			2.4
Fe-D	mg/L	0.0560	0.0686	0.0656	0.0890	0.0709	5	0.0890	0.0700		0.35	0.0818
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	1.26	1.20	1.22	1.29	1.19	5	1.29	1.23			1.28
Mn-D	mg/L	0.0072	0.0073	0.0084	0.0090	0.0082	5	0.0090	0.0080			0.0088
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
K-D	mg/L	0.214	0.181	0.180	0.197	0.197	5	0.214	0.194			0.207
S-D	mg/L	4.5	4.8	3.8	4.0	3.1	5	4.8	4.0			4.7
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005
Na-D	mg/L	10.5	9.73	8.82	8.79	7.62	5	10.5	9.09			10.19
Sr-D	mg/L	0.0460	0.0424	0.0401	0.0443	0.0421	5	0.0460	0.0430			0.0453
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E297231						Water Quality Guidelines					
StnName	Iron River Site 6											
StnCode	IR6											
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	31-Jul-23	8-Aug-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	7.97	8.15	8.03	Hazardous Conditions		3	8.15	8.05	6.5 - 9.0		8.13
Cond-F	uS/cm	169.4	205	198.3			3	205	190.9			203.7
SO4-D	mg/L	11	13	13			3	13	12.3	128		13
TSS	mg/L	<1.0	<1.0	<1.0			3	<1.0	0.50	5	25	0.5
Alk-T	mg/L	69	71	75			3	75	71.7			74.2
Al-T	mg/L	0.0151	0.0146	0.0138			3	0.0151	0.0145	*		0.015
As-T	mg/L	0.00962	0.0110	0.0140			3	0.0140	0.01154	0.005		0.0134
Ba-T	mg/L	0.0119	0.0128	0.0159			3	0.0159	0.0135	1		0.0153
B-T	mg/L	0.052	0.057	0.072			3	0.072	0.060	1.2		0.069
Bicarb	mg/L	84	87	92			3	92	87.7			91
Cd-T	mg/L	<0.000010	0.000012	0.000012			3	0.000012	0.0000097			0.00001
Ca-T	mg/L	22.9	24.2	28.5			3	28.5	25.2			27.6
Cr-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	0.00052			3	0.00052	0.000340			0.000466
Hard-T	mg/L	65.7	69.8	82.4			3	82.4	72.6			79.9
Fe-T	mg/L	<0.010	<0.010	<0.010			3	<0.010	0.0050		1	0.005
Pb-T	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100	0.0039978	0.01763	0.0001
Mg-T	mg/L	2.04	2.25	2.72			3	2.72	2.34			2.63
Mn-T	mg/L	0.0010	0.0012	0.0035			3	0.0035	0.0019	0.737	0.8706	0.003
Mo-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050	1	2	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.304	0.333	0.414			3	0.414	0.350			0.398
S-T	mg/L	<3.0	3.6	4.6			3	4.6	3.23			4.4
Se-T	mg/L	0.00013	0.00014	0.00017			3	0.00017	0.00015	0.002		0.00016
Ag-T	mg/L	<0.000020	<0.000020	<0.000020			3	<0.000020	0.0000100	0.00005	0.0001	0.00001
Na-T	mg/L	3.00	3.38	4.34			3	4.34	3.57			4.15
Sr-T	mg/L	0.0836	0.0865	0.104			3	0.104	0.0914			0.1005
Zn-T	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0179	0.0151	0.0122			3	0.0179	0.0151			0.0173
As-D	mg/L	0.0110	0.0130	0.0145			3	0.0145	0.0128			0.0142
Ba-D	mg/L	0.0137	0.0147	0.0160			3	0.0160	0.0148			0.0157
B-D	mg/L	0.055	0.074	0.073			3	0.074	0.067			0.074
Cd-D	mg/L	0.000011	0.000010	0.000011			3	0.000011	0.000011	0.000087	0.00017	0.00001
Ca-D	mg/L	26.1	27.5	28.5			3	28.5	27.4			28.3
Cr-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00085	0.00038	0.00048			3	0.00085	0.00057	*	*	0.00078
Hard-D	mg/L	74.7	78.3	82.4			3	82.4	78.5			81.6
DOC	mg/L	1.4	1.3	2.3			3	2.3	1.7			2.1
Fe-D	mg/L	0.0054	<0.0050	<0.0050			3	0.0054	0.00347		0.35	0.00482
Pb-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100			0.0001
Mg-D	mg/L	2.31	2.37	2.71			3	2.71	2.46			2.64
Mn-D	mg/L	0.0010	0.0011	0.0031			3	0.0031	0.0017			0.0027
Mo-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050			0.0005
K-D	mg/L	0.352	0.345	0.397			3	0.397	0.365			0.388
S-D	mg/L	3.6	4.6	4.6			3	4.6	4.3			4.6
Se-D	mg/L	0.00016	0.00015	0.00017			3	0.00017	0.00016			0.00017
Na-D	mg/L	3.52	3.73	4.17			3	4.17	3.81			4.08
Sr-D	mg/L	0.0943	0.0921	0.106			3	0.106	0.0975			0.1037
Zn-D	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.00250	0.0075	0.033	0.0025

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 45 Summer Rivers 9 Page(s)

EMS ID	E297232									Water Quality Guidelines				
StnName	Iron River Site 8													
StnCode	IR8													
		Sample collected down-stream of original site												
Date	Unit	11-Jul-23	17-Jul-23	24-Jul-23	31-Jul-23	8-Aug-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile		
pH-F	pH Units	8.03	8.02	8.02	7.12	6.68	5	8.03	7.57	6.5 - 9.0		8.03		
Cond-F	uS/cm	192.5	196.7	213	120.8	131.6	5	213	170.9			206.5		
SO4-D	mg/L	11	13	13	4.8	5.0	5	13	9.4	128		13		
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	5	25	0.5		
Alk-T	mg/L	74	77	83	51	53	5	83	67.6			80.6		
Al-T	mg/L	0.0167	0.0217	0.0127	0.0065	0.0122	5	0.0217	0.0140	*		0.0197		
As-T	mg/L	0.0213	0.0239	0.0267	0.00065	0.00072	5	0.0267	0.01465	0.005		0.02558		
Ba-T	mg/L	0.0124	0.0144	0.0163	0.0081	0.0092	5	0.0163	0.0121	1		0.0155		
B-T	mg/L	0.080	0.093	0.116	<0.050	<0.050	5	0.116	0.0678	1.2		0.1068		
Bicarb	mg/L	91	94	100	63	65	5	100	82.6			97.6		
Cd-T	mg/L	0.000013	0.000010	0.000011	<0.000010	<0.000010	5	0.000013	0.0000088			0.00001		
Ca-T	mg/L	24.8	27.8	30.3	15.5	17.7	5	30.3	23.2			29.3		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001		
Cu-T	mg/L	<0.00050	0.00065	0.00082	<0.00050	<0.00050	5	0.00082	0.000444			0.000752		
Hard-T	mg/L	70.8	80.0	87.5	44.2	51.0	5	87.5	66.7			84.5		
Fe-T	mg/L	0.014	0.026	0.019	<0.010	0.014	5	0.026	0.0156		1	0.0232		
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763	0.0001		
Mg-T	mg/L	2.17	2.54	2.86	1.35	1.67	5	2.86	2.12			2.73		
Mn-T	mg/L	0.0019	0.0024	0.0031	<0.0010	0.0013	5	0.0031	0.00184	0.737	0.8706	0.00282		
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2	0.0005		
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005		
K-T	mg/L	0.354	0.398	0.453	0.241	0.300	5	0.453	0.349			0.431		
S-T	mg/L	<3.0	3.9	4.3	<3.0	<3.0	5	4.3	2.54			4.14		
Se-T	mg/L	0.00012	0.00012	0.00013	<0.00010	<0.00010	5	0.00013	0.000094	0.002		0.000126		
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001		
Na-T	mg/L	5.78	6.88	8.33	1.80	2.12	5	8.33	4.98			7.75		
Sr-T	mg/L	0.0921	0.102	0.114	0.0541	0.0624	5	0.114	0.0849			0.1092		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025		
Al-D	mg/L	0.0191	0.0168	0.0115	0.0060	0.0063	5	0.0191	0.0119			0.0182		
As-D	mg/L	0.0240	0.0260	0.0275	0.00074	0.00077	5	0.0275	0.01580			0.0269		
Ba-D	mg/L	0.0141	0.0154	0.0163	0.0101	0.0100	5	0.0163	0.0132			0.0159		
B-D	mg/L	0.084	0.109	0.110	<0.050	<0.050	5	0.110	0.0706			0.1096		
Cd-D	mg/L	<0.000010	0.000011	0.000012	0.000011	<0.000010	5	0.000012	0.0000088	0.000087	0.00017	0.00001		
Ca-D	mg/L	28.3	29.8	31.1	18.6	18.3	5	31.1	25.2			30.6		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001		
Cu-D	mg/L	0.00061	0.00063	0.00076	0.00035	0.00067	5	0.00076	0.00060	*	*	0.00072		
Hard-D	mg/L	81.1	84.9	89.0	54.0	53.2	5	89.0	72.4			87.4		
DOC	mg/L	1.4	1.4	2.6	1.3	1.6	5	2.6	1.7			2.2		
Fe-D	mg/L	0.0154	0.0149	0.0166	<0.0050	0.0057	5	0.0166	0.01102		0.35	0.01612		
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001		
Mg-D	mg/L	2.51	2.53	2.73	1.83	1.85	5	2.73	2.29			2.65		
Mn-D	mg/L	0.0023	0.0018	0.0027	<0.0010	<0.0010	5	0.0027	0.00156			0.00254		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005		
K-D	mg/L	0.393	0.400	0.430	0.296	0.325	5	0.430	0.369			0.418		
S-D	mg/L	<3.0	4.4	4.4	<3.0	<3.0	5	4.4	2.66			4.4		
Se-D	mg/L	0.00013	0.00014	0.00014	<0.00010	<0.00010	5	0.00014	0.000102			0.00014		
Na-D	mg/L	6.50	7.63	8.20	2.30	2.26	5	8.20	5.38			7.97		
Sr-D	mg/L	0.104	0.107	0.118	0.0666	0.0693	5	0.118	0.0930			0.1136		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025		
Notes: *Calculated guideline. See Exceedance Table.														
Factor applied to less-than results when calculating statistics: 0.5														

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

EMS ID	E217017	Water Quality Guidelines										
StnName	No Name Lake Outlet											
StnCode	NNO											
Date	Unit	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	14-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	6.23	6.23	6.33	6.33	6.66	5	6.66	6.36			6.53
Cond-F	uS/cm	38.4	39.3	39.3	39.2	39.8	5	39.8	39.2			39.6
SO4-D	mg/L	2.9	2.3	2.2	2.1	1.4	5	2.9	2.2	128		2.7
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	1.0	5	1.0	0.60	150	600	0.8
TSS	mg/L	1.2	<1.0	<1.0	1.2	<1.0	5	1.2	0.78			1.2
Alk-T	mg/L	15	14	13	12	11	5	15	13.0			14.6
Al-T	mg/L	0.0104	0.0172	0.0212	0.0268	0.0502	5	0.0502	0.0252	*		0.0408
As-T	mg/L	0.00031	0.00029	0.00030	0.00025	0.00022	5	0.00031	0.00027	0.005		0.00031
Ba-T	mg/L	0.0011	0.0011	0.0012	0.0011	0.0012	5	0.0012	0.0011	1		0.0012
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Bicarb	mg/L	18	17	16	15	13	5	18	15.8			17.6
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	4.46	4.13	4.46	4.05	3.62	5	4.46	4.14			4.46
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	<0.00050	<0.00050	0.00052	<0.00050	0.00060	5	0.00060	0.000374			0.000568
Hard-T	mg/L	15.2	14.0	14.9	13.5	12.2	5	15.2	14.0			15.1
Fe-T	mg/L	0.030	0.036	0.047	0.049	0.081	5	0.081	0.049		1	0.068
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	0.982	0.893	0.924	0.832	0.768	5	0.982	0.880			0.959
Mn-T	mg/L	0.0034	0.0028	0.0037	0.0043	0.0073	5	0.0073	0.0043	0.737	0.8706	0.0061
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.075	0.073	0.077	0.070	0.080	5	0.080	0.075			0.079
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	1.25	1.17	1.21	1.10	1.07	5	1.25	1.16			1.23
Sr-T	mg/L	0.0130	0.0136	0.0138	0.0125	0.0115	5	0.0138	0.0129			0.0137
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0079	0.0144	0.0169	0.0245	0.0469	5	0.0469	0.0221			0.0379
As-D	mg/L	0.00035	0.00030	0.00027	0.00026	0.00028	5	0.00035	0.00029			0.00033
Ba-D	mg/L	0.0012	0.0013	0.0012	0.0012	0.0014	5	0.0014	0.0013			0.0014
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06
Ca-D	mg/L	4.23	4.74	4.42	4.32	4.40	5	4.74	4.42			4.61
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00043	0.00043	0.00039	0.00047	0.00066	5	0.00066	0.00048	*	*	0.00058
Hard-D	mg/L	14.6	15.8	15.0	14.7	14.8	5	15.8	15.0			15.5
DOC	mg/L	3.2	3.4	3.9	4.0	5.0	5	5.0	3.9			4.6
Fe-D	mg/L	0.0210	0.0226	0.0299	0.0357	0.0645	5	0.0645	0.0347		0.35	0.053
Pb-D	mg/L	0.00389	<0.00020	<0.00020	<0.00020	<0.00020	5	0.00389	0.000858			0.002374
Mg-D	mg/L	0.972	0.973	0.969	0.957	0.925	5	0.973	0.959			0.973
Mn-D	mg/L	0.0018	0.0015	0.0026	0.0036	0.0070	5	0.0070	0.0033			0.0056
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
K-D	mg/L	0.066	0.083	0.058	0.071	0.093	5	0.093	0.074			0.089
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05
Na-D	mg/L	1.27	1.29	1.25	1.28	1.27	5	1.29	1.27			1.29
Sr-D	mg/L	0.0122	0.0151	0.0138	0.0131	0.0140	5	0.0151	0.0136			0.0147
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

EMS ID	E0126402	Water Quality Guidelines										
StnName	Quinsam River at Argonaut Road											
StnCode	WA											
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	6.61	6.24	6.18	6.59	6.73	5	6.73	6.47			6.68
Cond-F	uS/cm	45.6	41.3	47	47.4	44.2	5	47.4	45.1			47.2
SO4-D	mg/L	1.3	<1.0	<1.0	1.3	<1.0	5	1.3	1.3	128		1.3
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5
Alk-T	mg/L	22	18	22	18	17	5	22	19.4			22
Al-T	mg/L	0.0156	0.0374	0.0175	0.0144	0.0281	5	0.0374	0.0226	*		0.0337
As-T	mg/L	0.00012	0.00018	0.00013	0.00013	0.00015	5	0.00018	0.00014	0.005		0.00017
Ba-T	mg/L	<0.0010	0.0018	<0.0010	<0.0010	0.0014	5	0.0018	0.00094	1		0.00164
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Bicarb	mg/L	27	22	26	22	21	5	27	23.6			26.6
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06
Ca-T	mg/L	6.83	4.95	6.17	6.67	5.07	5	6.83	5.94			6.77
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00059	0.00062	0.00054	0.00054	0.00057	5	0.00062	0.00057			0.00061
Hard-T	mg/L	20.1	15.0	18.3	19.7	15.2	5	20.1	17.7			19.9
Fe-T	mg/L	0.015	0.023	0.017	0.015	0.020	5	0.023	0.018		1	0.022
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	0.738	0.636	0.706	0.734	0.608	5	0.738	0.684			0.736
Mn-T	mg/L	0.0017	0.0022	0.0015	0.0012	0.0012	5	0.0022	0.0016	0.737	0.8706	0.002
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.063	0.090	0.066	0.055	0.066	5	0.090	0.068			0.008
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	0.649	0.836	0.685	0.652	0.738	5	0.836	0.712			0.797
Sr-T	mg/L	0.0110	0.0091	0.0110	0.0109	0.0101	5	0.0110	0.0104			0.011
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0100	0.0404	0.0149	0.0104	0.0275	5	0.0404	0.0206			0.0352
As-D	mg/L	0.00013	0.00024	0.00014	0.00014	0.00018	5	0.00024	0.00017			0.00022
Ba-D	mg/L	<0.0010	0.0023	0.0011	<0.0010	0.0017	5	0.0023	0.00122			0.00206
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06
Ca-D	mg/L	6.98	5.98	7.23	6.91	6.02	5	7.23	6.62			7.13
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00050	0.00066	0.00059	0.00052	0.00060	5	0.00066	0.00057	*	*	0.00064
Hard-D	mg/L	20.6	18.0	21.4	20.5	18.2	5	21.4	19.7			21.1
DOC	mg/L	2.1	4.3	2.1	2.2	3.1	5	4.3	2.8			3.8
Fe-D	mg/L	0.0061	0.0172	0.0110	0.0080	0.0164	5	0.0172	0.0117		0.35	0.0169
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	0.779	0.750	0.818	0.787	0.766	5	0.818	0.780			0.806
Mn-D	mg/L	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	5	0.0011	0.00062			0.00086
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
K-D	mg/L	0.059	0.099	0.078	0.063	0.073	5	0.099	0.074			0.091
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05
Na-D	mg/L	0.666	0.946	0.796	0.707	0.880	5	0.946	0.799			0.92
Sr-D	mg/L	0.0115	0.0110	0.0120	0.0118	0.0116	5	0.0120	0.0116			0.0119
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025

Notes: *Calculated guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

EMS ID	E292113	Water Quality Guidelines										
StnName	7 South Quinsam River											
StnCode	75QR											
Date	Unit	11-Oct-23	19-Oct-23	25-Oct-23	1-Nov-23	7-Nov-23	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile
pH-F	pH Units	6.54	6.39	6.02	6.58	6.58	5	6.58	6.42			6.58
Cond-F	uS/cm	93.6	92.7	96.1	96.7	81.2	5	96.7	92.1			96.5
SO4-D	mg/L	8.9	11	13	13	12	5	13	11.6	128		13
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5
Alk-T	mg/L	32	34	29	29	23	5	34	29.4			33.2
Al-T	mg/L	0.0137	0.0265	0.0158	0.0103	0.0585	5	0.0585	0.0250	*		0.0457
As-T	mg/L	0.00040	0.00044	0.00035	0.00035	0.00061	5	0.00061	0.00043	0.005		0.00054
Ba-T	mg/L	0.0018	0.0021	0.0019	0.0020	0.0034	5	0.0034	0.0022	1		0.0029
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025
Bicarb	mg/L	38	41	36	35	28	5	41	35.6			39.8
Cd-T	mg/L	0.000015	<0.000010	<0.000010	<0.000010	0.000014	5	0.000015	0.0000088			1.46E-05
Ca-T	mg/L	8.61	8.65	9.11	9.86	8.77	5	9.86	9.00			9.56
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001
Cu-T	mg/L	0.00054	0.00060	<0.00050	0.00065	0.00082	5	0.00082	0.000572			0.000752
Hard-T	mg/L	26.1	26.6	27.6	29.6	26.1	5	29.6	27.2			28.8
Fe-T	mg/L	0.084	0.117	0.075	0.063	0.078	5	0.117	0.083		1	0.104
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001
Mg-T	mg/L	1.11	1.22	1.19	1.20	1.03	5	1.22	1.15			1.21
Mn-T	mg/L	0.0050	0.0051	0.0054	0.0058	0.0033	5	0.0058	0.0049	0.737	0.8706	0.0056
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005
K-T	mg/L	0.180	0.186	0.167	0.148	0.166	5	0.186	0.169			0.184
S-T	mg/L	<3.0	3.4	4.1	4.3	<3.0	5	4.3	2.96			4.22
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00012	5	0.00012	0.000064	0.002		9.20E-05
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05
Na-T	mg/L	6.16	5.94	5.55	6.02	5.82	5	6.16	5.30			6.1
Sr-T	mg/L	0.0312	0.0301	0.0378	0.0388	0.0358	5	0.0388	0.0347			0.0384
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025
Al-D	mg/L	0.0067	0.0202	0.0115	0.0065	0.0461	5	0.0461	0.0182			0.0357
As-D	mg/L	0.00040	0.00045	0.00037	0.00036	0.00063	5	0.00063	0.00044			0.00056
Ba-D	mg/L	0.0019	0.0023	0.0023	0.0021	0.0036	5	0.0036	0.0024			0.0031
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06
Ca-D	mg/L	9.29	8.93	10.9	10.1	9.12	5	10.9	9.67			10.58
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Cu-D	mg/L	0.00043	0.00062	0.00049	0.00052	0.00074	5	0.00074	0.00056	*	*	0.00069
Hard-D	mg/L	28.1	27.3	33.2	30.6	27.5	5	33.2	29.3			32.2
DOC	mg/L	2.6	3.6	2.9	2.5	5.2	5	5.2	3.4			4.6
Fe-D	mg/L	0.0579	0.0837	0.0606	0.0450	0.0490	5	0.0837	0.0592		0.35	0.0745
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001
Mg-D	mg/L	1.19	1.22	1.44	1.30	1.15	5	1.44	1.26			1.38
Mn-D	mg/L	0.0046	0.0049	0.0055	0.0057	0.0024	5	0.0057	0.0046			0.0056
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005
K-D	mg/L	0.193	0.189	0.195	0.169	0.162	5	0.195	0.182			0.194
S-D	mg/L	3.1	3.9	5.0	4.6	3.9	5	5.0	4.1			4.8
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	5	0.00014	0.000068			0.000104
Na-D	mg/L	6.88	6.23	6.74	6.62	3.17	5	6.88	5.93			6.82
Sr-D	mg/L	0.0341	0.0309	0.0427	0.0418	0.0363	5	0.0427	0.0372			0.0423
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.

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

Appendix 1 - Tables

Table 46 Fall Rivers 9 Page(s)

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

Notes: *Calculated guideline. See Exceedance Table.

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

Table 47 Statistics 2019-2023 85 Page(s)

2018 -19 Statistics Stn.Code																												
EMS_ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
WA			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	0.00011	0.000111	0.0247	0.0208	20.2	0.000005	0.00000364	0.00089	0.0007	0.018	0.0139	0.00127	0.00059	19.5	0.0005	0.00050	0.000100	0.000100	1.14	0.00250	0.002398					
		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15					
		Minimum	<0.00010	<0.00010	0.0154	0.0152	15.6	<0.000010	<0.0000050	0.00059	0.00058	0.011	0.0069	<0.0010	<0.0010	17.8	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	0.000964					
		Maximum	0.00016	0.00014	0.0317	0.0286	23	<0.000010	0.0000196	0.0016	0.00085	0.028	0.0287	0.002	0.0014	21	<0.0010	<0.0010	<0.00020	<0.00020	1.9	<0.0050	<0.0050					
		Geometric Mean	0.000101	0.000107	0.0244	0.0205	20.1	0.000005	0.00000287	0.00084	0.00069	0.017	0.0132	0.00119	0.00056	19.5	0.0005	0.00050	0.000100	0.000100	1.03	0.00250	0.002346					
		Count <DL	4	2	0	0	0	15	14	0	0	0	0	2	13	0	15	15	15	15	4	15	14					
		Standard Deviation	0.000041	0.000027	0.0041	0.0037	2.2	0	0.00000442	0.00034	0.0001	0.005	0.0051	0.00043	0.00026	0.9	0	0.00000	0.000000	0.000000	0.47	0	0.000397					
		1st Quartile	0.00008	0.00011	0.0218	0.0183	18.8	<0.000010	<0.0000050	0.0007	0.0006	0.014	0.0111	0.0011	<0.0010	18.8	<0.0010	<0.0010	<0.00020	<0.00020	0.8	<0.0050	<0.0050					
		Median	0.00012	0.00012	0.0248	0.0204	21.0	<0.000010	<0.0000050	0.00074	0.00068	0.016	0.0139	0.0012	<0.0010	19.7	<0.0010	<0.0010	<0.00020	<0.00020	1.2	<0.0050	<0.0050					
		3rd Quartile	0.00014	0.00013	0.0274	0.0225	21.6	<0.000010	<0.0000050	0.00092	0.00077	0.022	0.0154	0.00145	<0.0010	20.2	<0.0010	<0.0010	<0.00020	<0.00020	1.4	<0.0050	<0.0050					
WD	Settling Pond #4	Average	0.00132	0.00205	0.0209	0.00488	368	0.000006	0.00000417	0.001028	0.00036	0.661	0.0162	0.1403	0.1347	385	0.0017	0.00182	0.000100	0.000167	579	0.00313	0.00417	0.0052	0.00380	0.024	0.05	
E207409		Count	6	6	6	6	12	6	6	6	6	6	6	6	6	6	6	6	6	6	52	6	6	3	1	2	3	
		Minimum	0.00079	0.00113	0.0035	<0.0030	252	<0.000010	<0.0000050	<0.00050	<0.00020	0.055	0.0103	0.0412	0.0435	313	0.001	<0.0010	<0.00020	<0.00020	411	<0.0050	<0.0050	0.0045	0.0038	<0.020	<0.020	
		Maximum	0.00207	0.00272	0.0679	<0.015	437	0.000011	<0.000025	0.00198	<0.0010	1.54	0.0270	0.3	0.278	436	0.0041	0.0044	<0.00020	<0.0010	798	0.0063	<0.025	0.0063	0.0038	0.038	0.13	
		Geometric Mean	0.00126	0.00193	0.0139	0.00437	363	0.0000057	0.0000033	0.000845	0.000321	0.424	0.0153	0.1125	0.1111	382	0.0014	0.0014	0.000100	0.000131	571	0.00292	0.00327	0.0051	0.00380	0.0195	0.0235	
		Count <DL	0	0	0	2	0	5	6	1	2	0	0	0	0	0	0	0	2	6	6	0	5	6	0	0	1	2
		Standard Deviation	0.00045	0.00071	0.0235	0.0021	54	0.0000024	0.00000408	0.000646	0.000155	0.565	0.0062	0.096	0.0865	44	0.0012	0.00143	0.000000	0.000163	99	0.00155	0.00408	0.001	0	0.0198	0.0693	
		1st Quartile	0.00107	0.00144	0.0107	0.004	358	<0.000010	<0.0000050	0.00072	0.000295	0.306	0.0122	0.0688	0.0697	367	0.001	0.00105	<0.00020	<0.00020	494	<0.0050	<0.0050	0.0046	0.0038	0.017	<0.020	
		Median	0.00123	0.00226	0.0128	0.00515	382	<0.000010	<0.0000050	0.0008	0.000435	0.49	0.014	0.1295	0.1285	389	0.0012	0.00125	<0.00020	<0.00020	565	<0.0050	<0.0050	0.0047	0.0038	0.024	<0.020	
		3rd Quartile	0.00147	0.00263	0.017	0.00608	404	<0.000010	<0.0000050	0.001435	0.000455	0.984	0.0184	0.1773	0.167	414	0.0014	0.0022	<0.00020	<0.00020	654	<0.0050	<0.0050	0.0055	0.0038	0.031	0.07000	
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2018 -19 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
MW001D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average	0.0214			0.0326	92.2		0.0000025		0.001		0.0074		0.0139			0.0005		0.0001	27.3		0.0025		0.173		
		Count	2			2	2		2		2		2		2			2		2	2		2		2		
		Minimum	0.0212			0.0299	90.3		<0.0000050		0.00083		0.0058		0.0061			<0.0010		<0.00020	26.8		<0.0050		0.173		
		Maximum	0.0215			0.0354	94		<0.0000050		0.00118		0.0091		0.0217			<0.0010		<0.00020	27.8		<0.0050		0.173		
		Geometric Mean	0.0213			0.0325	92.1		0.0000025		0.00099		0.0073		0.0115			0.0005		0.0001	27.3		0.0025		0.173		
		Count <DL	0			0	0		2		0		0		0			2		2	0		2		0		
		Standard Deviation	0.0002			0.0039	2.6		0		0.00025		0.0023		0.011000			0		0	0.7		0		0		
		1st Quartile	0.0213			0.0313	91.2		<0.0000050		0.00092		0.0066		0.01			<0.0010		<0.00020	27		<0.0050		0.173		
		Median	0.0214			0.0326	92.2		<0.0000050		0.001		0.0074		0.0139			<0.0010		<0.00020	27.3		<0.0050		0.173		
		3rd Quartile	0.0214			0.034	93.1		<0.0000050		0.00109		0.0083		0.0178			<0.0010		<0.00020	27.6		<0.0050		0.173		
MW001S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average	0.0001			0.003	327		0.000104		0.00135		0.059		2.83			0.0025		0.0002000	799		0.005		0.00500		
		Count	1			1	1		1		1		1		1			1		1	1		1		1		
		Minimum	<0.00020			<0.0060	327		0.000104		0.00135		0.059		2.83			0.0025		<0.00040	799		<0.010		0.005		
		Maximum	<0.00020			<0.0060	327		0.000104		0.00135		0.059		2.83			0.0025		<0.00040	799		<0.010		0.005		
		Geometric Mean	0.0001			0.003	327		0.000104		0.00135		0.059		2.83			0.0025		0.0002000	799		0.005		0.005		
		Count <DL	1			1	0		0		0		0		0			0		1	0		1		0		
		Standard Deviation	1			0	0		0		0		0		0			0		0.0000000	0		0		0.00000		
		1st Quartile	<0.00020			<0.0060	327		0.000104		0.00135		0.059		2.83			0.0025		<0.00040	799		<0.010		0.00500		
		Median	<0.00020			<0.0060	327		0.000104		0.00135		0.059		2.83			0.0025		<0.00040	799		<0.010		0.00500		
		3rd Quartile	<0.00020			<0.0060	327		0.000104		0.00135		0.059		2.83			0.0025		<0.00040	799		<0.010		0.00500		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2018 -19 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
MW006D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average	0.0273			0.0165	81.9		0.0000025		0.00094		0.0025		0.0008			0.000500		0.0001000	12.4		0.00250		0.16		
		Count	2			2	2		2		2		2		2			2		2	2		2		2		
		Minimum	0.027			0.016	79.8		<0.0000050		0.00073		<0.0050		<0.0010			<0.0010		<0.00020	12		<0.0050		0.157		
		Maximum	0.0276			0.017	84		<0.0000050		0.00116		<0.0050		0.0011			<0.0010		<0.00020	12.7		<0.0050		0.163		
		Geometric Mean	0.0273			0.0165	81.9		0.0000025		0.00092		0.0025		0.00074			0.000500		0.0001000	12.3		0.0025		0.16		
		Count <DL	0			0	0		2		0		2		1			2		2	0		2		0		
		Standard Deviation	0.0004			0.0007	3.0		0.0000000		0.0003		0		0.00042			0.0000000		0.0000000	0.5		0		0.004		
		1st Quartile	0.0272			0.0162	80.8		<0.0000050		0.00084		<0.0050		0.00065			<0.0010		<0.00020	12.2		<0.0050		0.158		
		Median	0.0273			0.0165	81.9		<0.0000050		0.00094		<0.0050		0.0008			<0.0010		<0.00020	12.4		<0.0050		0.16		
		3rd Quartile	0.0274			0.0168	83		<0.0000050		0.00105		<0.0050		0.00095			<0.0010		<0.00020	12.5		<0.0050		0.162		
MW006S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average	0.00158			0.00245	156.5		0.0000168		0.00086		0.0074		0.0215			0.0005		0.0001	546.0		0.00250		0.0537		
		Count	2			2	2		2		2		2		2			2		2	2		2		2		
		Minimum	0.00149			<0.0030	155		0.000013		0.00071		<0.0050		0.0108			<0.0010		<0.00020	519		<0.0050		0.0516		
		Maximum	0.00167			0.0034	158		0.0000205		0.00101		0.0123		0.0322			<0.0010		<0.00020	573		<0.0050		0.056		
		Geometric Mean	0.00158			0.00226	156.5		0.0000163		0.00085		0.00555		0.0186			0.00050		0.0001000	545.3		0.0025		0.0537		
		Count <DL	0			1	0		0		0		1		0			2		2	0		2		0		
		Standard Deviation	0.00013			0.00134	2.1		0.000005		0.000210		0.00693		0.0151			0		0.0000000	38.2		0		0.003		
		1st Quartile	0.00154			0.00198	155.8		0.0000149		0.00078		0.00495		0.0162			<0.0010		<0.00020	532.5		<0.0050		0.0526		
		Median	0.00158			0.00245	156.5		0.0000168		0.00086		0.0074		0.0215			<0.0010		<0.00020	546.0		<0.0050		0.0537		
		3rd Quartile	0.00163			0.00292	157.2		0.0000186		0.00094		0.00985		0.0268			<0.0010		<0.00020	559.5		<0.0050		0.0548		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2018 -19 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
WC	2-North Pit Culvert discharge into Middle Quinsam Lake	Average	0.0007	0.00084	0.0083	0.0068	332	0.000005	0.00000417	0.000548	0.00044	0.145	0.0317	0.0247	0.0261	318	0.00143	0.00163	0.000100	0.000167	518	0.00250	0.00417				
E207411		Count	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	13	6	6				
		Minimum	0.00048	0.00056	0.0043	0.0048	257	<0.000010	<0.0000050	<0.00050	0.00024	0.054	0.0133	0.0068	0.0072	274	<0.0010	<0.0010	<0.00020	<0.00020	304	<0.0050	<0.0050				
		Maximum	0.00094	0.00118	0.0149	0.0098	370	<0.000010	<0.000025	0.00098	0.0006	0.366	0.114	0.0594	0.0598	393	0.0056	0.0053	<0.00020	<0.0010	729	<0.0050	<0.025				
		Geometric Mean	0.00067	0.00081	0.0078	0.0066	329	0.000005	0.00000327	0.00049	0.00042	0.1130	0.0212	0.0168	0.0182	315	0.00084	0.00097	0.000100	0.000131	507	0.00250	0.00327				
		Count <DL	0	0	0	1	0	6	6	2	1	0	0	0	0	0	4	5	6	6	0	6	6				
		Standard Deviation	0.00019	0.00027	0.0036	0.0018	46	0.0000000	0.0000041	0.000275	0.00014	0.119	0.0404	0.0231	0.0236	45	0.00205	0.00197	0.000000	0.000163	110	0	0.00408				
		1st Quartile	0.00056	0.00060	0.0069	0.0056	321	<0.000010	<0.0000050	0.000322	0.000350	0.061	0.01350	0.0076	0.0091	286	<0.0010	<0.0010	<0.00020	<0.00020	448	<0.0050	<0.0050				
		Median	0.00066	0.00085	0.0075	0.0068	343	<0.000010	<0.0000050	0.000585	0.00044	0.108	0.0158	0.0136	0.0142	306	<0.0010	<0.0010	<0.00020	<0.00020	524	<0.0050	<0.0050				
	3rd Quartile	0.00086	0.00104	0.0087	0.0074	370	<0.000010	<0.0000050	0.000638	0.000560	0.1700	0.0179	0.0403	0.0438	339	0.00088	0.002	<0.00020	<0.00020	593	<0.0050	<0.0050					
MQL1	Middle Quinsam Lake 1 metre below surface	Average	0.00016	0.0001800	0.0177	0.0145	35.0	0.000005	0.0000025	0.000693	0.00061	0.037	0.0238	0.0071	0.00278	37	0.0005	0.0005	0.0001	0.0001	29.4	0.0025	0.0025	0.00333	0.00376	0.0100	0.02130
E206618		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	14	15	15
		Minimum	0.00012	0.00014	0.0126	0.0093	29.7	<0.000010	<0.0000050	<0.00050	0.00047	0.023	0.0152	0.0045	<0.0010	26.1	<0.0010	<0.0010	<0.00020	<0.00020	15.6	<0.0050	<0.0050	<0.0020	<0.0020	<0.020	<0.020
		Maximum	0.0002	0.00023	0.0293	0.0206	41.3	<0.000010	<0.0000050	0.00153	0.00128	0.05	0.0302	0.0099	0.0084	51.3	<0.0010	<0.0010	<0.00020	<0.00020	49.1	<0.0050	<0.0050	0.0079	0.0072	<0.020	0.18
		Geometric Mean	0.00016	0.00018	0.0173	0.0142	34.8	0.000005	0.0000025	0.000653	0.00059	0.037	0.0234	0.0069	0.00145	36.3	0.0005	0.0005	0.0001	0.00010000	28	0.0025	0.0025	0.00292	0.00327	0.01	0.0121
		Count <DL	0	0	0	0	0	15	15	1	0	0	0	0	7	0	15	15	15	15	0	15	15	2	6	15	14
		Standard Deviation	0.00003	0.00003	0.0043	0.003	3.6	0	0	0.000265	0.0002	0.009	0.0039	0.0016	0.00312	7.6	0	0	0	0	9.6	0	0	0.00173	0.00179	0	0.04390
		1st Quartile	0.00014	0.00016	0.0151	0.0119	32.1	<0.000010	<0.0000050	0.0006	0.000520	0.032	0.0226	0.0062	<0.0010	32.4	<0.0010	<0.0010	<0.00020	<0.00020	23.4	<0.0050	<0.0050	0.0025	0.00235	<0.020	<0.020
		Median	0.00016	0.0001700	0.0170	0.0156	34.7	<0.000010	<0.0000050	0.000630	0.00053	0.035	0.0237	0.0069	0.00120	35.3	<0.0010	<0.0010	<0.00020	<0.00020	27.20	<0.0050	<0.0050	0.0032	0.00385	<0.020	<0.020
	3rd Quartile	0.00018	0.0002	0.0198	0.016	37.4	<0.000010	<0.0000050	0.000745	0.00062	0.044	0.0264	0.0082	0.00515	40.9	<0.0010	<0.0010	<0.00020	<0.00020	33.5	<0.0050	<0.0050	0.0036	<0.010	<0.020	<0.020	
MQLB	Middle Quinsam Lake 1 metre from bottom	Average	0.000108	0.000121	0.0123	0.0088	38.44	0.000005	0.0000025	0.00067	0.00056	0.042	0.0193	0.0859	0.0827	47.2	0.0005	0.0005	0.0001	0.0001	41.5	0.002500	0.0025	0.00440	0.00334	0.0100	0.0247
E206618		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	14	15	15
		Minimum	<0.00010	<0.00010	0.0054	0.0041	<1.0	<0.000010	<0.0000050	0.00056	0.00048	0.0180	0.0093	0.0028	<0.0010	35.5	<0.0010	<0.0010	<0.00020	<0.00020	26.7	<0.0050	<0.0050	0.0025	<0.0020	<0.020	<0.020
		Maximum	0.00014	0.00016	0.0308	0.0121	52.2	<0.000010	<0.0000050	0.00085	0.00088	0.124	0.0359	0.634	0.63	53.1	<0.0010	<0.0010	<0.00020	<0.00020	49.3	<0.0050	<0.0050	0.0096	0.005	<0.020	0.13
		Geometric Mean	0.000102	0.000115	0.011	0.0085	30.43	0.000005	0.0000025	0.00066	0.000550	0.035	0.0175	0.0131	0.00429	46.8	0.0005	0.0005	0.0001	0.0001	40.8	0.0025	0.0025	0.00410	0.00294	0.01	0.0139
		Count <DL	3	2	0	0	1	15	15	0	0	0	0	0	3	0	15	15	15	15	0	15	15	0	6	15	13
		Standard Deviation	0.000032	0.000034	0.0065	0.0024	11.77	0	0	0.00009	0.0001	0.032	0.0089	0.2067	0.21073	5.5	0	0	0	0.00000000	7.8	0	0	0.00180	0.00152	0	0.0389
		1st Quartile	0.00011	0.00011	0.0074	0.00660	36.5	<0.000010	<0.0000050	0.00058	0.0005	0.025	0.0116	0.0068	0.0012	45.6	<0.0010	<0.0010	<0.00020	<0.00020	35.4	<0.0050	<0.0050	0.0034	0.00225	<0.020	<0.020
		Median	0.00012	0.0001300	0.0109	0.0098	41	<0.000010	<0.0000050	0.00067	0.000540	0.027	0.0161	0.0089	0.003	48.2	<0.0010	<0.0010	<0.00020	<0.00020	45	<0.0050	<0.0050	0.0039	0.00315	<0.020	<0.020
	3rd Quartile	0.00013	0.00014	0.0145	0.0106	42.6	<0.000010	<0.0000050	0.00071	0.00056	0.048	0.0266	0.0107	0.0062	51.4	<0.0010	<0.0010	<0.00020	<0.00020	47.2	<0.0050	<0.0050	0.0046	<0.010	<0.020	<0.020	
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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EMS. ID		Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
NNL1			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E217018	No Name Lake 1 metre below surface	Average	0.00032	0.000340	0.0322	0.0284	11.23	0.000005	0.0000025	0.000694	0.00059	0.07	0.0511	0.0063	0.00490	14.8	0.0005	0.0005	0.0001	0.0001	1.81	0.0025	0.0025	0.00418	0.00466	0.0847	0.010
		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	15	15	15
		Minimum	0.00024	0.00025	0.0127	0.0118	<1.0	<0.000010	<0.0000050	<0.00050	0.00039	0.049	0.0365	0.0028	0.0012	13.3	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050	<0.0020	<0.0020	<0.020	<0.020
		Maximum	0.00043	0.00043	0.0645	0.0536	16.2	<0.000010	<0.0000050	0.0012	0.00115	0.11	0.0775	0.0146	0.0138	16.7	<0.0010	<0.0010	<0.00020	<0.00020	3.5	<0.0050	<0.0050	0.0069	0.0125	1.130	<0.020
		Geometric Mean	0.00031	0.00034	0.0281	0.0257	9.42	0.00000500	0.0000025	0.000656	0.00057	0.068	0.0497	0.00580	0.004	14.8	0.0005	0.0005	0.0001	0.0001	1.68	0.0025	0.0025	0.00380	0.00413	0.0137	0.01
		Count <DL	0	0	0	0	1	15	15	1	0	0	0	0	0	0	15	15	15	15	1	15	15	1	6	14	15
		Standard Deviation	0.000060	0.00005	0.0161	0.0124	4.0	0	0	0.000239	0.00018	0.019	0.0128	0.0032	0.0034	1	0	0	0.00000000	0	0.67	0	0	0.00161	0.00250	0.2892	0.000
		1st Quartile	0.00027	0.0003	0.0155	0.0169	10.25	<0.000010	<0.0000050	0.00059	0.0005	0.055	0.0411	0.0048	0.00290	14	<0.0010	<0.0010	<0.00020	<0.00020	1.45	<0.0050	<0.0050	0.003	0.00365	<0.020	<0.020
		Median	0.00031	0.000340	0.0319	0.0288	12.1	<0.000010	<0.0000050	0.00066	0.00056	0.07	0.0475	0.00540	0.00380	14.9	<0.0010	<0.0010	<0.00020	<0.00020	1.80	<0.0050	<0.0050	0.0043	<0.010	<0.020	<0.020
		3rd Quartile	0.00036	0.00038	0.0428	0.0357	13.45	<0.000010	<0.0000050	0.00071	0.00062	0.079	0.0592	0.006	0.00580	15.3	<0.0010	<0.0010	<0.00020	<0.00020	2.05	<0.0050	<0.0050	0.0054	<0.010	<0.020	<0.020
NNLB	No Name Lake 1 metre from bottom	Average	0.00021	0.00025	0.0403	0.0344	11.3	0.000005	0.0000025	0.0007	0.00054	0.144	0.0854	0.0295	0.0259	15.5	0.0005	0.0005	0.0001	0.0001	4.4	0.0025	0.002500	0.00480	0.00430	0.0409	0.0182
E217018		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	15	15	15
		Minimum	0.00017	0.00022	0.0327	0.0256	9.4	<0.000010	<0.0000050	0.00051	0.00038	0.114	0.0668	0.015	0.0134	13.7	<0.0010	<0.0010	<0.00020	<0.00020	1	<0.0050	<0.0050	0.0034	0.0026	<0.020	<0.020
		Maximum	0.00028	0.00033	0.0566	0.047	13.6	<0.000010	<0.0000050	0.00103	0.00092	0.216	0.112	0.0774	0.0698	16.8	<0.0010	<0.0010	<0.00020	<0.00020	5.9	<0.0050	<0.0050	0.0066	0.0065	0.051	0.090
		Geometric Mean	0.00021	0.000250	0.0397	0.0339	11.2	0.000005	0.0000025	0.00067	0.00053	0.141	0.0847	0.0239	0.0205	15.5	0.0005000	0.0005	0.0001	0.0001	4.1	0.0025	0.0025	0.00470	0.00420	0.0386	0.0135
		Count <DL	0	0	0	0	0	15	15	0	0	0	0	0	0	0	15	15	15	15	0	15	15	0	5	1	12
		Standard Deviation	0.00003	0.00003	0.0074	0.0063	1.3	0	0	0.00019	0.00014	0.032	0.0117	0.0239	0.0219	0.7	0	0.0000000	0	0	1.4	0	0.000000	0.00090	0.00100	0.011	0.0212
		1st Quartile	0.00018	0.00023	0.034	0.0301	10.6	<0.000010	<0.0000050	0.00054	0.00043	0.124	0.0774	0.0169	0.0139	15.2	<0.0010	<0.0010	<0.00020	<0.00020	4.4	<0.0050	<0.0050	0.0038	0.0036	0.037	<0.020
		Median	0.0002	0.00025	0.037	0.0330	11.2	<0.000010	<0.0000050	0.000600	0.00049	0.135	0.0833	0.0189	0.0158	15.6	<0.0010	<0.0010	<0.00020	<0.00020	4.8	<0.0050	<0.0050	0.005	0.0042	0.045	<0.020
		3rd Quartile	0.00022	0.00026	0.044	0.0369	12.0	<0.000010	<0.0000050	0.000840	0.00062	0.147	0.0905	0.0215	0.019	15.8	<0.0010	<0.0010	<0.00020	<0.00020	5.2	<0.0050	<0.0050	0.0051	<0.010	0.0485	<0.020
NNO	No Name Lake Outlet	Average	0.00031	0.00032	0.0359	0.0288	13.7	0.000005	0.0000032	0.000709	0.0006	0.075	0.0522	0.0117	0.0135	14.7	0.0005	0.00050	0.000100	0.000100	1.94	0.0025	0.0025				
E217017		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15				
		Minimum	0.00019	0.00021	0.0112	0.0081	8.6	<0.000010	<0.0000050	<0.00050	0.00027	0.048	0.0393	0.004	0.0029	12	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050				
		Maximum	0.00041	0.00042	0.0551	0.044	22	<0.000010	0.0000070	0.00141	0.00103	0.161	0.075	0.0408	0.086	19.2	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050				
		Geometric Mean	0.0003	0.00031	0.0321	0.0254	13.4	0.000005	0.00000297	0.000615	0.00057	0.071	0.051	0.0089	0.0073	14.6	0.0005	0.00050	0.000100	0.000100	1.82	0.0025	0.0025				
		Count <DL	0	0	0	0	0	15	12	3	0	0	0	0	0	0	15	15	15	15	1	15	15				
		Standard Deviation	0.00007	0.00007	0.0147	0.0125	3.2	0	0.0000015	0.000373	0.0002	0.0290	0.0118	0.0109	0.022	1.9	0	0.00000	0.000000	0.000000	0.56	0	0				
		1st Quartile	0.00025	0.00026	0.0276	0.0162	11.6	<0.000010	<0.0000050	0.000505	0.00046	0.056	0.0422	0.0055	0.004	13.4	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050				
		Median	0.00032	0.00034	0.0397	0.0328	14.5	<0.000010	<0.0000050	0.00065	0.00063	0.066	0.0497	0.0068	0.0056	14.9	<0.0010	<0.0010	<0.00020	<0.00020	2.00	<0.0050	<0.0050				
		3rd Quartile	0.00035	0.00037	0.0438	0.0387	15	<0.000010	<0.0000050	0.00094	0.00071	0.079	0.0598	0.0114	0.0076	15.4	<0.0010	<0.0010	<0.00020	<0.00020	2.2	<0.0050	<0.0050				
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2018 -19 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
LLS	Small Seep into Long Lake	Average	0.00161	0.00223	0.0324	0.00406	223	0.00002050	0.00000387	0.000764	0.000248	0.808	0.49620	0.375	0.357	577	0.00345	0.0032	0.000138	0.0001	534	0.00489	0.00284				
E292131		Count	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13				
		Minimum	0.00062	0.00087	<0.0030	<0.0030	142	<0.000010	<0.0000050	<0.00050	<0.00020	0.167	0.0373	0.155	0.151	505	0.0015	0.0015	<0.00020	<0.00020	376	<0.0050	<0.0050				
		Maximum	0.00385	0.00649	0.267	0.0142	255	0.000134	0.00001	0.00401	0.00065	2.77	1.44	0.546	0.508	649	0.0095	0.008	<0.0010	<0.00020	640	0.0163	0.0069				
		Geometric Mean	0.0014	0.00188	0.01052	0.00292	220	0.0000095	0.0000034	0.000494	0.000205	0.591	0.297	0.362	0.342	575	0.00295	0.0028	0.000119	0.0001	530	0.00374	0.0027				
		Count <DL	0	0	2	6	0	10	9	8	5	0	0	0	0	0	1	0	13	13	0	11	12				
		Standard Deviation	0.00096	0.00156	0.07143	0.00409	34	0.0000361	0.00000237	0.001026	0.000162	0.721	0.4623	0.094	0.096	46	0.00232	0.002	0.000112	0.000000	71	0.00452	0.00122				
		1st Quartile	0.00088	0.00126	0.0045	<0.0030	203	<0.000010	<0.0000050	<0.00050	<0.00020	0.371	0.16	0.339	0.298	550	0.0021	0.002	<0.00020	<0.00020	491	<0.0050	<0.0050				
		Median	0.00139	0.00169	0.0080	0.0033	238	<0.000010	<0.0000050	<0.0010	0.000210	0.498	0.373	0.378	0.365	577	0.0023	0.0021	<0.00020	<0.00020	546	<0.0050	<0.0050				
		3rd Quartile	0.00177	0.00281	0.0243	0.0035	245	0.000018	0.0000058	0.00063	0.000340	1.13	0.52600	0.419	0.429	609	0.0038	0.0035	<0.00020	<0.00020	579	<0.010	<0.0050				
LLSM	Long Lake Middle Seep	Average	0.00056	0.00075	0.0543	0.00635	197	0.000005	0.00000433	0.000837	0.000496	0.432	0.21470	0.1953	0.1964	505	0.003	0.003	0.0001	0.0001	458	0.0025	0.0025				
E292131		Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
		Minimum	0.00026	0.00038	<0.0030	<0.0030	120	<0.000010	<0.0000050	<0.00050	<0.00020	0.132	0.0265	0.0742	0.0471	362	0.0012	0.0012	<0.00020	<0.00020	325	<0.0050	<0.0050				
		Maximum	0.00083	0.00130	0.186	0.0171	244	<0.000010	0.000009	0.00242	0.00159	1.03	0.483	0.348	0.339	573	0.0061	0.0062	<0.00020	<0.00020	545	<0.0050	<0.0050				
		Geometric Mean	0.00054	0.00071	0.01521	0.00377	192	0.000005	0.00000377	0.000564	0.00032	0.375	0.1499	0.1752	0.1709	501	0.0026	0.0027	0.000100	0.0001	453	0.0025	0.00250				
		Count <DL	0	0	2	5	0	10	6	5	3	0	0	0	0	0	0	0	10	10	0	10	10				
		Standard Deviation	0.00017	0.00025	0.07250	0.00654	47	0	0.00000251	0.000786	0.00048	0.248	0.16180	0.0924	0.0968	65	0.0015	0.0015	0	0	70	0	0				
		1st Quartile	0.0005	0.00059	0.00352	<0.0030	159	<0.000010	<0.0000050	<0.00050	0.00013	0.294	0.08190	0.1342	0.1405	472	0.0018	0.0019	<0.00020	<0.00020	418	<0.0050	<0.0050				
		Median	0.00056	0.00074	0.01515	0.00235	220	<0.000010	<0.0000050	0.00044	0.00030	0.434	0.17750	0.169	0.1760	535	0.003	0.0027	<0.00020	<0.00020	451	<0.0050	<0.0050				
		3rd Quartile	0.00062	0.00086	0.07505	0.01048	235	<0.000010	0.00000648	0.001135	0.000705	0.489	0.3113	0.2635	0.2785	547	0.0034	0.0034	<0.00020	<0.00020	518	<0.0050	<0.0050				
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2018 -19 Statistics Stn.Code																													
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3		
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average	0.00125	0.0017	0.01230	0.0085	249.7	0.0000100	0.0000281	0.00050	0.000533	4.04	3.36	1.31	1.63	1220	0.0065	0.0044	0.000200	0.000450	1295	0.00500	0.0197	0.00570	0.00560	0.01	0.44		
		Count	6	1	1	6	6	1	6	1	6	1	6	1	6	1	1	6	1	6	6	1	6	1	6	1	1		
		Minimum	0.00088	0.0017	0.0123	<0.0060	239	<0.000020	<0.000010	<0.0010	<0.00040	4.04	2.61	1.31	1.3	1220	0.0065	0.002	<0.00040	<0.00040	1240	<0.010	<0.010	0.0057	0.0032	<0.020	0.44		
		Maximum	0.00186	0.0017	0.0123	0.018	271	<0.000020	0.000096	<0.0010	0.001	4.04	4.2	1.31	1.83	1220	0.0065	0.0142	<0.00040	<0.0010	1340	<0.010	0.063	0.0057	0.0106	<0.020	0.44		
		Geometric Mean	0.00121	0.0017	0.01230	0.00745	249.4	0.0000100	0.0000174	0.00050	0.000482	4.04	3.32	1.31	1.62	1220	0.0065	0.0032	0.000200	0.000429	1294	0.00500	0.014	0.0057	0.0052	0.01	0.44		
		Count <DL	0	0	0	5	0	1	4	1	5	0	0	0	0	0	0	0	4	1	6	0	1	5	0	0	1	0	
		Standard Deviation	0.00033	0	0.00000	0.00499	12.2	0.0000000	0.0000343	0.00000	0.000258	0	0.55	0.00	0.2	0	0	0.00482	0.000000	0.000122	38	0.00000	0.0214	0.00000	0.0027	0	0		
		1st Quartile	0.00112	0.0017	0.0123	<0.015	241.8	<0.000020	<0.000025	<0.0010	<0.0010	4.04	3.03	1.31	1.55	1220	0.0065	<0.0050	<0.00040	<0.0010	1280	<0.010	<0.025	0.0057	0.0039	<0.020	0.44		
		Median	0.00114	0.0017	0.0123	<0.015	245	<0.000020	<0.000025	<0.0010	<0.0010	4.04	3.46	1.31	1.7	1220	0.0065	<0.0050	<0.00040	<0.0010	1285	<0.010	<0.025	0.0057	0.005	<0.020	0.44		
		3rd Quartile	0.0013	0.0017	0.0123	<0.015	254.2	<0.000020	0.0000256	<0.0010	<0.0010	4.04	3.52	1.31	1.75	1220	0.0065	<0.0050	<0.00040	<0.0010	1327	<0.010	<0.025	0.00570	0.00610	<0.020	0.44		
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	0.0954			0.00150	173.3		0.0000025		0.000100		0.620		0.0834			0.000500		0.0001000	87.1		0.00250		0.0149		0.110		
		Count	3			3	3		3		3		3		3			3		3	3		3		3		1		
		Minimum	0.0883			<0.0030	158		<0.0000050		<0.00020		0.434		0.0618			<0.0010		<0.00020	80.1		<0.0050		0.01		0.110		
		Maximum	0.101			<0.0030	185		<0.0000050		<0.00020		0.724		0.111			<0.0010		<0.00020	99.9		<0.0050		0.0227		0.110		
		Geometric Mean	0.0953			0.0015	173		0.0000025		0.000100		0.604		0.081			0.000500		0.0001000	86.7		0.00250		0.0140		0.110		
		Count <DL	0			3	0		3		3		0		0			3		3	0		3		0		0		
		Standard Deviation	0.007			0	13.9		0.0000000		0.000000		0.161		0.0251			0.000000		0.0000000	11.1		0.00000		0.0068		0.000		
		1st Quartile	0.0927			<0.0030	167.5		<0.0000050		<0.00020		0.568		0.0696			<0.0010		<0.00020	80.8		<0.0050		0.011		0.110		
		Median	0.097			<0.0030	177		<0.0000050		<0.00020		0.701		0.0774			<0.0010		<0.00020	81.4		<0.0050		0.012		0.110		
		3rd Quartile	0.099			<0.0030	181		<0.0000050		<0.00020		0.712		0.0942			<0.0010		<0.00020	90.6		<0.0050		0.0174		0.110		
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	0.0758			0.00150	143.5		0.0000025		0.000200		4.67		0.36			0.000500		0.0001000	116.5		0.00250		0.0151				
		Count	2			2	2		2		2		2		2			2		2	2		2		2				
		Minimum	0.073			<0.0030	130		<0.0000050		<0.00020		4.57		0.353			<0.0010		<0.00020	109		<0.0050		0.0089				
		Maximum	0.0787			<0.0030	157		<0.0000050		0.0003		4.77		0.368			<0.0010		<0.00020	124		<0.0050		0.0213				
		Geometric Mean	0.0758			0.0015	142.9		0.0000025		0.000173		4.67		0.36			0.0005		0.0001000	116.3		0.00250		0.0138				
		Count <DL	0			2	0		2		1		0		0			2		2	0		2		0				
		Standard Deviation	0.004			0	19.1		0.0000000		0.000141		0.14		0.011			0		0.0000000	10.6		0.00000		0.0088				
		1st Quartile	0.0744			<0.0030	136.8		<0.0000050		0.00015		4.62		0.357			<0.0010		<0.00020	112.8		<0.0050		0.012				
		Median	0.0758			<0.0030	143.5		<0.0000050		0.0002		4.67		0.36			<0.0010		<0.00020	116.5		<0.0050		0.0151				
		3rd Quartile	0.0773			<0.0030	150.2		<0.0000050		0.00025		4.72		0.364			<0.0010		<0.00020	120.2		<0.0050		0.0182				
Notes: Factor applied to less-than results when calculating statistics: 0.5																													

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2018 -19 Statistics Stn.Code		Site Name & Description	Statistics	2018 -19 Statistics																							
EMS. ID	As-T			As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
SPD	Settling Pond # 1																										
E218582		Average	0.00096	0.00129	0.0564	0.01979	67.70	0.0000079	0.00000609	0.001126	0.00067	0.398	0.1153	0.0922	0.07257	316	0.00177	0.00166	0.000114	0.000100	196.8	0.00320	0.0031	0.0059	0.0015	0.0100	0.022
		Count	7	7	7	7	11	7	7	7	7	7	7	7	7	7	7	7	7	7	37	7	7	3	1	2	2
		Minimum	0.00032	0.00041	0.008	<0.0030	38.30	<0.000010	<0.0000050	<0.00050	0.00045	0.115	0.0082	0.0183	<0.0010	152	<0.0010	<0.0010	<0.00020	<0.00020	25.1	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.020
		Maximum	0.00333	0.00357	0.138	0.0556	99.5	0.000025	0.000020	0.00255	0.00105	0.962	0.238	0.349	0.31	401	0.007	0.0067	0.0002	<0.00020	368	0.0074	0.0067	0.0138	<0.0030	<0.020	0.034
		Geometric Mean	0.00068	0.00096	0.0377	0.01152	64.1	0.0000063	0.0000041	0.000868	0.00064	0.314	0.0715	0.0574	0.02425	302	0.00103	0.00091	0.00011	0.000100	158.20	0.00292	0.00288	0.00368	0.00150	0.0100	0.0184
		Count <DL	0	0	0	1	0	6	5	1	0	0	0	0	1	0	4	5	6	7	0	6	6	1	1	2	1
		Standard Deviation	0.00107	0.00114	0.0449	0.01951	22.4	0.0000076	0.00000681	0.000846	0.00021	0.294	0.0913	0.1162	0.1082	92.0	0.00239	0.00233	0.000038	0.000000	109.9	0.00185	0.00159	0.00686	0	0	0.017
		1st Quartile	0.00043	0.00052	0.0243	0.00585	48.6	<0.000010	<0.0000050	0.0006	0.00052	0.194	0.0414	0.0313	0.01525	283	<0.0010	<0.0010	<0.00020	<0.00020	92.4	<0.0050	<0.0050	0.00195	<0.0030	<0.020	0.016
		Median	0.00055	0.00081	0.055	0.0128	74.4	<0.000010	<0.0000050	0.00065	0.00065	0.347	0.127	0.0481	0.035	345	<0.0010	<0.0010	<0.00020	<0.00020	217.00	<0.0050	<0.0050	0.0024	<0.0030	<0.020	0.02200
	3rd Quartile	0.00082	0.0016	0.0725	0.02845	85.6	<0.000010	0.00000620	0.001615	0.00074	0.485	0.1755	0.0838	0.066	376	0.0017	0.00145	<0.00020	<0.00020	293	<0.0050	<0.0050	0.00810	<0.0030	<0.020	0.02800	
LLE	Long Lake Entrance (LLE)	Average	0.00085	0.00103	0.1098	0.03650	50.97	0.00000700	0.00000400	0.000835	0.00054	0.576	0.339	0.127	0.1314	215.6	0.00070	0.0005	0.00014	0.000116	204.2	0.0035	0.00250	0.0086	0.0015	0.0484	0.02190
E292130		Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	44	10	10	10	1	10	10
		Minimum	0.00046	0.00051	<0.015	<0.0030	<1.0	<0.000010	<0.0000050	<0.00050	0.00035	0.159	0.0665	0.0075	0.0073	87.8	<0.0010	<0.0010	<0.00020	<0.00020	44.3	<0.0050	<0.0050	0.0036	<0.0030	<0.020	<0.015
		Maximum	0.0013	0.00172	0.336	0.0682	110	<0.000050	0.0000084	0.00209	0.00117	1.93	0.869	0.501	0.488	601	<0.0050	<0.0010	<0.0010	0.00026	631	<0.025	<0.0050	0.0207	<0.0030	0.129	0.0550
		Geometric Mean	0.0008	0.00094	0.0802	0.02126	30.86	0.0000059	0.00000358	0.000694	0.0005	0.405	0.2520	0.0653	0.0671	168.7	0.00059	0.0005	0.000117	0.000110	157.9	0.00294	0.00250	0.0075	0.0015	0.0299	0.0171
		Count <DL	0	0	1	1	1	10	6	3	0	0	0	0	0	0	10	10	10	9	0	10	10	0	1	4	5
		Standard Deviation	0.00031	0.00045	0.0873	0.02538	36.3	0.0000063	0.00000212	0.000538	0.00026	0.568	0.2796	0.1608	0.1624	177.2	0.00063	0	0.000126	0.000051	164	0.00316	0.00000	0.0053	0	0.0453	0.0164
		1st Quartile	0.00064	0.00064	0.0695	0.01165	29.1	<0.000010	<0.0000050	0.000572	0.00038	0.222	0.134	0.0364	0.0369	100.1	<0.0010	<0.0010	<0.00020	<0.00020	97.1	<0.0050	<0.0050	0.0051	<0.0030	<0.020	<0.020
		Median	0.00076	0.00092	0.103	0.04255	39.6	<0.000010	<0.0000050	0.00076	0.00045	0.312	0.270	0.0634	0.0699	132	<0.0010	<0.0010	<0.00020	<0.00020	134.5	<0.0050	<0.0050	0.0076	<0.0030	0.027	0.016
		3rd Quartile	0.00113	0.00142	0.1118	0.05198	78.65	<0.000010	0.00000545	0.000942	0.0006	0.84	0.3675	0.119	0.1256	279.2	<0.0010	<0.0010	<0.00020	<0.00020	269.5	<0.0050	<0.0050	0.00970	<0.0030	0.0870	0.02920
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2018 -19 Statistics Stn.Code EMS. ID		Site Name & Description	Statistics	2018 -19 Statistics																							
				As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LLM1		Average	0.000481	0.00053	0.021	0.0175	33.6	0.00000500	0.00000317	0.000658	0.00050	0.05	0.0318	0.0089	0.00505	79.7	0.00050	0.00063	0.000100	0.000127	64.1	0.00250	0.00317	0.00384	0.00491	0.0113	0.0177
E206619		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15
		Minimum	<0.00050	0.00039	0.0083	0.0081	20.7	<0.000010	<0.0000050	<0.00050	0.00027	0.012	0.0118	0.0036	<0.0010	41.7	<0.0010	<0.0010	<0.00020	<0.00020	25.8	<0.0050	<0.0050	<0.0020	<0.0020	<0.020	<0.020
		Maximum	0.00064	0.00066	0.0449	0.037	44	<0.000010	<0.000025	0.00164	0.00088	0.119	0.0703	0.0150	0.0127	112	<0.0010	<0.0050	<0.00020	<0.0010	99.7	<0.0050	<0.025	0.0067	<0.050	0.029	0.056
		Geometric Mean	0.00047	0.00052	0.0188	0.0156	32.6	0.000005	0.00000278	0.00056	0.00048	0.04	0.0271	0.0082	0.0033	76.3	0.00050	0.00056	0.000100	0.000111	59	0.0025	0.00278	0.00341	0.00358	0.0107	0.0141
		Count <DL	1	0	0	0	0	15	15	4	1	0	0	0	2	0	15	15	15	15	0	15	15	1	7	14	11
		Standard Deviation	0.000102	0.00008	0.0102	0.0091	8.2	0.00000000	0.00000258	0.000398	0.00017	0.032	0.0182	0.0035	0.00405	23.3	0.00000	0.00052	0.000000	0.000103	25.9	0	0.00258	0.00183	0.00572	0.0049	0.0152
		1st Quartile	0.00042	0.00049	0.0144	0.0099	27	<0.000010	<0.0000050	0.00039	0.00039	0.023	0.0168	0.0064	0.00135	65	<0.0010	<0.0010	<0.00020	<0.00020	41.6	<0.0050	<0.0050	0.0025	0.0029	<0.020	<0.020
		Median	0.00046	0.0005	0.0188	0.0155	34.1	<0.000010	<0.0000050	0.00056	0.00048	0.047	0.0311	0.0085	0.004	76.9	<0.0010	<0.0010	<0.00020	<0.00020	56.4	<0.0050	<0.0050	0.0035	0.0034	<0.020	<0.020
		3rd Quartile	0.000545	0.00059	0.0253	0.0206	42	<0.000010	<0.0000050	0.0008	0.00059	0.0600	0.035	0.0116	0.00755	104.5	<0.0010	<0.0010	<0.00020	<0.00020	92.2	<0.0050	<0.0050	0.0048	<0.010	<0.020	0.015
LLMB		Average	0.0002	0.00024	0.0136	0.0094	56.8	0.00000500	0.00000025	0.000405	0.00047	0.037	0.01153	0.1771	0.11405	148.9	0.00050	0.00050	0.000100	0.000100	139.1	0.00250	0.00250	0.00384	0.00333	0.082	0.0147
E206619		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15
		Minimum	0.00016	0.0002	0.0064	0.0048	54	<0.000010	<0.0000050	<0.00050	0.00032	0.012	<0.0050	0.0387	<0.0010	138	<0.0010	<0.0010	<0.00020	<0.00020	129	<0.0050	<0.0050	<0.0020	<0.0020	0.049	<0.020
		Maximum	0.00023	0.0003	0.0291	0.0144	58.7	<0.000010	<0.0000050	0.00103	0.00136	0.053	0.0214	0.391	0.391	166	<0.0010	<0.0010	<0.00020	<0.00020	147	<0.0050	<0.0050	0.0085	<0.010	0.121	0.039
		Geometric Mean	0.0002	0.00024	0.0121	0.0088	56.7	0.000005	0.00000025	0.000359	0.00044	0.035	0.00915	0.1478	0.02769	148.7	0.00050	0.00050	0.000100	0.000100	139	0.00250	0.00250	0.00331	0.00298	0.078	0.0127
		Count <DL	0	0	0	0	0	15	15	9	0	0	3	0	3	0	15	15	15	15	0	15	15	2	7	0	12
		Standard Deviation	0.00002	0.00002	0.0069	0.0032	1.6	0	0	0.000229	0.00026	0.01	0.00657	0.106	0.1238	7	0.00000	0.00000	0.000000	0.000000	5.6	0	0.00000	0.00201	0.00144	0.025	0.01
		1st Quartile	0.00019	0.00023	0.0078	0.0066	55.6	<0.000010	<0.0000050	<0.00050	0.00035	0.034	0.00515	0.0915	0.0056	145	<0.0010	<0.0010	<0.00020	<0.00020	135	<0.0050	<0.0050	0.0026	0.0026	0.058	<0.020
		Median	0.0002	0.00024	0.0121	0.0093	57.1	<0.000010	<0.0000050	<0.00050	0.0004	0.037	0.01260	0.129	0.0673	148	<0.0010	<0.0010	<0.00020	<0.00020	140.0	<0.0050	<0.0050	0.00365	0.0029	0.083	<0.020
		3rd Quartile	0.00021	0.00026	0.0176	0.0121	58	<0.000010	<0.0000050	0.00055	0.00047	0.044	0.01540	0.242	0.207	152.5	<0.0010	<0.0010	<0.00020	<0.00020	143	<0.0050	<0.0050	0.00492	<0.010	0.106	<0.020
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2018 -19 Statistics Stn.Code EMS. ID	Site Name & Description	Statistics	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
LLO	Long Lake Outlet	Average	0.00048	0.00051	0.026	0.0179	32.5	0.000005	0.00000333	0.001834	0.00055	0.0550	0.0307	0.0126	0.004	73.7	0.0005	0.00050	0.000100	0.000100	54.9	0.00250	0.00316				
E219412		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	51	15	15				
		Minimum	0.00036	0.00035	0.0109	0.0054	15.9	<0.000010	<0.0000050	<0.00050	0.00033	0.012	0.0065	0.0048	0.0015	39.1	<0.0010	<0.0010	<0.00020	<0.00020	12.7	<0.0050	<0.0050				
		Maximum	0.00064	0.00066	0.0705	0.0403	43.9	<0.000010	0.000008	0.0204	0.00094	0.132	0.052	0.035	0.0085	105	<0.0010	<0.0010	<0.00020	<0.00020	110	<0.0050	0.0124				
		Geometric Mean	0.00048	0.0005	0.0221	0.0151	31.2	0.000005	0.00000303	0.000564	0.00052	0.049	0.0278	0.0106	0.0036	69.5	0.0005	0.00050	0.000100	0.000100	47.8	0.00250	0.00278				
		Count <DL	0	0	0	0	0	15	12	6	0	0	0	0	0	0	15	15	15	15	0	15	14				
		Standard Deviation	0.00009	0.00009	0.0167	0.0104	9.2	0	0.00000182	0.005145	0.00018	0.027	0.0118	0.0085	0.0019	24.7	0	0.00000	0.000000	0.000000	27.1	0	0.00256				
		1st Quartile	0.0004	0.00046	0.0143	0.0094	23.9	<0.000010	<0.0000050	<0.00050	0.00038	0.046	0.0246	0.0068	0.0028	50.6	<0.0010	<0.0010	<0.00020	<0.00020	30.8	<0.0050	<0.0050				
		Median	0.00049	0.00049	0.0181	0.0154	34.2	<0.000010	<0.0000050	0.00052	0.00053	0.052	0.031	0.009	0.0035	74.5	<0.0010	<0.0010	<0.00020	<0.00020	54.6	<0.0050	<0.0050				
		3rd Quartile	0.00054	0.00057	0.0343	0.0246	41.8	<0.000010	<0.0000050	0.00062	0.00065	0.062	0.0387	0.0150	0.0044	101	<0.0010	<0.0010	<0.00020	<0.00020	81.8	<0.0050	<0.0050				
WB	Middle Quinsam Lake Outlet	Average	0.00019	0.0002	0.0450	0.0161	35.3	0.000005	0.0000028	0.00083	0.0006	0.059	0.0262	0.0077	0.0028	36.5	0.00050	0.00050	0.000100	0.000100	29.1	0.00250	0.00250				
E0900504		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	17	15	15				
		Minimum	0.00015	0.00014	0.0134	0.0101	31	<0.000010	<0.0000050	0.00053	0.00047	0.028	0.0214	0.0048	0.0013	29.5	<0.0010	<0.0010	<0.00020	<0.00020	20.5	<0.0050	<0.0050				
		Maximum	0.00024	0.00033	0.2870	0.025	41	<0.000010	0.000007	0.00141	0.00084	0.337	0.0318	0.0126	0.006	48.1	<0.0010	<0.0010	<0.00020	<0.00020	38.5	<0.0050	<0.0050				
		Geometric Mean	0.00019	0.000200	0.0278	0.0156	35.2	0.000005	0.00000268	0.0008	0.00059	0.044	0.0260	0.0074	0.0026	36.2	0.00050	0.00050	0.000100	0.000100	28.8	0.00250	0.00250				
		Count <DL	0	0	0	0	0	15	14	0	0	0	0	0	0	0	15	15	15	15	0	15	15				
		Standard Deviation	0.00003	0.00005	0.0694	0.0039	2.3	0	0.00000116	0.00025	0.0001	0.0770	0.0033	0.0024	0.0012	5	0.00000	0.00000	0.000000	0.000000	4.4	0	0				
		1st Quartile	0.00017	0.00018	0.0173	0.0134	34	<0.000010	<0.0000050	0.00066	0.00052	0.034	0.0246	0.0055	0.002	33.8	<0.0010	<0.0010	<0.00020	<0.00020	26.9	<0.0050	<0.0050				
		Median	0.00019	0.000190	0.0195	0.0164	35	<0.000010	<0.0000050	0.00079	0.0006	0.039	0.0256	0.0079	0.0028	35.1	<0.0010	<0.0010	<0.00020	<0.00020	27.8	<0.0050	<0.0050				
		3rd Quartile	0.0002	0.000220	0.0394	0.0178	36.3	<0.000010	<0.0000050	0.00095	0.00061	0.044	0.0285	0.0088	0.0031	38	<0.0010	<0.0010	<0.00020	<0.00020	30.5	<0.0050	<0.0050				

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2018 -19 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7SSD	Settling Pond at 7S- Discharge to Stream 1 -7S																										
E292069		Average	0.00377	0.00397	0.1122	0.00906	110.4	0.000005	0.00000341	0.00173	0.00137	0.149	0.022	0.0496	0.0192	131.3	0.0005	0.00068	0.0001	0.000136	35.5	0.0025	0.00341	0.0278		0.01	0.0092
		Count	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	2		2	3
		Minimum	<0.00050	0.00098	0.011	<0.0030	51.7	<0.000010	<0.0000050	0.00071	0.00048	0.024	0.0062	0.019	0.0017	56.8	<0.0010	<0.0010	<0.00020	<0.00020	10.9	<0.0050	<0.0050	0.0238		<0.020	<0.015
		Maximum	0.0124	0.013	0.954	0.03	151	<0.000010	<0.000025	0.00274	0.00235	0.886	0.0462	0.104	0.0533	228	<0.0010	<0.0050	<0.00020	<0.0010	115	<0.0050	<0.025	0.0319		<0.020	<0.020
		Geometric Mean	0.002302	0.00275	0.0291	0.00684	106.1	0.00000500	0.00000289	0.00157	0.00123	0.074	0.017	0.0441	0.0131	123.7	0.0005	0.00058	0.000100	0.000116	27.3	0.0025	0.00289	0.0276		0.01	0.0091
		Count <DL	1	0	0	1	0	11	11	0	0	0	0	0	0	0	11	11	11	11	0	11	11	0		2	3
		Standard Deviation	0.003742	0.00383	0.2808	0.00791	30.5	0	0.00000302	0.00075	0.00062	0.252	0.0156	0.026	0.0166	46.3	0	0.0006	0	0.000121	30.9	0	0.00302	0.0057		0	0.0014
		1st Quartile	0.0011	0.00125	0.014	0.0044	93	<0.000010	<0.0000050	0.00113	0.00087	0.032	0.0085	0.031	0.0086	103.2	<0.0010	<0.0010	<0.00020	<0.00020	14	<0.0050	<0.0050	0.0258		<0.020	0.0088
		Median	0.00315	0.00313	0.0159	0.0067	108	<0.000010	<0.0000050	0.00167	0.00119	0.075	0.016	0.0416	0.012	132	<0.0010	<0.0010	<0.00020	<0.00020	27.7	<0.0050	<0.0050	0.0278		<0.020	<0.020
	3rd Quartile	0.0044	0.00435	0.032	0.0099	135.5	<0.000010	<0.0000050	0.00233	0.00181	0.103	0.037	0.0624	0.0264	154.5	<0.0010	<0.0010	<0.00020	<0.00020	34.2	<0.0050	<0.0050	0.0299		<0.020	<0.020	
7S	Stream 1-7S discharge to LWO	Average	0.000075	0.000116	0.0892	0.0262	25.1	0.000005	0.00000356	0.000486	0.00044	0.0558	0.00549	0.00244	0.0005	16.5	0.00050	0.00050	0.000100	0.000100	4.000	0.00250	0.00250				
E292109		Count	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
		Minimum	<0.00010	<0.00010	0.0195	0.0159	10.4	<0.000010	<0.0000050	<0.00050	<0.00020	<0.010	<0.0050	<0.0010	<0.0010	13.2	<0.0010	<0.0010	<0.00020	<0.00020	3	<0.0050	<0.0050				
		Maximum	0.00013	0.0004	0.514	0.033	93.1	<0.000010	0.000011	0.00137	0.00059	0.411	0.008	0.016	<0.0010	23.5	<0.0010	<0.0010	<0.00020	<0.00020	4.80	<0.0050	<0.0050				
		Geometric Mean	0.000069	0.000087	0.0404	0.0254	18.4	0.000005	0.00000301	0.000389	0.000392	0.0087	0.00504	0.00077	0.0005	16.2	0.00050	0.00050	0.000100	0.000100	3.9	0.00250	0.00250				
		Count <DL	5	4	0	0	0	8	7	5	1	7	2	7	8	0	8	8	8	8	0	8	8				
		Standard Deviation	0.000035	0.000118	0.1717	0.0065	28	0	0.00000301	0.000401	0.000167	0.1435	0.00215	0.00548	0	3.8	0.00000	0.00000	0.000000	0.000000	0.6	0	0				
		1st Quartile	<0.00010	<0.00010	0.0263	0.0233	11.2	<0.000010	<0.0000050	<0.00050	0.00038	<0.010	0.00438	<0.0010	<0.0010	14	<0.0010	<0.0010	<0.00020	<0.00020	3.6	<0.0050	<0.0050				
		Median	<0.00010	0.00008	0.0292	0.0284	14.2	<0.000010	<0.0000050	<0.00050	0.00049	<0.010	0.00565	<0.0010	<0.0010	14.8	<0.0010	<0.0010	<0.00020	<0.00020	4	<0.0050	<0.0050				
		3rd Quartile	0.00011	0.00011	0.0348	0.0305	23	<0.000010	<0.0000050	0.000582	0.000562	<0.010	0.007	<0.0010	<0.0010	17.9	<0.0010	<0.0010	<0.00020	<0.00020	4.3	<0.0050	<0.0050				
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU0813A	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (No. 4 Seam)	Average	0.398			0.0015	180.5		0.0000025		0.000100		0.198		0.0451			0.000500		0.0001000	31.7		0.00250		0.0712			
		Count	4			4	4		4		4		4		4			4		4	4		4		4			
		Minimum	0.368			<0.0030	178		<0.0000050		<0.00020		0.171		0.0387			<0.0010		<0.00020	27.5		<0.0050		0.044			
		Maximum	0.42			<0.0030	182		<0.0000050		<0.00020		0.217		0.0513			<0.0010		<0.00020	37		<0.0050		0.0826			
		Geometric Mean	0.398			0.0015	180.5		0.0000025		0.000100		0.198		0.0448			0.000500		0.0001000	31.5		0.00250		0.0690			
		Count <DL	0			4	0		4		4		0		0			4		4	0		4		0			
		Standard Deviation	0.023			0	1.7		0		0.000000		0.020		0.0055			0.000000		0.0000000	4		0.00000		0.0182			
		1st Quartile	0.388			<0.0030	180.2		<0.0000050		<0.00020		0.19		0.0418			<0.0010		<0.00020	29.4		<0.0050		0.0691			
		Median	0.402			<0.0030	181		<0.0000050		<0.00020		0.203		0.0451			<0.0010		<0.00020	31.2		<0.0050		0.079			
		3rd Quartile	0.413			<0.0030	181.2		<0.0000050		<0.00020		0.211		0.0484			<0.0010		<0.00020	33.5		<0.0050		0.081			
QU0813B	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (Till & SST contact)	Average	0.33622			0.0039	123.7		0.0000033		0.000300		0.13383		0.0874			0.000700		0.0001000	58.9		0.00250		0.0763			
		Count	3			3	3		3		3		3		3			3		3	3		3		3			
		Minimum	0.00067			0.003	122		<0.0000050		<0.00020		<0.0050		0.0773			<0.0010		<0.00020	42.3		<0.0050		0.022			
		Maximum	0.509			0.0049	125		0.000005		0.0007		0.272		0.0956			0.0011		<0.00020	91.9		<0.0050		0.141			
		Geometric Mean	0.05542			0.0039	123.7		0.0000032		0.000191		0.0442		0.0871			0.000650		0.0001000	54.9		0.00250		0.0589			
		Count <DL	0			0	0		2		2		1		0			2		3	0		3		0			
		Standard Deviation	0.291			0.0010	1.5		0.0000014		0.000346		0.135		0.0093			0.000350		0.0000000	28.6		0.00000		0.0602			
		1st Quartile	0.24984			0.0034	123		<0.0000050		<0.00020		0.06475		0.0833			<0.0010		<0.00020	42.4		<0.0050		0.044			
		Median	0.499			0.0039	124		<0.0000050		<0.00020		0.127		0.0894			<0.0010		<0.00020	42.5		<0.0050		0.066			
		3rd Quartile	0.504			0.0044	124.5		0.00000375		0.0004		0.1995		0.0925			0.0008		<0.00020	67.2		<0.0050		0.1035			
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EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average	0.184			0.0113	196.8		0.00001		0.0004		0.882		0.1043			0.002		0.0004	0.62		0.01		0.0801		
		Count	4			4	4		4		4		4		4			4		4	4		4		4		
		Minimum	0.155			0.0041	186		<0.0000050		<0.00020		0.555		0.0798			<0.0010		<0.00020	<1.0		<0.0050		0.0374		
		Maximum	0.221			0.026	213		<0.000025		<0.0010		1.4		0.119			<0.0050		<0.0010	1		<0.025		0.163		
		Geometric Mean	0.182			0.0088	196.5		0.00000836		0.000334		0.823		0.1029			0.00167		0.000334	0.59		0.00836		0.066		
		Count <DL	0			2	0		4		4		0		0			4		4	3		4		0		
		Standard Deviation	0.028			0.00990	11.6		0.000005		0.0002		0.386		0.0188			0.001		0.0002	0.25		0.00500		0.0591		
		1st Quartile	0.168			0.0066	190.5		0.00001		0.0004		0.604		0.095			0.002		0.0004	<1.0		0.01		0.0378		
		Median	0.18			<0.015	194		<0.000025		<0.0010		0.786		0.1092			<0.0050		<0.0010	<1.0		<0.025		0.06		
		3rd Quartile	0.196			0.0121	200.2		<0.000025		<0.0010		1.063		0.119			<0.0050		<0.0010	0.62		<0.025		0.1023		
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average	0.199			0.0064	205.5		0.0000098		0.0003		1.524		0.1839			0.001500		0.0003000	0.5		0.00750	0.0703	0.1526		
		Count	4			4	4		4		4		4		4			4		4	4		4	1	3		
		Minimum	0.137			0.0037	197		<0.0000050		<0.00020		0.423		0.0625			<0.0010		<0.00020	<1.0		<0.0050	0.0703	0.0958		
		Maximum	0.289			<0.015	213		<0.000025		<0.0010		3.31		0.461			<0.0050		<0.0010	<1.0		<0.025	0.0703	0.207		
		Geometric Mean	0.191			0.0061	205.4		0.0000082		0.000224		1.163		0.134			0.001120		0.0002240	0.5		0.00559	0.0703	0.1454		
		Count <DL	0			2	0		3		4		0		0			4		4	4		4	0	0		
		Standard Deviation	0.068			0.0018	6.6		0.0000049		0.000231		1.267		0.186			0.001150		0.0002310	0		0.00577	0	0.0556		
		1st Quartile	0.154			0.006	203		0.00000948		<0.00020		0.769		0.0885			<0.0010		<0.00020	<1.0		<0.0050	0.0703	0.1254		
		Median	0.185			0.0071	206		0.00001215		0.0003		1.182		0.1061			0.0015		0.0003	<1.0		0.00750	0.0703	0.155		
		3rd Quartile	0.23			<0.015	208.5		<0.000025		<0.0010		1.938		0.2015			<0.0050		<0.0010	<1.0		<0.025	0.0703	0.181		
QU1010D																											
		Average	0.0138			0.1135	89.3		0.000019		0.00075		8.82		0.347			0.00375		0.000750	0.5		0.0188		0.07580		
		Count	2			2	2		2		2		2		2			2		2	2		2		2		
		Minimum	0.0135			<0.030	86.3		<0.000025		<0.0010		8.82		0.346			<0.0050		<0.0010	<1.0		<0.025		0.0521		
		Maximum	0.0142			0.212	92.3		<0.000050		<0.0020		8.82		0.348			<0.010		<0.0020	<1.0		<0.050		0.0994		
		Geometric Mean	0.0138			0.0564	89.2		0.000018		0.00071		8.82		0.347			0.00354		0.000710	0.5		0.0177		0.07200		
		Count <DL	0			1	0		2		2		0		0			2		2	2		2		0		
		Standard Deviation	0.0005			0.1393	4.2		0.000009		0.00035		0.0		0.00			0.00177		0.000350	0.0		0.0088		0.03340		
		1st Quartile	0.0137			0.0642	87.8		0.0000156		0.00062		8.82		0.346			0.00312		0.00062	<1.0		0.0156		0.0639		
		Median	0.0138			0.1135	89.3		0.0000188		0.00075		8.82		0.347			0.00375		0.00075	<1.0		0.0188		0.0758		
	3rd Quartile	0.014			0.1628	90.8		0.0000219		0.00088		8.82		0.348			0.00438		0.00088	<1.0		0.0219		0.0876			
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average	0.107			0.0027	152.0		0.0000025		0.0001		0.192		0.042			0.000500		0.0001000	12.4		0.00250		0.0479			
		Count	2			2	2		2		2		2		2			2		2	2		2		2			
		Minimum	0.101			<0.0030	151		<0.0000050		<0.00020		0.175		0.0417			<0.0010		<0.00020	11.4		<0.0050		0.0475			
		Maximum	0.113			0.0039	153		<0.0000050		<0.00020		0.21		0.0422			<0.0010		<0.00020	13.5		<0.0050		0.0482			
		Geometric Mean	0.107			0.00242	152.0		0.0000025		0.0001		0.192		0.0419			0.000500		0.0001000	12.4		0.0025		0.0478			
		Count <DL	0			1	0		2		2		0		0			2		2	0		2		0			
		Standard Deviation	0.008			0.0017	1.4		0.0000000		0		0.025		0.0004			0.000000		0.0000000	1.5		0		0.0005			
		1st Quartile	0.104			0.0021	151.5		<0.0000050		<0.00020		0.184		0.0418			<0.0010		<0.00020	11.9		<0.0050		0.0477			
		Median	0.107			0.0027	152		<0.0000050		<0.00020		0.192		0.042			<0.0010		<0.00020	12.4		<0.0050		0.0479			
		3rd Quartile	0.11			0.0033	152.5		<0.0000050		<0.00020		0.201		0.0421			<0.0010		<0.00020	13		<0.0050		0.048			
QU1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average	0.00712			0.0075	350		0.0000125		0.0011		3.24		0.36			0.0025		0.0005	0.5		0.0125		0.068			
		Count	1			1	1		1		1		1		1			1		1	1		1		1			
		Minimum	0.00712			<0.015	350		<0.000025		0.0011		3.24		0.36			<0.0050		<0.0010	<1.0		<0.025		0.0684			
		Maximum	0.00712			<0.015	350		<0.000025		0.0011		3.24		0.36			<0.0050		<0.0010	<1.0		<0.025		0.0684			
		Geometric Mean	0.00712			0.0075	350		0.0000125		0.0011		3.24		0.36			0.0025		0.0005	0.5		0.0125		0.068			
		Count <DL	0			1	0		1		0		0		0			1		1	1		1		0			
		Standard Deviation	0.00000			0.0000	0		0.0000000		0.00000		0.00		0.000			0.00000		0.000000	0.0		0.0000		0.000			
		1st Quartile	0.00712			<0.015	350		<0.000025		0.0011		3.24		0.36			<0.0050		<0.0010	<1.0		<0.025		0.0684			
		Median	0.00712			<0.015	350		<0.000025		0.0011		3.24		0.36			<0.0050		<0.0010	<1.0		<0.025		0.0684			
		3rd Quartile	0.00712			<0.015	350		<0.000025		0.0011		3.24		0.36			<0.0050		<0.0010	<1.0		<0.025		0.0684			
QU1011S	Ex-situ 2-North shallow groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average	0.00156			0.0035	81.2		0.0000025		0.0001		0.378		0.0521			0.0005		0.0001000	6.5		0.00250		0.0112			
		Count	1			1	1		1		1		1		1			1		1	1		1		1			
		Minimum	0.00156			0.0035	81.2		<0.0000050		<0.00020		0.378		0.0521			<0.0010		<0.00020	6.5		<0.0050		0.0112			
		Maximum	0.00156			0.0035	81.2		<0.0000050		<0.00020		0.378		0.0521			<0.0010		<0.00020	6.5		<0.0050		0.0112			
		Geometric Mean	0.00156			0.0035	81.2		0.0000025		0.0001		0.378		0.0521			0.0005		0.0001000	6.5		0.0025		0.0112			
		Count <DL	0			0	0		1		1		0		0			1		1	0		1		0			
		Standard Deviation	0			0	0		0.0000000		0		0		0			0		0.0000000	0		0		0			
		1st Quartile	0.00156			0.0035	81.2		<0.0000050		<0.00020		0.378		0.0521			<0.0010		<0.00020	6.5		<0.0050		0.0112			
		Median	0.00156			0.0035	81.2		<0.0000050		<0.00020		0.378		0.0521			<0.0010		<0.00020	6.5		<0.0050		0.0112			
		3rd Quartile	0.00156			0.0035	81.2		<0.0000050		<0.00020		0.378		0.0521			<0.0010		<0.00020	6.5		<0.0050		0.0112			
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU1105S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	0.04295			0.00402	191.3		0.0000050		0.000200		0.6426		0.116			0.001000		0.0002000	118.8		0.00500		0.081			
		Count	4			4	4		4		4		4		4			4		4	4		4		4			
		Minimum	0.00609			<0.0030	96.3		<0.0000050		<0.00020		<0.025		0.0795			<0.0010		<0.00020	56.5		<0.0050		0.011			
		Maximum	0.0606			<0.015	314		<0.000025		<0.0010		1.16		0.183			<0.0050		<0.0010	214		<0.025		0.259			
		Geometric Mean	0.03177			0.00345	169.6		0.0000037		0.000150		0.2896		0.1102			0.000750		0.0001500	103.9		0.00374		0.037			
		Count <DL	0			2	0		4		4		1		0			4		4	0		4		0			
		Standard Deviation	0.0249			0.00251	104.5		0.0000050		0.000200		0.475		0.0458			0.001000		0.0002000	71.0		0.00500		0.119			
		1st Quartile	0.03992			0.00292	108.8		<0.0000050		<0.00020		0.4846		0.0945			<0.0010		<0.00020	69.4		<0.0050		0.0205			
		Median	0.05255			0.00355	177.5		<0.0000050		<0.00020		0.699		0.1008			<0.0010		<0.00020	102.4		<0.0050		0.0262			
		3rd Quartile	0.05558			0.00465	260		0.000005		0.0002		0.857		0.1222			0.001		0.0002	151.8		0.005		0.0863			
QU1109S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	0.08961			0.00582	441.8		0.0000081		0.000325		2.7040		0.1053			0.00163		0.000325	423		0.00812		0.056			
		Count	4			4	4		4		4		4		4			4		4	4		4		4			
		Minimum	0.00344			<0.0030	427		<0.0000050		<0.00020		0.161		0.0317			<0.0010		<0.00020	273		<0.0050		0.0058			
		Maximum	0.123			<0.015	462		<0.000025		<0.0010		10		0.309			<0.0050		<0.0010	712		<0.025		0.0834			
		Geometric Mean	0.04885			0.00489	441.6		0.0000067		0.000266		0.6450		0.0631			0.00133		0.000266	395		0.00665		0.038			
		Count <DL	0			3	0		4		4		0		0			4		4	0		4		0			
		Standard Deviation	0.058			0.0029	14.7		0.0000052		0.00021		4.8650		0.13590			0.00103		0.000206	196.0		0.0052		0.035			
		1st Quartile	0.08711			0.00547	435.2		0.00000438		0.000175		0.284		0.0376			0.00088		0.000175	333		0.00438		0.048			
		Median	0.116			0.00715	439		0.00000875		0.00035		0.328		0.0402			0.00175		0.00035	355		0.00875		0.0674			
		3rd Quartile	0.1185			<0.015	445.5		<0.000025		<0.0010		2.748		0.108			<0.0050		<0.0010	445		<0.025		0.0754			
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2018 -19 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
7SQR	7-South Quinsam River downstream of 7-South Mining Operation	Average	0.00036	0.00039	0.0329	0.0183	34.3	0.000005	0.00000341	0.00073	0.00264	0.09	0.0570	0.0063	0.0049	36.1	0.00050	0.00050	0.000109	0.000100	26.5	0.0025	0.0025	0.00185		0.0215	0.0088	
E292113		Count	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	20	20	2		2	2	
		Minimum	0.00022	0.00025	0.0126	0.0088	26.6	<0.000010	<0.0000050	0.00053	0.00046	0.065	0.035	0.0044	0.0025	28.1	<0.0010	<0.0010	<0.00020	<0.00020	14.1	<0.0050	<0.0050	<0.0020		<0.020	<0.015	
		Maximum	0.00052	0.00056	0.0603	0.0356	41.8	<0.000010	0.0000093	0.00115	0.0383	0.127	0.0836	0.0097	0.0082	48.8	<0.0010	<0.0010	0.00027	<0.00020	37.3	<0.0050	<0.0050	0.0027		0.033	<0.020	
		Geometric Mean	0.00035	0.00038	0.0303	0.0168	34.1	0.000005	0.00000305	0.00071	0.00078	0.088	0.0555	0.0062	0.0047	35.8	0.00050	0.00050	0.000105	0.000100	25.9	0.0025	0.0025	0.00164		0.0182	0.0087	
		Count <DL	0	0	0	0	0	20	16	0	0	0	0	0	0	0	20	20	19	20	0	20	20	1		1	2	
		Standard Deviation	0.00008	0.00008	0.0135	0.0079	4.1	0.00000000	0.00000206	0.00017	0.00843	0.018	0.0137	0.0015	0.0013	4.9	0.00000	0.00000	0.000038	0.000000	5.4	0	0	0.0012		0.0163	0.0018	
		1st Quartile	0.00032	0.00034	0.0246	0.0122	31.2	<0.000010	<0.0000050	0.00058	0.00052	0.079	0.0484	0.0053	0.004	33.4	<0.0010	<0.0010	<0.00020	<0.00020	25	<0.0050	<0.0050	0.00142		0.0158	0.0081	
		Median	0.00036	0.00038	0.0284	0.015	34.6	<0.000010	<0.0000050	0.00069	0.00058	0.086	0.0518	0.006	0.0048	35.6	<0.0010	<0.0010	<0.00020	<0.00020	27.6	<0.0050	<0.0050	0.00185		0.0215	0.0088	
		3rd Quartile	0.00042	0.00043	0.0438	0.0242	37.9	<0.000010	<0.0000050	0.00081	0.00067	0.096	0.0649	0.0075	0.0056	38.5	<0.0010	<0.0010	<0.00020	<0.00020	29.30	<0.0050	<0.0050	0.00228		0.0273	0.0094	
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2018 -19 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
LQL1	Lower Quinsam Lake 1 metre below surface	Average	0.00057	0.00063	0.03	0.0216	29.58	0.000005	0.00000387	0.00079	0.00072	0.101	0.0683	0.012	0.00781	33.4	0.0005	0.00050	0.000100	0.000100	18.5	0.00250	0.00250	0.00544	0.0047	0.104	0.01	
E292118		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	15	15	
		Minimum	0.00047	0.00044	0.0103	0.0079	<1.0	<0.000010	<0.0000050	0.00058	0.0005	0.052	0.0287	0.0046	<0.0010	30.1	<0.0010	<0.0010	<0.00020	<0.00020	13.2	<0.0050	<0.0050	<0.0020	<0.0020	<0.020	<0.020	
		Maximum	0.00063	0.00071	0.0535	0.0355	38.7	<0.000010	0.0000070	0.00125	0.00108	0.229	0.142	0.0311	0.0264	36.1	<0.0010	<0.0010	<0.00020	<0.00020	24.6	<0.0050	<0.0050	0.0106	0.017	1.42	<0.020	
		Geometric Mean	0.00057	0.00062	0.0264	0.0188	23.79	0.000005	0.00000352	0.00077	0.0007	0.089	0.0608	0.0095	0.0036	33.3	0.0005	0.00050	0.000100	0.000100	18	0.00250	0.00250	0.00482	0.0038	0.0139	0.01	
		Count <DL	0	0	0	0	1	15	9	0	0	0	0	0	0	3	0	15	15	15	15	0	15	15	1	5	14	15
		Standard Deviation	0.00005	0.00008	0.0138	0.0105	9.19	0	0.00000181	0.00017	0.00016	0.055	0.0353	0.0090	0.0088	1.9	0	0.00000	0.000000	0.000000	4.1	0	0	0.00245	0.00386	0.3641	0	
		1st Quartile	0.00054	0.00059	0.0175	0.0105	28.05	<0.000010	<0.0000050	0.0007	0.00062	0.056	0.0448	0.0062	0.00145	31.8	<0.0010	<0.0010	<0.00020	<0.00020	15.2	<0.0050	<0.0050	0.00407	0.00265	<0.020	<0.020	
		Median	0.00059	0.00065	0.0311	0.0203	30.5	<0.000010	<0.0000050	0.000750	0.00073	0.080	0.0542	0.0072	0.00310	33.6	<0.0010	<0.0010	<0.00020	<0.00020	17	<0.0050	<0.0050	0.005	0.00405	<0.020	<0.020	
		3rd Quartile	0.0006	0.0007	0.0405	0.0305	35.5	<0.000010	0.0000053	0.000860	0.00078	0.134	0.0952	0.018	0.01455	34.6	<0.0010	<0.0010	<0.00020	<0.00020	21.9	<0.0050	<0.0050	0.00652	<0.010	<0.020	<0.020	
LQLB	LQLB 1 metre from Bottom	Average	0.00073	0.00105	0.0374	0.0232	30.6	0.0000071	0.00000666	0.00089	0.00071	0.485	0.2679	0.1767	0.1636	32	0.00050	0.00050	0.000100	0.000100	15.1	0.0025	0.00250	0.0054	0.00442	0.0387	0.0452	
E292118		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	15	15	
		Minimum	0.00046	0.00049	0.0225	0.0123	25.9	<0.000010	<0.0000050	0.00063	0.0006	0.102	0.0585	0.0108	0.0075	29.6	<0.0010	<0.0010	<0.00020	<0.00020	12.5	<0.0050	<0.0050	0.0027	<0.0020	<0.020	<0.020	
		Maximum	0.00127	0.00218	0.0696	0.0326	34.8	0.000015	0.0000110	0.00193	0.00088	1.35	0.746	0.532	0.511	35.4	<0.0010	<0.0010	<0.00020	<0.00020	17.2	<0.0050	<0.0050	0.0086	0.0064	0.124	0.17	
		Geometric Mean	0.00069	0.00095	0.0356	0.0226	30.5	0.0000064	0.00000582	0.00085	0.0007	0.35	0.1965	0.0945	0.0786	31.9	0.00050	0.00050	0.000100	0.000100	15	0.0025	0.00250	0.0051	0.00407	0.0274	0.0282	
		Count <DL	0	0	0	0	0	11	4	0	0	0	0	0	0	0	15	15	15	15	0	15	15	0	5	5	6	
		Standard Deviation	0.00025	0.00052	0.0125	0.0054	2.9	0.0000036	0.00000317	0.00032	0.00009	0.398	0.2167	0.1701	0.1621	1.7	0.00000	0.00000	0.000000	0.000000	1.3	0	0	0.0018	0.00149	0.0338	0.0462	
		1st Quartile	0.00054	0.00066	0.0300	0.0199	28.2	<0.000010	0.0000041	0.00076	0.00063	0.186	0.1065	0.03	0.0241	30.9	<0.0010	<0.0010	<0.00020	<0.00020	14.5	<0.0050	<0.0050	0.0037	0.00328	<0.020	<0.020	
		Median	0.00062	0.00082	0.0351	0.0238	31.4	<0.000010	0.00000600	0.00079	0.00069	0.234	0.133	0.16	0.1510	31.5	<0.0010	<0.0010	<0.00020	<0.00020	14.8	<0.0050	<0.0050	0.0053	<0.010	0.027	0.029	
		3rd Quartile	0.00091	0.00129	0.0451	0.026	32.7	0.0000085	0.00000980	0.00090	0.00076	0.694	0.3985	0.272	0.2595	33.0	<0.0010	<0.0010	<0.00020	<0.00020	16	<0.0050	<0.0050	0.007	<0.010	0.0495	0.07	
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2019 -20 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
WA	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	0.000112	0.000106	0.0301	0.0202	18.5	0.0000050	0.00000411	0.00063	0.00055	0.0256	0.0120	0.00147	0.00069	19.4	0.00050	0.00050	0.000100	0.000100	1.28	0.00250	0.00250			0.0100	
E0126402		Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	14	14			1	
		Minimum	<0.00010	<0.00010	0.0161	0.0142	14.0	<0.000010	<0.0000050	0.00052	0.00050	<0.010	0.0077	<0.0010	<0.0010	16.5	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050			<0.020	
		Maximum	0.00021	0.00018	0.106	0.0380	22	<0.000010	<0.000010	0.00094	0.00060	0.123	0.0202	0.0052	0.0016	20.9	<0.0010	<0.0010	<0.00020	<0.00020	2.5	<0.0050	<0.0050			<0.020	
		Geometric Mean	0.000100	0.000097	0.0258	0.0196	18.4	0.0000050	0.00000390	0.00062	0.00055	0.0190	0.0115	0.00121	0.00062	19.4	0.00050	0.00050	0.000100	0.000100	1.11	0.00250	0.00250			0.0100	
		Count <DL	4	4	0	0	0	14	14	0	0	1	0	3	11	0	14	14	14	14	4	14	14			1	
		Standard Deviation	0.000053	0.000045	0.0235	0.0057	2.4	0.0000000	0.00000124	0.00011	0.00003	0.0290	0.0038	0.00116	0.00038	1.1	0.00000	0.00000	0.000000	0.000000	0.66	0.00000	0.00000			0.0000	
		1st Quartile	0.000063	0.000063	0.0192	0.0166	17	<0.000010	<0.0000050	0.00055	0.00052	0.0135	0.0095	0.00103	<0.0010	19.0	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050			<0.020	
		Median	0.000115	0.000105	0.0231	0.0193	18.9	<0.000010	<0.000010	0.00058	0.00055	0.0170	0.0099	0.0013	<0.0010	19.3	<0.0010	<0.0010	<0.00020	<0.00020	1.3	<0.0050	<0.0050			<0.020	
		3rd Quartile	0.000127	0.000135	0.0294	0.0215	20.1	<0.000010	<0.000010	0.00067	0.00056	0.0227	0.0143	0.00162	<0.0010	20.5	<0.0010	<0.0010	<0.00020	<0.00020	1.7	<0.0050	<0.0050			<0.020	
WD	Settling Pond #4	Average	0.00200	0.00124	0.0099	0.00328	363	0.0000050	0.00000438	0.000493	0.000211	0.519	0.01167	0.1028	0.0830	447	0.00094	0.00083	0.000100	0.000100	549	0.00290	0.00250	0.0037	0.00200	0.0155	0.055
E207409		Count	8	12	8	12	12	8	12	8	12	8	12	8	12	8	8	12	8	12	47	8	12	3	2	4	4
		Minimum	0.00093	0.00081	0.0037	<0.0030	240	<0.000010	<0.0000050	<0.00050	<0.00020	0.095	<0.0050	0.0101	0.0078	281	<0.0010	<0.0010	<0.00020	<0.00020	160	<0.0050	<0.0050	0.0034	<0.0030	<0.020	0.020
		Maximum	0.00345	0.00164	0.0296	0.0101	490	<0.000010	<0.000010	0.00107	0.00048	1.74	0.0282	0.354	0.359	637	0.0020	0.0019	<0.00020	<0.00020	1000	0.0057	<0.0050	0.0042	0.0025	0.032	0.14
		Geometric Mean	0.00179	0.00119	0.0080	0.00231	352	0.0000050	0.00000420	0.000402	0.000182	0.344	0.00936	0.0624	0.0491	428	0.00082	0.00073	0.000100	0.000100	507	0.00277	0.00250	0.0037	0.00194	0.0134	0.039
		Count <DL	0	0	0	9	0	8	12	5	5	0	1	0	0	0	4	7	8	12	0	7	12	0	1	3	0
		Standard Deviation	0.00094	0.00034	0.0083	0.00337	94	0.0000000	0.00000113	0.000345	0.000118	0.538	0.00834	0.1115	0.0969	139	0.00054	0.00046	0.000000	0.000000	217	0.00113	0.00000	0.0004	0.00071	0.0110	0.057
		1st Quartile	0.00099	0.00088	0.0052	<0.0030	277	<0.000010	0.00000438	<0.00050	<0.00020	0.171	0.00635	0.0356	0.0216	343	<0.0010	<0.0010	<0.00020	<0.00020	395	<0.0050	<0.0050	0.0035	0.00175	<0.020	0.024
		Median	0.00219	0.00129	0.0078	<0.0030	375	<0.000010	<0.000010	<0.00050	0.000225	0.378	0.00860	0.0695	0.0468	410	0.00080	<0.0010	<0.00020	<0.00020	486	<0.0050	<0.0050	0.0036	0.00200	<0.020	0.030
		3rd Quartile	0.00258	0.00152	0.0098	0.00263	442	<0.000010	<0.000010	0.000790	0.000260	0.593	0.01468	0.1218	0.1065	576	0.0012	0.00113	<0.00020	<0.00020	755	<0.0050	<0.0050	0.0039	0.00225	0.0155	0.061
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

Table 47 Statistics 2019-2023 85 Page(s)

2019 -20 Statistics Stn.Code																												
	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
EMS. ID																												
MW001D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average		0.01763		0.0171	171		0.0000180		0.00046		0.01057		0.5891			0.00263		0.000100	132		0.00250		0.102			
		Count		3		3	3		3		3		3		3			3		3	3	3		3		3		
		Minimum		0.00540		0.0053	81		<0.000010		0.00036		<0.0050		0.0032			<0.0010		<0.00020	11		<0.0050		0.027			
		Maximum		0.0280		0.0294	340		0.000044		0.00061		0.0230		1.76			0.0069		<0.00020	360		<0.0050		0.15			
		Geometric Mean		0.01434		0.0137	137		0.0000103		0.00045		0.00709		0.0285			0.00120		0.000100	46		0.00250		0.081			
		Count <DL		0		0	0		2		0		1		0			2		3	0		3		0			
		Standard Deviation		0.01142		0.0121	145		0.0000225		0.00013		0.01093		1.0140			0.00370		0.000000	197		0.00000		0.066			
		1st Quartile		0.01245		0.0109	87		<0.000010		0.00039		0.00435		0.0037			<0.0010		<0.00020	18		<0.0050		0.079			
		Median		0.0195		0.0165	94		<0.000010		0.00041		0.0062		0.0041			<0.0010		<0.00020	26		<0.0050		0.13			
		3rd Quartile		0.02375		0.0229	217		0.0000245		0.00051		0.01460		0.8821			0.00370		<0.00020	193		<0.0050		0.140			
MW001S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00047		0.00150	310.0		0.000065		0.00048		0.129		2.60			0.0012		0.000100	400.0		0.00250		0.0026			
		Count		1		1	1		1		1		1		1			1		1	1		1		1			
		Minimum		0.00047		<0.0030	310		0.000065		0.00048		0.129		2.60			0.0012		<0.00020	400		<0.0050		0.0026			
		Maximum		0.00047		<0.0030	310		0.000065		0.00048		0.129		2.60			0.0012		<0.00020	400		<0.0050		0.0026			
		Geometric Mean		0.00047		0.00150	310.0		0.000065		0.00048		0.129		2.60			0.0012		0.000100	400.0		0.00250		0.0026			
		Count <DL		0		1	0		0		0		0		0			0		1	0		1		0			
		Standard Deviation		0.00000		0.00000	0.0		0.000000		0.00000		0.000		0.00			0.0000		0.000000	0.0		0.00000		0.0000			
		1st Quartile		0.00047		<0.0030	310		0.000065		0.00048		0.129		2.60			0.0012		<0.00020	400		<0.0050		0.0026			
		Median		0.00047		<0.0030	310		0.000065		0.00048		0.129		2.60			0.0012		<0.00020	400		<0.0050		0.0026			
		3rd Quartile		0.00047		<0.0030	310		0.000065		0.00048		0.129		2.60			0.0012		<0.00020	400		<0.0050		0.0026			
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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2019 -20 Statistics Stn.Code																											
	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
EMS. ID		Average		0.0282		0.0164	83.0		0.0000050		0.00075		0.00250		0.00050			0.00050		0.000100	12.0		0.00250		0.12		
MW006D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Count		1		1	1		1		1		1		1			1		1	1		1		1		
		Minimum		0.0282		0.0164	83		<0.000010		0.00075		<0.0050		<0.0010			<0.0010		<0.00020	12		<0.0050		0.12		
		Maximum		0.0282		0.0164	83		<0.000010		0.00075		<0.0050		<0.0010			<0.0010		<0.00020	12		<0.0050		0.12		
		Geometric Mean		0.0282		0.0164	83.0		0.0000050		0.00075		0.00250		0.00050			0.00050		0.000100	12.0		0.00250		0.12		
		Count <DL		0		0	0		1		0		1		1			1		1	0		1		0		
		Standard Deviation		0.0000		0.0000	0.0		0.0000000		0.00000		0.00000		0.00000			0.00000		0.000000	0.0		0.00000		0.00		
		1st Quartile		0.0282		0.0164	83		<0.000010		0.00075		<0.0050		<0.0010			<0.0010		<0.00020	12		<0.0050		0.12		
		Median		0.0282		0.0164	83		<0.000010		0.00075		<0.0050		<0.0010			<0.0010		<0.00020	12		<0.0050		0.12		
		3rd Quartile		0.0282		0.0164	83		<0.000010		0.00075		<0.0050		<0.0010			<0.0010		<0.00020	12		<0.0050		0.12		
MW006S		Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00170		0.00360	155.0		0.000022		0.00072		0.01510		0.0846			0.00050		0.000100	475		0.00250		0.043	
	Count			2		2	2		2		2		2		2			2		2	2		2		2		
	Minimum			0.00153		<0.0030	150		0.000022		0.00063		<0.0050		0.0432			<0.0010		<0.00020	400		<0.0050		0.039		
	Maximum			0.00187		0.0057	160		0.000023		0.00080		0.0277		0.126			<0.0010		<0.00020	550		<0.0050		0.048		
	Geometric Mean			0.00169		0.00292	154.9		0.000022		0.00071		0.00832		0.0738			0.00050		0.000100	469		0.00250		0.043		
	Count <DL			0		1	0		0		0		1		0			2		2	0		2		0		
	Standard Deviation			0.00024		0.00297	7.1		0.000001		0.00012		0.01782		0.0585			0.00000		0.000000	106		0.00000		0.006		
	1st Quartile			0.00161		0.00255	152.5		0.000022		0.00067		0.00880		0.0639			<0.0010		<0.00020	437		<0.0050		0.041		
	Median			0.00170		0.00360	155.0		0.000022		0.00072		0.01510		0.0846			<0.0010		<0.00020	475		<0.0050		0.043		
	3rd Quartile			0.00178		0.00465	157.5		0.000023		0.00076		0.02140		0.1053			<0.0010		<0.00020	512		<0.0050		0.046		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2019 -20 Statistics		Site Name & Description																									
Stn.Code			Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23
EMS. ID																											
WC	2-North Pit Culvert discharge into Middle Quinsam Lake	Average	0.00080	0.00068	0.00708	0.00443	328	0.0000050	0.00000429	0.000297	0.000209	0.142	0.0310	0.0300	0.0263	344	0.00082	0.00077	0.000100	0.000100	530	0.00250	0.00250				
E207411		Count	6	7	6	7	3	6	7	6	7	6	7	6	7	6	6	7	6	7	12	6	7				
		Minimum	0.00069	0.00060	<0.0030	<0.0030	210	<0.000010	<0.0000050	<0.00050	<0.00020	0.065	0.0067	0.0080	0.0051	253	<0.0010	<0.0010	<0.00020	<0.00020	300	<0.0050	<0.0050				
		Maximum	0.00091	0.00086	0.0221	0.0135	394	<0.000010	<0.000010	0.00053	0.00036	0.229	0.0903	0.0598	0.0605	436	0.0012	0.0012	<0.00020	<0.00020	726	<0.0050	<0.0050				
		Geometric Mean	0.00079	0.00068	0.00495	0.00339	315	0.0000050	0.00000410	0.000283	0.000183	0.130	0.0187	0.0221	0.0177	338	0.00075	0.00071	0.000100	0.000100	510	0.00250	0.00250				
		Count <DL	0	0	1	2	0	6	7	5	3	0	0	0	0	0	3	4	6	7	0	6	7				
		Standard Deviation	0.00008	0.00009	0.00753	0.00413	102	0.0000000	0.00000122	0.000114	0.000107	0.063	0.0343	0.0239	0.0239	65	0.00035	0.00034	0.000000	0.000000	148	0.00000	0.00000				
		1st Quartile	0.00076	0.00063	0.00350	0.00230	295	<0.000010	0.00000375	<0.00050	<0.00020	0.105	0.0082	0.0109	0.0083	300	<0.0010	<0.0010	<0.00020	<0.00020	387	<0.0050	<0.0050				
		Median	0.00080	0.00068	0.00510	0.0036	380	<0.000010	<0.000010	<0.00050	0.00025	0.128	0.0155	0.0219	0.0153	354	0.00080	<0.0010	<0.00020	<0.00020	530	<0.0050	<0.0050				
		3rd Quartile	0.00083	0.00069	0.00558	0.00390	387	<0.000010	<0.000010	<0.00050	0.000275	0.188	0.0440	0.0512	0.0433	376	0.0011	0.0011	<0.00020	<0.00020	665	<0.0050	<0.0050				
MQL1	Middle Quinsam Lake 1 metre below surface	Average	0.00015	0.00014	0.0160	0.0138	44.4	0.0000050	0.00000411	0.000888	0.00048	0.041	0.0253	0.0056	0.00184	35.7	0.00064	0.00050	0.000100	0.000100	30.1	0.00250	0.00292	0.00310	0.00419	0.0134	
E206618		Count	14	14	14	14	10	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	6	14	5	
		Minimum	0.00013	0.00013	0.0120	0.0081	41	<0.000010	<0.0000050	<0.00050	0.00038	0.031	0.0199	0.0043	<0.0010	23.5	<0.0010	<0.0010	<0.00020	<0.00020	5.8	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	
		Maximum	0.00018	0.00016	0.0232	0.0192	48.6	<0.000010	<0.000010	0.00677	0.00057	0.052	0.0304	0.0082	0.0042	45.4	0.0025	<0.0010	<0.00020	<0.00020	57.1	<0.0050	0.0084	0.0076	<0.010	0.027	
		Geometric Mean	0.00015	0.00014	0.0156	0.0134	44.3	0.0000050	0.00000390	0.000496	0.00048	0.040	0.0250	0.0055	0.00131	34.7	0.00056	0.00050	0.000100	0.000100	23.8	0.00250	0.00273	0.00240	0.00391	0.0122	
		Count <DL	0	0	0	0	0	14	14	5	0	0	0	0	5	0	13	14	14	14	0	14	13	4	11	4	
		Standard Deviation	0.00002	0.00001	0.0037	0.0034	2.6	0.0000000	0.00000124	0.001700	0.00005	0.007	0.0036	0.0013	0.00148	8.2	0.00053	0.00000	0.000000	0.000000	16.5	0.00000	0.00158	0.00261	0.00131	0.0076	
		1st Quartile	0.00014	0.00013	0.0128	0.0112	42.0	<0.000010	<0.0000050	<0.00050	0.00046	0.035	0.0218	0.0046	<0.0010	27.3	<0.0010	<0.0010	<0.00020	<0.00020	13.2	<0.0050	<0.0050	<0.0030	0.00367	<0.020	
		Median	0.00015	0.00014	0.0144	0.0131	45	<0.000010	<0.000010	0.000520	0.00048	0.040	0.0260	0.0052	0.00115	37.9	<0.0010	<0.0010	<0.00020	<0.00020	34.0	<0.0050	<0.0050	<0.0030	<0.010	<0.020	
		3rd Quartile	0.00017	0.00015	0.0190	0.0172	45.8	<0.000010	<0.000010	0.00054	0.00052	0.048	0.0278	0.0063	0.00328	41.8	<0.0010	<0.0010	<0.00020	<0.00020	40.7	<0.0050	<0.0050	0.00413	<0.010	<0.020	
MQLB	Middle Quinsam Lake 1 metre from bottom	Average	0.00014	0.000123	0.0137	0.0098	46.3	0.0000050	0.00000411	0.000399	0.00046	0.043	0.0208	0.0099	0.00416	47.3	0.00050	0.00050	0.000100	0.000100	52.6	0.00250	0.00250	0.00292	0.00482	0.0100	
E206618		Count	14	14	14	14	10	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	6	14	5	
		Minimum	0.00011	<0.00010	0.0064	0.0042	44	<0.000010	<0.0000050	<0.00050	0.00040	0.027	0.0146	0.0061	<0.0010	36.0	<0.0010	<0.0010	<0.00020	<0.00020	34	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	
		Maximum	0.00018	0.00016	0.0266	0.0170	50.7	<0.000010	<0.000010	0.00061	0.00054	0.077	0.0312	0.0157	0.0102	53.2	<0.0010	<0.0010	<0.00020	<0.00020	68.1	<0.0050	<0.0050	0.0043	0.011	<0.020	
		Geometric Mean	0.00014	0.000119	0.0129	0.0089	46.3	0.0000050	0.00000390	0.000370	0.00046	0.041	0.0200	0.0094	0.00262	46.8	0.00050	0.00050	0.000100	0.000100	51.0	0.00250	0.00250	0.00268	0.00446	0.0100	
		Count <DL	0	1	0	0	0	14	14	7	0	0	0	0	3	0	14	14	14	14	0	14	14	2	9	5	
		Standard Deviation	0.00002	0.000028	0.0052	0.0041	2.3	0.0000000	0.00000124	0.000157	0.00004	0.014	0.0065	0.0033	0.00356	6.7	0.00000	0.00000	0.000000	0.000000	12.8	0.00000	0.00000	0.00118	0.00205	0.0000	
		1st Quartile	0.00012	0.00011	0.0112	0.0063	44	<0.000010	<0.0000050	<0.00050	0.00044	0.032	0.0156	0.0076	0.00137	40.2	<0.0010	<0.0010	<0.00020	<0.00020	38.2	<0.0050	<0.0050	0.00190	0.00405	<0.020	
		Median	0.00013	0.00012	0.0127	0.0090	46.7	<0.000010	<0.000010	0.000380	0.00046	0.043	0.0180	0.0088	0.00300	51.3	<0.0010	<0.0010	<0.00020	<0.00020	59.5	<0.0050	<0.0050	0.00315	<0.010	<0.020	
		3rd Quartile	0.00016	0.000147	0.0161	0.0126	47.2	<0.000010	<0.000010	0.000545	0.00049	0.050	0.0274	0.0116	0.00630	52.5	<0.0010	<0.0010	<0.00020	<0.00020	61.8	<0.0050	<0.0050	0.00373	<0.010	<0.020	
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

Table 47 Statistics 2019-2023 85 Page(s)

2019 -20 Statistics																												
Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
NNL1			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
E217018	No Name Lake 1 metre below surface	Average	0.00030	0.00028	0.0281	0.0229	10.5	0.0000050	0.00000422	0.000250	0.00043	0.065	0.0488	0.0043	0.0036	13.8	0.00050	0.00050	0.000100	0.000100	1.8	0.00250	0.00250	0.00290	0.00348	0.0224		
		Count	9	9	9	9	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	8	5		
		Minimum	0.00019	0.00018	0.0120	0.0116	9.0	<0.000010	<0.0000050	<0.00050	0.00032	0.049	0.0313	0.0028	0.0020	11.5	<0.0010	<0.0010	<0.00020	<0.00020	1.2	<0.0050	<0.0050	<0.0030	<0.0030	<0.020		
		Maximum	0.00041	0.00041	0.0463	0.0343	12.0	<0.000010	0.0000080	<0.00050	0.00086	0.087	0.0758	0.0065	0.0057	16.5	<0.0010	<0.0010	<0.00020	<0.00020	2.4	<0.0050	<0.0050	0.0048	<0.010	0.045		
		Geometric Mean	0.00029	0.00026	0.0244	0.0208	10.5	0.0000050	0.00000387	0.000250	0.00041	0.063	0.0467	0.0042	0.0034	13.6	0.00050	0.00050	0.000100	0.000100	1.7	0.00250	0.00250	0.00260	0.00315	0.0176		
		Count <DL	0	0	0	0	0	9	8	9	0	0	0	0	0	0	9	9	9	9	9	0	9	9	2	5	3	
		Standard Deviation	0.00009	0.00010	0.0146	0.0098	1.1	0.0000000	0.00000189	0.000000	0.00016	0.014	0.0157	0.0010	0.0012	2.1	0.00000	0.00000	0.000000	0.000000	0.4	0.00000	0.00000	0.00144	0.00146	0.0172		
		1st Quartile	0.00022	0.00018	0.0134	0.0126	10.2	<0.000010	<0.0000050	<0.00050	0.00035	0.055	0.0374	0.0039	0.0026	11.8	<0.0010	<0.0010	<0.00020	<0.00020	1.5	<0.0050	<0.0050	<0.0030	0.00278	<0.020		
		Median	0.00028	0.00021	0.0335	0.0277	10.3	<0.000010	<0.000010	<0.00050	0.00040	0.062	0.0419	0.0042	0.0037	13.1	<0.0010	<0.0010	<0.00020	<0.00020	1.9	<0.0050	<0.0050	0.0029	0.00330	<0.020		
	3rd Quartile	0.00039	0.00037	0.0408	0.0306	11.0	<0.000010	<0.000010	<0.00050	0.00041	0.068	0.0644	0.0045	0.0042	15.5	<0.0010	<0.0010	<0.00020	<0.00020	2.0	<0.0050	<0.0050	0.0038	<0.010	0.037			
NNLB	No Name Lake 1 metre from bottom	Average	0.00025	0.00019	0.0393	0.0324	10.9	0.0000050	0.00000422	0.000349	0.00037	0.113	0.0722	0.0122	0.0096	17.0	0.00050	0.00050	0.000100	0.000100	4.4	0.00250	0.00250	0.00362	0.00433	0.028		
E217018		Count	9	9	9	9	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	8	5		
		Minimum	0.00018	0.00013	0.0239	0.0185	9.8	<0.000010	<0.0000050	<0.00050	0.00032	0.080	0.0473	0.0049	0.0040	14.3	<0.0010	<0.0010	<0.00020	<0.00020	2.5	<0.0050	<0.0050	<0.0030	<0.0030	0.024		
		Maximum	0.00046	0.00030	0.0510	0.0387	13.1	<0.000010	0.0000080	0.00074	0.00046	0.135	0.190	0.0160	0.0159	33.6	<0.0010	<0.0010	<0.00020	<0.00020	5.7	<0.0050	<0.0050	0.0066	0.0067	0.031		
		Geometric Mean	0.00024	0.00018	0.0383	0.0318	10.9	0.0000050	0.00000387	0.000314	0.00037	0.112	0.0652	0.0115	0.0089	16.3	0.00050	0.00050	0.000100	0.000100	4.3	0.00250	0.00250	0.00326	0.00399	0.028		
		Count <DL	0	0	0	0	0	9	8	7	0	0	0	0	0	0	9	9	9	9	9	0	9	9	1	4	0	
		Standard Deviation	0.00009	0.00006	0.0086	0.0061	1.3	0.0000000	0.00000189	0.000198	0.00004	0.019	0.0447	0.0037	0.0037	6.2	0.00000	0.00000	0.000000	0.000000	0.9	0.00000	0.00000	0.00185	0.00161	0.003		
		1st Quartile	0.00020	0.00017	0.0349	0.0304	10.0	<0.000010	<0.0000050	<0.00050	0.00034	0.111	0.0539	0.0119	0.0075	15.0	<0.0010	<0.0010	<0.00020	<0.00020	4.1	<0.0050	<0.0050	0.0032	0.00335	0.027		
		Median	0.00021	0.00017	0.0395	0.0341	10.9	<0.000010	<0.000010	<0.00050	0.00037	0.114	0.0564	0.0136	0.0086	15.1	<0.0010	<0.0010	<0.00020	<0.00020	4.7	<0.0050	<0.0050	0.0034	<0.010	0.028		
	3rd Quartile	0.00025	0.00018	0.0446	0.0362	10.9	<0.000010	<0.000010	<0.00050	0.00039	0.128	0.0665	0.0147	0.0114	15.2	<0.0010	<0.0010	<0.00020	<0.00020	4.8	<0.0050	<0.0050	0.0034	<0.010	0.029			
NNO	No Name Lake Outlet	Average	0.00031	0.00031	0.0301	0.0229	13.0	0.0000050	0.00000417	0.000305	0.00039	0.093	0.0623	0.0059	0.0041	14.5	0.00050	0.00050	0.000100	0.000100	1.89	0.00250	0.00250	0.00260	0.00356	0.0122	0.0075	
E217017		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	6	5	6	1	
		Minimum	0.00016	0.00017	0.0151	0.0113	9.7	<0.000010	<0.0000050	<0.00050	0.00033	0.053	0.0371	0.0041	0.0025	10.5	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015	
		Maximum	0.00045	0.00043	0.0448	0.0345	15	<0.000010	<0.000010	0.00079	0.00048	0.169	0.0920	0.0079	0.0054	17.9	<0.0010	<0.0010	<0.00020	<0.00020	4.9	<0.0050	<0.0050	0.0048	0.0054	0.023	<0.015	
		Geometric Mean	0.00029	0.00029	0.0281	0.0209	12.9	0.0000050	0.00000397	0.000284	0.00039	0.086	0.0586	0.0057	0.0040	14.3	0.00050	0.00050	0.000100	0.000100	1.64	0.00250	0.00250	0.00231	0.00328	0.0115	0.0075	
		Count <DL	0	0	0	0	0	15	15	13	0	0	0	0	0	0	15	15	15	15	1	15	15	3	1	5	1	
		Standard Deviation	0.00010	0.00009	0.0108	0.0092	1.7	0.0000000	0.00000122	0.000152	0.00004	0.036	0.0218	0.0012	0.0011	2.2	0.00000	0.00000	0.000000	0.000000	1.17	0.00000	0.00000	0.00143	0.00142	0.0053	0.0000	
		1st Quartile	0.00020	0.00020	0.0188	0.0125	11.5	<0.000010	<0.0000050	<0.00050	0.00036	0.064	0.0382	0.0050	0.0030	12.1	<0.0010	<0.0010	<0.00020	<0.00020	1.4	<0.0050	<0.0050	<0.0030	0.0031	<0.020	<0.015	
		Median	0.00035	0.00034	0.0311	0.0261	13	<0.000010	<0.000010	<0.00050	0.00040	0.089	0.0639	0.0059	0.0046	15.2	<0.0010	<0.0010	<0.00020	<0.00020	1.55	<0.0050	<0.0050	0.00195	0.0038	<0.020	<0.015	
	3rd Quartile	0.00037	0.00038	0.0389	0.0316	14.5	<0.000010	<0.000010	<0.00050	0.00043	0.118	0.0786	0.0066	0.0051	15.9	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050	0.00352	0.0040	<0.020	<0.015		
Notes:																												
Factor applied to less-than results when calculating statistics: 0.5																												

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2019 -20 Statistics Stn.Code		Site Name & Description																											
EMS. ID	Statistic		As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3		
LLS	Small Seep into Long Lake	Average	0.00265	0.00224	0.01663	0.00315	245	0.0000050	0.00000450	0.000492	0.000163	1.200	0.9827	0.3230	0.3102	571	0.0032	0.0033	0.000100	0.000100	499	0.00250	0.00250						
E292131		Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
		Minimum	0.00052	0.00028	<0.0030	<0.0030	170	<0.000010	<0.0000050	<0.00050	<0.00020	0.225	0.0612	0.0835	0.0826	473	0.0020	0.0020	<0.00020	<0.00020	360	<0.0050	<0.0050						
		Maximum	0.00518	0.00483	0.0507	0.0060	390	<0.000010	0.0000050	0.00105	0.00060	2.11	1.96	0.488	0.441	696	0.0056	0.0058	<0.00020	<0.00020	750	<0.0050	<0.0050						
		Geometric Mean	0.00235	0.00185	0.00774	0.00264	239	0.0000050	0.00000435	0.000406	0.000130	1.075	0.7657	0.2929	0.2818	567	0.0030	0.0031	0.000100	0.000100	490	0.00250	0.00250						
		Count <DL	0	0	3	5	0	10	8	6	8	0	0	0	0	0	0	0	10	10	0	10	10						
		Standard Deviation	0.00115	0.00122	0.01815	0.00195	58	0.0000000	0.00000105	0.000326	0.000159	0.459	0.5147	0.1243	0.1178	67	0.0013	0.0014	0.000000	0.000000	106	0.00000	0.00000						
		1st Quartile	0.00233	0.00158	0.00195	<0.0030	222	<0.000010	<0.000010	<0.00050	<0.00020	1.107	0.6893	0.2412	0.2307	530	0.0022	0.0022	<0.00020	<0.00020	440	<0.0050	<0.0050						
		Median	0.00266	0.00222	0.00785	0.00225	243	<0.000010	<0.000010	<0.00050	<0.00020	1.225	1.0700	0.3360	0.3280	575	0.0029	0.0029	<0.00020	<0.00020	483	<0.0050	<0.0050						
		3rd Quartile	0.00286	0.00272	0.02672	0.00500	257	<0.000010	<0.000010	0.000793	<0.00020	1.298	1.2000	0.4108	0.4030	604	0.0040	0.0046	<0.00020	<0.00020	531	<0.0050	<0.0050						
LLSM	Long Lake Middle Seep	Average	0.00080	0.00069	0.06331	0.00799	184	0.0000059	0.00000556	0.000959	0.000591	0.539	0.361	0.1827	0.1794	481	0.0034	0.0032	0.000251	0.000100	410	0.00284	0.00250						
E292131		Count	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8							
		Minimum	0.00043	0.00039	<0.0030	<0.0030	110	<0.000010	<0.0000050	<0.00050	<0.00020	0.251	0.207	0.0927	0.0890	372	0.0020	0.0019	<0.00020	<0.00020	280	<0.0050	<0.0050						
		Maximum	0.00122	0.00133	0.259	0.0209	240	0.000012	0.000010	0.00294	0.00163	0.787	0.783	0.338	0.336	615	0.0051	0.0047	0.00131	<0.00020	580	0.0052	<0.0050						
		Geometric Mean	0.00076	0.00062	0.02106	0.00575	179	0.0000056	0.00000523	0.000603	0.000379	0.514	0.326	0.1594	0.1559	474	0.0032	0.0031	0.000138	0.000100	400	0.00274	0.00250						
		Count <DL	0	0	1	1	0	7	5	4	2	0	0	0	0	0	0	0	7	8	0	7	8						
		Standard Deviation	0.00027	0.00036	0.08999	0.00690	44	0.0000025	0.00000209	0.000999	0.000569	0.163	0.194	0.1015	0.1021	84	0.0012	0.0010	0.000428	0.000000	94	0.00095	0.00000						
		1st Quartile	0.00064	0.00042	0.00918	0.00347	155	<0.000010	<0.000010	<0.00050	0.000228	0.476	0.234	0.0974	0.0953	404	0.0024	0.0024	<0.00020	<0.00020	345	<0.0050	<0.0050						
		Median	0.00073	0.00056	0.01780	0.00550	194	<0.000010	<0.000010	0.000555	0.000345	0.537	0.292	0.1535	0.1490	495	0.0033	0.0033	<0.00020	<0.00020	405	<0.0050	<0.0050						
		3rd Quartile	0.00090	0.00083	0.08342	0.00990	220	<0.000010	0.0000060	0.001162	0.000820	0.619	0.416	0.2415	0.2342	530	0.0042	0.0037	<0.00020	<0.00020	464	<0.0050	<0.0050						
Notes: Factor applied to less-than results when calculating statistics: 0.5																													

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2019 -20 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average		0.00197		0.00413	272.7		0.0000125		0.000333		4.11		1.40			0.00262		0.000275	1300		0.0069		0.00147		0.16
		Count		4		4	3		4		4		4		4			4		4	4		4		3		1
		Minimum		0.00184		<0.0060	258		<0.000010		<0.00040		3.84		1.27			0.0024		<0.00040	1200		<0.010		0.0014		0.16
		Maximum		0.00232		<0.015	290		<0.000050		<0.0010		4.40		1.54			0.0029		<0.0010	1400		<0.025		<0.0030		0.16
		Geometric Mean		0.00197		0.00377	272.3		0.0000106		0.000305		4.10		1.40			0.00262		0.000251	1298		0.0063		0.00147		0.16
		Count <DL		0		4	0		4		3		0		0			1		4	0		4		2		0
		Standard Deviation		0.00023		0.00225	16.2		0.0000087		0.000156		0.27		0.11			0.00022		0.000150	81		0.0038		0.00006		0.00
		1st Quartile		0.00186		<0.0060	264.0		0.0000088		<0.00040		3.90		1.35			0.00247		<0.00040	1275		<0.010		0.00145		0.16
		Median		0.00187		<0.0060	270		<0.000020		0.000315		4.09		1.41			0.00260		<0.00040	1300		<0.010		<0.0030		0.16
		3rd Quartile		0.00199		0.00413	280.0		0.0000138		0.000447		4.30		1.46			0.00275		0.000275	1325		0.0069		<0.0030		0.16
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.1106		0.00150	183.5		0.00000375		0.000100		0.474		0.0542			0.00050		0.000100	72.5		0.00250		0.017		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.0993		<0.0030	177		<0.0000050		<0.00020		0.472		0.0502			<0.0010		<0.00020	69		<0.0050		0.013		
		Maximum		0.122		<0.0030	190		<0.000010		<0.00020		0.477		0.0581			<0.0010		<0.00020	76		<0.0050		0.020		
		Geometric Mean		0.1101		0.00150	183.4		0.00000354		0.000100		0.474		0.0540			0.00050		0.000100	72.4		0.00250		0.016		
		Count <DL		0		2	0		2		2		0		0			2		2	0		2		0		
		Standard Deviation		0.0161		0.00000	9.2		0.00000177		0.000000		0.004		0.0056			0.00000		0.000000	4.9		0.00000		0.005		
		1st Quartile		0.1050		<0.0030	180.2		0.00000313		<0.00020		0.473		0.0522			<0.0010		<0.00020	70.8		<0.0050		0.015		
		Median		0.1106		<0.0030	183.5		0.00000375		<0.00020		0.474		0.0542			<0.0010		<0.00020	72.5		<0.0050		0.017		
		3rd Quartile		0.1163		<0.0030	186.8		0.00000438		<0.00020		0.476		0.0561			<0.0010		<0.00020	74.2		<0.0050		0.018		
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.0822		0.01120	138.5		0.00000375		0.000100		4.56		0.363			0.00050		0.000100	110.0		0.00250		0.0097		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.0722		<0.0030	137		<0.0000050		<0.00020		4.37		0.350			<0.0010		<0.00020	100		<0.0050		0.0055		
		Maximum		0.0921		0.0209	140		<0.000010		<0.00020		4.75		0.377			<0.0010		<0.00020	120		<0.0050		0.014		
		Geometric Mean		0.0815		0.00560	138.5		0.00000354		0.000100		4.56		0.363			0.00050		0.000100	109.5		0.00250		0.0088		
		Count <DL		0		1	0		2		2		0		0			2		2	0		2		0		
		Standard Deviation		0.0141		0.01372	2.1		0.00000177		0.000000		0.27		0.019			0.00000		0.000000	14.1		0.00000		0.0060		
		1st Quartile		0.0772		0.00635	137.8		0.00000313		<0.00020		4.46		0.357			<0.0010		<0.00020	105.0		<0.0050		0.0076		
		Median		0.0822		0.01120	138.5		0.00000375		<0.00020		4.56		0.363			<0.0010		<0.00020	110.0		<0.0050		0.0097		
		3rd Quartile		0.0871		0.01605	139.2		0.00000438		<0.00020		4.66		0.370			<0.0010		<0.00020	115.0		<0.0050		0.0119		
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2019-20 Statistics Stn.Code			Site Name & Description	Statistic																								
EMS. ID	As-T	As-D			Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
SPD	Settling Pond # 1																											
E218582		Average	0.00129	0.00087	0.0509	0.01866	76.9	0.0000079	0.00000505	0.000497	0.000332	0.589	0.2094	0.1430	0.0979	289	0.00147	0.00102	0.000100	0.000100	254	0.00296	0.00250	0.0077	0.00215	0.0152	0.0290	
		Count	7	10	7	10	12	7	10	7	10	7	10	7	10	7	7	10	7	10	45	7	10	5	4	5	5	
		Minimum	0.00039	0.00031	0.0053	<0.0030	30	<0.000010	<0.0000050	<0.00050	<0.00020	0.178	0.0275	0.0380	0.0271	117	<0.0010	<0.0010	<0.00020	<0.00020	47	<0.0050	<0.0050	0.0043	<0.0030	<0.020	<0.015	
		Maximum	0.00384	0.00232	0.187	0.0711	120	0.000018	0.0000080	0.00150	0.00065	1.35	0.517	0.271	0.230	407	0.0030	0.0021	<0.00020	<0.00020	390	0.0057	<0.0050	0.013	0.0032	0.036	0.055	
		Geometric Mean	0.00099	0.00072	0.0279	0.01035	72.2	0.0000068	0.00000489	0.000376	0.000294	0.485	0.1602	0.1144	0.0776	262	0.00127	0.00090	0.000100	0.000100	235	0.00281	0.00250	0.0072	0.00204	0.0129	0.0210	
		Count <DL	0	0	0	1	0	5	9	5	1	0	0	0	0	0	1	4	7	10	0	6	10	0	2	4	2	
		Standard Deviation	0.00119	0.00061	0.0637	0.02188	25.2	0.0000052	0.00000130	0.000477	0.000166	0.404	0.1421	0.0891	0.0690	119	0.00088	0.00055	0.000000	0.000000	81	0.00121	0.00000	0.0033	0.00082	0.0116	0.0219	
		1st Quartile	0.00068	0.00052	0.0144	0.0057	67.8	<0.000010	<0.000010	<0.00050	0.000225	0.331	0.1308	0.0712	0.0483	203	0.0011	<0.0010	<0.00020	<0.00020	220	<0.0050	<0.0050	0.0063	<0.0030	<0.020	<0.015	
		Median	0.00089	0.00064	0.0296	0.00885	80.0	<0.000010	<0.000010	<0.00050	0.000300	0.499	0.1855	0.155	0.0614	336	0.0011	0.00105	<0.00020	<0.00020	269	<0.0050	<0.0050	0.0067	0.00195	<0.020	0.028	
		3rd Quartile	0.00127	0.00097	0.0527	0.02135	92.2	0.0000085	<0.000010	0.000490	0.000428	0.716	0.2655	0.1975	0.1512	381	0.00175	0.00125	<0.00020	<0.00020	310	<0.0050	<0.0050	0.0082	0.00260	<0.020	0.047	
LLE	Long Lake Entrance (LLE)	Average	0.00080	0.00066	0.0515	0.02248	63.0	0.0000050	0.00000409	0.000359	0.000368	0.541	0.3567	0.0704	0.0702	219.1	0.00050	0.00050	0.000100	0.000100	196.0	0.00320	0.00292	0.00301		0.0349	0.0264	
E292130		Count	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	45	11	11	11		11	11	
		Minimum	0.00054	0.00045	0.0038	<0.0030	28	<0.000010	<0.0000050	<0.00050	<0.00020	0.156	0.0764	0.0112	0.0106	92.3	<0.0010	<0.0010	<0.00020	<0.00020	57	<0.0050	<0.0050	<0.0030		<0.020	<0.015	
		Maximum	0.00121	0.00093	0.101	0.0455	140	<0.000010	<0.000010	0.00081	0.00072	1.05	0.985	0.151	0.152	547	<0.0010	<0.0010	<0.00020	<0.00020	620	0.0102	0.0071	0.0079		0.141	0.052	
		Geometric Mean	0.00078	0.00064	0.0340	0.01339	53.8	0.0000050	0.00000389	0.000323	0.000332	0.473	0.2707	0.0545	0.0534	182.3	0.00050	0.00050	0.000100	0.000100	157.1	0.00284	0.00275	0.00255		0.0228	0.0185	
		Count <DL	0	0	0	2	0	11	11	8	1	0	0	0	0	0	11	11	11	11	0	10	10	5		5	5	
		Standard Deviation	0.00020	0.00016	0.0370	0.01636	39.8	0.0000000	0.00000126	0.000197	0.000162	0.266	0.2717	0.0447	0.0454	156.9	0.00000	0.00000	0.000000	0.000000	153.3	0.00232	0.00139	0.00200		0.0395	0.0204	
		1st Quartile	0.00071	0.00054	0.0186	0.00785	35.1	<0.000010	<0.0000050	<0.00050	0.000300	0.373	0.1400	0.0388	0.0370	126.0	<0.0010	<0.0010	<0.00020	<0.00020	110	<0.0050	<0.0050	<0.0030		<0.020	<0.015	
		Median	0.00081	0.00065	0.0506	0.0214	41.5	<0.000010	<0.000010	<0.00050	0.00033	0.556	0.334	0.0624	0.0638	142	<0.0010	<0.0010	<0.00020	<0.00020	140	<0.0050	<0.0050	0.0027		0.024	0.016	
		3rd Quartile	0.00082	0.00077	0.0859	0.03705	80	<0.000010	<0.000010	0.000395	0.00045	0.688	0.4685	0.1019	0.1038	246.0	<0.0010	<0.0010	<0.00020	<0.00020	180	<0.0050	<0.0050	0.00360		0.039	0.0460	
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2019-20 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
LLM1	Long Lake Middle 1 metre below Surface	Average	0.00042	0.00040	0.0243	0.0188	23.3	0.0000050	0.00000411	0.000303	0.00035	0.065	0.0430	0.00714	0.00496	65.4	0.00050	0.00050	0.000100	0.000100	50.9	0.00250	0.00250	0.00377	0.00392	0.0158		
E206619		Count	14	14	14	14	10	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	6	12	5		
		Minimum	0.00029	0.00026	0.0080	0.0067	14	<0.000010	<0.0000050	<0.00050	0.00026	0.014	0.0137	<0.0010	<0.0010	23.4	<0.0010	<0.0010	<0.00020	<0.00020	10	<0.0050	<0.0050	<0.0030	<0.0020	<0.020		
		Maximum	0.00054	0.00053	0.0578	0.0450	30.2	<0.000010	<0.000010	0.00071	0.00051	0.133	0.0825	0.0148	0.0121	103	<0.0010	<0.0010	<0.00020	<0.00020	85	<0.0050	<0.0050	0.0070	<0.010	0.039		
		Geometric Mean	0.00041	0.00039	0.0204	0.0166	23.0	0.0000050	0.00000390	0.000284	0.00035	0.054	0.0373	0.00595	0.00380	61.1	0.00050	0.00050	0.000100	0.000100	45.1	0.00250	0.00250	0.00323	0.00343	0.0131		
		Count <DL	0	0	0	0	0	14	14	12	0	0	0	0	1	1	0	14	14	14	14	0	14	14	2	11	4	
		Standard Deviation	0.00009	0.00010	0.0138	0.0099	4.0	0.0000000	0.00000124	0.000139	0.00006	0.036	0.0206	0.00342	0.00317	23.9	0.00000	0.00000	0.0000000	0.0000000	23.3	0.00000	0.00000	0.00211	0.00166	0.0130		
		1st Quartile	0.00033	0.00030	0.0113	0.0129	23	<0.000010	<0.0000050	<0.00050	0.00031	0.031	0.0300	0.00525	0.00263	50.9	<0.0010	<0.0010	<0.00020	<0.00020	36.5	<0.0050	<0.0050	0.00198	0.00263	<0.020		
		Median	0.00044	0.00042	0.0245	0.0190	23.6	<0.000010	<0.000010	<0.00050	0.00035	0.066	0.0435	0.00720	0.00480	57.9	<0.0010	<0.0010	<0.00020	<0.00020	43.8	<0.0050	<0.0050	0.00395	<0.010	<0.020		
		3rd Quartile	0.00052	0.00049	0.0310	0.0233	24.3	<0.000010	<0.000010	<0.00050	0.00038	0.089	0.0568	0.00822	0.00630	88.5	<0.0010	<0.0010	<0.00020	<0.00020	73.5	<0.0050	<0.0050	0.00465	<0.010	<0.020		
LLMB	Long Lake Middle 1 metre From Bottom	Average	0.00026	0.00021	0.0133	0.00870	53.5	0.0000050	0.00000411	0.000250	0.00029	0.055	0.0167	0.4699	0.3841	145.4	0.00050	0.00050	0.000100	0.000100	132.9	0.00250	0.00269	0.00205	0.00396	0.052		
E206619		Count	14	14	14	14	10	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	6	12	5		
		Minimum	0.00021	0.00016	0.0054	<0.0030	44.5	<0.000010	<0.0000050	<0.00050	0.00024	0.034	0.0054	0.0834	0.0323	126	<0.0010	<0.0010	<0.00020	<0.00020	102	<0.0050	<0.0050	<0.0030	<0.0030	0.039		
		Maximum	0.00034	0.00034	0.0274	0.0183	57	<0.000010	<0.000010	<0.00050	0.00036	0.085	0.0412	1.24	1.08	158	<0.0010	<0.0010	<0.00020	<0.00020	150	<0.0050	0.0051	0.0040	<0.010	0.057		
		Geometric Mean	0.00026	0.00020	0.0115	0.00717	53.4	0.0000050	0.00000390	0.000250	0.00029	0.052	0.0124	0.2865	0.1958	145.1	0.00050	0.00050	0.000100	0.000100	132.3	0.00250	0.00263	0.00190	0.00355	0.052		
		Count <DL	0	0	0	1	0	14	14	14	0	0	0	0	0	0	14	14	14	14	0	14	13	4	11	0		
		Standard Deviation	0.00003	0.00005	0.0075	0.00502	3.5	0.0000000	0.00000124	0.000000	0.00003	0.017	0.0134	0.4484	0.4105	9.6	0.00000	0.00000	0.0000000	0.0000000	11.6	0.00000	0.00069	0.00101	0.00159	0.007		
		1st Quartile	0.00023	0.00016	0.0073	0.00465	53.1	<0.000010	<0.0000050	<0.00050	0.00026	0.040	0.0066	0.1070	0.0787	143.2	<0.0010	<0.0010	<0.00020	<0.00020	130	<0.0050	<0.0050	<0.0030	0.00263	0.054		
		Median	0.00026	0.00020	0.0097	0.00755	54.2	<0.000010	<0.000010	<0.00050	0.00030	0.052	0.0083	0.2305	0.1120	146	<0.0010	<0.0010	<0.00020	<0.00020	132.5	<0.0050	<0.0050	<0.0030	<0.010	0.055		
		3rd Quartile	0.00028	0.00023	0.0200	0.01327	55.1	<0.000010	<0.000010	<0.00050	0.00031	0.070	0.0301	0.9370	0.8090	153.5	<0.0010	<0.0010	<0.00020	<0.00020	140	<0.0050	<0.0050	0.00210	<0.010	0.056		
Notes:			Factor applied to less-than results when calculating statistics: 0.5																									

Table 47 Statistics 2019-2023 85 Page(s)

2019-20 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
LLO	Long Lake Outlet	Average	0.00042	0.00039	0.0276	0.0163	30.3	0.0000050	0.00000411	0.000278	0.00034	0.074	0.0387	0.0092	0.0041	73.0	0.00050	0.00050	0.000100	0.000100	64.8	0.00250	0.00282			0.023	
E219412		Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	26	14	14			1	
		Minimum	0.00026	0.00025	0.0088	0.0045	21.3	<0.000010	<0.0000050	<0.00050	0.00025	0.018	0.0093	0.0041	0.0013	48.0	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050			0.023	
		Maximum	0.00054	0.00047	0.0866	0.0274	39	<0.000010	<0.000010	0.00064	0.00062	0.214	0.0592	0.0227	0.0093	99.9	<0.0010	<0.0010	<0.00020	<0.00020	97	<0.0050	0.0070			0.023	
		Geometric Mean	0.00041	0.00038	0.0229	0.0138	29.6	0.0000050	0.00000390	0.000267	0.00033	0.060	0.0318	0.0084	0.0033	70.5	0.00050	0.00050	0.000100	0.000100	56.8	0.00250	0.00269			0.023	
		Count <DL	0	0	0	0	0	14	14	13	0	0	0	0	0	0	14	14	14	14	0	14	13			0	
		Standard Deviation	0.00008	0.00008	0.0197	0.0084	6.6	0.0000000	0.00000124	0.000104	0.00010	0.049	0.0195	0.0047	0.0028	19.7	0.00000	0.00000	0.000000	0.000000	23.4	0.00000	0.00120			0.000	
		1st Quartile	0.00035	0.00031	0.0152	0.0073	25.2	<0.000010	<0.0000050	<0.00050	0.00028	0.040	0.0181	0.0060	0.0016	54.5	<0.0010	<0.0010	<0.00020	<0.00020	46.4	<0.0050	<0.0050			0.023	
		Median	0.00046	0.00042	0.0239	0.0175	28.6	<0.000010	<0.000010	<0.00050	0.00034	0.075	0.0455	0.0081	0.0037	68.9	<0.0010	<0.0010	<0.00020	<0.00020	67.3	<0.0050	<0.0050			0.023	
		3rd Quartile	0.00047	0.00045	0.0332	0.0232	36	<0.000010	<0.000010	<0.00050	0.00037	0.089	0.0547	0.0105	0.0062	93.3	<0.0010	<0.0010	<0.00020	<0.00020	81.2	<0.0050	<0.0050			0.023	
WB	Middle Quinsam Lake Outlet	Average	0.00019	0.00018	0.0220	0.0133	38.0	0.0000050	0.00000411	0.000442	0.00047	0.054	0.0283	0.0074	0.0032	39.2	0.00050	0.00050	0.000100	0.000100	31.4	0.00250	0.00250			0.0100	
E0900504		Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	14	14			1	
		Minimum	0.00014	0.00013	0.0103	0.0076	24	<0.000010	<0.0000050	<0.00050	0.00038	0.030	0.0205	0.0039	0.0022	24.5	<0.0010	<0.0010	<0.00020	<0.00020	9.0	<0.0050	<0.0050			<0.020	
		Maximum	0.00028	0.00024	0.0869	0.0189	47.5	<0.000010	<0.000010	0.00084	0.00062	0.166	0.0378	0.0134	0.0064	51.0	<0.0010	<0.0010	<0.00020	<0.00020	57.9	<0.0050	<0.0050			<0.020	
		Geometric Mean	0.00019	0.00018	0.0183	0.0127	37.0	0.0000050	0.00000390	0.000403	0.00046	0.049	0.0279	0.0071	0.0031	38.0	0.00050	0.00050	0.000100	0.000100	25.7	0.00250	0.00250			0.0100	
		Count <DL	0	0	0	0	0	14	14	6	0	0	0	0	0	0	14	14	14	14	0	14	14			1	
		Standard Deviation	0.00004	0.00003	0.0195	0.0041	8.3	0.0000000	0.00000124	0.000196	0.00006	0.033	0.0047	0.0023	0.0011	9.2	0.00000	0.00000	0.000000	0.000000	16.9	0.00000	0.00000			0.0000	
		1st Quartile	0.00017	0.00017	0.0137	0.0102	30.6	<0.000010	<0.0000050	<0.00050	0.00044	0.041	0.0266	0.0059	0.0025	30.6	<0.0010	<0.0010	<0.00020	<0.00020	9.4	<0.0050	<0.0050			<0.020	
		Median	0.00018	0.00018	0.0146	0.0123	40.4	<0.000010	<0.000010	0.000505	0.00047	0.046	0.0284	0.0073	0.0029	41.9	<0.0010	<0.0010	<0.00020	<0.00020	38	<0.0050	<0.0050			<0.020	
		3rd Quartile	0.00020	0.00020	0.0219	0.0175	44.7	<0.000010	<0.000010	0.00053	0.00048	0.054	0.0293	0.0083	0.0037	45.4	<0.0010	<0.0010	<0.00020	<0.00020	42.2	<0.0050	<0.0050			<0.020	

Table 47 Statistics 2019-2023 85 Page(s)

2019-20 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
7SSD	Settling Pond at 7S- Discharge to Stream 1 -7S																											
E292069		Average	0.00481	0.00458	0.0197	0.00357	129	0.0000050	0.00000393	0.00085	0.00073	0.061	0.0160	0.0878	0.0733	147.5	0.00050	0.00050	0.000100	0.000100	34.7	0.00250	0.00250	0.021		0.0100	0.041	
		Count	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	1		1	1
		Minimum	0.00102	0.00082	0.0097	<0.0030	88	<0.000010	<0.0000050	0.00051	0.00037	0.030	0.0073	0.0247	0.0031	87.6	<0.0010	<0.0010	<0.00020	<0.00020	21	<0.0050	<0.0050	0.021		<0.020	0.041	
		Maximum	0.00966	0.00923	0.0365	0.0075	190	<0.000010	<0.000010	0.00113	0.00099	0.149	0.0307	0.335	0.398	225	<0.0010	<0.0010	<0.00020	<0.00020	97.3	<0.0050	<0.0050	0.021		<0.020	0.041	
		Geometric Mean	0.00354	0.00326	0.0182	0.00295	124	0.0000050	0.00000371	0.00082	0.00069	0.053	0.0147	0.0575	0.0203	138.4	0.00050	0.00050	0.000100	0.000100	29.3	0.00250	0.00250	0.021		0.0100	0.041	
		Count <DL	0	0	0	3	0	7	7	0	0	0	0	0	0	0	7	7	7	7	0	7	7	0		1	0	
		Standard Deviation	0.00370	0.00363	0.0087	0.00230	39	0.0000000	0.00000134	0.00023	0.00022	0.041	0.0074	0.1110	0.1442	56.8	0.00000	0.00000	0.000000	0.000000	27.8	0.00000	0.00000	0.000		0.0000	0.000	
		1st Quartile	0.00211	0.00190	0.0144	<0.0030	97	<0.000010	<0.0000050	0.00068	0.00058	0.038	0.0128	0.0367	0.0066	101.5	<0.0010	<0.0010	<0.00020	<0.00020	21.5	<0.0050	<0.0050	0.021		<0.020	0.041	
		Median	0.00265	0.00259	0.0199	0.0033	118	<0.000010	<0.000010	0.00088	0.00083	0.046	0.0142	0.0440	0.0177	127	<0.0010	<0.0010	<0.00020	<0.00020	23	<0.0050	<0.0050	0.021		<0.020	0.041	
	3rd Quartile	0.00807	0.00782	0.0215	0.00485	158	<0.000010	<0.000010	0.00102	0.00087	0.062	0.0172	0.0687	0.0406	195.0	<0.0010	<0.0010	<0.00020	<0.00020	29.3	<0.0050	<0.0050	0.021		<0.020	0.041		
7S	Stream 1-7S discharge to LWO	Average	0.000059	0.000050	0.0283	0.0227	14.2	0.0000050	0.00000429	0.000287	0.00028	0.0103	0.00357	0.00050	0.00050	17.0	0.00050	0.00050	0.000100	0.000100	5.1	0.00250	0.00250					
E292109		Count	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7					
		Minimum	<0.00010	<0.00010	0.0182	0.0162	9.2	<0.000010	<0.0000050	<0.00050	0.00023	<0.010	<0.0050	<0.0010	<0.0010	12.9	<0.0010	<0.0010	<0.00020	<0.00020	3.9	<0.0050	<0.0050					
		Maximum	0.00011	<0.00010	0.0482	0.0358	22	<0.000010	<0.000010	0.00051	0.00041	0.017	0.0100	<0.0010	<0.0010	22.5	<0.0010	<0.0010	<0.00020	<0.00020	7.3	<0.0050	<0.0050					
		Geometric Mean	0.000056	0.000050	0.0270	0.0220	13.7	0.0000050	0.00000410	0.000277	0.00027	0.0091	0.00305	0.00050	0.00050	16.6	0.00050	0.00050	0.000100	0.000100	5.0	0.00250	0.00250					
		Count <DL	6	7	0	0	0	7	7	6	0	3	6	7	7	0	7	7	7	7	0	7	7					
		Standard Deviation	0.000023	0.000000	0.0100	0.0066	4.5	0.0000000	0.00000122	0.000098	0.00007	0.0052	0.00283	0.00000	0.00000	3.7	0.00000	0.00000	0.000000	0.000000	1.2	0.00000	0.00000					
		1st Quartile	<0.00010	<0.00010	0.0223	0.0188	10.9	<0.000010	0.00000375	<0.00050	0.00024	<0.010	<0.0050	<0.0010	<0.0010	13.7	<0.0010	<0.0010	<0.00020	<0.00020	4.2	<0.0050	<0.0050					
		Median	<0.00010	<0.00010	0.0264	0.0211	14	<0.000010	<0.000010	<0.00050	0.00024	0.012	<0.0050	<0.0010	<0.0010	16.8	<0.0010	<0.0010	<0.00020	<0.00020	4.7	<0.0050	<0.0050					
		3rd Quartile	<0.00010	<0.00010	0.0305	0.0243	16.3	<0.000010	<0.000010	<0.00050	0.00030	0.014	<0.0050	<0.0010	<0.0010	19.6	<0.0010	<0.0010	<0.00020	<0.00020	5.8	<0.0050	<0.0050					
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2019-20 Statistics																											
Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0813A	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (No. 4 Seam)	Average		0.383		0.00150	186.7		0.0000050		0.000100		0.222		0.0403			0.00050		0.000100	33.3		0.00250		0.034		
		Count		3		3	3		3		3		3		3			3		3	3		3		3		
		Minimum		0.371		<0.0030	180		<0.000010		<0.00020		0.166		0.0349			<0.0010		<0.00020	28		<0.0050		0.020		
		Maximum		0.398		<0.0030	190		<0.000010		<0.00020		0.317		0.0508			<0.0010		<0.00020	36		<0.0050		0.055		
		Geometric Mean		0.383		0.00150	186.6		0.0000050		0.000100		0.212		0.0396			0.00050		0.000100	33.1		0.00250		0.031		
		Count <DL		0		3	0		3		3		0		0			3		3	0		3		0		
		Standard Deviation		0.014		0.00000	5.8		0.0000000		0.000000		0.083		0.0091			0.00000		0.000000	4.6		0.00000		0.019		
		1st Quartile		0.376		<0.0030	185.0		<0.000010		<0.00020		0.174		0.0350			<0.0010		<0.00020	32.0		<0.0050		0.024		
		Median		0.380		<0.0030	190		<0.000010		<0.00020		0.182		0.0351			<0.0010		<0.00020	36		<0.0050		0.027		
		3rd Quartile		0.389		<0.0030	190		<0.000010		<0.00020		0.249		0.0430			<0.0010		<0.00020	36		<0.0050		0.041		
QU0813B	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (Till & SST contact)	Average		0.474		0.00150	135.0		0.0000050		0.000100		0.1392		0.0757			0.00050		0.000100	34.5		0.00250		0.053		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.462		<0.0030	110		<0.000010		<0.00020		0.0594		0.0673			<0.0010		<0.00020	32		<0.0050		0.039		
		Maximum		0.486		<0.0030	160		<0.000010		<0.00020		0.219		0.0841			<0.0010		<0.00020	37		<0.0050		0.067		
		Geometric Mean		0.474		0.00150	132.7		0.0000050		0.000100		0.1141		0.0752			0.00050		0.000100	34.4		0.00250		0.051		
		Count <DL		0		2	0		2		2		0		0			2		2	0		2		0		
		Standard Deviation		0.017		0.00000	35.4		0.0000000		0.000000		0.1129		0.0119			0.00000		0.000000	3.5		0.00000		0.020		
		1st Quartile		0.468		<0.0030	122.5		<0.000010		<0.00020		0.0993		0.0715			<0.0010		<0.00020	33.2		<0.0050		0.046		
		Median		0.474		<0.0030	135.0		<0.000010		<0.00020		0.1392		0.0757			<0.0010		<0.00020	34.5		<0.0050		0.053		
		3rd Quartile		0.480		<0.0030	147.5		<0.000010		<0.00020		0.1791		0.0799			<0.0010		<0.00020	35.8		<0.0050		0.060		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2019-20 Statistics																											
Stn.Code	Site Name & Description	Statistic																									
EMS. ID			As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average		0.158		0.00525	203.0		0.0000163		0.000350		0.963		0.1383			0.00175		0.000350	0.90		0.0088		0.080		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.109		<0.0060	200		<0.000010		<0.00040		0.689		0.0500			<0.0020		<0.00040	<1.0		<0.010		0.015		
		Maximum		0.231		<0.015	210		<0.000050		<0.0010		1.53		0.238			<0.0050		<0.0010	2.1		<0.025		0.17		
		Geometric Mean		0.152		0.00474	203.0		0.0000133		0.000316		0.914		0.1192			0.00158		0.000316	0.72		0.0079		0.055		
		Count <DL		0		4	0		4		4		0		0			4		4	3		4		0		
		Standard Deviation		0.052		0.00260	4.8		0.0000103		0.000173		0.387		0.0796			0.00087		0.000173	0.80		0.0043		0.070		
		1st Quartile		0.132		<0.0060	200		0.0000088		<0.00040		0.730		0.0935			<0.0020		<0.00040	<1.0		<0.010		0.030		
		Median		0.147		0.00525	201.0		0.0000175		0.000350		0.817		0.1325			0.00175		0.000350	<1.0		0.0088		0.068		
		3rd Quartile		0.172		<0.015	204.0		<0.000050		<0.0010		1.051		0.1772			<0.0050		<0.0010	0.90		<0.025		0.118		
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average		0.179		0.00632	198.5		0.00001688		0.000350		0.617		0.1010			0.00175		0.000350	0.50		0.00875		0.095		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.125		<0.0060	190		<0.0000050		<0.00020		0.247		0.0403			<0.0010		<0.00020	<1.0		<0.0050		0.024		
		Maximum		0.222		<0.030	204		<0.00010		<0.0020		1.15		0.144			<0.010		<0.0020	<1.0		<0.050		0.18		
		Geometric Mean		0.175		0.00495	198.4		0.00000889		0.000211		0.533		0.0902			0.00106		0.000211	0.50		0.00529		0.074		
		Count <DL		0		2	0		4		4		0		0			4		4	4		4		0		
		Standard Deviation		0.040		0.00579	6.0		0.00002230		0.000436		0.383		0.0485			0.00218		0.000436	0.00		0.01090		0.069		
		1st Quartile		0.168		0.00337	197.5		0.00000438		<0.00020		0.425		0.0728			<0.0010		<0.00020	<1.0		<0.0050		0.049		
		Median		0.184		0.00365	200		0.00000750		0.000150		0.535		0.1099			0.00075		0.000150	<1.0		0.00375		0.088		
		3rd Quartile		0.195		0.00660	201.0		0.00002000		0.000400		0.726		0.1380			0.00200		0.000400	<1.0		0.01000		0.135		
QU1010D																											
		Average		0.0148		0.0622	87.5		0.0000250		0.00090		10.30		0.418			0.00250		0.00050	0.50		0.0125		0.03325		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.0147		<0.015	87		<0.000050		<0.0010		9.60		0.409			<0.0050		<0.0010	<1.0		<0.025		<0.0030		
		Maximum		0.0149		0.117	88		<0.000050		0.0013		11.0		0.427			<0.0050		<0.0010	<1.0		<0.025		0.065		
		Geometric Mean		0.0148		0.0296	87.5		0.0000250		0.00081		10.28		0.418			0.00250		0.00050	0.50		0.0125		0.00987		
		Count <DL		0		1	0		2		1		0		0			2		2	2		2		1		
		Standard Deviation		0.0001		0.0774	0.7		0.0000000		0.00057		0.99		0.013			0.00000		0.00000	0.00		0.0000		0.04490		
		1st Quartile		0.0147		0.0349	87.2		<0.000050		0.00070		9.95		0.413			<0.0050		<0.0010	<1.0		<0.025		0.01738		
		Median		0.0148		0.0622	87.5		<0.000050		0.00090		10.30		0.418			<0.0050		<0.0010	<1.0		<0.025		0.03325		
		3rd Quartile		0.0149		0.0896	87.8		<0.000050		0.00110		10.65		0.422			<0.0050		<0.0010	<1.0		<0.025		0.04913		
Notes:																											
Factor applied to less-than results when calculating statistics: 0.5																											

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2019-20 Statistics		Statistic																									
Stn.Code	Site Name & Description		As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QUI1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average		0.0973		0.0086	150.0		0.0000050		0.000100		0.197		0.0418			0.00050		0.000100	4.6		0.00250		0.025		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.0969		0.0037	150		<0.000010		<0.00020		0.181		0.0389			<0.0010		<0.00020	3.4		<0.0050		0.021		
		Maximum		0.0978		0.0134	150		<0.000010		<0.00020		0.213		0.0448			<0.0010		<0.00020	5.8		<0.0050		0.028		
		Geometric Mean		0.0973		0.0070	150.0		0.0000050		0.000100		0.196		0.0417			0.00050		0.000100	4.4		0.00250		0.024		
		Count <DL		0		0	0		2		2		0		0			2		2	0		2		0		
		Standard Deviation		0.0006		0.0069	0.0		0.0000000		0.000000		0.023		0.0042			0.00000		0.000000	1.7		0.00000		0.005		
		1st Quartile		0.0971		0.0061	150		<0.000010		<0.00020		0.189		0.0404			<0.0010		<0.00020	4.0		<0.0050		0.023		
		Median		0.0973		0.0086	150		<0.000010		<0.00020		0.197		0.0418			<0.0010		<0.00020	4.6		<0.0050		0.025		
		3rd Quartile		0.0976		0.0110	150		<0.000010		<0.00020		0.205		0.0433			<0.0010		<0.00020	5.2		<0.0050		0.026		
QUI1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.0186		0.233	320.0		0.0000050		0.00081		2.21		0.267			0.00050		0.000100	0.50		0.00250		0.072		
		Count		1		1	1		1		1		1		1			1		1	1		1		1		
		Minimum		0.0186		0.233	320		<0.000010		0.00081		2.21		0.267			<0.0010		<0.00020	<1.0		<0.0050		0.072		
		Maximum		0.0186		0.233	320		<0.000010		0.00081		2.21		0.267			<0.0010		<0.00020	<1.0		<0.0050		0.072		
		Geometric Mean		0.0186		0.233	320.0		0.0000050		0.00081		2.21		0.267			0.00050		0.000100	0.50		0.00250		0.072		
		Count <DL		0		0	0		1		0		0		0			1		1	1		1		0		
		Standard Deviation		0.0000		0.000	0.0		0.0000000		0.00000		0.00		0.000			0.00000		0.000000	0.00		0.00000		0.000		
		1st Quartile		0.0186		0.233	320		<0.000010		0.00081		2.21		0.267			<0.0010		<0.00020	<1.0		<0.0050		0.072		
		Median		0.0186		0.233	320		<0.000010		0.00081		2.21		0.267			<0.0010		<0.00020	<1.0		<0.0050		0.072		
		3rd Quartile		0.0186		0.233	320		<0.000010		0.00081		2.21		0.267			<0.0010		<0.00020	<1.0		<0.0050		0.072		
QUI1011S	Ex-situ 2-North shallow groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average	Lab results were not released 2019-2020																								
		Count																									
		Minimum																									
		Maximum																									
		Geometric Mean																									
		Count <DL																									
		Standard Deviation																									
		1st Quartile																									
		Median																									
		3rd Quartile																									
Notes:																											
Factor applied to less-than results when calculating statistics: 0.5																											

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2019 -20 Statistics Stn.Code																												
	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU1105S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.0811		0.00225	245.0		0.0000050		0.000100		1.062		0.1496			0.00050		0.000100	125.0		0.00250		0.0086			
		Count		2		2	2		2		2		2		2			2		2	2		2		2			
		Minimum			0.0522		<0.0030	200		<0.000010		<0.00020		0.824		0.0862			<0.0010		<0.00020	100		<0.0050		0.0079		
		Maximum			0.110		0.0030	290		<0.000010		<0.00020		1.30		0.213			<0.0010		<0.00020	150		<0.0050		0.0093		
		Geometric Mean			0.0758		0.00212	240.8		0.0000050		0.000100		1.035		0.1355			0.00050		0.000100	122.5		0.00250		0.0086		
		Count <DL			0		1	0		2		2		0		0			2		2	0		2		0		
		Standard Deviation			0.0409		0.00106	63.6		0.0000000		0.0000000		0.337		0.0897			0.000000		0.0000000	35.4		0.000000		0.0010		
		1st Quartile			0.0667		0.00187	222.5		<0.000010		<0.00020		0.943		0.1179			<0.0010		<0.00020	112.5		<0.0050		0.0083		
		Median			0.0811		0.00225	245.0		<0.000010		<0.00020		1.062		0.1496			<0.0010		<0.00020	125.0		<0.0050		0.0086		
		3rd Quartile			0.0955		0.00263	267.5		<0.000010		<0.00020		1.181		0.1813			<0.0010		<0.00020	137.5		<0.0050		0.0089		
QU1109S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.146		0.00150	410.0		0.0000050		0.000100		0.132		0.0257			0.00050		0.000100	210.0		0.00250		0.033			
		Count			2		2	2		2		2		2		2			2		2	2		2		1		
		Minimum			0.142		<0.0030	400		<0.000010		<0.00020		0.116		0.0230			<0.0010		<0.00020	200		<0.0050		0.033		
		Maximum			0.150		<0.0030	420		<0.000010		<0.00020		0.147		0.0284			<0.0010		<0.00020	220		<0.0050		0.033		
		Geometric Mean			0.146		0.00150	409.9		0.0000050		0.000100		0.131		0.0256			0.00050		0.000100	209.8		0.00250		0.033		
		Count <DL			0		2	0		2		2		0		0			2		2	0		2		0		
		Standard Deviation			0.006		0.000000	14.1		0.0000000		0.0000000		0.022		0.0038			0.000000		0.0000000	14.1		0.000000		0.000		
		1st Quartile			0.144		<0.0030	405.0		<0.000010		<0.00020		0.124		0.0244			<0.0010		<0.00020	205.0		<0.0050		0.033		
		Median			0.146		<0.0030	410.0		<0.000010		<0.00020		0.132		0.0257			<0.0010		<0.00020	210.0		<0.0050		0.033		
		3rd Quartile			0.148		<0.0030	415.0		<0.000010		<0.00020		0.139		0.0271			<0.0010		<0.00020	215.0		<0.0050		0.033		
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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2019 -20 Statistics		Statistic																									
Stn.Code	Site Name & Description																										
EMS. ID			As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
75QR	7-South Quinsam River downstream of 7-South Mining Operation	Average	0.00037	0.00033	0.0277	0.0150	36.9	0.0000050	0.00000400	0.000553	0.000456	0.103	0.0632	0.0061	0.0045	36.7	0.00050	0.00050	0.000100	0.000100	29.1	0.00250	0.00269				
E292113		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15				
		Minimum	0.00024	0.00021	0.0145	0.0076	26	<0.000010	<0.0000050	<0.00050	<0.00020	0.076	0.0459	0.0048	0.0012	25.3	<0.0010	<0.0010	<0.00020	<0.00020	7.9	<0.0050	<0.0050				
		Maximum	0.00047	0.00042	0.0689	0.0343	45.3	<0.000010	<0.000010	0.00107	0.00063	0.187	0.106	0.0096	0.0064	44.6	<0.0010	<0.0010	<0.00020	<0.00020	49.0	<0.0050	0.0053				
		Geometric Mean	0.00036	0.00033	0.0248	0.0138	36.3	0.0000050	0.00000379	0.000502	0.000429	0.099	0.0608	0.0060	0.0043	36.0	0.00050	0.00050	0.000100	0.000100	24.5	0.00250	0.00263				
		Count <DL	0	0	0	0	0	15	15	4	1	0	0	0	0	0	15	15	15	15	0	15	14				
		Standard Deviation	0.00007	0.00007	0.0149	0.0071	6.5	0.0000000	0.00000127	0.000233	0.000123	0.030	0.0196	0.0013	0.0013	7.1	0.00000	0.00000	0.000000	0.000000	14.3	0.00000	0.00072				
		1st Quartile	0.00032	0.00028	0.0161	0.0100	31.5	<0.000010	<0.0000050	0.000380	0.000420	0.084	0.0484	0.0052	0.0039	29.8	<0.0010	<0.0010	<0.00020	<0.00020	16.2	<0.0050	<0.0050				
		Median	0.00039	0.00036	0.0240	0.0154	39.7	<0.000010	<0.000010	0.00058	0.00046	0.092	0.0563	0.0054	0.0044	40.6	<0.0010	<0.0010	<0.00020	<0.00020	33	<0.0050	<0.0050				
		3rd Quartile	0.00043	0.00039	0.0328	0.0169	41.8	<0.000010	<0.000010	0.000650	0.000510	0.106	0.0706	0.0069	0.0054	41.5	<0.0010	<0.0010	<0.00020	<0.00020	40.2	<0.0050	<0.0050				
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

Table 47 Statistics 2019-2023 85 Page(s)

2019 -20 Statistics Stn.Code																												
	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
LQL1	Lower Quinsam Lake 1 metre below surface	Average	0.00058	0.00053	0.0294	0.0186	33.3	0.0000050	0.00000538	0.000526	0.00052	0.065	0.0440	0.0049	0.00269	34.0	0.00050	0.00050	0.000100	0.000100	20.8	0.00250	0.00250	0.00282	0.0040	0.0820		
E292118		Count	8	8	8	8	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	4	7	4		
		Minimum	0.00046	0.00040	0.0090	0.0070	31.1	<0.000010	<0.0000050	<0.00050	0.00037	0.041	0.0285	0.0027	<0.0010	33.0	<0.0010	<0.0010	<0.00020	<0.00020	13	<0.0050	<0.0050	<0.0030	0.0025	<0.020		
		Maximum	0.00072	0.00068	0.0646	0.0358	36.1	<0.000010	0.0000130	0.00062	0.00076	0.100	0.0588	0.0062	0.0059	36.0	<0.0010	<0.0010	<0.00020	<0.00020	29.7	<0.0050	<0.0050	0.0047	<0.010	0.164		
		Geometric Mean	0.00057	0.00052	0.0220	0.0153	33.3	0.0000050	0.00000474	0.000509	0.00051	0.062	0.0428	0.0047	0.00218	34.0	0.00050	0.00050	0.000100	0.000100	20.0	0.00250	0.00250	0.00248	0.0039	0.0392		
		Count <DL	0	0	0	0	0	8	6	1	0	0	0	0	1	0	8	8	8	8	0	8	8	2	3	2		
		Standard Deviation	0.00011	0.00011	0.0219	0.0117	2.1	0.0000000	0.00000328	0.000122	0.00012	0.021	0.0106	0.0011	0.00167	1.0	0.00000	0.00000	0.0000000	0.0000000	6.0	0.00000	0.00000	0.00159	0.0010	0.0835		
		1st Quartile	0.00049	0.00043	0.0100	0.0088	32.5	<0.000010	0.00000438	0.000508	0.00047	0.049	0.0358	0.0043	0.00153	33.5	<0.0010	<0.0010	<0.00020	<0.00020	16	<0.0050	<0.0050	<0.0030	0.0034	<0.020		
		Median	0.00058	0.00052	0.0246	0.0163	33.0	<0.000010	<0.000010	0.000550	0.00050	0.063	0.0461	0.0052	0.00270	33.6	<0.0010	<0.0010	<0.00020	<0.00020	20.6	<0.0050	<0.0050	0.00255	0.0038	0.0770		
		3rd Quartile	0.00067	0.00062	0.0457	0.0261	33.9	<0.000010	<0.000010	0.000612	0.00057	0.079	0.0502	0.0056	0.00325	34.6	<0.0010	<0.0010	<0.00020	<0.00020	25.1	<0.0050	<0.0050	0.00387	<0.010	0.1490		
LQLB	LQLB 1 metre from Bottom	Average	0.00100	0.00062	0.0379	0.0225	33.3	0.0000081	0.00000667	0.00066	0.00062	0.471	0.2050	0.2039	0.1917	35.8	0.00050	0.00050	0.000100	0.000100	24.7	0.00250	0.00318	0.00398	0.00441	0.0152		
E292118		Count	9	9	9	9	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	8	5		
		Minimum	0.00047	0.00039	0.0218	0.0126	31.7	<0.000010	<0.0000050	0.00057	0.00049	0.092	0.0552	0.0065	0.0041	34.6	<0.0010	<0.0010	<0.00020	<0.00020	21	<0.0050	<0.0050	<0.0030	<0.0020	<0.020		
		Maximum	0.00171	0.00091	0.0601	0.0307	34.4	0.000015	0.0000140	0.00093	0.00101	1.09	0.419	0.532	0.461	37.3	<0.0010	<0.0010	<0.00020	<0.00020	29.6	<0.0050	0.0086	0.0055	0.0075	0.024		
		Geometric Mean	0.00085	0.00059	0.0359	0.0215	33.2	0.0000073	0.00000572	0.00066	0.00061	0.281	0.1421	0.0534	0.0436	35.8	0.00050	0.00050	0.000100	0.000100	24.6	0.00250	0.00287	0.00364	0.00371	0.0139		
		Count <DL	0	0	0	0	0	5	4	0	0	0	0	0	0	0	9	9	9	9	0	9	8	1	5	3		
		Standard Deviation	0.00059	0.00022	0.0133	0.0069	1.1	0.0000039	0.00000386	0.00011	0.00016	0.438	0.1671	0.2336	0.2192	1.0	0.00000	0.00000	0.0000000	0.0000000	2.8	0.00000	0.00203	0.00158	0.00220	0.0072		
		1st Quartile	0.00050	0.00043	0.0266	0.0155	32.5	<0.000010	<0.000010	0.00057	0.00052	0.107	0.0577	0.0075	0.0048	35.1	<0.0010	<0.0010	<0.00020	<0.00020	23	<0.0050	<0.0050	0.0038	0.00345	<0.020		
		Median	0.00058	0.00053	0.0410	0.0236	33.5	<0.000010	0.0000050	0.00065	0.00057	0.134	0.0821	0.0187	0.0154	35.6	<0.0010	<0.0010	<0.00020	<0.00020	25.0	<0.0050	<0.0050	0.0039	<0.010	<0.020		
		3rd Quartile	0.00162	0.00078	0.0469	0.0278	34.2	0.000011	0.000010	0.00068	0.00066	0.861	0.385	0.437	0.431	36.4	<0.0010	<0.0010	<0.00020	<0.00020	25.8	<0.0050	<0.0050	0.0052	0.00530	0.022		
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2020 -21 Statistics Stn.Code																											
EMS_ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
WA			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	0.000102	0.000089	0.0226	0.0179	19.5	0.0000050	0.0000050	0.00082	0.00057	0.019	0.0116	0.00144	0.00050	19.9	0.00050	0.00050	0.000100	0.000100	1.27	0.00250	0.00250	0.01370	0.0050	0.0100	0.0075
		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	1	5	5
		Minimum	<0.00010	<0.00010	0.0176	0.0126	16	<0.000010	<0.000010	0.00052	0.00049	0.011	0.0056	<0.0010	<0.0010	18.2	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Maximum	0.00018	0.00017	0.0397	0.0432	23	<0.000010	<0.000010	0.00337	0.00074	0.036	0.0245	0.0021	<0.0010	21.6	<0.0010	<0.0010	<0.00020	<0.00020	1.7	<0.0050	<0.0050	0.053	<0.010	<0.020	<0.015
		Geometric Mean	0.000092	0.000079	0.0221	0.0170	19.3	0.0000050	0.0000050	0.00071	0.00056	0.018	0.0107	0.00134	0.00050	19.9	0.00050	0.00050	0.000100	0.000100	1.23	0.00250	0.00250	0.00456	0.0050	0.0100	0.0075
		Count <DL	5	8	0	0	0	15	15	0	0	0	0	2	15	0	15	15	15	15	1	15	15	3	1	5	5
		Standard Deviation	0.000044	0.000047	0.0053	0.0073	2.6	0.0000000	0.0000000	0.00071	0.00007	0.007	0.0051	0.00047	0.00000	0.9	0.00000	0.00000	0.000000	0.000000	0.31	0.00000	0.00000	0.02235	0.0000	0.0000	0.0000
		1st Quartile	<0.00010	<0.00010	0.0196	0.0152	17	<0.000010	<0.000010	0.00057	0.00052	0.013	0.0082	0.00125	<0.0010	19.6	<0.0010	<0.0010	<0.00020	<0.00020	1.1	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Median	0.00011	<0.00010	0.0220	0.0164	20	<0.000010	<0.000010	0.00062	0.00055	0.018	0.0101	0.0015	<0.0010	20.0	<0.0010	<0.0010	<0.00020	<0.00020	1.3	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		3rd Quartile	0.000125	0.000125	0.0234	0.0176	21.5	<0.000010	<0.000010	0.00072	0.00058	0.022	0.0132	0.00175	<0.0010	20.4	<0.0010	<0.0010	<0.00020	<0.00020	1.5	<0.0050	<0.0050	0.011	<0.010	<0.020	<0.015
WD	Settling Pond #4	Average	0.00107	0.000651	0.01419	0.00444	391	0.0000226	0.0000077	0.001431	0.000458	1.985	0.5690	0.5045	0.4073	500	0.02765	0.02170	0.000144	0.000140	696	0.01096	0.00665	0.00150		0.0147	0.029
E207409		Count	16	20	16	20	18	16	20	16	20	16	20	16	20	16	16	20	16	20	53	16	20	3		3	3
		Minimum	0.00021	<0.00020	<0.0060	<0.0030	140	<0.000010	<0.000010	<0.00050	<0.00020	0.022	0.0064	0.0570	0.0468	382	<0.0010	<0.0010	<0.00020	<0.00020	420	<0.0050	<0.0050	<0.0030		<0.020	0.024
		Maximum	0.00197	0.00156	0.0405	0.0225	470	0.000061	<0.000050	0.0036	0.00146	14.6	9.82	2.40	2.39	659	0.149	0.149	<0.00040	<0.0010	1300	0.032	0.028	<0.0030		0.024	0.033
		Geometric Mean	0.00087	0.000514	0.00947	0.00295	379	0.0000161	0.0000068	0.001098	0.000362	0.831	0.0297	0.2603	0.1967	492	0.00578	0.00383	0.000135	0.000124	681	0.00719	0.00449	0.00150		0.0134	0.029
		Count <DL	0	2	2	14	0	7	18	4	5	0	1	0	0	0	6	9	16	20	0	8	15	3		2	0
		Standard Deviation	0.00061	0.000390	0.01345	0.00543	79	0.0000184	0.0000049	0.000984	0.000339	3.519	2.1844	0.6256	0.5726	94	0.04063	0.03710	0.000051	0.000094	152	0.00988	0.00719	0.00000		0.0081	0.005
		1st Quartile	0.00056	0.000322	0.00435	<0.0030	355	0.0000088	<0.000010	0.000755	0.000235	0.596	0.0113	0.1057	0.0850	425	0.00088	<0.0010	<0.00020	<0.00020	600	<0.0050	<0.0050	<0.0030		<0.020	0.028
		Median	0.00100	0.000730	0.00840	<0.0060	420	0.0000195	<0.000010	0.001185	0.000355	0.942	0.0130	0.1700	0.1140	466	0.00485	0.00240	<0.00020	<0.00020	710	0.00755	<0.0050	<0.0030		<0.020	0.031
		3rd Quartile	0.00161	0.000915	0.01940	0.00342	440	0.0000322	<0.000020	0.002137	0.000542	1.370	0.0251	0.6552	0.5530	585	0.04235	0.02970	<0.00040	0.000125	760	0.01595	0.00780	<0.0030		0.0170	0.032
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

Table 47 Statistics 2019-2023 85 Page(s)

2020 -21 Statistics Stn.Code																											
EMS_ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
MW001D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average		0.00282		0.00150	340.0		0.000044		0.000250		3.74		2.39			0.0034		0.000100	640		0.00250		0.00530		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.00274		<0.0030	340		0.000021		<0.00020		3.39		2.20			0.0032		<0.00020	580		<0.0050		<0.0030		
		Maximum		0.00289		<0.0030	340		0.000066		0.00040		4.09		2.58			0.0035		<0.00020	700		<0.0050		0.0091		
		Geometric Mean		0.00281		0.00150	340.0		0.000037		0.000200		3.72		2.38			0.0033		0.000100	637		0.00250		0.00369		
		Count <DL		0		2	0		0		1		0		0			0		2	0		2		1		
		Standard Deviation		0.00011		0.00000	0.0		0.000032		0.000212		0.49		0.27			0.0002		0.000000	84		0.00000		0.00537		
		1st Quartile		0.00278		<0.0030	340		0.000032		0.000175		3.56		2.30			0.0033		<0.00020	610		<0.0050		0.00340		
		Median		0.00282		<0.0030	340		0.000044		0.000250		3.74		2.39			0.0034		<0.00020	640		<0.0050		0.00530		
		3rd Quartile		0.00285		<0.0030	340		0.000055		0.000325		3.92		2.49			0.0034		<0.00020	670		<0.0050		0.00720		
MW001S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00088		0.00150	315.0		0.000061		0.00045		0.627		3.06			0.0016		0.000100	665		0.00250		0.00400		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.00077		<0.0030	310		0.000059		0.00039		0.594		2.06			0.0011		<0.00020	600		<0.0050		<0.0030		
		Maximum		0.00100		<0.0030	320		0.000063		0.00051		0.660		4.05			0.0021		<0.00020	730		<0.0050		0.0065		
		Geometric Mean		0.00088		0.00150	315.0		0.000061		0.00045		0.626		2.89			0.0015		0.000100	661		0.00250		0.00312		
		Count <DL		0		2	0		0		0		0		0			0		2	0		2		1		
		Standard Deviation		0.00016		0.00000	7.1		0.000003		0.00008		0.047		1.41			0.0007		0.000000	91		0.00000		0.00354		
		1st Quartile		0.00083		<0.0030	312.5		0.000060		0.00042		0.610		2.56			0.0014		<0.00020	632		<0.0050		0.00275		
		Median		0.00088		<0.0030	315.0		0.000061		0.00045		0.627		3.06			0.0016		<0.00020	665		<0.0050		0.00400		
		3rd Quartile		0.00094		<0.0030	317.5		0.000062		0.00048		0.644		3.55			0.0018		<0.00020	697		<0.0050		0.00525		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

Table 47 Statistics 2019-2023 85 Page(s)

2020 -21 Statistics Stn.Code			-1 Statistics																								
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
MW006D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average		0.0264		0.0100	77.0		0.0000050		0.00064		0.00250		0.0151			0.00050		0.000100	11.0		0.00250		0.11		
		Count		1		1	1		1		1		1		1			1		1	1		1		1		
		Minimum		0.0264		0.0100	77		<0.000010		0.00064		<0.0050		0.0151			<0.0010		<0.00020	11		<0.0050		0.11		
		Maximum		0.0264		0.0100	77		<0.000010		0.00064		<0.0050		0.0151			<0.0010		<0.00020	11		<0.0050		0.11		
		Geometric Mean		0.0264		0.0100	77.0		0.0000050		0.00064		0.00250		0.0151			0.00050		0.000100	11.0		0.00250		0.11		
		Count <DL		0		0	0		1		0		1		0			1		1	0		1		0		
		Standard Deviation		0.0000		0.0000	0.0		0.0000000		0.00000		0.00000		0.0000			0.00000		0.000000	0.0		0.00000		0.00		
		1st Quartile		0.0264		0.0100	77		<0.000010		0.00064		<0.0050		0.0151			<0.0010		<0.00020	11		<0.0050		0.11		
		Median		0.0264		0.0100	77		<0.000010		0.00064		<0.0050		0.0151			<0.0010		<0.00020	11		<0.0050		0.11		
		3rd Quartile		0.0264		0.0100	77		<0.000010		0.00064		<0.0050		0.0151			<0.0010		<0.00020	11		<0.0050		0.11		
MW006S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00171		0.00150	150.0		0.000035		0.00072		0.00250		0.0493			0.00050		0.000100	580.0		0.00250		0.040		
		Count		1		1	1		1		1		1		1			1		1	1		1		1		
		Minimum		0.00171		<0.0030	150		0.000035		0.00072		<0.0050		0.0493			<0.0010		<0.00020	580		<0.0050		0.040		
		Maximum		0.00171		<0.0030	150		0.000035		0.00072		<0.0050		0.0493			<0.0010		<0.00020	580		<0.0050		0.040		
		Geometric Mean		0.00171		0.00150	150.0		0.000035		0.00072		0.00250		0.0493			0.00050		0.000100	580.0		0.00250		0.040		
		Count <DL		0		1	0		0		0		1		0			1		1	0		1		0		
		Standard Deviation		0.00000		0.00000	0.0		0.000000		0.00000		0.00000		0.0000			0.00000		0.000000	0.0		0.00000		0.000		
		1st Quartile		0.00171		<0.0030	150		0.000035		0.00072		<0.0050		0.0493			<0.0010		<0.00020	580		<0.0050		0.040		
		Median		0.00171		<0.0030	150		0.000035		0.00072		<0.0050		0.0493			<0.0010		<0.00020	580		<0.0050		0.040		
		3rd Quartile		0.00171		<0.0030	150		0.000035		0.00072		<0.0050		0.0493			<0.0010		<0.00020	580		<0.0050		0.040		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2020 -21 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
WC	2-North Pit Culvert discharge into Middle Quinsam Lake	Average	0.000466	0.000404	0.00549	0.00431	337.5	0.0000073	0.0000059	0.001678	0.000298	0.154	0.0192	0.1873	0.1900	421	0.00990	0.01007	0.000136	0.000118	648	0.00341	0.00295				
E207411		Count	11	11	11	11	4	11	11	11	11	11	11	11	11	11	11	11	11	11	15	11	11				
		Minimum	<0.00020	<0.00020	<0.0030	<0.0030	320	<0.000010	<0.000010	<0.00050	<0.00020	0.033	0.0084	0.0087	0.0082	283	<0.0010	<0.0010	<0.00020	<0.00020	200	<0.0050	<0.0050				
		Maximum	0.00072	0.00057	0.0149	0.0110	380	0.000010	<0.000020	0.0141	0.00046	0.677	0.082	1.74	1.78	620	0.0722	0.0764	<0.00040	<0.00040	1200	<0.010	<0.010				
		Geometric Mean	0.000416	0.000370	0.00414	0.00321	336.6	0.0000069	0.0000057	0.000556	0.000278	0.110	0.0150	0.0291	0.0280	411	0.00165	0.00145	0.000129	0.000113	610	0.00322	0.00284				
		Count <DL	1	1	6	6	0	10	11	8	1	0	0	0	0	0	8	8	11	11	0	11	11				
		Standard Deviation	0.000187	0.000139	0.00445	0.00341	28.7	0.0000026	0.0000020	0.004123	0.000106	0.178	0.0210	0.5168	0.5290	100	0.02169	0.02293	0.000050	0.000040	216	0.00126	0.00101				
		1st Quartile	0.00033	0.000340	<0.0060	<0.0030	320	<0.000010	<0.000010	<0.00050	0.000250	0.084	0.0110	0.0114	0.0108	359	<0.0010	<0.0010	<0.00020	<0.00020	545	<0.0050	<0.0050				
		Median	0.00054	0.00048	<0.0060	<0.0060	325.0	<0.000010	<0.000010	<0.0010	0.00028	0.111	0.0135	0.0156	0.0157	393	<0.0010	<0.0010	<0.00020	<0.00020	610	<0.0050	<0.0050				
		3rd Quartile	0.000595	0.000485	0.00840	0.00710	342.5	<0.000020	<0.000010	0.000555	0.000370	0.139	0.0156	0.0383	0.0365	480	0.00560	0.00485	<0.00040	<0.00020	695	<0.010	<0.0050				
MQL1	Middle Quinsam Lake 1 metre below surface	Average	0.00016	0.000139	0.0142	0.0114	35.2	0.0000050	0.0000050	0.002941	0.00230	0.038	0.0221	0.0069	0.00213	33.8	0.00050	0.00050	0.000100	0.000100	28.1	0.00250	0.00250	0.00168	0.0050	0.0241	0.0075
E206618		Count	15	15	15	15	13	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	14	10	5
		Minimum	0.00011	<0.00010	0.0083	0.0055	26	<0.000010	<0.000010	<0.00050	0.00037	0.025	0.0169	0.0037	<0.0010	31.3	<0.0010	<0.0010	<0.00020	<0.00020	23	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Maximum	0.00019	0.00018	0.0197	0.0154	44	<0.000010	<0.000010	0.0376	0.0279	0.051	0.0276	0.0107	0.0040	36.8	<0.0010	<0.0010	<0.00020	<0.00020	34	<0.0050	<0.0050	0.0037	<0.010	0.151	<0.015
		Geometric Mean	0.00015	0.000134	0.0137	0.0108	34.8	0.0000050	0.0000050	0.000580	0.00061	0.037	0.0218	0.0066	0.00180	33.8	0.00050	0.00050	0.000100	0.000100	27.9	0.00250	0.00250	0.00162	0.0050	0.0131	0.0075
		Count <DL	0	1	0	0	0	15	15	5	0	0	0	0	2	0	15	15	15	15	0	15	15	11	14	9	5
		Standard Deviation	0.00003	0.000032	0.0037	0.0036	5.7	0.0000000	0.0000000	0.009590	0.00708	0.010	0.0037	0.0022	0.00109	1.8	0.00000	0.00000	0.000000	0.000000	3.6	0.00000	0.00000	0.00064	0.0000	0.0446	0.0000
		1st Quartile	0.00012	0.00012	0.0104	0.0075	31	<0.000010	<0.000010	<0.00050	0.00042	0.028	0.0184	0.0050	0.0013	32.4	<0.0010	<0.0010	<0.00020	<0.00020	25	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Median	0.00017	0.00015	0.0151	0.0129	36	<0.000010	<0.000010	0.00055	0.00048	0.040	0.0225	0.0069	0.0018	33.8	<0.0010	<0.0010	<0.00020	<0.00020	28	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		3rd Quartile	0.00018	0.00016	0.0169	0.0142	39	<0.000010	<0.000010	0.000585	0.00052	0.046	0.0248	0.0081	0.00305	35.0	<0.0010	<0.0010	<0.00020	<0.00020	31	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
MQLB	Middle Quinsam Lake 1 metre from bottom	Average	0.000129	0.000107	0.0104	0.00748	37.5	0.0000050	0.0000050	0.001583	0.00082	0.047	0.0172	0.1063	0.09458	38.2	0.00055	0.00050	0.000100	0.000100	30.9	0.00250	0.00250	0.00385	0.0054	0.0133	0.0127
E206618		Count	15	15	15	15	13	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	14	10	5
		Minimum	<0.00010	<0.00010	0.0063	<0.0030	32	<0.000010	<0.000010	<0.00050	0.00040	0.016	0.0089	0.0033	<0.0010	33.1	<0.0010	<0.0010	<0.00020	<0.00020	29	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Maximum	0.00019	0.00016	0.0168	0.0127	50	<0.000010	<0.000010	0.0163	0.00547	0.236	0.0432	0.820	0.750	44.5	0.0012	<0.0010	<0.00020	<0.00020	36	<0.0050	<0.0050	0.016	0.010	0.027	0.021
		Geometric Mean	0.000123	0.000100	0.0099	0.00642	37.1	0.0000050	0.0000050	0.000642	0.00057	0.033	0.0148	0.0139	0.00631	38.1	0.00053	0.00050	0.000100	0.000100	30.9	0.00250	0.00250	0.00263	0.0053	0.0122	0.0112
		Count <DL	1	3	0	2	0	15	15	2	0	0	0	0	1	0	14	15	15	15	0	15	15	7	13	8	3
		Standard Deviation	0.000036	0.000037	0.0035	0.00342	5.9	0.0000000	0.0000000	0.004074	0.00129	0.058	0.0108	0.2322	0.21320	2.7	0.00018	0.00000	0.000000	0.000000	1.9	0.00000	0.00000	0.00440	0.0013	0.0070	0.0071
		1st Quartile	0.00011	0.00010	0.0078	0.00570	33	<0.000010	<0.000010	0.00052	0.00046	0.020	0.0107	0.0049	0.00175	36.4	<0.0010	<0.0010	<0.00020	<0.00020	30	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Median	0.00012	0.00011	0.0095	0.0070	36	<0.000010	<0.000010	0.00053	0.00050	0.023	0.0117	0.0060	0.0035	38.0	<0.0010	<0.0010	<0.00020	<0.00020	30	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		3rd Quartile	0.000155	0.000130	0.0132	0.01020	41	<0.000010	<0.000010	0.000605	0.00052	0.050	0.0208	0.0105	0.00415	39.4	<0.0010	<0.0010	<0.00020	<0.00020	31.5	<0.0050	<0.0050	0.00368	<0.010	<0.020	0.020
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2020 -21 Statistics Stn.Code			Site Name & Description		Statistic	2020 -21 Statistics																					
EMS. ID	As-T	As-D				Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23
NNL1			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E217018	No Name Lake 1 metre below surface	Average	0.00022	0.00021	0.0264	0.0214	10.7	0.0000050	0.0000050	0.004340	0.00174	0.058	0.0414	0.0048	0.0039	13.7	0.00050	0.00050	0.000100	0.000100	2.6	0.00250	0.00250	0.00237	0.0050		
		Count	5	5	5	5	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	5		
		Minimum	0.00018	0.00019	0.0242	0.0201	10	<0.000010	<0.000010	<0.00050	0.00034	0.054	0.0359	0.0044	0.0033	13.3	<0.0010	<0.0010	<0.00020	<0.00020	2.3	<0.0050	<0.0050	<0.0030	<0.010		
		Maximum	0.00025	0.00023	0.0293	0.0230	11	<0.000010	<0.000010	0.0207	0.00723	0.060	0.0487	0.0051	0.0045	14.0	<0.0010	<0.0010	<0.00020	<0.00020	3.0	<0.0050	<0.0050	0.0041	<0.010		
		Geometric Mean	0.00022	0.00021	0.0263	0.0214	10.7	0.0000050	0.0000050	0.000605	0.00066	0.058	0.0411	0.0048	0.0039	13.7	0.00050	0.00050	0.000100	0.000100	2.6	0.00250	0.00250	0.00210	0.0050		
		Count <DL	0	0	0	0	0	5	5	4	0	0	0	0	0	0	5	5	5	5	0	5	5	2	5		
		Standard Deviation	0.00003	0.00002	0.0019	0.0011	0.6	0.0000000	0.0000000	0.009146	0.00307	0.002	0.0056	0.0003	0.0005	0.3	0.00000	0.00000	0.000000	0.000000	0.3	0.00000	0.00000	0.00150	0.0000		
		1st Quartile	0.00019	0.00020	0.0257	0.0208	10.5	<0.000010	<0.000010	<0.00050	0.00036	0.057	0.0362	0.0046	0.0038	13.5	<0.0010	<0.0010	<0.00020	<0.00020	2.3	<0.0050	<0.0050	<0.0030	<0.010		
		Median	0.00024	0.00022	0.0259	0.0212	11	<0.000010	<0.000010	<0.00050	0.00037	0.058	0.0407	0.0048	0.0039	13.7	<0.0010	<0.0010	<0.00020	<0.00020	2.4	<0.0050	<0.0050	<0.0030	<0.010		
		3rd Quartile	0.00024	0.00023	0.0268	0.0221	11	<0.000010	<0.000010	<0.00050	0.00039	0.060	0.0454	0.0049	0.0042	13.8	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050	0.00280	<0.010		
NNLB	No Name Lake 1 metre from bottom	Average	0.00021	0.00019	0.0373	0.0271	10.3	0.0000050	0.0000050	0.002064	0.00065	0.112	0.0490	0.0097	0.0061	15.5	0.00050	0.00050	0.000100	0.000100	16.1	0.00250	0.00250	0.00150	0.0050		
E217018		Count	5	5	5	5	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	5			
		Minimum	0.00019	0.00017	0.0320	0.0259	9.8	<0.000010	<0.000010	<0.00050	0.00035	0.072	0.0379	0.0063	0.0034	14.6	<0.0010	<0.0010	<0.00020	<0.00020	4.2	<0.0050	<0.0050	<0.0030	<0.010		
		Maximum	0.00024	0.00020	0.0399	0.0284	11	<0.000010	<0.000010	0.00932	0.00165	0.175	0.0665	0.0166	0.0132	17.3	<0.0010	<0.0010	<0.00020	<0.00020	61	<0.0050	<0.0050	<0.0030	<0.010		
		Geometric Mean	0.00021	0.00019	0.0372	0.0271	10.3	0.0000050	0.0000050	0.000516	0.00052	0.108	0.0480	0.0092	0.0053	15.5	0.00050	0.00050	0.000100	0.000100	7.9	0.00250	0.00250	0.00150	0.0050		
		Count <DL	0	0	0	0	0	5	5	4	0	0	0	0	0	0	5	5	5	5	0	5	5	3	5		
		Standard Deviation	0.00002	0.00001	0.0032	0.0010	0.6	0.0000000	0.0000000	0.004056	0.00057	0.038	0.0116	0.0040	0.0040	1.0	0.00000	0.00000	0.000000	0.000000	25.1	0.00000	0.00000	0.00000	0.0000		
		1st Quartile	0.00020	0.00018	0.0369	0.0265	9.9	<0.000010	<0.000010	<0.00050	0.00035	0.098	0.0392	0.0082	0.0039	15.1	<0.0010	<0.0010	<0.00020	<0.00020	4.4	<0.0050	<0.0050	<0.0030	<0.010		
		Median	0.00021	0.00019	0.0383	0.0269	10	<0.000010	<0.000010	<0.00050	0.00036	0.108	0.0490	0.0086	0.0045	15.1	<0.0010	<0.0010	<0.00020	<0.00020	4.5	<0.0050	<0.0050	<0.0030	<0.010		
		3rd Quartile	0.00022	0.00019	0.0395	0.0277	10.5	<0.000010	<0.000010	<0.00050	0.00053	0.108	0.0526	0.0088	0.0054	15.4	<0.0010	<0.0010	<0.00020	<0.00020	6.2	<0.0050	<0.0050	<0.0030	<0.010		
NNO	No Name Lake Outlet	Average	0.00035	0.00033	0.0243	0.0179	14.3	0.0000050	0.0000059	0.000425	0.00042	0.106	0.0793	0.0070	0.0038	15.9	0.00050	0.00050	0.000100	0.000100	2.2	0.00250	0.00250	0.01986	0.0050	0.0100	0.0178
E217017		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	1	5	5	
		Minimum	0.00021	0.00019	0.0105	0.0079	10	<0.000010	<0.000010	<0.00050	0.00034	0.056	0.0346	0.0034	0.0019	13.5	<0.0010	<0.0010	<0.00020	<0.00020	1.4	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Maximum	0.00047	0.00047	0.0311	0.0231	17	<0.000010	0.000019	0.00203	0.00064	0.152	0.125	0.0136	0.0074	17.7	<0.0010	<0.0010	<0.00020	<0.00020	3.1	<0.0050	<0.0050	0.048	<0.010	<0.020	0.039
		Geometric Mean	0.00034	0.00031	0.0235	0.0173	14.0	0.0000050	0.0000055	0.000327	0.00041	0.098	0.0724	0.0064	0.0036	15.8	0.00050	0.00050	0.000100	0.000100	2.2	0.00250	0.00250	0.00893	0.0050	0.0100	0.0146
		Count <DL	0	0	0	0	0	15	14	12	0	0	0	0	0	0	15	15	15	15	0	15	15	1	1	5	2
		Standard Deviation	0.00009	0.00009	0.0054	0.0045	2.8	0.0000000	0.0000036	0.000471	0.00009	0.038	0.0316	0.0031	0.0014	1.6	0.00000	0.00000	0.000000	0.000000	0.5	0.00000	0.00000	0.02266	0.0000	0.0000	0.0130
		1st Quartile	0.00026	0.00023	0.0225	0.0152	11	<0.000010	<0.000010	<0.00050	0.00036	0.059	0.0452	0.0046	0.0030	14.0	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050	0.0040	<0.010	<0.020	<0.015
		Median	0.00038	0.00036	0.0256	0.0200	16	<0.000010	<0.000010	<0.00050	0.00038	0.115	0.0856	0.0060	0.0033	16.7	<0.0010	<0.0010	<0.00020	<0.00020	2.2	<0.0050	<0.0050	0.0048	<0.010	<0.020	0.015
		3rd Quartile	0.00040	0.00038	0.0274	0.0207	16.5	<0.000010	<0.000010	<0.00050	0.00046	0.140	0.1045	0.0092	0.0046	16.9	<0.0010	<0.0010	<0.00020	<0.00020	2.6	<0.0050	<0.0050	0.041	<0.010	<0.020	0.020
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2020 -21 Statistics Stn.Code			-1 Statistics																									
Site Name & Description		Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
LLS	Small Seep into Long Lake	Average	0.00364	0.00330	0.01796	0.00361	226	0.0000059	0.0000055	0.000546	0.000192	1.657	1.523	0.396	0.391	608	0.0032	0.0032	0.000100	0.000100	563	0.00278	0.00250					
E292131		Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
		Minimum	0.00122	0.00099	<0.0030	<0.0030	140	<0.000010	<0.000010	<0.00050	<0.00020	0.495	0.330	0.180	0.162	442	0.0019	0.0019	<0.00020	<0.00020	420	<0.0050	<0.0050					
		Maximum	0.00550	0.00578	0.103	0.0116	270	0.000014	0.000010	0.00146	0.00042	2.54	2.39	0.555	0.544	725	0.0046	0.0045	<0.00020	<0.00020	700	0.0053	<0.0050					
		Geometric Mean	0.00323	0.00276	0.00628	0.00264	221	0.0000055	0.0000054	0.000426	0.000160	1.478	1.279	0.363	0.357	598	0.0031	0.0030	0.000100	0.000100	552	0.00270	0.00250					
		Count <DL	0	0	2	6	0	9	9	6	6	0	0	0	0	0	0	0	0	10	10	0	9	10				
		Standard Deviation	0.00161	0.00180	0.03183	0.00338	42	0.0000028	0.0000016	0.000431	0.000125	0.714	0.775	0.156	0.155	107	0.0010	0.0010	0.000000	0.000000	112	0.00089	0.00000					
		1st Quartile	0.00260	0.00145	0.00315	<0.0030	200	<0.000010	<0.000010	<0.00050	<0.00020	1.200	0.846	0.236	0.236	512	0.0024	0.0025	<0.00020	<0.00020	437	<0.0050	<0.0050					
		Median	0.00376	0.00368	0.00345	<0.0030	240	<0.000010	<0.000010	<0.00050	<0.00020	1.785	1.720	0.467	0.469	645	0.0031	0.0030	<0.00020	<0.00020	610	<0.0050	<0.0050					
		3rd Quartile	0.00502	0.00472	0.01612	0.00520	250	<0.000010	<0.000010	0.000840	0.000305	2.220	2.220	0.524	0.501	696	0.0040	0.0040	<0.00020	<0.00020	655	<0.0050	<0.0050					
LLSM	Long Lake Middle Seep	Average	0.00117	0.00096	0.06222	0.00813	190	0.0000060	0.0000050	0.000777	0.000548	0.741	0.4943	0.2122	0.2184	492	0.0031	0.0030	0.000100	0.000100	459	0.00250	0.00250					
E292131		Count	10	9	10	9	10	9	9	10	9	10	9	10	9	10	10	9	10	9	10	10	9					
		Minimum	0.00043	0.00020	<0.0030	<0.0030	110	<0.000010	<0.000010	<0.00050	<0.00020	0.254	0.0746	0.0692	0.0431	351	0.0016	0.0016	<0.00020	<0.00020	310	<0.0050	<0.0050					
		Maximum	0.00201	0.00155	0.264	0.0253	240	0.000014	<0.000010	0.00254	0.00137	1.41	1.00	0.465	0.467	616	0.0048	0.0044	<0.00020	<0.00020	620	<0.0050	<0.0050					
		Geometric Mean	0.00104	0.00073	0.01950	0.00442	184	0.0000056	0.0000050	0.000488	0.000368	0.646	0.3411	0.1730	0.1675	484	0.0030	0.0029	0.000100	0.000100	446	0.00250	0.00250					
		Count <DL	0	0	1	4	0	8	9	6	2	0	0	0	0	0	0	0	0	10	9	0	10	9				
		Standard Deviation	0.00052	0.00057	0.09472	0.00934	45	0.0000030	0.0000000	0.000870	0.000465	0.391	0.3482	0.1379	0.1472	90	0.0009	0.0009	0.000000	0.000000	108	0.00000	0.00000					
		1st Quartile	0.00074	0.00026	0.00560	<0.0030	162	<0.000010	<0.000010	<0.00050	0.00020	0.514	0.107	0.0903	0.0811	411	0.0026	0.0025	<0.00020	<0.00020	352	<0.0050	<0.0050					
		Median	0.00128	0.00130	0.02175	0.0040	205	<0.000010	<0.000010	<0.00050	0.00032	0.660	0.563	0.1930	0.204	499	0.0029	0.0027	<0.00020	<0.00020	495	<0.0050	<0.0050					
		3rd Quartile	0.00146	0.00136	0.05007	0.0100	227	<0.000010	<0.000010	0.000872	0.00095	0.908	0.715	0.3188	0.350	572	0.0036	0.0040	<0.00020	<0.00020	527	<0.0050	<0.0050					
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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2020 -21 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average		0.00192		0.00412	280.0		0.0000138		0.000275		4.17		1.48			0.00255		0.000275	1300.0		0.0069		0.00280		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.00166		<0.0060	270		<0.000020		<0.00040		3.95		1.35			0.0024		<0.00040	1300		<0.010		<0.0010		
		Maximum		0.00220		<0.015	290		<0.000050		<0.0010		4.32		1.57			0.0029		<0.0010	1300		<0.025		0.0077		
		Geometric Mean		0.00191		0.00377	279.9		0.0000126		0.000251		4.17		1.47			0.00254		0.000251	1300.0		0.0063		0.00172		
		Count <DL		0		4	0		4		4		0		0			1		4	0		4		3		
		Standard Deviation		0.00024		0.00225	8.2		0.0000075		0.000150		0.16		0.09			0.00024		0.000150	0.0		0.0038		0.00330		
		1st Quartile		0.00176		<0.0060	277.5		<0.000020		<0.00040		4.12		1.44			0.0024		<0.00040	1300		<0.010		0.00125		
		Median		0.00192		<0.0060	280		<0.000020		<0.00040		4.20		1.49			0.00245		<0.00040	1300		<0.010		<0.0030		
		3rd Quartile		0.00209		0.00412	282.5		0.0000138		0.000275		4.26		1.52			0.00260		0.000275	1300		0.0069		0.00305		
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.104		0.00150	175.0		0.0000050		0.000100		0.594		0.0521			0.00050		0.000100	80.0		0.00250		0.0074		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.103		<0.0030	170		<0.000010		<0.00020		0.534		0.0485			<0.0010		<0.00020	78		<0.0050		0.0054		
		Maximum		0.104		<0.0030	180		<0.000010		<0.00020		0.654		0.0557			<0.0010		<0.00020	82		<0.0050		0.0095		
		Geometric Mean		0.103		0.00150	174.9		0.0000050		0.000100		0.591		0.0520			0.00050		0.000100	80.0		0.00250		0.0072		
		Count <DL		0		2	0		2		2		0		0			2		2	0		2		0		
		Standard Deviation		0.001		0.00000	7.1		0.0000000		0.0000000		0.085		0.0051			0.00000		0.0000000	2.8		0.00000		0.0029		
		1st Quartile		0.103		<0.0030	172.5		<0.000010		<0.00020		0.564		0.0503			<0.0010		<0.00020	79.0		<0.0050		0.0064		
		Median		0.104		<0.0030	175.0		<0.000010		<0.00020		0.594		0.0521			<0.0010		<0.00020	80.0		<0.0050		0.0074		
		3rd Quartile		0.104		<0.0030	177.5		<0.000010		<0.00020		0.624		0.0539			<0.0010		<0.00020	81.0		<0.0050		0.0085		
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.0823		0.00250	150.0		0.0000050		0.000100		4.56		0.364			0.00050		0.000100	110.0		0.00250		0.00400		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.0821		<0.0030	140		<0.000010		<0.00020		4.54		0.360			<0.0010		<0.00020	100		<0.0050		<0.0030		
		Maximum		0.0825		0.0035	160		<0.000010		<0.00020		4.59		0.367			<0.0010		<0.00020	120		<0.0050		0.0065		
		Geometric Mean		0.0823		0.00229	149.7		0.0000050		0.000100		4.56		0.363			0.00050		0.000100	109.5		0.00250		0.00312		
		Count <DL		0		1	0		2		2		0		0			2		2	0		2		1		
		Standard Deviation		0.0003		0.00141	14.1		0.0000000		0.0000000		0.04		0.005			0.00000		0.0000000	14.1		0.00000		0.00354		
		1st Quartile		0.0822		0.00200	145.0		<0.000010		<0.00020		4.55		0.362			<0.0010		<0.00020	105.0		<0.0050		0.00275		
		Median		0.0823		0.00250	150.0		<0.000010		<0.00020		4.56		0.364			<0.0010		<0.00020	110.0		<0.0050		0.00400		
		3rd Quartile		0.0824		0.00300	155.0		<0.000010		<0.00020		4.58		0.365			<0.0010		<0.00020	115.0		<0.0050		0.00525		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2020 -21 Statistics Stn.Code			2020 -21 Statistics																								
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
SPD	Settling Pond # 1																										
E218582		Average	0.00152	0.00064	0.01354	0.01279	96.4	0.0000059	0.0000050	0.000481	0.000276	0.224	0.1188	0.0608	0.0420	349	0.00061	0.00050	0.000100	0.000100	264	0.00250	0.00250	0.00207		0.0100	0.0183
		Count	7	14	7	14	13	7	14	7	14	7	14	7	14	7	7	14	7	14	50	7	14	3		3	3
		Minimum	0.00043	0.00028	<0.0030	<0.0030	44	<0.000010	<0.000010	<0.00050	<0.00020	0.152	0.0312	0.0272	0.0158	169	<0.0010	<0.0010	<0.00020	<0.00020	75	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		Maximum	0.00640	0.00112	0.0454	0.0496	130	0.000011	<0.000010	0.00110	0.00093	0.304	0.194	0.113	0.0854	462	0.0013	<0.0010	<0.00020	<0.00020	400	<0.0050	<0.0050	0.0032		<0.020	0.040
		Geometric Mean	0.00094	0.00058	0.00648	0.00513	92.3	0.0000056	0.0000050	0.000378	0.000212	0.217	0.1096	0.0545	0.0375	326	0.00057	0.00050	0.000100	0.000100	247	0.00250	0.00250	0.00193		0.0100	0.0131
		Count <DL	0	0	2	7	0	6	14	5	6	0	0	0	0	0	6	14	7	14	0	7	14	2		3	2
		Standard Deviation	0.00216	0.00026	0.01676	0.01661	26.8	0.0000023	0.0000000	0.000396	0.000226	0.059	0.0421	0.0309	0.0205	124	0.00030	0.00000	0.000000	0.000000	85	0.00000	0.00000	0.00098		0.0000	0.0188
		1st Quartile	0.00062	0.00040	0.00245	<0.0030	86	<0.000010	<0.000010	<0.00050	<0.00020	0.175	0.1010	0.0390	0.0253	272	<0.0010	<0.0010	<0.00020	<0.00020	202	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		Median	0.00075	0.00067	0.0046	0.00255	99	<0.000010	<0.000010	<0.00050	0.000240	0.224	0.1260	0.0546	0.0358	380	<0.0010	<0.0010	<0.00020	<0.00020	270	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		3rd Quartile	0.00090	0.00082	0.01920	0.01865	120	<0.000010	<0.000010	0.000635	0.000358	0.270	0.1435	0.0764	0.0574	447	<0.0010	<0.0010	<0.00020	<0.00020	327	<0.0050	<0.0050	0.00235		<0.020	0.0238
LLE	Long Lake Entrance (LLE)	Average	0.00070	0.00056	0.0741	0.02518	60.3	0.0000050	0.0000050	0.000409	0.000464	0.752	0.4362	0.1023	0.1026	176.5	0.00050	0.00050	0.000100	0.000100	138	0.00250	0.00250	0.00396		0.0238	0.0259
E292130		Count	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	45	12	12	12		12	12
		Minimum	0.00024	0.00021	0.0079	<0.0030	25	<0.000010	<0.000010	<0.00050	<0.00020	0.167	0.0959	0.0086	0.0061	72.1	<0.0010	<0.0010	<0.00020	<0.00020	63	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		Maximum	0.00160	0.00109	0.244	0.0584	120	<0.000010	<0.000010	0.00150	0.00153	2.56	1.06	0.445	0.461	377	<0.0010	<0.0010	<0.00020	<0.00020	380	<0.0050	<0.0050	0.0099		0.089	0.15
		Geometric Mean	0.00063	0.00051	0.0512	0.01445	54.4	0.0000050	0.0000050	0.000334	0.000376	0.554	0.3592	0.0591	0.0560	156.7	0.00050	0.00050	0.000100	0.000100	127	0.00250	0.00250	0.00316		0.0166	0.0143
		Count <DL	0	0	0	2	0	12	12	9	1	0	0	0	0	0	12	12	12	12	0	12	12	5		8	7
		Standard Deviation	0.00036	0.00024	0.0639	0.01946	30.2	0.0000000	0.0000000	0.000367	0.000370	0.685	0.2764	0.1258	0.1300	93.3	0.00000	0.00000	0.000000	0.000000	62	0.00000	0.00000	0.00275		0.0255	0.0410
		1st Quartile	0.00052	0.00040	0.0362	0.00468	41	<0.000010	<0.000010	<0.00050	0.000288	0.328	0.2550	0.0347	0.0347	118	<0.0010	<0.0010	<0.00020	<0.00020	96	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		Median	0.00060	0.00052	0.0614	0.02660	48.0	<0.000010	<0.000010	<0.00050	0.000350	0.556	0.3870	0.0558	0.0530	143.0	<0.0010	<0.0010	<0.00020	<0.00020	120	<0.0050	<0.0050	0.00370		<0.020	<0.015
		3rd Quartile	0.00080	0.00068	0.0930	0.03847	76.8	<0.000010	<0.000010	0.000317	0.000490	0.832	0.5512	0.1058	0.1098	226.0	<0.0010	<0.0010	<0.00020	<0.00020	160	<0.0050	<0.0050	0.00565		0.0272	0.0198
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2020 -21 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic																									
			As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LLM1	Long Lake Middle 1 metre below Surface	Average	0.00046	0.00043	0.0141	0.01078	31.7	0.0000050	0.0000050	0.000335	0.00048	0.066	0.0463	0.0098	0.00657	72.4	0.00050	0.00050	0.000100	0.000100	58.9	0.00327	0.00250	0.00255	0.0053	0.0100	0.0094
E206619		Count	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	15	10	5
		Minimum	0.00033	0.00031	0.0058	<0.0030	22	<0.000010	<0.000010	<0.00050	0.00026	0.026	0.0116	0.0039	<0.0010	43.8	<0.0010	<0.0010	<0.00020	<0.00020	30	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Maximum	0.00057	0.00053	0.0267	0.0227	40	<0.000010	<0.000010	0.00126	0.00250	0.107	0.0833	0.0194	0.0189	95.4	<0.0010	<0.0010	<0.00020	<0.00020	79	0.0111	<0.0050	0.0052	0.010	<0.020	0.017
		Geometric Mean	0.00045	0.00042	0.0127	0.00889	31.3	0.0000050	0.0000050	0.000292	0.00037	0.062	0.0419	0.0085	0.00345	71.3	0.00050	0.00050	0.000100	0.000100	57.4	0.00291	0.00250	0.00222	0.0052	0.0100	0.0088
		Count <DL	0	0	0	1	0	15	15	13	0	0	0	0	2	0	15	15	15	15	0	13	15	8	14	10	4
		Standard Deviation	0.00009	0.00008	0.0065	0.00614	5.1	0.0000000	0.0000000	0.000265	0.00056	0.020	0.0182	0.0054	0.00698	12.7	0.00000	0.00000	0.000000	0.000000	13.0	0.00230	0.00000	0.00147	0.0013	0.0000	0.0042
		1st Quartile	0.00036	0.00035	0.0088	0.00720	29	<0.000010	<0.000010	<0.00050	0.00030	0.054	0.0409	0.0058	0.00175	67.6	<0.0010	<0.0010	<0.00020	<0.00020	52.5	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Median	0.00049	0.00045	0.0137	0.0085	31	<0.000010	<0.000010	<0.00050	0.00032	0.067	0.0461	0.0074	0.0024	73.3	<0.0010	<0.0010	<0.00020	<0.00020	61	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		3rd Quartile	0.00052	0.00049	0.0170	0.01505	34.8	<0.000010	<0.000010	<0.00050	0.00034	0.072	0.0548	0.0144	0.01285	78.9	<0.0010	<0.0010	<0.00020	<0.00020	67.0	<0.0050	<0.0050	0.0034	<0.010	<0.020	<0.015
LLMB	Long Lake Middle 1 metre From Bottom	Average	0.00029	0.00020	0.0112	0.00649	51.6	0.0000062	0.0000050	0.000471	0.00034	0.102	0.0178	0.9445	0.8000	128.1	0.00050	0.00050	0.000100	0.000100	126.7	0.00250	0.00250	0.00165	0.0050	0.090	0.026
E206619		Count	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	15	10	5
		Minimum	0.00022	0.00017	0.0051	<0.0030	42	<0.000010	<0.000010	<0.00050	0.00025	0.055	0.0074	0.0230	0.0150	34.7	<0.0010	<0.0010	<0.00020	<0.00020	110	<0.0050	<0.0050	<0.0030	<0.010	0.066	0.015
		Maximum	0.00037	0.00024	0.0309	0.0240	63	0.000023	<0.000010	0.00303	0.00094	0.180	0.0371	3.10	2.94	145	<0.0010	<0.0010	<0.00020	<0.00020	130	<0.0050	<0.0050	0.0035	<0.010	0.113	0.038
		Geometric Mean	0.00029	0.00020	0.0095	0.00461	51.3	0.0000055	0.0000050	0.000319	0.00032	0.096	0.0161	0.4541	0.2792	123.0	0.00050	0.00050	0.000100	0.000100	126.5	0.00250	0.00250	0.00160	0.0050	0.089	0.024
		Count <DL	0	0	0	4	0	14	15	13	0	0	0	0	0	0	15	15	15	15	0	15	15	12	15	0	0
		Standard Deviation	0.00004	0.00002	0.0073	0.00598	5.4	0.0000046	0.0000000	0.000721	0.00017	0.040	0.0087	1.0215	1.0068	26.7	0.00000	0.00000	0.000000	0.000000	7.2	0.00000	0.00000	0.00055	0.0000	0.016	0.011
		1st Quartile	0.00027	0.00018	0.0060	0.00270	48.2	<0.000010	<0.000010	<0.00050	0.00027	0.076	0.0115	0.1815	0.0890	132.5	<0.0010	<0.0010	<0.00020	<0.00020	130	<0.0050	<0.0050	<0.0030	<0.010	0.076	0.017
		Median	0.00028	0.00020	0.0081	0.0046	50.5	<0.000010	<0.000010	<0.00050	0.00029	0.086	0.0160	0.383	0.140	134	<0.0010	<0.0010	<0.00020	<0.00020	130	<0.0050	<0.0050	<0.0030	<0.010	0.094	0.024
		3rd Quartile	0.00031	0.00020	0.0146	0.00920	53.8	<0.000010	<0.000010	<0.00050	0.00031	0.115	0.0212	1.9600	1.7200	139	<0.0010	<0.0010	<0.00020	<0.00020	130	<0.0050	<0.0050	<0.0030	<0.010	0.104	0.036
Notes:			Factor applied to less-than results when calculating statistics: 0.5																								

Table 47 Statistics 2019-2023 85 Page(s)

2020 -21 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
LLO	Long Lake Outlet	Average	0.00045	0.00042	0.0168	0.00958	31.6	0.0000050	0.0000050	0.000311	0.00030	0.077	0.0451	0.0110	0.00463	73.2	0.00050	0.00050	0.000100	0.000100	59.8	0.00250	0.00250	0.01156	0.0050	0.0128	0.0100
E219412		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	1	5	5
		Minimum	0.00035	0.00030	0.0065	<0.0030	25	<0.000010	<0.000010	<0.00050	0.00026	0.022	0.0096	0.0033	<0.0010	53.2	<0.0010	<0.0010	<0.00020	<0.00020	39	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Maximum	0.00056	0.00054	0.0271	0.0187	40	<0.000010	<0.000010	0.00074	0.00036	0.125	0.0759	0.0158	0.0095	97.9	<0.0010	<0.0010	<0.00020	<0.00020	85	<0.0050	<0.0050	0.027	<0.010	0.024	0.020
		Geometric Mean	0.00045	0.00041	0.0157	0.00820	31.4	0.0000050	0.0000050	0.000287	0.00030	0.072	0.0410	0.0102	0.00349	72.4	0.00050	0.00050	0.000100	0.000100	58.7	0.00250	0.00250	0.00624	0.0050	0.0119	0.0091
		Count <DL	0	0	0	1	0	15	15	13	0	0	0	0	1	0	15	15	15	15	0	15	15	2	1	4	4
		Standard Deviation	0.00007	0.00008	0.0063	0.00497	4.0	0.0000000	0.0000000	0.000162	0.00003	0.026	0.0171	0.0036	0.00311	11.4	0.00000	0.00000	0.0000000	0.0000000	12.2	0.00000	0.00000	0.01147	0.0000	0.0063	0.0056
		1st Quartile	0.00038	0.00032	0.0126	0.00595	29	<0.000010	<0.000010	<0.00050	0.00028	0.061	0.0321	0.0088	0.00220	67.7	<0.0010	<0.0010	<0.00020	<0.00020	52.5	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Median	0.00047	0.00045	0.0148	0.0080	30	<0.000010	<0.000010	<0.00050	0.00030	0.078	0.0470	0.0125	0.0032	71.4	<0.0010	<0.0010	<0.00020	<0.00020	56	<0.0050	<0.0050	0.0078	<0.010	<0.020	<0.015
		3rd Quartile	0.00050	0.00048	0.0211	0.01275	34.5	<0.000010	<0.000010	<0.00050	0.00032	0.088	0.0539	0.0140	0.00750	77.6	<0.0010	<0.0010	<0.00020	<0.00020	64.5	<0.0050	<0.0050	0.020	<0.010	<0.020	<0.015
WB	Middle Quinsam Lake Outlet	Average	0.00018	0.00018	0.0152	0.0117	33.7	0.0000050	0.0000050	0.000531	0.00050	0.041	0.0270	0.0073	0.0037	37.5	0.00050	0.00050	0.000100	0.000100	32.1	0.00250	0.00250	0.00870	0.0050	0.0100	0.0075
E0900504		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	1	5	5
		Minimum	0.00010	0.00011	0.0096	0.0062	28	<0.000010	<0.000010	<0.00050	0.00040	0.024	0.0158	0.0026	0.0016	32.6	<0.0010	<0.0010	<0.00020	<0.00020	26	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Maximum	0.00033	0.00030	0.0221	0.0157	42	<0.000010	<0.000010	0.00116	0.00070	0.099	0.0563	0.0112	0.0078	47.0	<0.0010	<0.0010	<0.00020	<0.00020	43	<0.0050	<0.0050	0.027	<0.010	<0.020	<0.015
		Geometric Mean	0.00017	0.00017	0.0149	0.0114	33.5	0.0000050	0.0000050	0.000471	0.00049	0.038	0.0255	0.0068	0.0035	37.2	0.00050	0.00050	0.000100	0.000100	31.7	0.00250	0.00250	0.00405	0.0050	0.0100	0.0075
		Count <DL	0	0	0	0	0	15	15	5	0	0	0	0	0	0	15	15	15	15	0	15	15	3	1	5	5
		Standard Deviation	0.00006	0.00005	0.0033	0.0028	4.3	0.0000000	0.0000000	0.000266	0.00007	0.018	0.0102	0.0026	0.0015	5.0	0.00000	0.00000	0.0000000	0.0000000	5.4	0.00000	0.00000	0.01119	0.0000	0.0000	0.0000
		1st Quartile	0.00013	0.00014	0.0134	0.0106	30	<0.000010	<0.000010	<0.00050	0.00046	0.028	0.0197	0.0051	0.0030	34.0	<0.0010	<0.0010	<0.00020	<0.00020	27	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Median	0.00017	0.00017	0.0158	0.0126	35	<0.000010	<0.000010	0.00053	0.00049	0.042	0.0256	0.0084	0.0034	35.3	<0.0010	<0.0010	<0.00020	<0.00020	31	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		3rd Quartile	0.00020	0.00020	0.0168	0.0134	36	<0.000010	<0.000010	0.000635	0.00050	0.044	0.0280	0.0092	0.0040	39.0	<0.0010	<0.0010	<0.00020	<0.00020	37	<0.0050	<0.0050	0.012	<0.010	<0.020	<0.015

Table 47 Statistics 2019-2023 85 Page(s)

2020 -21 Statistics Stn.Code					2020 -21 Statistics																						
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7SSD	Settling Pond at 7S- Discharge to Stream 1 -7S																										
E292069		Average	0.00488	0.00436	0.0673	0.00328	117.8	0.0000050	0.0000050	0.00100	0.00073	0.152	0.0357	0.1030	0.0265	114.2	0.00050	0.00050	0.000100	0.000100	10.0	0.00250	0.00250	0.011		0.0075	
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1		1	
		Minimum	0.00095	0.00074	0.0075	<0.0030	91	<0.000010	<0.000010	0.00096	0.00036	0.078	0.0081	0.0410	0.0053	83.9	<0.0010	<0.0010	<0.00020	<0.00020	4.5	<0.0050	<0.0050	0.011		<0.015	
		Maximum	0.00862	0.00802	0.217	0.0063	130	<0.000010	<0.000010	0.00102	0.00097	0.274	0.0992	0.172	0.0432	136	<0.0010	<0.0010	<0.00020	<0.00020	19	<0.0050	<0.0050	0.011		<0.015	
		Geometric Mean	0.00353	0.00304	0.0271	0.00271	116.6	0.0000050	0.0000050	0.00100	0.00068	0.136	0.0207	0.0913	0.0196	112.3	0.00050	0.00050	0.000100	0.000100	8.7	0.00250	0.00250	0.011		0.0075	
		Count <DL	0	0	0	2	0	4	4	0	0	0	0	0	0	0	4	4	4	4	0	4	4	0		1	
		Standard Deviation	0.00370	0.00344	0.1006	0.00229	18.4	0.0000000	0.0000000	0.00003	0.00029	0.086	0.0433	0.0540	0.0190	23.2	0.00000	0.00000	0.000000	0.000000	6.3	0.00000	0.00000	0.000		0.0000	
		1st Quartile	0.00216	0.00185	0.0088	<0.0030	112.8	<0.000010	<0.000010	0.00100	0.00057	0.103	0.0083	0.0792	0.0130	102.7	<0.0010	<0.0010	<0.00020	<0.00020	6.6	<0.0050	<0.0050	0.011		<0.015	
		Median	0.00497	0.00434	0.0224	0.00265	125.0	<0.000010	<0.000010	0.00101	0.00079	0.127	0.0177	0.0994	0.0287	118.5	<0.0010	<0.0010	<0.00020	<0.00020	8.2	<0.0050	<0.0050	0.011		<0.015	
		3rd Quartile	0.00768	0.00685	0.0809	0.00442	130	<0.000010	<0.000010	0.00101	0.00095	0.176	0.0450	0.1232	0.0422	130.0	<0.0010	<0.0010	<0.00020	<0.00020	11.6	<0.0050	<0.0050	0.011		<0.015	
7S	Stream 1-7S discharge to LWO	Average	0.000073	0.000059	0.0436	0.0356	14.5	0.0000050	0.0000050	0.000289	0.00036	0.0146	0.01081	0.00057	0.00050	15.9	0.00050	0.00050	0.000100	0.000100	3.3	0.00250	0.00250				
E292109		Count	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
		Minimum	<0.00010	<0.00010	0.0175	0.0150	9.4	<0.000010	<0.000010	<0.00050	0.00020	<0.010	<0.0050	<0.0010	<0.0010	11.4	<0.0010	<0.0010	<0.00020	<0.00020	1.9	<0.0050	<0.0050				
		Maximum	0.00014	0.00011	0.112	0.0749	22	<0.000010	<0.000010	0.00052	0.00060	0.052	0.0304	0.0010	<0.0010	21.1	<0.0010	<0.0010	<0.00020	<0.00020	4.6	<0.0050	<0.0050				
		Geometric Mean	0.000066	0.000056	0.0363	0.0310	13.9	0.0000050	0.0000050	0.000278	0.00034	0.0095	0.00713	0.00055	0.00050	15.6	0.00050	0.00050	0.000100	0.000100	3.1	0.00250	0.00250				
		Count <DL	5	6	0	0	0	7	7	6	0	4	3	6	7	0	7	7	7	7	0	7	7				
		Standard Deviation	0.000039	0.000023	0.0323	0.0205	4.7	0.0000000	0.0000000	0.000102	0.00013	0.0173	0.01003	0.00019	0.00000	3.6	0.00000	0.00000	0.000000	0.000000	1.0	0.00000	0.00000				
		1st Quartile	<0.00010	<0.00010	0.0243	0.0204	11.5	<0.000010	<0.000010	<0.00050	0.00027	<0.010	<0.0050	<0.0010	<0.0010	13.4	<0.0010	<0.0010	<0.00020	<0.00020	2.7	<0.0050	<0.0050				
		Median	<0.00010	<0.00010	0.0378	0.0350	13	<0.000010	<0.000010	<0.00050	0.00032	<0.010	0.0112	<0.0010	<0.0010	15.7	<0.0010	<0.0010	<0.00020	<0.00020	3.5	<0.0050	<0.0050				
		3rd Quartile	0.000085	<0.00010	0.0448	0.0416	17.0	<0.000010	<0.000010	<0.00050	0.00042	0.0150	0.0133	<0.0010	<0.0010	18.3	<0.0010	<0.0010	<0.00020	<0.00020	3.7	<0.0050	<0.0050				
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

Table 47 Statistics 2019-2023 85 Page(s)

2020 -21 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0813A	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (No. 4 Seam)	Average		0.407		0.00282	185.0		0.0000050		0.000100		0.230		0.0427			0.00050		0.000100	36.2		0.00250		0.038		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.383		<0.0030	170		<0.000010		<0.00020		0.167		0.0347			<0.0010		<0.00020	29		<0.0050		0.030		
		Maximum		0.443		0.0068	190		<0.000010		<0.00020		0.273		0.0506			<0.0010		<0.00020	42		<0.0050		0.058		
		Geometric Mean		0.407		0.00219	184.8		0.0000050		0.000100		0.226		0.0423			0.00050		0.000100	35.8		0.00250		0.036		
		Count <DL		0		3	0		4		4		0		0			4		4	0		4		0		
		Standard Deviation		0.028		0.00265	10.0		0.0000000		0.000000		0.045		0.0065			0.00000		0.000000	6.8		0.00000		0.014		
		1st Quartile		0.385		<0.0030	185.0		<0.000010		<0.00020		0.219		0.0406			<0.0010		<0.00020	31.2		<0.0050		0.030		
		Median		0.401		<0.0030	190		<0.000010		<0.00020		0.239		0.0427			<0.0010		<0.00020	37.0		<0.0050		0.031		
		3rd Quartile		0.424		0.00282	190		<0.000010		<0.00020		0.250		0.0449			<0.0010		<0.00020	42		<0.0050		0.038		
QU0813B	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (Till & SST contact)	Average		0.478		0.00338	150.0		0.0000050		0.000100		0.1639		0.0716			0.00050		0.000100	40.0		0.00250		0.055		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.442		<0.0030	120		<0.000010		<0.00020		0.0437		0.0637			<0.0010		<0.00020	31		<0.0050		0.030		
		Maximum		0.511		0.0041	210		<0.000010		<0.00020		0.240		0.0780			<0.0010		<0.00020	50		<0.0050		0.072		
		Geometric Mean		0.477		0.00313	145.9		0.0000050		0.000100		0.1368		0.0714			0.00050		0.000100	39.3		0.00250		0.053		
		Count <DL		0		1	0		4		4		0		0			4		4	0		4		0		
		Standard Deviation		0.033		0.00125	42.4		0.0000000		0.000000		0.0886		0.0061			0.00000		0.000000	8.6		0.00000		0.018		
		1st Quartile		0.455		0.00330	120		<0.000010		<0.00020		0.1249		0.0686			<0.0010		<0.00020	34.0		<0.0050		0.052		
		Median		0.479		0.00395	135.0		<0.000010		<0.00020		0.1860		0.0723			<0.0010		<0.00020	39.5		<0.0050		0.060		
		3rd Quartile		0.502		0.00402	165.0		<0.000010		<0.00020		0.2250		0.0752			<0.0010		<0.00020	45.5		<0.0050		0.063		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

Table 47 Statistics 2019-2023 85 Page(s)

2020-21 Statistics Stn.Code		Statistic																									
EMS. ID	Site Name & Description		As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average		0.169		0.0075	205.0		0.0000250		0.00050		1.084		0.0923			0.00250		0.00050	0.50		0.0125		0.126		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.152		<0.015	200		<0.000050		<0.0010		0.610		0.0624			<0.0050		<0.0010	<1.0		<0.025		0.014		
		Maximum		0.186		<0.015	210		<0.000050		<0.0010		1.62		0.132			<0.0050		<0.0010	<1.0		<0.025		0.45		
		Geometric Mean		0.169		0.0075	204.9		0.0000250		0.00050		1.012		0.0872			0.00250		0.00050	0.50		0.0125		0.039		
		Count <DL		0		4	0		4		4		0		0			4		4	4		4		0		
		Standard Deviation		0.015		0.0000	5.8		0.0000000		0.00000		0.450		0.0353			0.00000		0.00000	0.00		0.0000		0.216		
		1st Quartile		0.161		<0.015	200		<0.000050		<0.0010		0.779		0.0627			<0.0050		<0.0010	<1.0		<0.025		0.016		
		Median		0.169		<0.015	205.0		<0.000050		<0.0010		1.052		0.0874			<0.0050		<0.0010	<1.0		<0.025		0.019		
		3rd Quartile		0.178		<0.015	210		<0.000050		<0.0010		1.358		0.1170			<0.0050		<0.0010	<1.0		<0.025		0.128		
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average		0.264		0.00328	195.0		0.0000088		0.000175		0.540		0.0526			0.00088		0.000175	0.50		0.00437		0.061		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.206		<0.0060	190		<0.000010		<0.00020		0.246		0.0299			<0.0010		<0.00020	<1.0		<0.0050		0.024		
		Maximum		0.414		0.0041	200		<0.000020		<0.00040		1.19		0.0656			<0.0020		<0.00040	<1.0		<0.010		0.11		
		Geometric Mean		0.252		0.00324	194.9		0.0000084		0.000168		0.442		0.0504			0.00084		0.000168	0.50		0.00420		0.053		
		Count <DL		0		3	0		4		4		0		0			4		4	4		4		0		
		Standard Deviation		0.101		0.00055	5.8		0.0000025		0.000050		0.437		0.0160			0.00025		0.000050	0.00		0.00125		0.036		
		1st Quartile		0.208		<0.0060	190		0.0000088		0.000175		0.314		0.0474			0.00088		0.000175	<1.0		0.00438		0.045		
		Median		0.218		<0.0060	195.0		<0.000020		<0.00040		0.362		0.0576			<0.0020		<0.00040	<1.0		<0.010		0.055		
		3rd Quartile		0.274		0.00328	200		<0.000020		<0.00040		0.587		0.0628			<0.0020		<0.00040	<1.0		<0.010		0.072		
QU1010D																											
		Average		0.0154		0.0075	105.0		0.0000250		0.00050		8.83		0.364			0.00250		0.00050	0.50		0.0125		0.082		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.0150		<0.015	100		<0.000050		<0.0010		8.72		0.344			<0.0050		<0.0010	<1.0		<0.025		0.065		
		Maximum		0.0157		<0.015	110		<0.000050		<0.0010		8.94		0.385			<0.0050		<0.0010	<1.0		<0.025		0.10		
		Geometric Mean		0.0153		0.0075	104.9		0.0000250		0.00050		8.83		0.364			0.00250		0.00050	0.50		0.0125		0.081		
		Count <DL		0		2	0		2		2		0		0			2		2	2		2		0		
		Standard Deviation		0.0005		0.0000	7.1		0.0000000		0.00000		0.16		0.029			0.00000		0.00000	0.00		0.0000		0.025		
		1st Quartile		0.0152		<0.015	102.5		<0.000050		<0.0010		8.78		0.354			<0.0050		<0.0010	<1.0		<0.025		0.074		
		Median		0.0154		<0.015	105.0		<0.000050		<0.0010		8.83		0.364			<0.0050		<0.0010	<1.0		<0.025		0.082		
	3rd Quartile		0.0155		<0.015	107.5		<0.000050		<0.0010		8.88		0.375			<0.0050		<0.0010	<1.0		<0.025		0.091			
Notes:		Factor applied to less-than results when calculating statistics: 0.5																									

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2020-21 Statistics Stn.Code		Statistic																									
EMS. ID	Site Name & Description		As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average		0.106		0.00240	160.0		0.0000050		0.000100		0.180		0.0320			0.00050		0.000100	2.2		0.00250		0.025		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.103		<0.0030	150		<0.000010		<0.00020		0.168		0.0296			<0.0010		<0.00020	1.1		<0.0050		0.022		
		Maximum		0.108		0.0033	170		<0.000010		<0.00020		0.193		0.0343			<0.0010		<0.00020	3.4		<0.0050		0.028		
		Geometric Mean		0.105		0.00222	159.7		0.0000050		0.000100		0.180		0.0319			0.00050		0.000100	1.9		0.00250		0.025		
		Count <DL		0		1	0		2		2		0		0			2		2	0		2		0		
		Standard Deviation		0.004		0.00127	14.1		0.0000000		0.000000		0.018		0.0033			0.00000		0.000000	1.6		0.00000		0.004		
		1st Quartile		0.104		0.00195	155.0		<0.000010		<0.00020		0.174		0.0308			<0.0010		<0.00020	1.7		<0.0050		0.024		
		Median		0.106		0.00240	160.0		<0.000010		<0.00020		0.180		0.0320			<0.0010		<0.00020	2.2		<0.0050		0.025		
		3rd Quartile		0.107		0.00285	165.0		<0.000010		<0.00020		0.187		0.0331			<0.0010		<0.00020	2.8		<0.0050		0.026		
QU1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.0127		0.00300	340.0		0.0000100		0.000200		2.67		0.279			0.00100		0.000200	0.50		0.0050		0.082		
		Count		1		1	1		1		1		1		1			1		1	1		1		1		
		Minimum		0.0127		<0.0060	340		<0.000020		<0.00040		2.67		0.279			<0.0020		<0.00040	<1.0		<0.010		0.082		
		Maximum		0.0127		<0.0060	340		<0.000020		<0.00040		2.67		0.279			<0.0020		<0.00040	<1.0		<0.010		0.082		
		Geometric Mean		0.0127		0.00300	340.0		0.0000100		0.000200		2.67		0.279			0.00100		0.000200	0.50		0.0050		0.082		
		Count <DL		0		1	0		1		1		0		0			1		1	1		1		0		
		Standard Deviation		0.0000		0.00000	0.0		0.0000000		0.000000		0.00		0.000			0.00000		0.000000	0.00		0.0000		0.000		
		1st Quartile		0.0127		<0.0060	340		<0.000020		<0.00040		2.67		0.279			<0.0020		<0.00040	<1.0		<0.010		0.082		
		Median		0.0127		<0.0060	340		<0.000020		<0.00040		2.67		0.279			<0.0020		<0.00040	<1.0		<0.010		0.082		
		3rd Quartile		0.0127		<0.0060	340		<0.000020		<0.00040		2.67		0.279			<0.0020		<0.00040	<1.0		<0.010		0.082		
QU1011S	Ex-situ 2-North shallow groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.00213		0.00150	160.0		0.0000050		0.000100		1.03		0.112			0.00050		0.000100	5.3		0.0185		0.016		
		Count		1		1	1		1		1		1		1			1		1	1		1		1		
		Minimum		0.00213		<0.0030	160		<0.000010		<0.00020		1.03		0.112			<0.0010		<0.00020	5.3		0.0185		0.016		
		Maximum		0.00213		<0.0030	160		<0.000010		<0.00020		1.03		0.112			<0.0010		<0.00020	5.3		0.0185		0.016		
		Geometric Mean		0.00213		0.00150	160.0		0.0000050		0.000100		1.03		0.112			0.00050		0.000100	5.3		0.0185		0.016		
		Count <DL		0		1	0		1		1		0		0			1		1	0		0		0		
		Standard Deviation		0.00000		0.00000	0.0		0.0000000		0.000000		0.00		0.000			0.00000		0.000000	0.0		0.0000		0.000		
		1st Quartile		0.00213		<0.0030	160		<0.000010		<0.00020		1.03		0.112			<0.0010		<0.00020	5.3		0.0185		0.016		
		Median		0.00213		<0.0030	160		<0.000010		<0.00020		1.03		0.112			<0.0010		<0.00020	5.3		0.0185		0.016		
		3rd Quartile		0.00213		<0.0030	160		<0.000010		<0.00020		1.03		0.112			<0.0010		<0.00020	5.3		0.0185		0.016		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2020 -21 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
QU11055	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.0805		0.01268	251		0.0000050		0.000100		1.305		0.1470			0.00050		0.000100	208		0.00250		0.0087		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.0489		<0.0030	84		<0.000010		<0.00020		0.472		0.0548			<0.0010		<0.00020	44		<0.0050		0.0033		
		Maximum		0.115		0.0462	470		<0.000010		<0.00020		2.23		0.218			<0.0010		<0.00020	510		<0.0050		0.013		
		Geometric Mean		0.0768		0.00353	209		0.0000050		0.000100		1.127		0.1281			0.00050		0.000100	141		0.00250		0.0077		
		Count <DL		0		3	0		4		4		0		0			4		4	0		4		0		
		Standard Deviation		0.0280		0.02235	164		0.0000000		0.000000		0.746		0.0780			0.00000		0.000000	208		0.00000		0.0043		
		1st Quartile		0.0648		<0.0030	156		<0.000010		<0.00020		0.883		0.0962			<0.0010		<0.00020	86		<0.0050		0.0064		
		Median		0.0791		<0.0030	225		<0.000010		<0.00020		1.260		0.1575			<0.0010		<0.00020	140		<0.0050		0.0092		
		3rd Quartile		0.0948		0.01267	320		<0.000010		<0.00020		1.682		0.2082			<0.0010		<0.00020	262		<0.0050		0.0115		
QU11095	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.1272		0.00200	443.3		0.0000067		0.000133		0.206		0.0233			0.00067		0.000133	166.7		0.00333		0.03850		
		Count		3		3	3		3		3		3		3			3		3	3		3		3		
		Minimum		0.0945		<0.0030	430		<0.000010		<0.00020		0.107		0.0199			<0.0010		<0.00020	160		<0.0050		<0.0030		
		Maximum		0.147		<0.0060	460		<0.000020		<0.00040		0.263		0.0275			<0.0020		<0.00040	180		<0.010		0.060		
		Geometric Mean		0.1248		0.00189	443.2		0.0000063		0.000126		0.191		0.0231			0.00063		0.000126	166.4		0.00315		0.01694		
		Count <DL		0		3	0		3		3		0		0			3		3	0		3		1		
		Standard Deviation		0.0285		0.00087	15.3		0.0000029		0.000058		0.086		0.0039			0.00029		0.000058	11.5		0.00144		0.03218		
		1st Quartile		0.1172		<0.0030	435.0		<0.000010		<0.00020		0.177		0.0212			<0.0010		<0.00020	160		<0.0050		0.02775		
		Median		0.140		<0.0030	440		<0.000010		<0.00020		0.247		0.0225			<0.0010		<0.00020	160		<0.0050		0.054		
		3rd Quartile		0.1435		0.00225	450.0		0.0000075		0.000150		0.255		0.0250			0.00075		0.000150	170.0		0.00375		0.05700		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
7SQR	7-South Quinsam River downstream of 7-South Mining Operation	Average	0.00047	0.00042	0.0262	0.0122	35.6	0.0000050	0.0000050	0.000503	0.00050	0.102	0.0580	0.0068	0.0049	36.9	0.00050	0.00050	0.000100	0.000100	30.9	0.00250	0.00250	0.01552	0.0050	0.0100	0.0090
E292113		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	1	5	5
		Minimum	0.00033	0.00033	0.0155	0.0056	30	<0.000010	<0.000010	<0.00050	0.00042	0.068	0.0373	0.0044	0.0034	34.1	<0.0010	<0.0010	<0.00020	<0.00020	26	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015
		Maximum	0.00060	0.00053	0.0782	0.0397	42	<0.000010	<0.000010	0.00089	0.00085	0.229	0.137	0.0096	0.0063	42.8	<0.0010	<0.0010	<0.00020	<0.00020	39	<0.0050	<0.0050	0.064	<0.010	<0.020	0.015
		Geometric Mean	0.00046	0.00042	0.0242	0.0110	35.4	0.0000050	0.0000050	0.000476	0.00049	0.096	0.0547	0.0067	0.0048	36.9	0.00050	0.00050	0.000100	0.000100	30.6	0.00250	0.00250	0.00572	0.0050	0.0100	0.0086
		Count <DL	0	0	0	0	0	15	15	3	0	0	0	0	0	0	15	15	15	15	0	15	15	1	1	5	4
		Standard Deviation	0.00007	0.00006	0.0147	0.0079	3.9	0.0000000	0.0000000	0.000162	0.00012	0.040	0.0245	0.0015	0.0009	2.5	0.00000	0.00000	0.000000	0.000000	4.7	0.00000	0.00000	0.02713	0.0000	0.0000	0.0034
		1st Quartile	0.00043	0.00036	0.0218	0.0092	32.5	<0.000010	<0.000010	0.000505	0.00044	0.074	0.0442	0.0055	0.0042	35.0	<0.0010	<0.0010	<0.00020	<0.00020	26.5	<0.0050	<0.0050	0.0034	<0.010	<0.020	<0.015
		Median	0.00047	0.00042	0.0227	0.0099	36	<0.000010	<0.000010	0.00052	0.00045	0.097	0.0524	0.0073	0.0051	36.2	<0.0010	<0.0010	<0.00020	<0.00020	29	<0.0050	<0.0050	0.0039	<0.010	<0.020	<0.015
		3rd Quartile	0.00048	0.00046	0.0248	0.0121	38	<0.000010	<0.000010	0.000535	0.00049	0.108	0.0616	0.0079	0.0054	38.8	<0.0010	<0.0010	<0.00020	<0.00020	35.0	<0.0050	<0.0050	0.0048	<0.010	<0.020	<0.015
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2020 -21 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
LQL1	Lower Quinsam Lake 1 metre below surface	Average	0.00055	0.00052	0.0271	0.0225	28.0	0.0000050	0.0000050	0.00121	0.00081	0.057	0.0428	0.0037	0.0027	31.4	0.00050	0.00094	0.000100	0.000100	16.6	0.00250	0.00250	0.00150	0.0050		
E292118		Count	5	5	5	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	5		
		Minimum	0.00052	0.00049	0.0235	0.0179	28	<0.000010	<0.000010	0.00054	0.00053	0.036	0.0340	0.0019	0.0018	29.9	<0.0010	<0.0010	<0.00020	<0.00020	15	<0.0050	<0.0050	<0.0030	<0.010		
		Maximum	0.00057	0.00055	0.0300	0.0278	28	<0.000010	<0.000010	0.00295	0.00176	0.072	0.0568	0.0048	0.0039	32.2	<0.0010	0.0027	<0.00020	<0.00020	19	<0.0050	<0.0050	<0.0030	<0.010		
		Geometric Mean	0.00055	0.00052	0.0270	0.0223	28.0	0.0000050	0.0000050	0.00094	0.00071	0.055	0.0420	0.0036	0.0026	31.4	0.00050	0.00070	0.000100	0.000100	16.5	0.00250	0.00250	0.00150	0.0050		
		Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0	0	5	4	5	5	0	5	5	2	5		
		Standard Deviation	0.00002	0.00002	0.0031	0.0036	0.0	0.0000000	0.0000000	0.00104	0.00053	0.013	0.0091	0.0011	0.0009	0.9	0.00000	0.00098	0.000000	0.000000	1.5	0.00000	0.00000	0.00000	0.0000		
		1st Quartile	0.00053	0.00052	0.0242	0.0207	28	<0.000010	<0.000010	0.00056	0.00055	0.053	0.0360	0.0039	0.0020	31.3	<0.0010	<0.0010	<0.00020	<0.00020	16	<0.0050	<0.0050	<0.0030	<0.010		
		Median	0.00055	0.00053	0.0278	0.0228	28	<0.000010	<0.000010	0.00058	0.00058	0.060	0.0411	0.0039	0.0025	31.8	<0.0010	<0.0010	<0.00020	<0.00020	16	<0.0050	<0.0050	<0.0030	<0.010		
		3rd Quartile	0.00057	0.00053	0.0300	0.0233	28	<0.000010	<0.000010	0.00144	0.00061	0.062	0.0459	0.0042	0.0035	31.9	<0.0010	<0.0010	<0.00020	<0.00020	17	<0.0050	<0.0050	<0.0030	<0.010		
LQLB	LQLB 1 metre from Bottom	Average	0.00065	0.00057	0.0244	0.0145	28.5	0.0000050	0.0000050	0.00118	0.00065	0.143	0.0785	0.0225	0.0176	33.0	0.00050	0.00050	0.000100	0.000100	20.2	0.00250	0.00250	0.00150	0.0050		
E292118		Count	5	5	5	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	5		
		Minimum	0.00055	0.00053	0.0235	0.0126	28	<0.000010	<0.000010	0.00052	0.00048	0.109	0.0667	0.0095	0.0077	32.3	<0.0010	<0.0010	<0.00020	<0.00020	20	<0.0050	<0.0050	<0.0030	<0.010		
		Maximum	0.00070	0.00061	0.0257	0.0159	29	<0.000010	<0.000010	0.00323	0.00128	0.176	0.0956	0.0381	0.0298	33.6	<0.0010	<0.0010	<0.00020	<0.00020	21	<0.0050	<0.0050	<0.0030	<0.010		
		Geometric Mean	0.00064	0.00057	0.0244	0.0145	28.5	0.0000050	0.0000050	0.00089	0.00060	0.141	0.0779	0.0201	0.0159	33.0	0.00050	0.00050	0.000100	0.000100	20.2	0.00250	0.00250	0.00150	0.0050		
		Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0	0	5	5	5	5	0	5	5	2	5		
		Standard Deviation	0.00006	0.00003	0.0009	0.0014	0.7	0.0000000	0.0000000	0.00116	0.00035	0.027	0.0111	0.0113	0.0085	0.5	0.00000	0.00000	0.000000	0.000000	0.4	0.00000	0.00000	0.00000	0.0000		
		1st Quartile	0.00061	0.00055	0.0236	0.0135	28.2	<0.000010	<0.000010	0.00056	0.00049	0.123	0.0711	0.0139	0.0117	32.7	<0.0010	<0.0010	<0.00020	<0.00020	20	<0.0050	<0.0050	<0.0030	<0.010		
		Median	0.00068	0.00057	0.0243	0.0152	28.5	<0.000010	<0.000010	0.00057	0.00049	0.150	0.0779	0.0243	0.0183	32.9	<0.0010	<0.0010	<0.00020	<0.00020	20	<0.0050	<0.0050	<0.0030	<0.010		
		3rd Quartile	0.00069	0.00058	0.0248	0.0154	28.8	<0.000010	<0.000010	0.00104	0.00053	0.155	0.0812	0.0268	0.0207	33.4	<0.0010	<0.0010	<0.00020	<0.00020	20	<0.0050	<0.0050	<0.0030	<0.010		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

Table 47 Statistics 2019-2023 85 Page(s)

2021 -22 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
WA			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	0.000118	0.000082	0.0328	0.0220	20.9	0.0000050	0.0000050	0.00063	0.00056	0.028	0.0130	0.00196	0.00061	20.5	0.00086	0.00050	0.000100	0.000100	3.37	0.00250	0.00250	0.00252	0.00150	0.0100	0.0213	
		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	10	4	10	10	
		Minimum	<0.00010	<0.00010	0.0157	0.0132	12	<0.000010	<0.000010	0.00053	0.00048	0.011	0.0060	<0.0010	<0.0010	14.5	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015	
		Maximum	0.00025	0.00017	0.115	0.0934	24	<0.000010	<0.000010	0.00100	0.00096	0.066	0.0395	0.0031	0.0014	23.2	0.0059	<0.0010	<0.00020	<0.00020	21	<0.0050	<0.0050	0.0071	<0.0030	<0.020	0.092	
		Geometric Mean	0.000102	0.000071	0.0282	0.0186	20.7	0.0000050	0.0000050	0.00062	0.00055	0.025	0.0114	0.00183	0.00057	20.4	0.00059	0.00050	0.000100	0.000100	1.96	0.00250	0.00250	0.00202	0.00150	0.0100	0.0119	
		Count <DL	5	10	0	0	0	15	15	0	0	0	0	1	13	0	14	15	15	15	2	15	15	8	4	10	8	
		Standard Deviation	0.000065	0.000049	0.0246	0.0201	3.1	0.0000000	0.0000000	0.00011	0.00012	0.015	0.0084	0.00065	0.00030	2.0	0.00139	0.00000	0.0000000	0.0000000	5.24	0.00000	0.00000	0.00216	0.00000	0.0000	0.0300	
		1st Quartile	5.00E-05	5.00E-05	0.0217	0.0143	21	5.00E-06	5.00E-06	0.00057	0.0005	0.019	0.0083	0.0017	0.0005	20.2	0.0005	0.0005	0.0001	0.0001	1.5	0.0025	0.0025	0.0015	0.0015	0.01	0.0075	
		Median	0.00011	<0.00010	0.0233	0.0162	22	<0.000010	<0.000010	0.00058	0.00052	0.024	0.0117	0.0019	<0.0010	20.6	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050	0.0015	0.0015	0.01	0.0075	
		3rd Quartile	0.00015	0.00012	0.0351	0.0181	23	5.00E-06	5.00E-06	0.00065	0.00054	0.033	0.0132	0.0023	0.0005	21.4	0.0005	0.0005	0.0001	0.0001	1.95	0.0025	0.0025	0.0015	0.0015	0.01	0.0075	
WD	Settling Pond #4	Average	0.00153	0.00082	0.00577	0.00402	466	0.0000091	0.0000082	0.00119	0.000301	1.471	0.0119	0.395	0.349	539	0.00457	0.00132	0.000172	0.000150	706	0.01393	0.00935				0.14	
E207409		Count	18	22	18	22	23	18	22	18	22	18	22	18	22	18	18	22	18	22	52	18	22				1	
		Minimum	0.00089	0.00036	<0.0060	<0.0030	390	<0.000010	<0.000010	<0.0010	<0.00020	0.187	<0.010	0.110	0.105	375	<0.0020	<0.0010	<0.00020	<0.00020	340	<0.0050	<0.0050				0.14	
		Maximum	0.00193	0.00144	0.0271	0.0180	510	0.000013	0.000020	0.0018	0.00095	2.13	0.0322	0.595	0.591	647	0.0587	0.0035	<0.00040	<0.00040	1000	0.066	0.033				0.14	
		Geometric Mean	0.00150	0.00077	0.00445	0.00308	465	0.0000087	0.0000075	0.00112	0.000242	1.254	0.0106	0.353	0.304	532	0.00155	0.00114	0.000165	0.000141	679	0.00826	0.00628				0.14	
		Count <DL	0	0	10	16	0	17	21	2	13	0	4	0	0	0	11	13	18	22	0	10	14				0	
		Standard Deviation	0.00031	0.00028	0.00602	0.00406	31	0.0000023	0.0000036	0.00038	0.000230	0.623	0.0062	0.163	0.169	84	0.01353	0.00082	0.000046	0.000051	195	0.01704	0.00931				0.00	
		1st Quartile	0.00129	0.00059	0.003	0.00187	440	1.00E-05	5.00E-06	0.00104	0.0002	0.986	0.0082	0.239	0.205	510	0.001	0.001	0.000125	0.0001	560	0.005	0.0025				0.14	
		Median	0.0016	0.00079	0.003	0.003	470	1.00E-05	1.00E-05	0.0012	0.0002	1.665	0.011	0.454	0.339	564	0.001	0.001	0.0002	0.00015	630	0.005	0.005				0.14	
		3rd Quartile	0.00174	0.00098	0.00602	0.00353	490	1.00E-05	1.00E-05	0.00135	0.000322	1.95	0.0148	0.52	0.509	592	0.00137	0.0012	0.0002	0.0002	912	0.016	0.01185				0.14	
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2021 -22 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
MW001D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average		0.00291		0.00315	335.0		0.000046		0.000400		3.08		1.79			0.0025		0.000100	450		0.00250		0.0082			
		Count		2		2	2		2		2		2		2			2		2	2		2		2			
		Minimum		0.00280		<0.0030	330		0.000040		<0.00020		2.55		1.61			0.0023		<0.00020	280		<0.0050		0.0064			
		Maximum		0.00301		0.0048	340		0.000052		0.00070		3.60		1.96			0.0027		<0.00020	620		<0.0050		0.010			
		Geometric Mean		0.00290		0.00268	335.0		0.000046		0.000265		3.03		1.78			0.0025		0.000100	416		0.00250		0.0080			
		Count <DL		0		1	0		0		1		0		0			0		2	0		2		0			
		Standard Deviation		0.00015		0.00233	7.1		0.000008		0.000424		0.74		0.25			0.0003		0.000000	240		0.00000		0.0025			
		1st Quartile		0.00285		0.00232	332.5		4.30E-05		0.00025		2.81		1.7			0.0024		0.0001	365		0.0025		0.0073			
		Median		0.00291		0.00315	335		4.60E-05		0.0004		3.08		1.79			0.0025		0.0001	450		0.0025		0.0082			
		3rd Quartile		0.00296		0.00397	337.5		4.90E-05		0.00055		3.34		1.87			0.0026		0.0001	535		0.0025		0.0091			
MW001S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00183		0.00150	290.0		0.000057		0.000100		0.964		1.49			0.00085		0.000100	445		0.00250		0.00150			
		Count		2		2	2		2		2		2		2			2		2	2		2		2			
		Minimum		0.00100		<0.0030	280		0.000041		<0.00020		0.769		1.36			<0.0010		<0.00020	310		<0.0050		<0.0030			
		Maximum		0.00265		<0.0030	300		0.000072		<0.00020		1.16		1.62			0.0012		<0.00020	580		<0.0050		<0.0030			
		Geometric Mean		0.00163		0.00150	289.8		0.000054		0.000100		0.944		1.48			0.00077		0.000100	424		0.00250		0.00150			
		Count <DL		0		2	0		0		2		0		0			1		2	0		2		2			
		Standard Deviation		0.00117		0.00000	14.1		0.000022		0.000000		0.276		0.18			0.00049		0.000000	190		0.00000		0.00000			
		1st Quartile		0.00141		0.0015	285		4.90E-05		0.0001		0.867		1.43			0.00068		0.0001	377		0.0025		0.0015			
		Median		0.00183		0.0015	290		5.70E-05		0.0001		0.964		1.49			0.00085		0.0001	445		0.0025		0.0015			
		3rd Quartile		0.00224		0.0015	295		6.40E-05		0.0001		1.062		1.56			0.00102		0.0001	512		0.0025		0.0015			
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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2021 -22 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
MW006D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average		0.0300		0.0159	77.5		0.0000050		0.000260		0.0410		0.0645			0.00050		0.000100	13.0		0.00250		0.15		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.0293		0.0154	75		<0.000010		<0.00020		0.0166		0.0385			<0.0010		<0.00020	13		<0.0050		0.15		
		Maximum		0.0307		0.0164	80		<0.000010		0.00042		0.0654		0.0906			<0.0010		<0.00020	13		<0.0050		0.15		
		Geometric Mean		0.0300		0.0159	77.5		0.0000050		0.000205		0.0329		0.0591			0.00050		0.000100	13.0		0.00250		0.15		
		Count <DL		0		0	0		2		1		0		0			2		2	0		2		0		
		Standard Deviation		0.0010		0.0007	3.5		0.0000000		0.000226		0.0345		0.0368			0.00000		0.000000	0.0		0.00000		0.00		
		1st Quartile		0.0296		0.0157	76.2		5.00E-06		0.00018		0.0288		0.0515			0.0005		0.0001	13		0.0025		0.15		
		Median		0.03		0.0159	77.5		5.00E-06		0.00026		0.041		0.0645			0.0005		0.0001	13		0.0025		0.15		
		3rd Quartile		0.0304		0.0162	78.8		5.00E-06		0.00034		0.0532		0.0776			0.0005		0.0001	13		0.0025		0.15		
MW006S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00175		0.00150	155.0		0.000019		0.00071		0.00250		0.0411			0.00080		0.000100	510		0.00250		0.067		
		Count		2		2	2		2		2		2		2			2		2	2		2		2		
		Minimum		0.00152		<0.0030	150		0.000018		0.00068		<0.0050		0.0301			<0.0010		<0.00020	420		<0.0050		0.046		
		Maximum		0.00198		<0.0030	160		0.000019		0.00073		<0.0050		0.0522			0.0011		<0.00020	600		<0.0050		0.088		
		Geometric Mean		0.00173		0.00150	154.9		0.000018		0.00070		0.00250		0.0396			0.00074		0.000100	501		0.00250		0.064		
		Count <DL		0		2	0		0		0		2		0			1		2	0		2		0		
		Standard Deviation		0.00033		0.00000	7.1		0.000001		0.00004		0.00000		0.0156			0.00042		0.000000	127		0.00000		0.030		
		1st Quartile		0.00164		0.0015	152.5		1.80E-05		0.00069		0.0025		0.0356			0.00065		0.0001	465		0.0025		0.056		
		Median		0.00175		0.0015	155		1.90E-05		0.00071		0.0025		0.0411			0.0008		0.0001	510		0.0025		0.067		
		3rd Quartile		0.00186		0.0015	157.5		1.90E-05		0.00072		0.0025		0.0467			0.00095		0.0001	555		0.0025		0.077		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
WC	2-North Pit Culvert discharge into Middle Quinsam Lake	Average	0.00040	0.00036	0.00679	0.00584	400.0	0.0000075	0.0000069	0.000418	0.000276	0.100	0.0098	0.0237	0.0221	412	0.00452	0.00110	0.000150	0.000138	693	0.00375	0.00344					
E207411		Count	8	8	8	8	1	8	8	8	8	8	8	8	8	8	8	8	8	8	12	8	8					
		Minimum	0.00029	0.00027	<0.0060	<0.0060	400	<0.000010	<0.000010	<0.00050	<0.00020	0.058	<0.010	0.0088	0.0084	285	<0.0010	<0.0010	<0.00020	<0.00020	330	<0.0050	<0.0050					
		Maximum	0.00054	0.00044	0.0157	0.0117	400	<0.000020	<0.000020	0.00059	0.00059	0.143	0.0153	0.0375	0.0379	520	0.0273	0.0031	<0.00040	<0.00040	1000	<0.010	<0.010					
		Geometric Mean	0.00039	0.00036	0.00554	0.00508	400.0	0.0000071	0.0000065	0.000394	0.000245	0.095	0.0092	0.0210	0.0196	402	0.00164	0.00091	0.000141	0.000130	650	0.00354	0.00324					
		Count <DL	0	0	3	3	0	8	8	7	4	0	2	0	0	0	4	6	8	8	0	8	8					
		Standard Deviation	0.00009	0.00006	0.00476	0.00335	0.0	0.0000027	0.0000026	0.000142	0.000151	0.036	0.0036	0.0111	0.0109	92	0.00924	0.00086	0.000053	0.000052	238	0.00134	0.00129					
		1st Quartile	0.00034	0.00033	0.003	0.003	400	5.00E-06	5.00E-06	0.00025	0.0002	0.066	0.0074	0.0167	0.0155	342	0.001	0.0005	0.0001	0.0001	547	0.0025	0.0025					
		Median	0.00039	0.00036	0.0052	0.00445	400	7.50E-06	5.00E-06	0.0005	0.000225	0.101	0.0104	0.0221	0.0197	405	0.00105	0.001	0.00015	0.0001	700	0.00375	0.0025					
		3rd Quartile	0.00044	0.00038	0.00855	0.00853	400	1.00E-05	1.00E-05	0.0005	0.000313	0.135	0.0118	0.0347	0.0316	494	0.00163	0.00105	0.0002	0.0002	892	0.005	0.005					
MQL1	Middle Quinsam Lake 1 metre below surface	Average	0.00015	0.000128	0.0143	0.0121	41.3	0.0000050	0.0000090	0.000345	0.00044	0.039	0.0235	0.0075	0.00219	40.7	0.00050	0.00050	0.000100	0.000100	43.6	0.00250	0.00250	0.00197	0.00234	0.0283		
E206618		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	15		
		Minimum	0.00010	<0.00010	0.0091	0.0069	28	<0.000010	<0.000010	<0.00050	0.00036	0.027	0.0190	0.0045	<0.0010	34.9	<0.0010	<0.0010	<0.00020	<0.00020	28	<0.0050	<0.0050	<0.0030	<0.0030	<0.020		
		Maximum	0.00024	0.00020	0.0216	0.0176	51	<0.000010	0.000065	0.00058	0.00053	0.054	0.0304	0.0114	0.0049	44.5	<0.0010	<0.0010	<0.00020	<0.00020	52	<0.0050	<0.0050	0.0086	<0.010	0.155		
		Geometric Mean	0.00015	0.000114	0.0139	0.0117	40.8	0.0000050	0.0000059	0.000322	0.00044	0.039	0.0232	0.0072	0.00177	40.6	0.00050	0.00050	0.000100	0.000100	42.8	0.00250	0.00250	0.00169	0.00201	0.0171		
		Count <DL	0	4	0	0	0	15	14	10	0	0	0	0	2	0	15	15	15	15	0	15	15	14	11	10		
		Standard Deviation	0.00004	0.000055	0.0033	0.0032	6.6	0.0000000	0.0000155	0.000140	0.00005	0.008	0.0036	0.0022	0.00142	2.9	0.00000	0.00000	0.000000	0.000000	8.2	0.00000	0.00000	0.00183	0.00153	0.0395		
		1st Quartile	0.00012	8.00E-05	0.0136	0.0109	37	5.00E-06	5.00E-06	0.00025	0.00041	0.03	0.0202	0.0061	0.00125	39.1	0.0005	0.0005	0.0001	0.0001	39	0.0025	0.0025	0.0015	0.0015	0.01		
		Median	0.00016	0.00014	0.0143	0.0125	43	<0.000010	<0.000010	<0.00050	0.00046	0.04	0.0237	0.0073	0.0016	41.1	<0.0010	<0.0010	<0.00020	<0.00020	47	<0.0050	<0.0050	<0.0030	0.0015	<0.020		
		3rd Quartile	0.00018	0.00017	0.0154	0.0135	45.5	5.00E-06	5.00E-06	0.00051	0.00047	0.044	0.025	0.0085	0.0027	43.3	0.0005	0.0005	0.0001	0.0001	49.5	0.0025	0.0025	0.0015	0.00228	0.027		
MQLB	Middle Quinsam Lake 1 metre from bottom	Average	0.000111	0.000095	0.0115	0.0085	36.7	0.0000050	0.0000050	0.000383	0.00043	0.032	0.0170	0.0069	0.00255	37.3	0.00050	0.00050	0.000100	0.000100	33.3	0.00250	0.00250	0.00177	0.00208	0.0125		
E206618		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	15		
		Minimum	<0.00010	<0.00010	0.0054	0.0044	28	<0.000010	<0.000010	<0.00050	0.00035	0.019	0.0097	0.0025	<0.0010	33.7	<0.0010	<0.0010	<0.00020	<0.00020	26	<0.0050	<0.0050	<0.0030	<0.0030	<0.020		
		Maximum	0.00015	0.00017	0.0224	0.0159	47	<0.000010	<0.000010	0.00055	0.00048	0.055	0.0309	0.0098	0.0057	39.7	<0.0010	<0.0010	<0.00020	<0.00020	46	<0.0050	<0.0050	0.0039	<0.010	0.033		
		Geometric Mean	0.000104	0.000084	0.0106	0.0079	36.3	0.0000050	0.0000050	0.000357	0.00043	0.030	0.0155	0.0063	0.00181	37.3	0.00050	0.00050	0.000100	0.000100	32.6	0.00250	0.00250	0.00168	0.00183	0.0115		
		Count <DL	3	7	0	0	0	15	15	8	0	0	0	0	4	0	15	15	15	15	0	15	15	13	12	13		
		Standard Deviation	0.000037	0.000048	0.0051	0.0033	5.7	0.0000000	0.0000000	0.000148	0.00003	0.012	0.0080	0.0026	0.00190	2.1	0.00000	0.00000	0.000000	0.000000	7.3	0.00000	0.00000	0.00072	0.00136	0.0069		
		1st Quartile	0.0001	5.00E-05	0.0074	0.0063	32.5	5.00E-06	5.00E-06	0.00025	0.0004	0.025	0.0108	0.0047	0.00085	35.3	0.0005	0.0005	0.0001	0.0001	28	0.0025	0.0025	0.0015	0.0015	0.01		
		Median	0.00011	0.0001	0.0091	0.0072	37	<0.000010	<0.000010	<0.00050	0.00043	0.029	0.0132	0.0076	0.0017	37.7	<0.0010	<0.0010	<0.00020	<0.00020	29	<0.0050	<0.0050	<0.0030	0.0015	<0.020		
		3rd Quartile	0.000145	0.000125	0.0145	0.0108	39	5.00E-06	5.00E-06	0.00054	0.00046	0.04	0.0248	0.009	0.0042	39.1	0.0005	0.0005	0.0001	0.0001	41.5	0.0025	0.0025	0.0015	0.0015	0.01		
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2021 - 22 Statistics Stn.Code	Site Name & Description																											
EMS. ID		Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
NNL1			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
E217018	No Name Lake 1 metre below surface	Average	0.00022	0.00020	0.0306	0.0249	11.4	0.0000050	0.0000050	0.000250	0.00034	0.061	0.0413	0.0039	0.0031	12.8	0.00050	0.00050	0.000100	0.000100	1.9	0.00250	0.00250	0.00284	0.0050	0.0100		
		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
		Minimum	0.00020	0.00017	0.0257	0.0219	10	<0.000010	<0.000010	<0.00050	0.00030	0.050	0.0361	0.0033	0.0022	12.1	<0.0010	<0.0010	<0.00020	<0.00020	1.6	<0.0050	<0.0050	<0.0030	<0.010	<0.020		
		Maximum	0.00023	0.00023	0.0370	0.0291	12	<0.000010	<0.000010	<0.00050	0.00037	0.072	0.0505	0.0044	0.0040	13.4	<0.0010	<0.0010	<0.00020	<0.00020	2.5	<0.0050	<0.0050	0.0049	<0.010	<0.020		
		Geometric Mean	0.00022	0.00020	0.0303	0.0248	11.4	0.0000050	0.0000050	0.000250	0.00034	0.060	0.0410	0.0039	0.0030	12.8	0.00050	0.00050	0.000100	0.000100	1.9	0.00250	0.00250	0.00240	0.0050	0.0100		
		Count <DL	0	0	0	0	0	5	5	5	0	0	0	0	0	0	5	5	5	5	0	5	5	3	5	5		
		Standard Deviation	0.00001	0.00002	0.0052	0.0028	0.9	0.0000000	0.0000000	0.000000	0.00003	0.008	0.0058	0.0004	0.0008	0.6	0.00000	0.00000	0.000000	0.000000	0.4	0.00000	0.00000	0.00184	0.0000	0.0000		
		1st Quartile	0.00021	0.0002	0.0273	0.023	11	<0.000010	<0.000010	<0.00050	0.00034	0.057	0.0376	0.0037	0.0026	12.2	<0.0010	<0.0010	<0.00020	<0.00020	1.6	<0.0050	<0.0050	<0.0030	<0.010	<0.020		
		Median	0.00022	0.0002	0.0276	0.025	12	<0.000010	<0.000010	<0.00050	0.00035	0.062	0.0388	0.0039	0.0027	13.2	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050	<0.0030	<0.010	<0.020		
		3rd Quartile	0.00022	0.00021	0.0355	0.0254	12	<0.000010	<0.000010	<0.00050	0.00036	0.063	0.0434	0.0043	0.004	13.2	<0.0010	<0.0010	<0.00020	<0.00020	2	<0.0050	<0.0050	0.0048	<0.010	<0.020		
NNLB	No Name Lake 1 metre from bottom	Average	0.00023	0.00018	0.0383	0.0292	9.9	0.0000050	0.0000050	0.000250	0.00034	0.114	0.0530	0.0066	0.0031	13.7	0.00050	0.00050	0.000100	0.000100	3.3	0.00250	0.00250	0.00230	0.0050	0.029		
E217018		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
		Minimum	0.00021	0.00016	0.0348	0.0253	9.1	<0.000010	<0.000010	<0.00050	0.00028	0.091	0.0450	0.0052	0.0021	13.3	<0.0010	<0.0010	<0.00020	<0.00020	2.6	<0.0050	<0.0050	<0.0030	<0.010	0.025		
		Maximum	0.00028	0.00021	0.0413	0.0317	11	<0.000010	<0.000010	<0.00050	0.00037	0.182	0.0783	0.0092	0.0045	14.4	<0.0010	<0.0010	<0.00020	<0.00020	3.8	<0.0050	<0.0050	0.0040	<0.010	0.034		
		Geometric Mean	0.00023	0.00018	0.0383	0.0291	9.9	0.0000050	0.0000050	0.000250	0.00034	0.110	0.0518	0.0065	0.0030	13.7	0.00050	0.00050	0.000100	0.000100	3.2	0.00250	0.00250	0.00210	0.0050	0.029		
		Count <DL	0	0	0	0	0	5	5	5	0	0	0	0	0	0	5	5	5	5	0	5	5	3	5	0		
		Standard Deviation	0.00003	0.00002	0.0023	0.0026	0.7	0.0000000	0.0000000	0.000000	0.00003	0.038	0.0142	0.0016	0.0009	0.5	0.00000	0.00000	0.000000	0.000000	0.5	0.00000	0.00000	0.00115	0.0000	0.004		
		1st Quartile	0.00021	0.00017	0.0382	0.0283	9.4	<0.000010	<0.000010	<0.00050	0.00034	0.094	0.0463	0.0058	0.0025	13.3	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050	<0.0030	<0.010	0.026		
		Median	0.00021	0.00018	0.0384	0.0291	10	<0.000010	<0.000010	<0.00050	0.00035	0.096	0.0465	0.0061	0.0031	13.5	<0.0010	<0.0010	<0.00020	<0.00020	3.4	<0.0050	<0.0050	<0.0030	<0.010	0.027		
		3rd Quartile	0.00023	0.0002	0.0389	0.0316	10	<0.000010	<0.000010	<0.00050	0.00035	0.107	0.049	0.0069	0.0032	13.9	<0.0010	<0.0010	<0.00020	<0.00020	3.6	<0.0050	<0.0050	0.003	<0.010	0.033		
NNO	No Name Lake Outlet	Average	0.00030	0.00028	0.0293	0.0222	14.8	0.0000050	0.0000050	0.000374	0.00041	0.086	0.0531	0.0273	0.0241	15.5	0.00050	0.00050	0.000100	0.000100	2.6	0.00250	0.00250	0.00290	0.00150	0.0386	0.0084	
E217017		Count	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	8	2	8	8	
		Minimum	0.00020	0.00018	0.0124	0.0072	10	<0.000010	<0.000010	<0.00050	0.00032	0.045	0.0272	0.0033	0.0020	11.9	<0.0010	<0.0010	<0.00020	<0.00020	1.2	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015	
		Maximum	0.00048	0.00040	0.0703	0.0570	26	<0.000010	<0.000010	0.00068	0.00067	0.158	0.0890	0.158	0.143	24.8	<0.0010	<0.0010	<0.00020	<0.00020	3.5	<0.0050	<0.0050	0.0069	<0.0030	0.130	0.015	
		Geometric Mean	0.00029	0.00027	0.0248	0.0183	14.2	0.0000050	0.0000050	0.000343	0.00040	0.079	0.0496	0.0094	0.0063	15.1	0.00050	0.00050	0.000100	0.000100	2.5	0.00250	0.00250	0.00235	0.00150	0.0234	0.0082	
		Count <DL	0	0	0	0	0	13	13	8	0	0	0	0	0	0	13	13	13	13	0	13	13	5	2	4	7	
		Standard Deviation	0.00010	0.00007	0.0185	0.0148	4.8	0.0000000	0.0000000	0.000168	0.00011	0.038	0.0205	0.0485	0.0443	4.1	0.00000	0.00000	0.000000	0.000000	0.7	0.00000	0.00000	0.00218	0.00000	0.0440	0.0027	
		1st Quartile	0.00022	0.00023	0.015	0.0101	12	<0.000010	<0.000010	<0.00050	0.00033	0.055	0.0392	0.0045	0.0025	12.8	<0.0010	<0.0010	<0.00020	<0.00020	2.2	<0.0050	<0.0050	0.0015	0.0015	0.01	0.0075	
		Median	0.00028	0.00028	0.0259	0.0201	12	<0.000010	<0.000010	<0.00050	0.00038	0.065	0.0462	0.0047	0.0032	13.7	<0.0010	<0.0010	<0.00020	<0.00020	2.7	<0.0050	<0.0050	0.0015	0.0015	0.0175	0.0075	
		3rd Quartile	0.00034	0.0003	0.0324	0.0262	15	<0.000010	<0.000010	0.00052	0.00044	0.1	0.0746	0.0075	0.0051	16.1	<0.0010	<0.0010	<0.00020	<0.00020	3.3	<0.0050	<0.0050	0.0038	0.0015	0.0455	0.0075	
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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2021 -22 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
LLS	Small Seep into Long Lake	Average	0.00358	0.00324	0.00536	0.00190	229	0.0000088	0.0000058	0.000292	0.000117	1.71	1.59	0.409	0.404	632	0.0024	0.0023	0.000108	0.000117	615	0.00271	0.00292	0.00150	0.00150	0.0165	0.037	
E292131		Count	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	2	1	2	2		
		Minimum	0.00217	0.00204	<0.0030	<0.0030	78	<0.000010	<0.000010	<0.00050	<0.00020	1.20	1.01	0.272	0.266	573	0.0016	0.0017	<0.00020	<0.00020	530	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	0.032	
		Maximum	0.00461	0.00436	0.0210	0.0033	260	0.000046	<0.000020	0.00050	<0.00040	2.23	2.09	0.469	0.463	700	0.0038	0.0038	<0.00040	<0.00040	660	<0.010	<0.010	<0.0030	<0.0030	0.023	0.042	
		Geometric Mean	0.00347	0.00315	0.00355	0.00180	220	0.0000064	0.0000056	0.000281	0.000112	1.69	1.55	0.404	0.399	631	0.0023	0.0022	0.000106	0.000112	613	0.00265	0.00281	0.00150	0.00150	0.0152	0.037	
		Count <DL	0	0	6	11	0	11	12	11	12	0	0	0	0	0	0	0	0	12	12	0	12	12	2	1	1	0
		Standard Deviation	0.00085	0.00079	0.00574	0.00073	50	0.0000118	0.0000019	0.000097	0.000039	0.29	0.34	0.062	0.060	39	0.0007	0.0006	0.000029	0.000039	45	0.00072	0.00097	0.00000	0.00000	0.0092	0.007	
		1st Quartile	0.00283	0.00259	0.0015	0.0015	230	5.00E-06	5.00E-06	0.00025	0.0001	1.52	1.45	0.387	0.383	596	0.0019	0.0018	0.0001	0.0001	595	0.0025	0.0025	0.0015	<0.0030	0.0132	0.035	
		Median	0.00379	0.00343	0.00345	0.0015	240	5.00E-06	5.00E-06	0.00025	0.0001	1.75	1.62	0.419	0.422	639	0.0022	0.0022	0.0001	0.0001	635	0.0025	0.0025	0.0015	<0.0030	0.0165	0.037	
		3rd Quartile	0.00415	0.00386	0.00632	0.00187	260	5.00E-06	5.00E-06	0.00025	0.0001	1.85	1.73	0.46	0.447	659	0.0025	0.0024	0.0001	0.0001	650	0.0025	0.0025	0.0015	<0.0030	0.0198	0.04	
LLSM	Long Lake Middle Seep	Average	0.00090	0.00083	0.02482	0.00909	200	0.0000175	0.0000062	0.000690	0.000413	0.529	0.4769	0.2029	0.2045	503	0.0024	0.0023	0.000100	0.000100	451	0.00280	0.00279	0.00150	0.00150	0.030	0.0075	
E292131		Count	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	2	1	2	2		
		Minimum	0.00024	0.00022	<0.0030	<0.0030	150	<0.000010	<0.000010	<0.00050	<0.00020	0.097	0.0509	0.0312	0.0297	445	0.0012	0.0012	<0.00020	<0.00020	370	<0.0050	<0.0050	<0.0030	<0.0030	0.025	<0.015	
		Maximum	0.00176	0.00166	0.154	0.0353	250	0.000135	0.000018	0.00239	0.00148	0.952	0.869	0.362	0.369	548	0.0068	0.0067	<0.00020	<0.00020	540	0.0058	0.0057	<0.0030	<0.0030	0.035	<0.015	
		Geometric Mean	0.00077	0.00072	0.00816	0.00482	197	0.0000073	0.0000056	0.000463	0.000291	0.417	0.3596	0.1505	0.1499	502	0.0021	0.0021	0.000100	0.000100	449	0.00270	0.00269	0.00150	0.00150	0.030	0.0075	
		Count <DL	0	0	3	4	0	9	10	7	3	0	0	0	0	0	0	0	0	11	11	0	10	10	2	1	0	2
		Standard Deviation	0.00048	0.00043	0.04582	0.01104	33	0.0000390	0.0000039	0.000707	0.000400	0.306	0.2740	0.1291	0.1315	34	0.0015	0.0015	0.000000	0.000000	49	0.00099	0.00096	0.00000	0.00000	0.007	0.0000	
		1st Quartile	0.00051	0.00056	0.00265	0.0015	170	5.00E-06	5.00E-06	0.00025	0.000155	0.224	0.2675	0.0716	0.0683	481	0.0018	0.0018	0.0001	0.0001	430	0.0025	0.0025	0.0015	<0.0030	0.028	0.0075	
		Median	0.0009	0.00083	0.0084	0.0041	200	<0.000010	<0.000010	<0.00050	0.00032	0.617	0.562	0.224	0.223	503	0.0021	0.002	<0.00020	<0.00020	450	<0.0050	<0.0050	0.0015	<0.0030	0.03	0.0075	
		3rd Quartile	0.00114	0.00102	0.01385	0.0128	225	5.00E-06	5.00E-06	0.001045	0.000495	0.754	0.685	0.3185	0.318	529	0.0022	0.002	0.0001	0.0001	480	0.0025	0.0025	0.0015	<0.0030	0.033	0.0075	
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2021 -22 Statistics Stn.Code		Statistic																										
EMS. ID	Site Name & Description		As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average	0.00219	0.00218	0.003	0.003	285	1.00E-05	1.00E-05	0.0005	0.0002	4.35	4.59	1.42	1.5	1410	0.0022	0.0023	0.0002	0.0002	1350	0.005	0.005		0.00282			
		Count	1	4	1.00000	4.00000	4.0	1.0000000	4.0000000	1.00000	4.000000	1	4	1	4.00	1.0	1	4	1.000000	4.000000	4	1.0000	4.0000		4			
		Minimum	0.00219	0.00198	<0.0060	<0.0060	280	<0.000020	<0.000020	<0.0010	<0.00040	4.35	4.19	1.42	1.4	1410	0.0022	0.0021	<0.00040	<0.00040	1300	<0.010	<0.010		<0.0030			
		Maximum	0.00219	0.00236	<0.0060	<0.0060	300	<0.000020	<0.000020	<0.0010	<0.00040	4.35	4.93	1.42	1.57	1410	0.0022	0.0025	<0.00040	<0.00040	1400	<0.010	<0.010		0.0068			
		Geometric Mean	0.00219	0.00218	0.003	0.003	284.9	0.00001	0.00001	0.0005	0.0002	4.35	4.58	1.42	1.5	1410	0.0022	0.0023	0.0002	0.0002	1349	0.005	0.005		0.00219			
		Count <DL	0	0	1.00000	4.00000	0	1.0000000	4.0000000	1.00000	4.000000	0	0	0	0.00	0.0	0	0	1.000000	4.000000	0	1.0000	4.0000		3			
		Standard Deviation	0	0.00017	0	0	10	0	0	0	0	0	0.31	0	0.07	0	0	0.0002	0	0	57	0	0		0.00265			
		1st Quartile	0.00219	0.00209	<0.0060	0.00300	280.0	<0.000020	0.0000100	<0.0010	0.000200	4.35	4.48	1.42	1.48	1410.0	0.0022	0.0022	<0.00040	0.000200	1300	<0.010	0.0050		0.0015			
		Median	0.00219	0.0022	<0.0060	0.003	280	<0.000020	1.00E-05	<0.0010	0.0002	4.35	4.61	1.42	1.52	1410	0.0022	0.0023	<0.00040	0.0002	1350	<0.010	0.005		0.0015			
		3rd Quartile	0.00219	0.0023	<0.0060	0.003	285	<0.000020	1.00E-05	<0.0010	0.0002	4.35	4.72	1.42	1.54	1410	0.0022	0.0024	<0.00040	0.0002	1400	<0.010	0.005		0.00282			
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.1017		0.0015	180		5.00E-06		0.0001		0.717		0.0602			0.0005		0.0001	78.7		0.0025		0.014			
		Count		3		3.00000	3.0		3.0000000		3.000000		3		3			3.00000		3.000000	3		3.00000		3			
		Minimum		0.0912		<0.0030	180		<0.000010		<0.00020		0.597		0.054			<0.0010		<0.00020	73		<0.0050		0.012			
		Maximum		0.11		<0.0030	180		<0.000010		<0.00020		0.875		0.0719			<0.0010		<0.00020	88		<0.0050		0.016			
		Geometric Mean		0.101		0.0015	180		0.000005		0.0001		0.708		0.0597			0.0005		0.0001	78.4		0.0025		0.014			
		Count <DL		0		3.00000	0.0		3.0000000		3.000000		0		0			3.00000		3.000000	0		3.00000		0			
		Standard Deviation		0.0096		0	0		0		0		0.143		0.0101			0		0	8.1		0		0.002			
		1st Quartile		0.0976		0.00150	180.0		0.0000050		0.000100		0.638		0.0543			0.00050		0.000100	74		0.00250		0.013			
		Median		0.104		<0.0030	180		<0.000010		<0.00020		0.679		0.0547			<0.0010		<0.00020	75		<0.0050		0.013			
		3rd Quartile		0.107		0.0015	180		0.000005		0.0001		0.777		0.0633			0.0005		0.0001	81.5		0.0025		0.014			
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.0873		0.0015	150		5.00E-06		0.0001		4.85		0.372			0.0005		0.0001	111.3		0.0025		0.0096			
		Count		3		3.00000	3.0		3.0000000		3.000000		3		3			3.00000		3.000000	3		3.00000		3			
		Minimum		0.0832		<0.0030	140		<0.000010		<0.00020		4.56		0.359			<0.0010		<0.00020	94		<0.0050		0.0077			
		Maximum		0.0941		<0.0030	160		<0.000010		<0.00020		5.22		0.381			<0.0010		<0.00020	120		<0.0050		0.011			
		Geometric Mean		0.0872		0.0015	149.8		0.000005		0.0001		4.84		0.372			0.0005		0.0001	110.6		0.0025		0.0095			
		Count <DL		0		3.00000	0		3.0000000		3.000000		0		0			3.00000		3.000000	0		3.00000		0			
		Standard Deviation		0.0059		0	10		0		0		0.34		0.012			0		0	15		0		0.0017			
		1st Quartile		0.0839		0.00150	145.0		0.0000050		0.000100		4.66		0.367			0.00050		0.000100	107.0		0.00250		0.0089			
		Median		0.0847		<0.0030	150		<0.000010		<0.00020		4.77		0.376			<0.0010		<0.00020	120		<0.0050		0.01			
		3rd Quartile		0.0894		0.0015	155		0.000005		0.0001		4.99		0.379			0.0005		0.0001	120		0.0025		0.0105			
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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2021 -22 Statistics Stn.Code		Site Name & Description	Statistic																								
EMS. ID	As-T			As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
SPD	Settling Pond # 1																										
E218582		Average	0.00106	0.00093	0.01976	0.01304	90.8	0.0000084	0.0000061	0.000479	0.000265	0.398	0.2313	0.0730	0.0606	324.1	0.00058	0.00050	0.000100	0.000100	271.2	0.00866	0.01012		0.0039	0.0100	0.0075
		Count	9	14	9	14	13	9	14	9	14	9	14	9	14	9	9	14	9	14	45	9	14		1	1	1
		Minimum	0.00017	0.00020	<0.0030	<0.0030	26	<0.000010	<0.000010	<0.00050	<0.00020	0.106	0.0241	0.0209	0.0050	23.0	<0.0010	<0.0010	<0.00020	<0.00020	26	<0.0050	<0.0050		0.0039	<0.020	<0.015
		Maximum	0.00175	0.00172	0.0526	0.0421	110	0.000021	0.000020	0.00082	0.00054	1.44	1.19	0.332	0.386	490	0.0012	<0.0010	<0.00020	<0.00020	490	0.0204	0.0633		0.0039	<0.020	<0.015
		Geometric Mean	0.00092	0.00081	0.01041	0.00573	85.0	0.0000068	0.0000055	0.000426	0.000242	0.253	0.1486	0.0452	0.0309	248.8	0.00055	0.00050	0.000100	0.000100	218.1	0.00616	0.00565		0.0039	0.0100	0.0075
		Count <DL	0	0	2	6	0	7	13	4	2	0	0	0	0	0	8	14	9	14	0	4	7		0	1	1
		Standard Deviation	0.00042	0.00047	0.01845	0.01511	27.5	0.0000068	0.0000040	0.000234	0.000113	0.452	0.2948	0.1002	0.0977	168.9	0.00023	0.00000	0.000000	0.000000	147.2	0.00707	0.01589		0.0000	0.0000	0.0000
		1st Quartile	0.00102	0.00066	0.0031	0.0015	82	<0.000010	5.00E-06	<0.00050	0.00022	0.135	0.0895	0.0258	0.0149	213	<0.0010	0.0005	<0.00020	0.0001	130	<0.0050	0.0025		0.0039	<0.020	<0.015
		Median	0.00108	0.00092	0.0165	0.00415	110	<0.000010	5.00E-06	0.00051	0.000245	0.156	0.1255	0.0308	0.0244	392	<0.0010	0.0005	<0.00020	0.0001	270	0.0084	0.0047		0.0039	<0.020	<0.015
		3rd Quartile	0.00115	0.00102	0.0334	0.02683	110	<0.000010	5.00E-06	0.00063	0.000302	0.517	0.2045	0.0662	0.0693	463	<0.0010	0.0005	<0.00020	0.0001	410	0.011	0.0112		0.0039	<0.020	<0.015
LLE	Long Lake Entrance (LLE)	Average	0.00080	0.00069	0.0545	0.02639	71	0.0000068	0.0000144	0.000354	0.000298	0.501	0.2735	0.0778	0.0756	264.2	0.00050	0.00050	0.000100	0.000100	209	0.00250	0.00303	0.00283		0.0240	0.0991
E292130		Count	13	13	13	13	12	13	13	13	13	13	13	13	13	13	13	13	13	44	13	13	12		12	12	
		Minimum	0.00054	0.00045	0.0046	<0.0030	26	<0.000010	<0.000010	<0.00050	<0.00020	0.099	0.0141	0.0066	0.0065	57.1	<0.0010	<0.0010	<0.00020	<0.00020	43	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		Maximum	0.00122	0.00101	0.131	0.0627	150	0.000028	0.000127	0.00069	0.00061	1.24	0.855	0.338	0.335	712	<0.0010	<0.0010	<0.00020	<0.00020	660	<0.0050	0.0094	0.0056		0.093	0.56
		Geometric Mean	0.00078	0.00067	0.0365	0.01357	57	0.0000057	0.0000064	0.000324	0.000257	0.389	0.1841	0.0475	0.0457	185.0	0.00050	0.00050	0.000100	0.000100	154	0.00250	0.00277	0.00248		0.0168	0.0243
		Count <DL	0	0	0	3	0	12	12	9	3	0	0	0	0	0	13	13	13	13	0	13	12	6		8	7
		Standard Deviation	0.00020	0.00016	0.0406	0.02316	48	0.0000064	0.0000338	0.000168	0.000154	0.363	0.2376	0.0875	0.0870	230.0	0.00000	0.00000	0.000000	0.000000	180	0.00000	0.00191	0.00149		0.0254	0.1732
		1st Quartile	0.00067	0.00059	0.023	0.0074	35	<0.000010	<0.000010	<0.00050	0.00021	0.243	0.117	0.0263	0.0253	81.8	<0.0010	<0.0010	<0.00020	<0.00020	85	<0.0050	<0.0050	0.0015		0.01	0.0075
		Median	0.00073	0.00067	0.0466	0.0189	49	<0.000010	<0.000010	<0.00050	0.0003	0.317	0.219	0.0616	0.063	145	<0.0010	<0.0010	<0.00020	<0.00020	140	<0.0050	<0.0050	0.0025		0.01	0.0075
		3rd Quartile	0.00093	0.00079	0.0833	0.0466	122	<0.000010	<0.000010	0.0005	0.00038	0.657	0.271	0.087	0.0779	467	<0.0010	<0.0010	<0.00020	<0.00020	247	<0.0050	<0.0050	0.00395		0.032	0.0965
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2021 -22 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
LLM1	Long Lake Middle 1 metre below Surface	Average	0.00043	0.00040	0.0205	0.0163	32.1	0.0000050	0.0000050	0.000327	0.00034	0.045	0.0285	0.0098	0.00467	69.1	0.00234	0.00050	0.000100	0.000100	57.8	0.00250	0.00250	0.00387	0.00208	0.0138		
E206619		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	15		
		Minimum	0.00029	0.00024	0.0060	0.0044	14	<0.000010	<0.000010	<0.00050	0.00022	0.019	0.0090	0.0063	<0.0010	24.5	<0.0010	<0.0010	<0.00020	<0.00020	15	<0.0050	<0.0050	<0.0030	<0.0030	<0.020		
		Maximum	0.00064	0.00055	0.0617	0.0458	43	<0.000010	<0.000010	0.00070	0.00058	0.096	0.0674	0.0142	0.0110	102	0.0281	<0.0010	<0.00020	<0.00020	94	<0.0050	<0.0050	0.022	<0.010	0.067		
		Geometric Mean	0.00042	0.00039	0.0149	0.0124	30.8	0.0000050	0.0000050	0.000301	0.00033	0.037	0.0225	0.0094	0.00299	65.1	0.00065	0.00050	0.000100	0.000100	53.3	0.00250	0.00250	0.00250	0.00183	0.0114		
		Count <DL	0	0	0	0	0	15	15	12	0	0	0	0	3	0	14	15	15	15	15	0	15	15	10	12	14	
		Standard Deviation	0.00012	0.00011	0.0181	0.0132	8.9	0.0000000	0.0000000	0.000161	0.00011	0.028	0.0198	0.0027	0.00369	22.5	0.00713	0.00000	0.000000	0.000000	21.4	0.00000	0.00000	0.00530	0.00136	0.0147		
		1st Quartile	0.00032	0.00028	0.0078	0.0073	26.5	5.00E-06	5.00E-06	0.00025	0.00027	0.022	0.0121	0.0075	0.0017	54	0.0005	0.0005	0.0001	0.0001	42	0.0025	0.0025	0.0015	0.0015	0.01		
		Median	0.00046	0.00045	0.0091	0.0157	35	<0.000010	<0.000010	<0.00050	0.00029	0.025	0.0171	0.01	0.0033	76.2	<0.0010	<0.0010	<0.00020	<0.00020	59	<0.0050	<0.0050	<0.0030	0.0015	<0.020		
		3rd Quartile	0.00054	0.0005	0.0261	0.0193	39.5	5.00E-06	5.00E-06	0.00025	0.00038	0.067	0.0412	0.0118	0.0075	86.8	0.0005	0.0005	0.0001	0.0001	70	0.0025	0.0025	0.0049	0.0015	0.01		
LLMB	Long Lake Middle 1 metre From Bottom	Average	0.00028	0.00022	0.0143	0.0094	46.7	0.0000050	0.0000050	0.000250	0.00030	0.056	0.0173	0.640	0.5345	109.9	0.00071	0.00050	0.000100	0.000100	103.1	0.00250	0.00250	0.00192	0.00208	0.084		
E206619		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	15		
		Minimum	0.00023	0.00017	0.0063	0.0037	41	<0.000010	<0.000010	<0.00050	0.00023	0.020	0.0058	0.123	0.0740	76.0	<0.0010	<0.0010	<0.00020	<0.00020	73	<0.0050	<0.0050	<0.0030	<0.0030	0.047		
		Maximum	0.00034	0.00026	0.0341	0.0243	55	<0.000010	<0.000010	<0.00050	0.00041	0.080	0.0362	1.97	1.70	118	0.0037	<0.0010	<0.00020	<0.00020	120	<0.0050	<0.0050	0.0049	<0.010	0.193		
		Geometric Mean	0.00028	0.00022	0.0126	0.0082	46.5	0.0000050	0.0000050	0.000250	0.00029	0.053	0.0149	0.430	0.3082	109.4	0.00057	0.00050	0.000100	0.000100	102.5	0.00250	0.00250	0.00174	0.00183	0.079		
		Count <DL	0	0	0	0	0	15	15	15	0	0	0	0	0	0	14	15	15	15	15	0	15	15	13	12	0	
		Standard Deviation	0.00003	0.00003	0.0078	0.0053	4.2	0.0000000	0.0000000	0.000000	0.00004	0.019	0.0092	0.590	0.5602	9.9	0.00083	0.00000	0.000000	0.000000	10.7	0.00000	0.00000	0.00111	0.00136	0.036		
		1st Quartile	0.00025	0.0002	0.0083	0.0055	43.5	5.00E-06	5.00E-06	0.00025	0.00028	0.042	0.0101	0.17	0.0964	109	0.0005	0.0005	0.0001	0.0001	100	0.0025	0.0025	0.0015	0.0015	0.061		
		Median	0.00028	0.00022	0.0111	0.0081	46	<0.000010	<0.000010	<0.00050	0.00029	0.066	0.0144	0.487	0.292	112	<0.0010	<0.0010	<0.00020	<0.00020	100	<0.0050	<0.0050	<0.0030	0.0015	0.08		
		3rd Quartile	0.0003	0.00024	0.0193	0.0121	49	5.00E-06	5.00E-06	0.00025	0.0003	0.072	0.0253	0.77	0.7385	114	0.0005	0.0005	0.0001	0.0001	110	0.0025	0.0025	0.0015	0.0015	0.097		
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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2021 -22 Statistics Stn.Code			2021 -22 Statistics																									
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
LLO	Long Lake Outlet	Average	0.00038	0.00033	0.0224	0.01219	33.5	0.0000050	0.0000050	0.000282	0.00034	0.055	0.02297	0.0179	0.0087	72.1	0.00056	0.00053	0.000100	0.000100	60.6	0.00250	0.00250	0.00165	0.00150	0.1182	0.0368	
E219412		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	10	4	10	10	
		Minimum	0.00028	0.00022	0.0066	<0.0030	21	<0.000010	<0.000010	<0.00050	0.00023	0.016	<0.0050	0.0029	0.0013	44.0	<0.0010	<0.0010	<0.00020	<0.00020	36	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015	
		Maximum	0.00051	0.00050	0.0673	0.0431	46	<0.000010	<0.000010	0.00073	0.00069	0.154	0.0650	0.0658	0.0294	102	0.0014	0.0010	<0.00020	<0.00020	87	<0.0050	<0.0050	0.0030	<0.0030	0.329	0.18	
		Geometric Mean	0.00037	0.00033	0.0168	0.00806	32.7	0.0000050	0.0000050	0.000269	0.00033	0.043	0.01360	0.0131	0.0062	69.9	0.00054	0.00052	0.000100	0.000100	58.6	0.00250	0.00250	0.00161	0.00150	0.0458	0.0159	
		Count <DL	0	0	0	1	0	15	15	14	0	0	3	0	0	0	14	14	15	15	0	15	15	9	4	5	7	
		Standard Deviation	0.00008	0.00007	0.0183	0.01145	7.5	0.0000000	0.0000000	0.000124	0.00013	0.039	0.02031	0.0166	0.0074	18.5	0.00023	0.00013	0.000000	0.000000	15.8	0.00000	0.00000	0.00047	0.00000	0.1294	0.0564	
		1st Quartile	0.0003	0.00028	0.0086	0.004	26.5	5.00E-06	5.00E-06	0.00025	0.00026	0.021	0.0065	0.0096	0.0046	55.6	0.0005	0.0005	0.0001	0.0001	47	0.0025	0.0025	0.0015	0.0015	0.01	0.0075	
		Median	0.00035	0.00032	0.0197	0.0048	35	<0.000010	<0.000010	<0.00050	0.00029	0.056	0.0095	0.0106	0.0067	75.8	<0.0010	<0.0010	<0.00020	<0.00020	65	<0.0050	<0.0050	0.0015	0.0015	0.0595	0.0075	
		3rd Quartile	0.00046	0.00037	0.0263	0.01805	37	5.00E-06	5.00E-06	0.00025	0.00036	0.069	0.0378	0.0197	0.0112	81.5	0.0005	0.0005	0.0001	0.0001	70	0.0025	0.0025	0.0015	0.0015	0.218	0.0439	
WB	Middle Quinsam Lake Outlet	Average	0.00017	0.000156	0.0174	0.0137	40.0	0.0000092	0.0000068	0.000404	0.00049	0.040	0.0240	0.0087	0.0043	43.2	0.00062	0.00050	0.000100	0.000100	45.4	0.00270	0.00250	0.00150	0.00150	0.0111	0.0249	
E0900504		Count	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	11	5	12	11	
		Minimum	0.00010	<0.00010	0.0082	0.0058	29	<0.000010	<0.000010	<0.00050	0.00032	0.029	0.0178	0.0042	0.0014	34.4	<0.0010	<0.0010	<0.00020	<0.00020	29	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015	
		Maximum	0.00026	0.00027	0.0321	0.0223	50	0.000088	0.000041	0.00061	0.00082	0.065	0.0432	0.0170	0.0096	63.7	0.0028	<0.0010	<0.00020	<0.00020	60	0.0065	<0.0050	<0.0030	<0.0030	0.023	0.14	
		Geometric Mean	0.00016	0.000148	0.0164	0.0129	39.6	0.0000058	0.0000056	0.000377	0.00048	0.039	0.0235	0.0081	0.0040	42.8	0.00054	0.00050	0.000100	0.000100	44.4	0.00262	0.00250	0.00150	0.00150	0.0107	0.0131	
		Count <DL	0	1	0	0	0	19	19	9	0	0	0	0	0	0	19	20	20	20	0	19	20	11	5	11	8	
		Standard Deviation	0.00005	0.000048	0.0062	0.0043	6.2	0.0000186	0.0000080	0.000145	0.00011	0.010	0.0057	0.0034	0.0018	6.2	0.00051	0.00000	0.000000	0.000000	9.6	0.00089	0.00000	0.00000	0.00000	0.0038	0.0400	
		1st Quartile	0.00012	0.00012	0.0142	0.0121	35.8	5.00E-06	5.00E-06	0.00025	0.00045	0.034	0.0211	0.007	0.0032	41	0.0005	0.0005	0.0001	0.0001	39.8	0.0025	0.0025	0.0015	<0.0030	0.01	0.0075	
		Median	0.00016	0.000165	0.0159	0.0137	38.5	5.00E-06	5.00E-06	0.0005	0.00047	0.036	0.0228	0.0079	0.0039	42.2	0.0005	0.0005	0.0001	0.0001	45	0.0025	0.0025	<0.0030	<0.0030	0.01	<0.015	
		3rd Quartile	0.00021	0.000175	0.0197	0.0165	44.8	5.00E-06	5.00E-06	0.00051	0.00051	0.043	0.0241	0.0103	0.0054	45	0.0005	0.0005	0.0001	0.0001	54	0.0025	0.0025	0.0015	<0.0030	0.01	0.0213	

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EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L
7SSD	Settling Pond at 7S- Discharge to Stream 1 -7S																										
E292069		Average	0.00377	0.00349	0.0111	0.00440	117	0.0000050	0.0000050	0.000960	0.00045	0.116	0.0669	0.0655	0.0470	127.1	0.00050	0.00050	0.000100	0.000100	20.7	0.00250	0.00320				
		Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
		Minimum	0.00011	0.00022	0.0047	<0.0030	28	<0.000010	<0.000010	<0.00050	0.00023	0.036	0.0079	0.0179	0.0061	51.4	<0.0010	<0.0010	<0.00020	<0.00020	2.7	<0.0050	<0.0050				
		Maximum	0.00907	0.00834	0.0182	0.0060	200	<0.000010	<0.000010	0.00247	0.00057	0.309	0.220	0.115	0.0950	235	<0.0010	<0.0010	<0.00020	<0.00020	50	<0.0050	0.0053				
		Geometric Mean	0.00163	0.00183	0.0097	0.00388	94	0.0000050	0.0000050	0.000663	0.00043	0.078	0.0287	0.0466	0.0289	110.4	0.00050	0.00050	0.000100	0.000100	12.1	0.00250	0.00302				
		Count <DL	0	0	0	1	0	4	4	1	0	0	0	0	0	0	4	4	4	4	0	4	3				
		Standard Deviation	0.00392	0.00355	0.0061	0.00205	70	0.0000000	0.0000000	0.001018	0.00016	0.130	0.1022	0.0532	0.0423	77.3	0.00000	0.00000	0.0000000	0.0000000	21.4	0.00000	0.00140				
		1st Quartile	0.00129	0.00127	0.0067	0.00368	89	5.00E-06	5.00E-06	0.000452	0.0004	0.041	0.0154	0.0204	0.0145	92.3	0.0005	0.0005	0.0001	0.0001	5.9	0.0025	0.0025				
		Median	0.00296	0.0027	0.0106	0.00505	120	5.00E-06	5.00E-06	0.00056	0.00051	0.059	0.0198	0.0646	0.0435	111	0.0005	0.0005	0.0001	0.0001	15	0.0025	0.0025				
		3rd Quartile	0.00544	0.00493	0.015	0.00578	147	5.00E-06	5.00E-06	0.001067	0.00056	0.134	0.0713	0.1098	0.0759	145.8	0.0005	0.0005	0.0001	0.0001	29.8	0.0025	0.0032				
7S	Stream 1-7S discharge to LWO	Average	0.000069	0.000061	0.0516	0.0211	18.2	0.0000050	0.0000050	0.000250	0.000235	0.0293	0.00386	0.00121	0.00050	18.3	0.00289	0.00050	0.000100	0.000100	4.0	0.00250	0.00250			0.0100	
E292109		Count	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			1	
		Minimum	<0.00010	<0.00010	0.0148	0.0134	11	<0.000010	<0.000010	<0.00050	<0.00020	<0.010	<0.0050	<0.0010	<0.0010	13.2	<0.0010	<0.0010	<0.00020	<0.00020	3.3	<0.0050	<0.0050			<0.020	
		Maximum	0.00015	0.00014	0.174	0.0288	30	<0.000010	<0.000010	<0.00050	0.00040	0.133	0.0075	0.0051	<0.0010	26.2	0.0196	<0.0010	<0.00020	<0.00020	5.8	<0.0050	<0.0050			<0.020	
		Geometric Mean	0.000063	0.000057	0.0387	0.0201	16.9	0.0000050	0.0000050	0.000250	0.000213	0.0147	0.00348	0.00077	0.00050	17.7	0.00079	0.00050	0.000100	0.000100	4.0	0.00250	0.00250			0.0100	
		Count <DL	6	7	0	0	0	8	8	8	2	3	5	6	8	0	7	8	8	8	0	8	8			1	
		Standard Deviation	0.000037	0.000032	0.0513	0.0069	7.7	0.0000000	0.0000000	0.000000	0.000100	0.0435	0.00199	0.00162	0.00000	5.2	0.00675	0.00000	0.0000000	0.0000000	0.8	0.00000	0.00000			0.0000	
		1st Quartile	5.00E-05	5.00E-05	0.0294	0.0143	11.8	5.00E-06	5.00E-06	0.00025	0.000175	0.005	0.0025	0.0005	0.0005	13.5	0.0005	0.0005	0.0001	0.0001	3.4	0.0025	0.0025			<0.020	
		Median	5.00E-05	5.00E-05	0.036	0.0211	15.5	5.00E-06	5.00E-06	0.00025	0.00026	0.0125	0.0025	0.0005	0.0005	17.4	0.0005	0.0005	0.0001	0.0001	3.9	0.0025	0.0025			<0.020	
		3rd Quartile	6.30E-05	5.00E-05	0.0464	0.028	24.2	5.00E-06	5.00E-06	0.00025	0.000275	0.0258	0.00528	0.00078	0.0005	21.9	0.0005	0.0005	0.0001	0.0001	4.2	0.0025	0.0025			<0.020	
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU0813A	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (No. 4 Seam)	Average		0.413		0.00150	205.0		0.0000050		0.000100		0.255		0.0507			0.00050		0.000100	87.5		0.00250		0.036			
		Count		4		4	4		4		4		4		4			4		4	4		4		4			
		Minimum		0.374		<0.0030	200		<0.000010		<0.00020		0.174		0.0370			<0.0010		<0.00020	67		<0.0050		0.015			
		Maximum		0.455		<0.0030	210		<0.000010		<0.00020		0.289		0.0601			<0.0010		<0.00020	130		<0.0050		0.061			
		Geometric Mean		0.412		0.00150	204.9		0.0000050		0.000100		0.249		0.0499			0.00050		0.000100	84.5		0.00250		0.032			
		Count <DL		0		4	0		4		4		0		0			4		4	0		4		0			
		Standard Deviation		0.043		0.00000	5.8		0.0000000		0.000000		0.054		0.0098			0.00000		0.000000	28.7		0.00000		0.020			
		1st Quartile		0.377		0.0015	200		5.00E-06		0.0001		0.247		0.0482			0.0005		0.0001	73.8		0.0025		0.025			
		Median		0.412		0.0015	205		5.00E-06		0.0001		0.277		0.0529			0.0005		0.0001	76.5		0.0025		0.035			
		3rd Quartile		0.448		0.0015	210		5.00E-06		0.0001		0.284		0.0554			0.0005		0.0001	90.2		0.0025		0.047			
QU0813B	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (Till & SST contact)	Average		0.497		0.00523	206		0.0000050		0.000100		0.261		0.0825			0.00050		0.000100	97		0.00250		0.046			
		Count		3		3	3		3		3		3		3			3		3	3		3		3			
		Minimum		0.458		<0.0030	130		<0.000010		<0.00020		0.139		0.0675			<0.0010		<0.00020	32		<0.0050		0.037			
		Maximum		0.533		0.0127	270		<0.000010		<0.00020		0.412		0.102			<0.0010		<0.00020	170		<0.0050		0.057			
		Geometric Mean		0.496		0.00306	197		0.0000050		0.000100		0.237		0.0812			0.00050		0.000100	78		0.00250		0.045			
		Count <DL		0		2	0		3		3		0		0			3		3	0		3		0			
		Standard Deviation		0.038		0.00647	70		0.0000000		0.000000		0.139		0.0177			0.00000		0.000000	69		0.00000		0.010			
		1st Quartile		0.48		0.0015	175		5.00E-06		0.0001		0.186		0.0727			0.0005		0.0001	60		0.0025		0.04			
		Median		0.501		<0.0030	220		<0.000010		<0.00020		0.233		0.0779			<0.0010		<0.00020	89		<0.0050		0.044			
		3rd Quartile		0.517		0.0071	245		5.00E-06		0.0001		0.323		0.09			0.0005		0.0001	129		0.0025		0.051			
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average		0.165		0.0075	206.7		0.000025		0.0005		0.843		0.0727			0.0025		0.0005	1.33		0.0125		0.026			
		Count		3		3	3		3		3		3		3			3		3	3		3		3			
		Minimum		0.142		<0.015	200		<0.000050		<0.0010		0.615		0.0481			<0.0050		<0.0010	<1.0		<0.025		0.024			
		Maximum		0.186		<0.015	210		<0.000050		<0.0010		1.03		0.0998			<0.0050		<0.0010	3		<0.025		0.027			
		Geometric Mean		0.164		0.0075	206.6		0.000025		0.0005		0.824		0.0696			0.0025		0.0005	0.91		0.0125		0.026			
		Count <DL		0		3	0		3		3		0		0			3		3	2		3		0			
		Standard Deviation		0.022		0	5.8		0		0		0.211		0.0259			0		0	1.44		0		0.002			
		1st Quartile		0.154		0.0075	205		0.000025		0.0005		0.75		0.0591			0.0025		0.0005	0.5		0.0125		0.026			
		Median		0.167		<0.015	210		<0.000050		<0.0010		0.884		0.0701			<0.0050		<0.0010	<1.0		<0.025		0.027			
		3rd Quartile		0.176		0.0075	210		0.000025		0.0005		0.957		0.0849			0.0025		0.0005	1.75		0.0125		0.027			
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average		0.168		0.004	200		0.0000133		0.000383		0.312		0.0521			0.00133		0.000267	1.1		0.00667		0.0253			
		Count		3		3	3		3		3		3		3			3		3	3		3		3			
		Minimum		0.111		<0.0030	190		<0.000010		<0.00020		0.284		0.0384			<0.0010		<0.00020	<1.0		<0.0050		0.0088			
		Maximum		0.211		<0.015	210		<0.000050		0.00055		0.345		0.0603			<0.0050		<0.0010	2.3		<0.025		0.038			
		Geometric Mean		0.162		0.00323	199.8		0.0000108		0.000302		0.311		0.0511			0.00108		0.000215	0.83		0.00539		0.0213			
		Count <DL		0		3	0		3		2		0		0			3		3	2		3		0			
		Standard Deviation		0.052		0.00312	10		0.0000104		0.000247		0.031		0.0119			0.00104		0.000208	1.04		0.0052		0.015			
		1st Quartile		0.147		0.00225	195		0.0000075		0.0003		0.295		0.0479			0.00075		0.00015	0.5		0.00375		0.0189			
		Median		0.183		<0.0060	200		<0.000020		<0.0010		0.306		0.0575			<0.0020		<0.00040	<1.0		<0.010		0.029			
		3rd Quartile		0.197		0.00525	205		0.0000175		0.000525		0.326		0.0589			0.00175		0.00035	1.4		0.00875		0.0335			
QU1010D																												
		Average		0.0116		0.0069	89		0.0000183		0.000367		6.67		0.447			0.00183		0.000367	1.1		0.0101		0.044		0.76	
		Count		3		3	3		3		3		3		3			3		3	3		3		3		1	
		Minimum		0.0115		0.0058	85		<0.000010		<0.00020		5.74		0.381			<0.0010		<0.00020	<1.0		0.0052		0.039		0.76	
		Maximum		0.0117		<0.015	91		<0.000050		<0.0010		7.7		0.513			<0.0050		<0.0010	2.3		<0.025		0.05		0.76	
		Geometric Mean		0.0116		0.0069	89		0.0000146		0.000292		6.62		0.444			0.00146		0.000292	0.83		0.0093		0.044		0.76	
		Count <DL		0		2	0		3		3		0		0			3		3	2		2		0		0	
		Standard Deviation		0.0001		0.001	3.5		0.0000115		0.000231		0.98		0.066			0.00115		0.000231	1.04		0.0042		0.006		0	
		1st Quartile		0.0115		0.0066	88		0.000015		0.0003		6.15		0.414			0.0015		0.0003	0.5		0.0089		0.041		0.76	
		Median		0.0116		<0.015	91		<0.000050		<0.0010		6.56		0.447			<0.0050		<0.0010	<1.0		<0.025		0.043		0.76	
	3rd Quartile		0.0117		0.0075	91		0.000025		0.0005		7.13		0.48			0.0025		0.0005	1.4		0.0125		0.046		0.76		
Notes:		Factor applied to less-than results when calculating statistics: 0.5																										

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2021 -22 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average		0.1042		0.0294	263		0.0000083		0.000167		0.329		0.1359			0.00083		0.000167	14.7		0.00417		0.0252		0.26	
		Count		3		3	3		3		3		3		3			3		3	3		3		3		1	
		Minimum		0.0957		0.0057	210		<0.000010		<0.00020		0.208		0.0748			<0.0010		<0.00020	7.1		<0.0050		0.0097		0.26	
		Maximum		0.112		0.0645	310		<0.000020		<0.00040		0.496		0.182			<0.0020		<0.00040	29		<0.010		0.034		0.26	
		Geometric Mean		0.104		0.0187	260		0.0000079		0.000159		0.308		0.1272			0.00079		0.000159	11.8		0.00397		0.0219		0.26	
		Count <DL		0		0	0		3		3		0		0			3		3	0		3		0		0	
		Standard Deviation		0.0082		0.031	50		0.0000029		0.000058		0.149		0.0552			0.00029		0.000058	12.4		0.00144		0.0135		0	
		1st Quartile		0.1003		0.0118	240		0.0000075		0.00015		0.246		0.1129			0.00075		0.00015	7.5		0.00375		0.0209		0.26	
		Median		0.105		0.0179	270		<0.000020		<0.00040		0.284		0.151			<0.0020		<0.00040	7.9		<0.010		0.032		0.26	
		3rd Quartile		0.1085		0.0412	290		0.00001		0.0002		0.39		0.1665			0.001		0.0002	18.5		0.005		0.033		0.26	
QU1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.0364		0.00915	340		0.0000075		0.00015		1.7		0.191			0.00075		0.00015	1		0.00375		0.051			
		Count		2		2	2		2		2		2		2			2		2	2		2		2			
		Minimum		0.0271		<0.0060	340		<0.000010		<0.00020		1.19		0.148			<0.0010		<0.00020	<1.0		<0.0050		0.048			
		Maximum		0.0458		0.0153	340		<0.000020		<0.00040		2.2		0.234			<0.0020		<0.00040	1.5		<0.010		0.054			
		Geometric Mean		0.0352		0.00677	340		0.0000071		0.000141		1.62		0.186			0.00071		0.000141	0.87		0.00354		0.051			
		Count <DL		0		1	0		2		2		0		0			2		2	1		2		0			
		Standard Deviation		0.0132		0.0087	0		0.0000035		0.000071		0.71		0.061			0.00035		0.000071	0.71		0.00177		0.004			
		1st Quartile		0.0318		0.00607	340		0.0000063		0.000125		1.44		0.169			0.00063		0.000125	0.75		0.00313		0.05			
		Median		0.0364		0.00915	340		0.0000075		0.00015		1.7		0.191			0.00075		0.00015	1		0.00375		0.051			
		3rd Quartile		0.0411		0.01222	340		0.0000088		0.000175		1.95		0.213			0.00088		0.000175	1.25		0.00438		0.052			
QU1011S	Ex-situ 2-North shallow groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.00559		0.0015	145		0.000005		0.0001		0.518		0.088			0.0005		0.0001	5.5		0.0025		0.0097			
		Count		2		2	2		2		2		2		2			2		2	2		2		2			
		Minimum		0.00424		<0.0030	140		<0.000010		<0.00020		0.435		0.0749			<0.0010		<0.00020	3.3		<0.0050		0.0097			
		Maximum		0.00695		<0.0030	150		<0.000010		<0.00020		0.601		0.101			<0.0010		<0.00020	7.7		<0.0050		0.0098			
		Geometric Mean		0.00543		0.0015	144.9		0.000005		0.0001		0.511		0.087			0.0005		0.0001	5		0.0025		0.0097			
		Count <DL		0		2	0		2		2		0		0			2		2	0		2		0			
		Standard Deviation		0.00192		0	7.1		0		0		0.117		0.0185			0		0	3.1		0		0.0001			
		1st Quartile		0.00492		0.0015	142.5		0.000005		0.0001		0.476		0.0814			0.0005		0.0001	4.4		0.0025		0.0097			
		Median		0.00559		0.0015	145		0.000005		0.0001		0.518		0.088			0.0005		0.0001	5.5		0.0025		0.0097			
		3rd Quartile		0.00627		0.0015	147.5		0.000005		0.0001		0.559		0.0945			0.0005		0.0001	6.6		0.0025		0.0098			
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2021 -22 Statistics Stn.Code																											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU1105S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.1057		0.00187	327		0.0000063		0.000125		1.465		0.1736			0.00063		0.000125	317		0.00313		0.0086		
		Count		4		4	4		4		4		4		4			4		4	4		4		4		
		Minimum		0.0589		<0.0030	120		<0.000010		<0.00020		0.141		0.0283			<0.0010		<0.00020	71		<0.0050		0.0034		
		Maximum		0.133		<0.0060	460		<0.000020		<0.00040		2.70		0.252			<0.0020		<0.00040	570		<0.010		0.015		
		Geometric Mean		0.1009		0.00178	292		0.0000059		0.000119		0.946		0.1317			0.00059		0.000119	244		0.00297		0.0075		
		Count <DL		0		4	0		4		4		0		0			4		4	0		4		0		
		Standard Deviation		0.0336		0.00075	148		0.0000025		0.000050		1.101		0.1014			0.00025		0.000050	221		0.00125		0.0049		
		1st Quartile		0.0927		0.0015	277		5.00E-06		0.0001		0.853		0.1428			0.0005		0.0001	175		0.0025		0.0058		
		Median		0.1155		0.0015	365		5.00E-06		0.0001		1.51		0.207			0.0005		0.0001	315		0.0025		0.008		
		3rd Quartile		0.1285		0.00187	415		6.30E-06		0.000125		2.123		0.2378			0.00063		0.000125	457		0.00313		0.0108		
QU1109S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	0.1003	0.0931	0.0326	0.00263	482.5	0.0000175	0.0000088	0.00050	0.000175	3.92	0.346	0.0569	0.0401	118.2	0.01980	0.00088	0.000200	0.000175	312	0.0480	0.00437		0.0130		
		Count	2	4	2	4	4	2	4	2	4	2	4	2	4	2	2	4	2	4	4	2	4		4		
		Minimum	0.0976	0.0850	0.0112	<0.0030	470	<0.000020	<0.000010	<0.0010	<0.00020	1.79	0.121	0.0368	0.0257	94.4	<0.0020	<0.0010	<0.00040	<0.00020	240	<0.010	<0.0050		0.0090		
		Maximum	0.103	0.102	0.0539	<0.0060	500	0.000025	<0.000020	<0.0010	<0.00040	6.04	0.862	0.0770	0.0725	142	0.0386	<0.0020	<0.00040	<0.00040	440	0.091	<0.010		0.017		
		Geometric Mean	0.1003	0.0929	0.0246	0.00252	482.4	0.0000158	0.0000084	0.00050	0.000168	3.29	0.251	0.0532	0.0366	115.8	0.00621	0.00084	0.000200	0.000168	304	0.0213	0.00420		0.0127		
		Count <DL	0	0	0	4	0	1	4	2	4	0	0	0	0	0	1	4	2	4	0	1	4		0		
		Standard Deviation	0.0038	0.0083	0.0302	0.00075	12.6	0.0000106	0.0000025	0.00000	0.000050	3.01	0.348	0.0284	0.0219	33.7	0.02659	0.00025	0.000000	0.000050	87	0.0608	0.00125		0.0033		
		1st Quartile	0.099	0.0867	0.0219	0.00263	477.5	1.38E-05	8.80E-06	0.0005	0.000175	2.85	0.143	0.0469	0.0271	106.3	0.0104	0.00088	0.0002	0.000175	270	0.0265	0.00438		0.012		
		Median	0.1003	0.0927	0.0326	0.003	480	1.75E-05	1.00E-05	0.0005	0.0002	3.92	0.201	0.0569	0.0312	118.2	0.0198	0.001	0.0002	0.0002	285	0.048	0.005		0.013		
		3rd Quartile	0.1016	0.0991	0.0432	0.003	485	2.13E-05	1.00E-05	0.0005	0.0002	4.98	0.404	0.0669	0.0443	130.1	0.0292	0.001	0.0002	0.0002	327	0.0695	0.005		0.014		
Notes: Factor applied to less-than results when calculating statistics: 0.5																											

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2021 -22 Statistics Stn.Code																												
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
75QR	7-South Quinsam River downstream of 7-South Mining Operation	Average	0.00062	0.00055	0.0316	0.0143	41.5	0.0000050	0.0000050	0.000470	0.00047	0.106	0.0562	0.0089	0.0064	43.6	0.00130	0.00050	0.000100	0.000100	47.6	0.00271	0.00250	0.00168	0.00150	0.0218	0.0340	
E292113		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	10	4	10	10	
		Minimum	0.00031	0.00030	0.0150	0.0065	25	<0.000010	<0.000010	<0.00050	0.00039	0.084	0.0418	0.0065	0.0052	36.5	<0.0010	<0.0010	<0.00020	<0.00020	34	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015	
		Maximum	0.00098	0.00090	0.127	0.0507	51	<0.000010	<0.000010	0.00084	0.00076	0.188	0.0773	0.0110	0.0080	50.4	0.0099	<0.0010	<0.00020	<0.00020	62	0.0057	<0.0050	0.0033	<0.0030	0.128	0.17	
		Geometric Mean	0.00058	0.00051	0.0270	0.0122	40.9	0.0000050	0.0000050	0.000435	0.00046	0.104	0.0554	0.0088	0.0064	43.5	0.00069	0.00050	0.000100	0.000100	47.0	0.00264	0.00250	0.00162	0.00150	0.0129	0.0134	
		Count <DL	0	0	0	0	0	15	15	5	0	0	0	0	0	0	13	15	15	15	0	14	15	9	4	9	8	
		Standard Deviation	0.00024	0.00023	0.0269	0.0111	6.5	0.0000000	0.0000000	0.000181	0.00010	0.025	0.0096	0.0014	0.0009	3.8	0.00247	0.00000	0.000000	0.000000	7.6	0.00083	0.00000	0.00057	0.00000	0.0373	0.0576	
		1st Quartile	0.00045	0.00036	0.0223	0.0096	38	5.00E-06	5.00E-06	0.00025	0.00041	0.092	0.0476	0.0083	0.0059	41.6	0.0005	0.0005	0.0001	0.0001	42.5	0.0025	0.0025	0.0015	0.0015	0.01	0.0075	
		Median	0.00055	0.00049	0.026	0.0113	43	<0.000010	<0.000010	0.00052	0.00045	0.104	0.0562	0.009	0.0064	43.2	<0.0010	<0.0010	<0.00020	<0.00020	46	<0.0050	<0.0050	0.0015	0.0015	0.01	0.0075	
		3rd Quartile	0.00086	0.00078	0.0278	0.0123	45	5.00E-06	5.00E-06	0.000555	0.00047	0.109	0.0607	0.0097	0.0069	45.9	0.0005	0.0005	0.0001	0.0001	52	0.0025	0.0025	0.0015	0.0015	0.01	0.0075	
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

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EMS. ID	Site Name & Description		As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
LQL1	Lower Quinsam Lake 1 metre below surface	Average	0.00077	0.00071	0.0310	0.0219	31.8	0.0000050	0.0000050	0.000474	0.00048	0.078	0.0509	0.0050	0.0022	34.6	0.00050	0.00050	0.000100	0.000100	22.8	0.00250	0.00250	0.00150	0.0050	0.0142		
E292118		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	5		
		Minimum	0.00074	0.00066	0.0256	0.0171	29	<0.000010	<0.000010	<0.00050	0.00041	0.068	0.0458	0.0043	0.0016	33.7	<0.0010	<0.0010	<0.00020	<0.00020	21	<0.0050	<0.0050	<0.0030	<0.010	<0.020		
		Maximum	0.00082	0.00074	0.0340	0.0247	33	<0.000010	<0.000010	0.00056	0.00054	0.090	0.0583	0.0058	0.0029	35.3	<0.0010	<0.0010	<0.00020	<0.00020	25	<0.0050	<0.0050	<0.0030	<0.010	0.031		
		Geometric Mean	0.00077	0.00071	0.0308	0.0217	31.8	0.0000050	0.0000050	0.000456	0.00048	0.077	0.0507	0.0049	0.0022	34.6	0.00050	0.00050	0.000100	0.000100	22.8	0.00250	0.00250	0.00150	0.0050	0.0125		
		Count <DL	0	0	0	0	0	5	5	1	0	0	0	0	0	0	0	5	5	5	5	0	5	5	5	1	4	
		Standard Deviation	0.00003	0.00003	0.0032	0.0033	1.6	0.0000000	0.0000000	0.000127	0.00005	0.010	0.0049	0.0008	0.0005	0.6	0.00000	0.00000	0.0000000	0.0000000	1.5	0.00000	0.00000	0.00000	0.0000	0.0094		
		1st Quartile	0.00076	0.00071	0.031	0.0198	32	<0.000010	<0.000010	0.00051	0.00046	0.071	0.0474	0.0044	0.0022	34.2	<0.0010	<0.0010	<0.00020	<0.00020	22	<0.0050	<0.0050	<0.0030	<0.010	<0.020		
		Median	0.00076	0.00073	0.032	0.0235	32	<0.000010	<0.000010	0.00052	0.00046	0.072	0.0501	0.0045	0.0022	34.9	<0.0010	<0.0010	<0.00020	<0.00020	23	<0.0050	<0.0050	<0.0030	<0.010	<0.020		
		3rd Quartile	0.00078	0.00073	0.0323	0.0244	33	<0.000010	<0.000010	0.00053	0.00053	0.087	0.0529	0.0058	0.0023	34.9	<0.0010	<0.0010	<0.00020	<0.00020	23	<0.0050	<0.0050	<0.0030	<0.010	<0.020		
LQLB	LQLB 1 metre from Bottom	Average	0.00085	0.00071	0.0273	0.0186	33.4	0.0000050	0.0000050	0.000366	0.00047	0.110	0.0617	0.0108	0.0061	34.4	0.00050	0.00050	0.000100	0.000100	23.2	0.00250	0.00250	0.00150	0.0050	0.0228		
E292118		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	5		
		Minimum	0.00083	0.00067	0.0237	0.0133	29	<0.000010	<0.000010	<0.00050	0.00039	0.090	0.0515	0.0079	0.0029	32.2	<0.0010	<0.0010	<0.00020	<0.00020	22	<0.0050	<0.0050	<0.0030	<0.010	<0.020		
		Maximum	0.00090	0.00074	0.0313	0.0238	39	<0.000010	<0.000010	0.00056	0.00052	0.136	0.0740	0.0203	0.0139	36.7	<0.0010	<0.0010	<0.00020	<0.00020	24	<0.0050	<0.0050	<0.0030	<0.010	0.029		
		Geometric Mean	0.00085	0.00071	0.0271	0.0182	33.3	0.0000050	0.0000050	0.000340	0.00046	0.109	0.0612	0.0100	0.0052	34.4	0.00050	0.00050	0.000100	0.000100	23.2	0.00250	0.00250	0.00150	0.0050	0.0214		
		Count <DL	0	0	0	0	0	5	5	3	0	0	0	0	0	0	5	5	5	5	0	5	5	5	1	1		
		Standard Deviation	0.00003	0.00003	0.0036	0.0038	3.6	0.0000000	0.0000000	0.000159	0.00005	0.017	0.0091	0.0053	0.0045	1.7	0.00000	0.00000	0.0000000	0.0000000	0.8	0.00000	0.00000	0.00000	0.0000	0.0076		
		1st Quartile	0.00083	0.0007	0.0246	0.0173	33	<0.000010	<0.000010	<0.00050	0.00045	0.104	0.0548	0.0082	0.0035	33.5	<0.0010	<0.0010	<0.00020	<0.00020	23	<0.0050	<0.0050	<0.0030	<0.010	0.022		
		Median	0.00083	0.00072	0.0259	0.0186	33	<0.000010	<0.000010	<0.00050	0.00048	0.107	0.0612	0.0087	0.0046	34.3	<0.0010	<0.0010	<0.00020	<0.00020	23	<0.0050	<0.0050	<0.0030	<0.010	0.026		
		3rd Quartile	0.00085	0.00072	0.0311	0.0198	33	<0.000010	<0.000010	0.00052	0.00049	0.112	0.0671	0.0089	0.0057	35.5	<0.0010	<0.0010	<0.00020	<0.00020	24	<0.0050	<0.0050	<0.0030	<0.010	0.027		
Notes: Factor applied to less-than results when calculating statistics: 0.5																												

Table 47 Statistics 2019-2023 85 Page(s)

2022 -23 Statistics Stn.Code																								
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	
WA			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	0.000117	0.000102	0.0210	0.0155	21.3	0.0000050	0.0000050	0.00058	0.00052	0.015	0.0088	0.0015	0.00050	20.3	0.00050	0.00050	0.000100	0.000100	1.33	0.00250	0.00250	
		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
		Minimum	<0.00010	<0.00010	0.0134	0.0092	17	<0.000010	<0.000010	0.00053	0.00048	0.011	0.0063	0.0011	<0.0010	18.1	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050	
		Maximum	0.00018	0.00020	0.0307	0.0233	23	<0.000010	<0.000010	0.00064	0.00056	0.022	0.0122	0.0024	<0.0010	22.1	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050	
		Geometric Mean	0.000111	0.000090	0.0205	0.0150	21.3	0.0000050	0.0000050	0.00058	0.00052	0.015	0.0087	0.0015	0.00050	20.3	0.00050	0.00050	0.000100	0.000100	1.15	0.00250	0.00250	
		Count <DL	2	6	0	0	0	15	15	0	0	0	0	0	15	0	15	15	15	15	4	15	15	
		Standard Deviation	0.000034	0.000050	0.0048	0.0043	1.5	0.0000000	0.0000000	0.00003	0.00002	0.003	0.0016	0.0004	0.00000	1.1	0.00000	0.00000	0.000000	0.000000	0.68	0.00000	0.00000	
		1st Quartile	0.000105	5.00E-05	0.0178	0.0127	21	5.00E-06	5.00E-06	0.00056	0.00051	0.013	0.0078	0.0013	0.0005	20.1	0.0005	0.0005	0.0001	0.0001	0.75	0.0025	0.0025	
		Median	0.00012	0.00011	0.022	0.0156	21	<0.000010	<0.000010	0.00059	0.00052	0.015	0.0091	0.0014	<0.0010	20.4	<0.0010	<0.0010	<0.00020	<0.00020	1.4	<0.0050	<0.0050	
		3rd Quartile	0.00014	0.000135	0.0237	0.0164	22.5	5.00E-06	5.00E-06	0.0006	0.00053	0.016	0.0096	0.0017	0.0005	21.1	0.0005	0.0005	0.0001	0.0001	1.6	0.0025	0.0025	
WD		Settling Pond #4	Average	0.00154	0.00111	0.0154	0.00354	432	0.0000050	0.0000054	0.000552	0.000279	0.456	0.0236	0.1038	0.1092	345	0.00198	0.00076	0.000100	0.000108	475	0.00250	0.00271
E207409			Count	6	12	6	12	12	6	12	6	12	6	12	6	12	6	6	12	6	12	52	6	12
	Minimum		0.00111	0.00082	0.0042	<0.0030	360	<0.000010	<0.000010	<0.00050	<0.00020	0.129	0.0119	0.0583	0.0451	241	<0.0010	<0.0010	<0.00020	<0.00020	300	<0.0050	<0.0050	
	Maximum		0.00233	0.00186	0.0489	0.0214	490	<0.000010	<0.000020	0.00085	0.00054	0.947	0.0408	0.188	0.167	409	0.0076	0.0024	<0.00020	<0.00040	710	<0.0050	<0.010	
	Geometric Mean		0.00149	0.00107	0.0104	0.00218	431	0.0000050	0.0000053	0.000492	0.000248	0.369	0.0219	0.0957	0.1023	340	0.00101	0.00065	0.000100	0.000106	468	0.00250	0.00265	
	Count <DL		0	0	0	10	0	6	12	2	2	0	0	0	0	0	4	10	6	12	0	6	12	
	Standard Deviation		0.00044	0.00032	0.0171	0.00570	35	0.0000000	0.0000014	0.000259	0.000135	0.317	0.0095	0.0481	0.0394	61	0.00284	0.00057	0.000000	0.000029	87	0.00000	0.00072	
	1st Quartile		0.00132	0.0009	0.0059	0.0015	410	5.00E-06	5.00E-06	0.000325	0.000215	0.266	0.0151	0.0716	0.0879	320	0.0005	0.0005	0.0001	0.0001	410	0.0025	0.0025	
	Median		0.00137	0.001	0.0081	0.0015	435	5.00E-06	5.00E-06	0.00058	0.000235	0.332	0.0247	0.0899	0.1036	357	0.0005	0.0005	0.0001	0.0001	470	0.0025	0.0025	
	3rd Quartile		0.00166	0.0012	0.0155	0.00188	452	5.00E-06	5.00E-06	0.000752	0.000345	0.648	0.0278	0.1208	0.1348	389	0.00185	0.00062	0.0001	0.0001	520	0.0025	0.0025	
Notes: Factor applied to less-than results when calculating statistics: 0.5																								

Table 47 Statistics 2019-2023 85 Page(s)

2022 -23 Statistics Stn.Code																							
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
MW001D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average		0.00333		0.00150	315.0		0.000032		0.000215		3.22		1.66			0.0021		0.000100	485		0.00250
		Count		2		2	2		2		2		2		2			2		2	2		2
		Minimum		0.00331		<0.0030	310		0.000029		<0.00020		2.91		1.55			0.0018		<0.00020	410		<0.0050
		Maximum		0.00335		<0.0030	320		0.000034		0.00033		3.54		1.78			0.0024		<0.00020	560		<0.0050
		Geometric Mean		0.00333		0.00150	315.0		0.000031		0.000182		3.21		1.66			0.0021		0.000100	479		0.00250
		Count <DL		0		2	0		0		1		0		0			0		2	0		2
		Standard Deviation		0.00003		0.00000	7.1		0.000004		0.000163		0.45		0.16			0.0004		0.000000	106		0.00000
		1st Quartile		0.00332		0.0015	312.5		3.00E-05		0.000158		3.07		1.61			0.002		0.0001	447		0.0025
		Median		0.00333		0.0015	315		3.20E-05		0.000215		3.22		1.66			0.0021		0.0001	485		0.0025
		3rd Quartile		0.00334		0.0015	317.5		3.30E-05		0.000272		3.38		1.72			0.0022		0.0001	522		0.0025
MW001S		Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00182		0.00150	270.0		0.000060		0.000210		1.034		1.27			0.00080		0.000100	485	
	Count			2		2	2		2		2		2		2			2		2	2		2
	Minimum			0.00143		<0.0030	260		0.000049		<0.00020		0.967		1.15			<0.0010		<0.00020	400		<0.0050
	Maximum			0.00221		<0.0030	280		0.000071		0.00032		1.10		1.40			0.0011		<0.00020	570		<0.0050
	Geometric Mean			0.00178		0.00150	269.8		0.000059		0.000179		1.031		1.27			0.00074		0.000100	477		0.00250
	Count <DL			0		2	0		0		1		0		0			1		2	0		2
	Standard Deviation			0.00055		0.00000	14.1		0.000016		0.000156		0.094		0.18			0.00042		0.000000	120		0.00000
	1st Quartile			0.00163		0.0015	265		5.40E-05		0.000155		1		1.21			0.00065		0.0001	442		0.0025
	Median			0.00182		0.0015	270		6.00E-05		0.00021		1.034		1.27			0.0008		0.0001	485		0.0025
	3rd Quartile			0.00202		0.0015	275		6.60E-05		0.000265		1.067		1.34			0.00095		0.0001	527		0.0025
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2022 -23 Statistics Stn.Code																							
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
MW006D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average		0.0295		0.0136	78.5		0.0000050		0.00042		0.00250		0.0076			0.00050		0.000100	12.0		0.00250
		Count		2		2	2		2		2		2		2			2		2	2		2
		Minimum		0.0294		0.0127	78		<0.000010		0.00033		<0.0050		0.0044			<0.0010		<0.00020	11		<0.0050
		Maximum		0.0296		0.0146	79		<0.000010		0.00050		<0.0050		0.0108			<0.0010		<0.00020	13		<0.0050
		Geometric Mean		0.0295		0.0136	78.5		0.0000050		0.00041		0.00250		0.0069			0.00050		0.000100	12.0		0.00250
		Count <DL		0		0	0		2		0		2		0			2		2	0		2
		Standard Deviation		0.0001		0.0013	0.7		0.0000000		0.00012		0.00000		0.0045			0.00000		0.000000	1.4		0.00000
		1st Quartile		0.0294		0.0132	78.2		5.00E-06		0.00037		0.0025		0.006			0.0005		0.0001	11.5		0.0025
		Median		0.0295		0.0136	78.5		5.00E-06		0.00042		0.0025		0.0076			0.0005		0.0001	12		0.0025
		3rd Quartile		0.0296		0.0141	78.8		5.00E-06		0.00046		0.0025		0.0092			0.0005		0.0001	12.5		0.0025
MW006S		Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00176		0.00310	150.0		0.000024		0.00059		0.00475		0.0741			0.00050		0.000100	510	
	Count			2		2	2		2		2		2		2			2		2	2		2
	Minimum			0.00176		<0.0030	150		0.000021		0.00057		<0.0050		0.0452			<0.0010		<0.00020	460		<0.0050
	Maximum			0.00177		0.0047	150		0.000028		0.00061		0.0070		0.103			<0.0010		<0.00020	560		<0.0050
	Geometric Mean			0.00176		0.00266	150.0		0.000024		0.00059		0.00418		0.0682			0.00050		0.000100	507		0.00250
	Count <DL			0		1	0		0		0		1		0			2		2	0		2
	Standard Deviation			0.00001		0.00226	0.0		0.000005		0.00003		0.00318		0.0409			0.00000		0.000000	70		0.00000
	1st Quartile			0.00176		0.0023	150		2.30E-05		0.00058		0.00362		0.0596			0.0005		0.0001	485		0.0025
	Median			0.00176		0.0031	150		2.40E-05		0.00059		0.00475		0.0741			0.0005		0.0001	510		0.0025
	3rd Quartile			0.00177		0.0039	150		2.60E-05		0.0006		0.00588		0.0885			0.0005		0.0001	535		0.0025
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2022 -23 Statistics Stn.Code		Statistic																					
EMS. ID	Site Name & Description		As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
WC	2-North Pit Culvert discharge into Middle Quinsam Lake	Average	0.00044	0.00038	0.00523	0.00437	370.0	0.0000050	0.0000050	0.000293	0.000227	0.074	0.0126	0.0097	0.0091	279.2	0.00060	0.00050	0.000100	0.000100	420	0.00250	0.00250
E207411		Count	6	6	6	6	1	6	6	6	6	6	6	6	6	6	6	6	6	6	12	6	6
		Minimum	0.00036	0.00030	<0.0030	<0.0030	370	<0.000010	<0.000010	<0.00050	<0.00020	0.032	0.0112	0.0035	0.0034	223	<0.0010	<0.0010	<0.00020	<0.00020	310	<0.0050	<0.0050
		Maximum	0.00050	0.00042	0.0176	0.0146	370	<0.000010	<0.000010	0.00051	0.00041	0.210	0.0142	0.0172	0.0155	318	0.0011	<0.0010	<0.00020	<0.00020	530	<0.0050	<0.0050
		Geometric Mean	0.00044	0.00038	0.00330	0.00292	370.0	0.0000050	0.0000050	0.000282	0.000199	0.058	0.0126	0.0086	0.0081	277.1	0.00057	0.00050	0.000100	0.000100	414	0.00250	0.00250
		Count <DL	0	0	3	3	0	6	6	5	2	0	0	0	0	0	5	6	6	6	0	6	6
		Standard Deviation	0.00005	0.00005	0.00625	0.00511	0.0	0.0000000	0.0000000	0.000106	0.000119	0.068	0.0012	0.0049	0.0044	36.6	0.00024	0.00000	0.000000	0.000000	77	0.00000	0.00000
		1st Quartile	0.00042	0.00036	0.0015	0.0015	370	5.00E-06	5.00E-06	0.00025	0.000128	0.042	0.0116	0.0066	0.0062	260	0.0005	0.0005	0.0001	0.0001	365	0.0025	0.0025
		Median	0.00044	0.0004	0.00295	0.0025	370	5.00E-06	5.00E-06	0.00025	0.00023	0.048	0.0126	0.0092	0.0086	282	0.0005	0.0005	0.0001	0.0001	420	0.0025	0.0025
		3rd Quartile	0.00048	0.00041	0.00478	0.00358	370	5.00E-06	5.00E-06	0.00025	0.00028	0.059	0.0136	0.0123	0.0117	308.5	0.0005	0.0005	0.0001	0.0001	477	0.0025	0.0025
MQL1	Middle Quinsam Lake 1 metre below surface	Average	0.00016	0.000149	0.0138	0.0114	41.9	0.0000050	0.0000050	0.000420	0.00046	0.035	0.0199	0.0073	0.00195	36.8	0.00050	0.00050	0.000100	0.000100	30.1	0.00250	0.00250
E206618		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		Minimum	0.00010	<0.00010	0.0073	0.0044	36	<0.000010	<0.000010	<0.00050	0.00037	0.028	0.0147	0.0043	<0.0010	34.1	<0.0010	<0.0010	<0.00020	<0.00020	26	<0.0050	<0.0050
		Maximum	0.00021	0.00020	0.0197	0.0160	47	<0.000010	<0.000010	0.00080	0.00057	0.053	0.0263	0.0125	0.0040	39.7	<0.0010	<0.0010	<0.00020	<0.00020	35	<0.0050	<0.0050
		Geometric Mean	0.00016	0.000141	0.0130	0.0103	41.8	0.0000050	0.0000050	0.000385	0.00046	0.034	0.0196	0.0069	0.00150	36.7	0.00050	0.00050	0.000100	0.000100	29.9	0.00250	0.00250
		Count <DL	0	1	0	0	0	15	15	7	0	0	0	0	4	0	15	15	15	15	0	15	15
		Standard Deviation	0.00003	0.000042	0.0047	0.0045	2.8	0.0000000	0.0000000	0.000179	0.00006	0.007	0.0037	0.0024	0.00129	1.4	0.00000	0.00000	0.000000	0.000000	3.2	0.00000	0.00000
		1st Quartile	0.00013	0.000115	0.0083	0.0064	40	5.00E-06	5.00E-06	0.00025	0.00041	0.03	0.0174	0.0055	0.00075	35.8	0.0005	0.0005	0.0001	0.0001	27	0.0025	0.0025
		Median	0.00017	0.00016	0.0154	0.0134	42	<0.000010	<0.000010	0.00051	0.00047	0.032	0.019	0.0072	0.0016	36.7	<0.0010	<0.0010	<0.00020	<0.00020	30	<0.0050	<0.0050
		3rd Quartile	0.00018	0.00018	0.0174	0.0147	44	5.00E-06	5.00E-06	0.00053	0.00049	0.038	0.0228	0.0081	0.00315	37.6	0.0005	0.0005	0.0001	0.0001	32.5	0.0025	0.0025
MQLB	Middle Quinsam Lake 1 metre from bottom	Average	0.000128	0.000121	0.0112	0.00800	40.7	0.0000050	0.0000050	0.000385	0.00045	0.042	0.0152	0.0424	0.03585	44.5	0.00050	0.00050	0.000100	0.000100	37.8	0.00250	0.00250
E206618		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		Minimum	<0.00010	<0.00010	0.0042	<0.0030	38	<0.000010	<0.000010	<0.00050	0.00039	0.019	0.0053	0.0068	<0.0010	37.4	<0.0010	<0.0010	<0.00020	<0.00020	27	<0.0050	<0.0050
		Maximum	0.00018	0.00017	0.0199	0.0145	44	<0.000010	<0.000010	0.00111	0.00053	0.149	0.0226	0.292	0.293	100	<0.0010	<0.0010	<0.00020	<0.00020	100	<0.0050	<0.0050
		Geometric Mean	0.000120	0.000117	0.0102	0.00689	40.7	0.0000050	0.0000050	0.000339	0.00045	0.036	0.0143	0.0173	0.00703	42.8	0.00050	0.00050	0.000100	0.000100	35.5	0.00250	0.00250
		Count <DL	2	1	0	1	0	15	15	10	0	0	0	0	1	0	15	15	15	15	0	15	15
		Standard Deviation	0.000040	0.000029	0.0049	0.00407	2.1	0.0000000	0.0000000	0.000241	0.00004	0.032	0.0050	0.0753	0.07616	16.0	0.00000	0.00000	0.000000	0.000000	17.9	0.00000	0.00000
		1st Quartile	0.000115	0.00011	0.007	0.005	39	5.00E-06	5.00E-06	0.00025	0.00042	0.027	0.0114	0.0076	0.0022	38	0.0005	0.0005	0.0001	0.0001	29.5	0.0025	0.0025
		Median	0.00012	0.00011	0.0104	0.0063	40	<0.000010	<0.000010	<0.00050	0.00044	0.033	0.017	0.0087	0.0042	39.3	<0.0010	<0.0010	<0.00020	<0.00020	34	<0.0050	<0.0050
		3rd Quartile	0.000165	0.000145	0.015	0.0117	42.5	5.00E-06	5.00E-06	0.00051	0.00048	0.041	0.0183	0.0422	0.03125	41.2	0.0005	0.0005	0.0001	0.0001	36.5	0.0025	0.0025
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

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2022 -23 Statistics Stn.Code																							
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
NNL1			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E217018	No Name Lake 1 metre below surface	Average	0.00024	0.00023	0.0410	0.0338	10.6	0.0000050	0.0000050	0.000250	0.00046	0.064	0.0369	0.0083	0.0072	12.3	0.00050	0.00050	0.000100	0.000100	2.9	0.00250	0.00250
		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Minimum	0.00023	0.00021	0.0365	0.0302	9.9	<0.000010	<0.000010	<0.00050	0.00042	0.049	0.0296	0.0053	0.0046	11.6	<0.0010	<0.0010	<0.00020	<0.00020	2.2	<0.0050	<0.0050
		Maximum	0.00025	0.00025	0.0470	0.0370	11	<0.000010	<0.000010	<0.00050	0.00053	0.083	0.0471	0.0127	0.0105	12.7	<0.0010	<0.0010	<0.00020	<0.00020	3.7	<0.0050	<0.0050
		Geometric Mean	0.00024	0.00023	0.0408	0.0337	10.6	0.0000050	0.0000050	0.000250	0.00046	0.063	0.0362	0.0079	0.0069	12.3	0.00050	0.00050	0.000100	0.000100	2.9	0.00250	0.00250
		Count <DL	0	0	0	0	0	5	5	5	0	0	0	0	0	0	5	5	5	5	0	5	5
		Standard Deviation	0.00001	0.00002	0.0044	0.0029	0.6	0.0000000	0.0000000	0.000000	0.00005	0.014	0.0078	0.0030	0.0026	0.5	0.00000	0.00000	0.000000	0.000000	0.5	0.00000	0.00000
		1st Quartile	0.00024	0.00022	0.0379	0.0316	10	<0.000010	<0.000010	<0.00050	0.00042	0.054	0.0309	0.0058	0.0049	11.9	<0.0010	<0.0010	<0.00020	<0.00020	2.8	<0.0050	<0.0050
		Median	0.00024	0.00023	0.0395	0.034	11	<0.000010	<0.000010	<0.00050	0.00045	0.064	0.0335	0.0078	0.0071	12.5	<0.0010	<0.0010	<0.00020	<0.00020	2.8	<0.0050	<0.0050
		3rd Quartile	0.00024	0.00024	0.044	0.0363	11	<0.000010	<0.000010	<0.00050	0.00047	0.072	0.0432	0.0098	0.009	12.6	<0.0010	<0.0010	<0.00020	<0.00020	3.1	<0.0050	<0.0050
NNLB	No Name Lake 1 metre from bottom	Average	0.00027	0.00025	0.0456	0.0356	10.4	0.0000050	0.0000050	0.000302	0.00041	0.080	0.0427	0.0088	0.0073	12.5	0.00050	0.00050	0.000100	0.000100	3.2	0.00250	0.00250
E217018		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		Minimum	0.00024	0.00023	0.0399	0.0326	10	<0.000010	<0.000010	<0.00050	0.00038	0.073	0.0378	0.0079	0.0064	11.2	<0.0010	<0.0010	<0.00020	<0.00020	2.1	<0.0050	<0.0050
		Maximum	0.00033	0.00030	0.0561	0.0404	11	<0.000010	<0.000010	0.00051	0.00043	0.084	0.0514	0.0093	0.0081	13.2	<0.0010	<0.0010	<0.00020	<0.00020	4.4	<0.0050	<0.0050
		Geometric Mean	0.00027	0.00024	0.0453	0.0355	10.4	0.0000050	0.0000050	0.000288	0.00041	0.080	0.0424	0.0087	0.0072	12.5	0.00050	0.00050	0.000100	0.000100	3.1	0.00250	0.00250
		Count <DL	0	0	0	0	0	5	5	4	0	0	0	0	0	0	5	5	5	5	0	5	5
		Standard Deviation	0.00004	0.00003	0.0063	0.0032	0.5	0.0000000	0.0000000	0.000116	0.00002	0.005	0.0057	0.0007	0.0008	0.9	0.00000	0.00000	0.000000	0.000000	0.9	0.00000	0.00000
		1st Quartile	0.00025	0.00023	0.0423	0.0328	10	<0.000010	<0.000010	<0.00050	0.00041	0.078	0.0389	0.0082	0.0065	11.9	<0.0010	<0.0010	<0.00020	<0.00020	2.7	<0.0050	<0.0050
		Median	0.00025	0.00023	0.0432	0.0354	10	<0.000010	<0.000010	<0.00050	0.00042	0.083	0.0399	0.0091	0.0075	13	<0.0010	<0.0010	<0.00020	<0.00020	3.2	<0.0050	<0.0050
		3rd Quartile	0.00029	0.00024	0.0464	0.0369	11	<0.000010	<0.000010	<0.00050	0.00042	0.083	0.0453	0.0093	0.0079	13.2	<0.0010	<0.0010	<0.00020	<0.00020	3.6	<0.0050	<0.0050
NNO	No Name Lake Outlet	Average	0.00040	0.00038	0.0277	0.0225	13.9	0.0000050	0.0000050	0.000267	0.00047	0.108	0.0801	0.0081	0.0061	15.2	0.00050	0.00050	0.000100	0.000124	1.97	0.00250	0.00250
E217017		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		Minimum	0.00023	0.00020	0.0140	0.0127	10	<0.000010	<0.000010	<0.00050	0.00033	0.049	0.0311	0.0025	0.0017	12.3	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050
		Maximum	0.00063	0.00062	0.0472	0.0364	17	<0.000010	<0.000010	0.00051	0.00116	0.167	0.145	0.0118	0.0095	17.4	<0.0010	<0.0010	<0.00020	0.00046	3.8	<0.0050	<0.0050
		Geometric Mean	0.00038	0.00036	0.0257	0.0208	13.7	0.0000050	0.0000050	0.000262	0.00045	0.100	0.0708	0.0076	0.0056	15.1	0.00050	0.00050	0.000100	0.000111	1.71	0.00250	0.00250
		Count <DL	0	0	0	0	0	15	15	14	0	0	0	0	0	0	15	15	15	14	2	15	15
		Standard Deviation	0.00014	0.00014	0.0113	0.0096	2.7	0.0000000	0.0000000	0.000067	0.00020	0.040	0.0395	0.0027	0.0022	2.0	0.00000	0.00000	0.000000	0.000093	0.95	0.00000	0.00000
		1st Quartile	0.00026	0.00025	0.019	0.0142	11	5.00E-06	5.00E-06	0.00025	0.00038	0.071	0.0424	0.0064	0.0048	12.8	0.0005	0.0005	0.0001	0.0001	1.35	0.0025	0.0025
		Median	0.00037	0.00035	0.0233	0.0184	15	<0.000010	<0.000010	<0.00050	0.00043	0.115	0.082	0.0072	0.0052	15.6	<0.0010	<0.0010	<0.00020	<0.00020	2	<0.0050	<0.0050
		3rd Quartile	0.00053	0.00048	0.0375	0.0334	16	5.00E-06	5.00E-06	0.00025	0.00044	0.133	0.1046	0.0106	0.0082	16.9	0.0005	0.0005	0.0001	0.0001	2.5	0.0025	0.0025
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

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2022 -23 Statistics Stn.Code EMS. ID			Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
LLS	Small Seep into Long Lake	Average	0.00239	0.00188	0.01431	0.00233	204.4	0.0000072	0.0000056	0.000419	0.000213	1.393	1.034	0.276	0.277	595	0.00232	0.0024	0.000133	0.000111	548	0.00333	0.00278		
E292131		Count	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		Minimum	0.00113	0.00096	<0.0030	<0.0030	160	<0.000010	<0.000010	<0.00050	<0.00020	0.441	0.319	0.146	0.141	490	<0.0020	0.0010	<0.00020	<0.00020	400	<0.0050	<0.0050		
		Maximum	0.00505	0.00397	0.0609	0.0075	220	0.000010	<0.000020	0.00102	0.00074	3.05	2.43	0.483	0.482	740	0.0050	0.0052	<0.00040	<0.00040	660	<0.010	<0.010		
		Geometric Mean	0.00211	0.00170	0.00663	0.00194	203.4	0.0000068	0.0000054	0.000368	0.000156	1.159	0.861	0.260	0.261	590	0.00205	0.0021	0.000126	0.000108	542	0.00315	0.00270		
		Count <DL	0	0	3	8	0	8	9	8	7	0	0	0	0	0	1	0	9	9	0	9	9		
		Standard Deviation	0.00132	0.00095	0.01961	0.00200	21.3	0.0000026	0.0000017	0.000256	0.000219	0.886	0.674	0.100	0.104	80	0.00129	0.0013	0.000050	0.000033	89	0.00125	0.00083		
		1st Quartile	0.00124	0.00117	<0.0060	<0.0030	200	<0.000010	<0.000010	<0.00050	<0.00020	0.68	0.596	0.196	0.199	569	0.0013	0.0016	<0.00020	<0.00020	500	<0.0050	<0.0050		
		Median	0.00238	0.00181	0.0049	<0.0030	210	<0.000010	<0.000010	<0.00050	<0.00020	1.12	0.883	0.272	0.274	578	0.0019	0.0019	<0.00020	<0.00020	530	<0.0050	<0.0050		
		3rd Quartile	0.00284	0.0023	0.019	<0.0030	220	<0.000020	<0.000010	<0.0010	<0.00040	2.04	1.29	0.315	0.32	618	0.0026	0.0028	<0.00040	<0.00020	630	<0.010	<0.0050		
LLSM	Long Lake Middle Seep	Average	0.00031	0.00026	0.0372	0.0103	143	0.0000050	0.0000050	0.000700	0.00056	0.193	0.0879	0.0561	0.0531	421	0.00128	0.00114	0.000100	0.000100	361	0.00250	0.00250		
E292131		Count	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
		Minimum	0.00018	0.00014	0.0055	0.0034	47	<0.000010	<0.000010	<0.00050	0.00036	0.088	0.0408	0.0306	0.0136	229	<0.0010	<0.0010	<0.00020	<0.00020	220	<0.0050	<0.0050		
		Maximum	0.00049	0.00046	0.182	0.0369	190	<0.000010	<0.000010	0.00202	0.00103	0.503	0.195	0.113	0.112	510	0.0023	0.0023	<0.00020	<0.00020	450	<0.0050	<0.0050		
		Geometric Mean	0.00029	0.00024	0.0158	0.0067	134	0.0000050	0.0000050	0.000545	0.00052	0.165	0.0759	0.0506	0.0448	411	0.00114	0.00100	0.000100	0.000100	353	0.00250	0.00250		
		Count <DL	0	0	0	0	0	9	9	3	0	0	0	0	0	0	2	3	9	9	0	9	9		
		Standard Deviation	0.00011	0.00011	0.0603	0.0120	43	0.0000000	0.0000000	0.000580	0.00024	0.130	0.0540	0.0284	0.0316	86	0.00061	0.00061	0.000000	0.000000	70	0.00000	0.00000		
		1st Quartile	0.00025	0.00019	0.0071	0.0038	150	<0.000010	<0.000010	<0.00050	0.00038	0.096	0.049	0.0365	0.0314	420	0.001	<0.0010	<0.00020	<0.00020	340	<0.0050	<0.0050		
		Median	0.00027	0.00022	0.0105	0.0044	150	<0.000010	<0.000010	0.00058	0.00043	0.145	0.07	0.0415	0.0418	454	0.0012	0.0011	<0.00020	<0.00020	390	<0.0050	<0.0050		
		3rd Quartile	0.00043	0.00027	0.0143	0.0064	170	<0.000010	<0.000010	0.00063	0.00059	0.233	0.1	0.0642	0.0645	465	0.0017	0.0014	<0.00020	<0.00020	400	<0.0050	<0.0050		
Notes: Factor applied to less-than results when calculating statistics: 0.5																									

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2022 -23 Statistics Stn.Code																							
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average		0.00208		0.00525	285.0		0.0000175		0.000350		5.02		1.57			0.00240		0.000350	1300		0.0088
		Count		4		4	4		4		4		4		4			4		4	4		4
		Minimum		0.00197		<0.0060	280		<0.000020		<0.00040		4.89		1.51			0.0022		<0.00040	1200		<0.010
		Maximum		0.00219		<0.015	290		<0.000050		<0.0010		5.09		1.69			<0.0050		<0.0010	1400		<0.025
		Geometric Mean		0.00208		0.00474	285.0		0.0000158		0.000316		5.02		1.57			0.00240		0.000316	1298		0.0079
		Count <DL		0		4	0		4		4		0		0			2		4	0		4
		Standard Deviation		0.00010		0.00260	5.8		0.0000087		0.000173		0.09		0.08			0.00014		0.000173	81		0.0043
		1st Quartile		0.00201		0.003	280		1.00E-05		0.0002		5		1.52			0.00235		0.0002	1275		0.005
		Median		0.00208		0.00525	285		1.75E-05		0.00035		5.06		1.54			0.00245		0.00035	1300		0.0088
		3rd Quartile		0.00215		0.0075	290		2.50E-05		0.0005		5.08		1.58			0.0025		0.0005	1325		0.0125
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.114		0.00150	173.3		0.0000050		0.000100		0.454		0.0439			0.00050		0.000100	63.3		0.00250
		Count		3		3	3		3		3		3		3			3		3	3		3
		Minimum		0.106		<0.0030	170		<0.000010		<0.00020		0.364		0.0394			<0.0010		<0.00020	61		<0.0050
		Maximum		0.122		<0.0030	180		<0.000010		<0.00020		0.552		0.0515			<0.0010		<0.00020	66		<0.0050
		Geometric Mean		0.114		0.00150	173.3		0.0000050		0.000100		0.447		0.0436			0.00050		0.000100	63.3		0.00250
		Count <DL		0		3	0		3		3		0		0			3		3	0		3
		Standard Deviation		0.008		0.00000	5.8		0.0000000		0.000000		0.094		0.0066			0.00000		0.000000	2.5		0.00000
		1st Quartile		0.11		0.0015	170		5.00E-06		0.0001		0.404		0.0402			0.0005		0.0001	62		0.0025
		Median		0.115		<0.0030	170		<0.000010		<0.00020		0.445		0.0409			<0.0010		<0.00020	63		<0.0050
		3rd Quartile		0.118		0.0015	175		5.00E-06		0.0001		0.499		0.0462			0.0005		0.0001	64.5		0.0025
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.0908		0.00150	133.3		0.0000050		0.000100		4.12		0.332			0.00050		0.000100	105.0		0.00250
		Count		3		3	3		3		3		3		3			3		3	3		3
		Minimum		0.0825		<0.0030	130		<0.000010		<0.00020		3.58		0.285			<0.0010		<0.00020	95		<0.0050
		Maximum		0.0985		<0.0030	140		<0.000010		<0.00020		4.44		0.358			<0.0010		<0.00020	120		<0.0050
		Geometric Mean		0.0906		0.00150	133.3		0.0000050		0.000100		4.10		0.330			0.00050		0.000100	104.5		0.00250
		Count <DL		0		3	0		3		3		0		0			3		3	0		3
		Standard Deviation		0.0080		0.00000	5.8		0.0000000		0.000000		0.47		0.041			0.00000		0.000000	13.2		0.00000
		1st Quartile		0.087		0.0015	130		5.00E-06		0.0001		3.96		0.319			0.0005		0.0001	97.5		0.0025
		Median		0.0915		<0.0030	130		<0.000010		<0.00020		4.34		0.353			<0.0010		<0.00020	100		<0.0050
		3rd Quartile		0.095		0.0015	135		5.00E-06		0.0001		4.39		0.356			0.0005		0.0001	110		0.0025
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

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2022 -23 Statistics Stn.Code			Site Name & Description	Statistic																			
EMS. ID	As-T	As-D			Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
SPD	Settling Pond # 1		0.00172	0.00150	0.01317	0.00791	105.9	0.0000050	0.0000050	0.000310	0.000228	0.156	0.0730	0.0678	0.0446	440	0.00050	0.00050	0.000100	0.000100	359	0.00250	0.00250
E218582		Average	6	12	6	12	12	6	12	6	12	6	12	6	12	6	6	12	6	12	52	6	12
		Count	0.00058	0.00052	<0.0030	<0.0030	66	<0.000010	<0.000010	<0.00050	<0.00020	0.063	0.0201	0.0084	0.0045	333	<0.0010	<0.0010	<0.00020	<0.00020	58	<0.0050	<0.0050
		Minimum	0.00347	0.00353	0.0404	0.0314	140	<0.000010	<0.000010	0.00061	0.00046	0.231	0.174	0.244	0.237	542	<0.0010	<0.0010	<0.00020	<0.00020	510	<0.0050	<0.0050
		Maximum	0.00151	0.00126	0.00788	0.00403	103.8	0.0000050	0.0000050	0.000290	0.000195	0.144	0.0561	0.0388	0.0225	433	0.00050	0.00050	0.000100	0.000100	328	0.00250	0.00250
		Geometric Mean	0	0	1	6	0	6	12	5	5	0	0	0	0	0	6	12	6	12	0	6	12
		Count <DL	0.00096	0.00101	0.01438	0.01001	21.5	0.0000000	0.0000000	0.000147	0.000126	0.062	0.0528	0.0879	0.0643	79	0.00000	0.00000	0.000000	0.000000	127	0.00000	0.00000
		Standard Deviation	0.00137	0.00084	0.00445	0.0015	93	5.00E-06	5.00E-06	0.00025	0.0001	0.126	0.029	0.0238	0.0083	391	0.0005	0.0005	0.0001	0.0001	272	0.0025	0.0025
		1st Quartile	0.00165	0.00124	0.0086	0.00245	105	5.00E-06	5.00E-06	0.00025	0.000255	0.154	0.0551	0.0409	0.0258	433	0.0005	0.0005	0.0001	0.0001	420	0.0025	0.0025
		Median	0.0017	0.00156	0.01478	0.00945	122.5	5.00E-06	5.00E-06	0.00025	0.0003	0.203	0.1202	0.0511	0.0521	498	0.0005	0.0005	0.0001	0.0001	462	0.0025	0.0025
		3rd Quartile	0.00104	0.00088	0.0368	0.01966	84	0.0000050	0.0000050	0.000322	0.000319	1.104	0.8897	0.1315	0.1274	304	0.00062	0.00050	0.000100	0.000100	265	0.00250	0.00428
LLE	Long Lake Entrance (LLE)	Average	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	52	12	12	
E292130		Count	0.00045	0.00032	0.0041	<0.0030	33	<0.000010	<0.000010	<0.00050	<0.00020	0.115	0.0740	0.0089	0.0084	106	<0.0010	<0.0010	<0.00020	<0.00020	25	<0.0050	<0.0050
		Minimum	0.00314	0.00281	0.0859	0.0417	200	<0.000010	<0.000010	0.00057	0.00055	6.47	5.41	0.466	0.430	668	0.0019	<0.0010	<0.00020	<0.00020	660	<0.0050	0.0212
		Maximum	0.00085	0.00071	0.0233	0.01128	69	0.0000050	0.0000050	0.000302	0.000262	0.465	0.3417	0.0516	0.0499	249	0.00056	0.00050	0.000100	0.000100	208	0.00250	0.00317
		Geometric Mean	0	0	0	2	0	12	12	9	4	0	0	0	0	0	11	12	12	12	0	12	10
		Count <DL	0.00080	0.00072	0.0303	0.01562	59	0.0000000	0.0000000	0.000131	0.000172	1.833	1.5412	0.1776	0.1710	203	0.00040	0.00000	0.000000	0.000000	181	0.00000	0.00538
		Standard Deviation	0.0006	0.0005	0.008	0.00385	45	5.00E-06	5.00E-06	0.00025	0.0001	0.189	0.145	0.0181	0.0162	154	0.0005	0.0005	0.0001	0.0001	127	0.0025	0.0025
		1st Quartile	0.00065	0.00056	0.035	0.0217	54	5.00E-06	5.00E-06	0.00025	0.000375	0.312	0.205	0.0385	0.0371	191	0.0005	0.0005	0.0001	0.0001	170	0.0025	0.0025
		Median	0.0013	0.00101	0.059	0.03255	104	5.00E-06	5.00E-06	0.000312	0.00043	1.08	0.7508	0.177	0.1755	428	0.0005	0.0005	0.0001	0.0001	392	0.0025	0.0025
		3rd Quartile	0.00054	0.00052	0.0187	0.0149	26.1	0.0000055	0.0000050	0.000293	0.00036	0.058	0.0424	0.0118	0.0086	57.6	0.00050	0.00050	0.000100	0.000100	41.7	0.00313	0.00250
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

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2022 -23 Statistics Stn.Code																							
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LLM1	Long Lake Middle 1 metre below Surface	Average	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
E206619		Count	0.00028	0.00026	0.0059	0.0048	16	<0.000010	<0.000010	<0.00050	0.00030	0.027	0.0171	0.0045	0.0025	33.4	<0.0010	<0.0010	<0.00020	<0.00020	23	<0.0050	<0.0050
		Minimum	0.00079	0.00078	0.0378	0.0301	38	0.000012	<0.000010	0.00089	0.00046	0.092	0.0772	0.0254	0.0229	93.6	<0.0010	<0.0010	<0.00020	<0.00020	69	0.0120	<0.0050
		Maximum	0.00051	0.00048	0.0150	0.0118	25.1	0.000053	0.000050	0.000272	0.00036	0.052	0.0364	0.0108	0.0072	54.3	0.00050	0.00050	0.000100	0.000100	38.8	0.00278	0.00250
		Geometric Mean	0	0	0	0	0	14	15	14	0	0	0	0	0	0	15	15	15	15	0	14	15
		Count <DL	0.00019	0.00019	0.0126	0.0100	7.5	0.0000018	0.0000000	0.000165	0.00004	0.025	0.0234	0.0052	0.0054	20.7	0.00000	0.00000	0.000000	0.000000	16.5	0.00245	0.00000
		Standard Deviation	0.00032	0.00028	0.0073	0.0052	20.5	5.00E-06	5.00E-06	0.00025	0.00032	0.029	0.0201	0.0078	0.0052	43.6	0.0005	0.0005	0.0001	0.0001	29	0.0025	0.0025
		1st Quartile	0.00061	0.00058	0.0141	0.0122	25	<0.000010	<0.000010	<0.00050	0.00036	0.061	0.0371	0.0126	0.006	51.6	<0.0010	<0.0010	<0.00020	<0.00020	36	<0.0050	<0.0050
		Median	0.00069	0.00066	0.0331	0.026	32	5.00E-06	5.00E-06	0.00025	0.00038	0.079	0.0667	0.0146	0.0124	74.4	0.0005	0.0005	0.0001	0.0001	56	0.0025	0.0025
		3rd Quartile																					
LLMB	Long Lake Middle 1 metre From Bottom	Average	0.00038	0.00032	0.0178	0.0126	44.0	0.0000050	0.0000050	0.000276	0.00037	0.076	0.0295	0.2676	0.2096	115.2	0.00050	0.00050	0.000100	0.000100	100.9	0.00250	0.00250
E206619		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		Minimum	0.00026	0.00021	0.0083	0.0060	26	<0.000010	<0.000010	<0.00050	0.00031	0.043	0.0178	0.0098	0.0054	55.7	<0.0010	<0.0010	<0.00020	<0.00020	36	<0.0050	<0.0050
		Maximum	0.00080	0.00077	0.0310	0.0225	51	<0.000010	<0.000010	0.00064	0.00046	0.107	0.0633	0.674	0.550	132	<0.0010	<0.0010	<0.00020	<0.00020	120	<0.0050	<0.0050
		Geometric Mean	0.00037	0.00030	0.0159	0.0115	43.5	0.0000050	0.0000050	0.000266	0.00037	0.074	0.0277	0.1763	0.1375	113.2	0.00050	0.00050	0.000100	0.000100	97.5	0.00250	0.00250
		Count <DL	0	0	0	0	0	15	15	14	0	0	0	0	0	0	15	15	15	15	0	15	15
		Standard Deviation	0.00014	0.00014	0.0087	0.0059	6.2	0.0000000	0.0000000	0.000101	0.00004	0.018	0.0123	0.2073	0.1629	18.5	0.00000	0.00000	0.000000	0.000000	22.2	0.00000	0.00000
		1st Quartile	0.0003	0.00025	0.0104	0.008	42	5.00E-06	5.00E-06	0.00025	0.00035	0.064	0.0207	0.0945	0.0806	113	0.0005	0.0005	0.0001	0.0001	95	0.0025	0.0025
		Median	0.00035	0.00028	0.0151	0.01	46	<0.000010	<0.000010	<0.00050	0.00037	0.073	0.0278	0.207	0.155	121	<0.0010	<0.0010	<0.00020	<0.00020	100	<0.0050	<0.0050
		3rd Quartile	0.0004	0.00031	0.0272	0.0189	47	5.00E-06	5.00E-06	0.00025	0.0004	0.081	0.0315	0.4315	0.362	125	0.0005	0.0005	0.0001	0.0001	120	0.0025	0.0025
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

Table 47 Statistics 2019-2023 85 Page(s)

2022 -23 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L
LLO	Long Lake Outlet	Average	0.00049	0.00044	0.0205	0.0138	27.8	0.0000050	0.0000050	0.000250	0.00033	0.064	0.0393	0.0111	0.0052	60.8	0.00050	0.00050	0.000100	0.000100	45.7	0.00250	0.00250
E219412		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		Minimum	0.00027	0.00026	0.0056	0.0034	16	<0.000010	<0.000010	<0.00050	0.00026	0.021	0.0121	0.0040	0.0014	31.9	<0.0010	<0.0010	<0.00020	<0.00020	22	<0.0050	<0.0050
		Maximum	0.00067	0.00067	0.0395	0.0307	38	<0.000010	<0.000010	<0.00050	0.00041	0.111	0.0763	0.0249	0.0198	100	<0.0010	<0.0010	<0.00020	<0.00020	82	<0.0050	<0.0050
		Geometric Mean	0.00046	0.00042	0.0164	0.0099	27.0	0.0000050	0.0000050	0.000250	0.00032	0.055	0.0327	0.0096	0.0037	57.3	0.00050	0.00050	0.000100	0.000100	42.5	0.00250	0.00250
		Count <DL	0	0	0	0	0	15	15	15	0	0	0	0	0	0	15	15	15	15	0	15	15
		Standard Deviation	0.00015	0.00014	0.0129	0.0110	6.7	0.0000000	0.0000000	0.000000	0.00005	0.033	0.0223	0.0066	0.0052	22.2	0.00000	0.00000	0.000000	0.000000	18.7	0.00000	0.00000
		1st Quartile	0.00032	0.00029	0.0075	0.0044	23.5	5.00E-06	5.00E-06	0.00025	0.00028	0.028	0.0152	0.0065	0.002	44.5	0.0005	0.0005	0.0001	0.0001	33	0.0025	0.0025
		Median	0.00049	0.00045	0.0182	0.008	26	<0.000010	<0.000010	<0.00050	0.00033	0.067	0.0403	0.0104	0.0027	53	<0.0010	<0.0010	<0.00020	<0.00020	37	<0.0050	<0.0050
		3rd Quartile	0.00064	0.00053	0.0346	0.0266	34.5	5.00E-06	5.00E-06	0.00025	0.00036	0.09	0.0526	0.0123	0.0056	83.6	0.0005	0.0005	0.0001	0.0001	63.5	0.0025	0.0025
WB	Middle Quinsam Lake Outlet	Average	0.00018	0.00017	0.0146	0.0112	41.3	0.0000050	0.0000050	0.000388	0.00045	0.039	0.0225	0.0087	0.0037	39.1	0.00050	0.00050	0.000100	0.000100	32.5	0.00250	0.00250
E0900504		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		Minimum	0.00012	0.00011	0.0051	0.0038	37	<0.000010	<0.000010	<0.00050	0.00034	0.026	0.0142	0.0051	0.0014	35.6	<0.0010	<0.0010	<0.00020	<0.00020	26	<0.0050	<0.0050
		Maximum	0.00026	0.00031	0.0223	0.0173	45	<0.000010	<0.000010	0.00069	0.00057	0.066	0.0318	0.0170	0.0076	53.3	<0.0010	<0.0010	<0.00020	<0.00020	40	<0.0050	<0.0050
		Geometric Mean	0.00018	0.00017	0.0134	0.0098	41.2	0.0000050	0.0000050	0.000359	0.00045	0.038	0.0220	0.0081	0.0033	38.9	0.00050	0.00050	0.000100	0.000100	32.2	0.00250	0.00250
		Count <DL	0	0	0	0	0	15	15	8	0	0	0	0	0	0	15	15	15	15	0	15	15
		Standard Deviation	0.00004	0.00005	0.0056	0.0051	2.8	0.0000000	0.0000000	0.000159	0.00006	0.010	0.0049	0.0035	0.0018	4.2	0.00000	0.00000	0.000000	0.000000	3.9	0.00000	0.00000
		1st Quartile	0.00014	0.00014	0.0092	0.0052	39	5.00E-06	5.00E-06	0.00025	0.00042	0.034	0.0191	0.0062	0.0023	36.8	0.0005	0.0005	0.0001	0.0001	30	0.0025	0.0025
		Median	0.00016	0.00016	0.0157	0.0126	42	<0.000010	<0.000010	<0.00050	0.00045	0.039	0.0221	0.0074	0.0036	38.7	<0.0010	<0.0010	<0.00020	<0.00020	32	<0.0050	<0.0050
		3rd Quartile	0.00022	0.00019	0.0182	0.0152	43.5	5.00E-06	5.00E-06	0.000525	0.00048	0.042	0.0254	0.0106	0.0045	39.4	0.0005	0.0005	0.0001	0.0001	35	0.0025	0.0025

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2022 -23 Statistics Stn.Code																								
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
7SSD	Settling Pond at 7S- Discharge to Stream 1 - 7S																							
E292069		Average	0.00260	0.00242	0.0252	0.00260	119.0	0.0000050	0.0000050	0.000820	0.00076	0.076	0.0266	0.1309	0.1350	123.0	0.00050	0.00050	0.000100	0.000100	17.8	0.00250	0.00250	
		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		Minimum	0.00039	0.00033	0.0073	<0.0030	95	<0.000010	<0.000010	<0.00050	0.00047	0.045	0.0101	0.0335	0.0194	98.1	<0.0010	<0.0010	<0.00020	<0.00020	11	<0.0050	<0.0050	
		Maximum	0.00819	0.00771	0.0436	0.0054	130	<0.000010	<0.000010	0.00185	0.00169	0.134	0.0488	0.294	0.363	140	<0.0010	<0.0010	<0.00020	<0.00020	32	<0.0050	<0.0050	
		Geometric Mean	0.00157	0.00141	0.0218	0.00224	118.2	0.0000050	0.0000050	0.000670	0.00066	0.071	0.0221	0.0981	0.0824	122.2	0.00050	0.00050	0.000100	0.000100	15.9	0.00250	0.00250	
		Count <DL	0	0	0	3	0	5	5	1	0	0	0	0	0	0	5	5	5	5	0	5	5	
		Standard Deviation	0.00317	0.00301	0.0130	0.00171	14.3	0.0000000	0.0000000	0.000606	0.00052	0.035	0.0163	0.1071	0.1405	15.4	0.00000	0.00000	0.000000	0.000000	9.7	0.00000	0.00000	
		1st Quartile	0.00111	0.00099	0.0215	<0.0030	120	<0.000010	<0.000010	0.00058	0.00049	0.056	0.0108	0.0589	0.0387	123	<0.0010	<0.0010	<0.00020	<0.00020	11	<0.0050	<0.0050	
		Median	0.0014	0.00118	0.0254	<0.0030	120	<0.000010	<0.000010	0.00067	0.00053	0.066	0.031	0.0862	0.0808	125	<0.0010	<0.0010	<0.00020	<0.00020	11	<0.0050	<0.0050	
		3rd Quartile	0.00192	0.00187	0.0281	0.0031	130	<0.000010	<0.000010	0.00075	0.00062	0.079	0.0321	0.182	0.173	129	<0.0010	<0.0010	<0.00020	<0.00020	24	<0.0050	<0.0050	
7S		Stream 1-7S discharge to LWO	Average	0.000151	0.000064	0.0346	0.0279	14.3	0.0000050	0.0000050	0.000250	0.00031	0.0149	0.00419	0.00050	0.00050	15.8	0.00050	0.00050	0.000100	0.000100	4.1	0.00250	0.00250
E292109	Count		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Minimum		<0.00010	<0.00010	0.0199	0.0169	9.5	<0.000010	<0.000010	<0.00050	0.00026	<0.010	<0.0050	<0.0010	<0.0010	12.2	<0.0010	<0.0010	<0.00020	<0.00020	2.5	<0.0050	<0.0050	
	Maximum		0.00047	0.00011	0.0530	0.0443	22	<0.000010	<0.000010	<0.00050	0.00042	0.050	0.0103	<0.0010	<0.0010	20.4	<0.0010	<0.0010	<0.00020	<0.00020	6.9	<0.0050	<0.0050	
	Geometric Mean		0.000111	0.000060	0.0330	0.0267	13.7	0.0000050	0.0000050	0.000250	0.00031	0.0103	0.00346	0.00050	0.00050	15.5	0.00050	0.00050	0.000100	0.000100	3.9	0.00250	0.00250	
	Count <DL		3	6	0	0	0	8	8	8	0	4	6	8	8	0	8	8	8	8	0	8	8	
	Standard Deviation		0.000142	0.000026	0.0116	0.0092	4.6	0.0000000	0.0000000	0.000000	0.00006	0.0154	0.00317	0.00000	0.00000	3.2	0.00000	0.00000	0.000000	0.000000	1.4	0.00000	0.00000	
	1st Quartile		5.00E-05	5.00E-05	0.0281	0.0223	11.8	5.00E-06	5.00E-06	0.00025	0.00028	0.005	0.0025	0.0005	0.0005	13.7	0.0005	0.0005	0.0001	0.0001	3.5	0.0025	0.0025	
	Median		0.00011	5.00E-05	0.0309	0.0258	12.5	5.00E-06	5.00E-06	0.00025	0.00029	0.0085	0.0025	0.0005	0.0005	14.5	0.0005	0.0005	0.0001	0.0001	3.9	0.0025	0.0025	
	3rd Quartile		0.000168	6.20E-05	0.042	0.0306	15.8	5.00E-06	5.00E-06	0.00025	0.00035	0.0182	0.00392	0.0005	0.0005	18	0.0005	0.0005	0.0001	0.0001	4.4	0.0025	0.0025	
Notes: Factor applied to less-than results when calculating statistics: 0.5																								

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2022 -23 Statistics Stn.Code		Site Name & Description	Statistic																				
EMS. ID	As-T			As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0813A	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (No. 4 Seam)	Average		0.388		0.00188	212.5		0.0000063		0.000125		0.217		0.0437			0.00062		0.000125	71.5		0.00312
		Count		4		4	4		4		4		4		4			4		4	4		4
		Minimum		0.351		<0.0030	190		<0.000010		<0.00020		0.181		0.0355			<0.0010		<0.00020	61		<0.0050
		Maximum		0.452		<0.0060	220		<0.000020		<0.00040		0.291		0.0647			<0.0020		<0.00040	81		<0.010
		Geometric Mean		0.386		0.00178	212.1		0.0000059		0.000119		0.213		0.0423			0.00059		0.000119	70.9		0.00297
		Count <DL		0		4	0		4		4		0		0			4		4	0		4
		Standard Deviation		0.045		0.00075	15.0		0.0000025		0.000050		0.052		0.0141			0.00025		0.000050	10.5		0.00125
		1st Quartile		0.358		0.0015	212.5		5.00E-06		0.0001		0.182		0.0358			0.0005		0.0001	63.2		0.0025
		Median		0.374		0.0015	220		5.00E-06		0.0001		0.198		0.0373			0.0005		0.0001	72		0.0025
		3rd Quartile		0.402		0.00188	220		6.20E-06		0.000125		0.234		0.0452			0.00062		0.000125	80.2		0.00312
QU0813B	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (Till & SST contact)	Average		0.501		0.00257	133.3		0.0000050		0.000100		0.158		0.0717			0.00050		0.000100	37.0		0.00250
		Count		3		3	3		3		3		3		3			3		3	3		3
		Minimum		0.486		<0.0030	130		<0.000010		<0.00020		0.144		0.0635			<0.0010		<0.00020	31		<0.0050
		Maximum		0.512		0.0031	140		<0.000010		<0.00020		0.180		0.0807			<0.0010		<0.00020	43		<0.0050
		Geometric Mean		0.501		0.00243	133.3		0.0000050		0.000100		0.157		0.0714			0.00050		0.000100	36.7		0.00250
		Count <DL		0		1	0		3		3		0		0			3		3	0		3
		Standard Deviation		0.014		0.00092	5.8		0.0000000		0.000000		0.020		0.0086			0.00000		0.000000	6.0		0.00000
		1st Quartile		0.496		0.0023	130		5.00E-06		0.0001		0.146		0.0672			0.0005		0.0001	34		0.0025
		Median		0.506		0.0031	130		<0.000010		<0.00020		0.149		0.0709			<0.0010		<0.00020	37		<0.0050
		3rd Quartile		0.509		0.0031	135		5.00E-06		0.0001		0.164		0.0758			0.0005		0.0001	40		0.0025
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

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2022 -23 Statistics Stn.Code		Statistic																					
EMS. ID	Site Name & Description		As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average		0.179		0.0075	203.3		0.0000250		0.00050		0.818		0.0718			0.00250		0.00050	0.93		0.0125
		Count		3		3	3		3		3		3		3			3		3	3		3
		Minimum		0.177		<0.015	200		<0.000050		<0.0010		0.772		0.0444			<0.0050		<0.0010	<1.0		<0.025
		Maximum		0.182		<0.015	210		<0.000050		<0.0010		0.860		0.112			<0.0050		<0.0010	1.8		<0.025
		Geometric Mean		0.179		0.0075	203.3		0.0000250		0.00050		0.817		0.0665			0.00250		0.00050	0.77		0.0125
		Count <DL		0		3	0		3		3		0		0			3		3	2		3
		Standard Deviation		0.003		0.0000	5.8		0.0000000		0.00000		0.044		0.0356			0.00000		0.00000	0.75		0.0000
		1st Quartile		0.178		0.0075	200		2.50E-05		0.0005		0.797		0.0518			0.0025		0.0005	0.5		0.0125
		Median		0.179		<0.015	200		<0.000050		<0.0010		0.822		0.0591			<0.0050		<0.0010	<1.0		<0.025
		3rd Quartile		0.18		0.0075	205		2.50E-05		0.0005		0.841		0.0856			0.0025		0.0005	1.15		0.0125
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average		0.324		0.00403	196.7		0.0000100		0.000200		1.248		0.0438			0.00100		0.000200	0.67		0.0050
		Count		3		3	3		3		3		3		3			3		3	3		3
		Minimum		0.197		<0.0060	190		<0.000020		<0.00040		0.330		0.0351			<0.0020		<0.00040	<1.0		<0.010
		Maximum		0.579		0.0061	200		<0.000020		<0.00040		3.04		0.0595			<0.0020		<0.00040	<2.0		<0.010
		Geometric Mean		0.282		0.00380	196.6		0.0000100		0.000200		0.721		0.0425			0.00100		0.000200	0.63		0.0050
		Count <DL		0		2	0		3		3		0		0			3		3	3		3
		Standard Deviation		0.221		0.00179	5.8		0.0000000		0.000000		1.552		0.0136			0.00000		0.000000	0.29		0.0000
		1st Quartile		0.197		0.003	195		1.00E-05		0.0002		0.352		0.0359			0.001		0.0002	0.5		0.005
		Median		0.197		<0.0060	200		<0.000020		<0.00040		0.374		0.0368			<0.0020		<0.00040	<1.0		<0.010
		3rd Quartile		0.388		0.00455	200		1.00E-05		0.0002		1.707		0.0482			0.001		0.0002	0.75		0.005
QU1010D																							
		Average		0.0136		0.0112	87.5		0.0000250		0.00050		8.01		0.492			0.00250		0.00050	0.95		0.0125
		Count		2		2	2		2		2		2		2			2		2	2		2
		Minimum		0.0130		<0.015	87		<0.000050		<0.0010		7.87		0.467			<0.0050		<0.0010	<1.0		<0.025
		Maximum		0.0141		0.015	88		<0.000050		<0.0010		8.14		0.517			<0.0050		<0.0010	1.4		<0.025
		Geometric Mean		0.0135		0.0106	87.5		0.0000250		0.00050		8.00		0.491			0.00250		0.00050	0.84		0.0125
		Count <DL		0		1	0		2		2		0		0			2		2	1		2
		Standard Deviation		0.0008		0.0053	0.7		0.0000000		0.00000		0.19		0.035			0.00000		0.00000	0.64		0.0000
		1st Quartile		0.0133		0.0094	87.2		2.50E-05		0.0005		7.94		0.48			0.0025		0.0005	0.72		0.0125
		Median		0.0136		0.0112	87.5		2.50E-05		0.0005		8.01		0.492			0.0025		0.0005	0.95		0.0125
		3rd Quartile		0.0138		0.0131	87.8		2.50E-05		0.0005		8.07		0.505			0.0025		0.0005	1.17		0.0125
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

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2022 -23 Statistics Stn.Code																								
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average	0.0625	0.0886	3.99	0.3466	180.0	0.000046	0.0000075	0.0053	0.000150	1.78	0.414	0.119	0.0673	141.0	0.0022	0.00075	0.00540	0.000370	2.00	0.0050	0.00375	
		Count	1	2	1	2	2	1	2	1	2	1	2	1	2	1	1	2	1	2	2	1	2	
		Minimum	0.0625	0.0722	3.99	0.0183	160	0.000046	<0.000010	0.0053	<0.000020	1.78	0.262	0.119	0.0326	141	0.0022	<0.0010	0.00540	<0.000020	<1.0	<0.010	<0.0050	
		Maximum	0.0625	0.105	3.99	0.675	200	0.000046	<0.000020	0.0053	<0.000040	1.78	0.567	0.119	0.102	141	0.0022	<0.0020	0.00540	0.00064	3.5	<0.010	<0.010	
		Geometric Mean	0.0625	0.0871	3.99	0.1111	178.9	0.000046	0.0000071	0.0053	0.000141	1.78	0.385	0.119	0.0577	141.0	0.0022	0.00071	0.00540	0.000253	1.32	0.0050	0.00354	
		Count <DL	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	1	1	1	2
		Standard Deviation	0.0000	0.0232	0.00	0.4644	28.3	0.000000	0.0000035	0.0000	0.000071	0.00	0.216	0.000	0.0491	0.0	0.0000	0.00035	0.00000	0.000382	2.12	0.0000	0.00177	
		1st Quartile	0.0625	0.0804	3.99	0.1825	170	4.60E-05	6.20E-06	0.0053	0.000125	1.78	0.338	0.119	0.0499	141	0.0022	0.00062	0.0054	0.000235	1.25	<0.010	0.00312	
		Median	0.0625	0.0886	3.99	0.3466	180	4.60E-05	7.50E-06	0.0053	0.00015	1.78	0.414	0.119	0.0673	141	0.0022	0.00075	0.0054	0.00037	2	<0.010	0.00375	
		3rd Quartile	0.0625	0.0968	3.99	0.5108	190	4.60E-05	8.80E-06	0.0053	0.000175	1.78	0.491	0.119	0.0846	141	0.0022	0.00088	0.0054	0.000505	2.75	<0.010	0.00438	
QU1011D		Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.00977		0.01155	300.0		0.0000050		0.000100		2.12		0.235			0.00050		0.000100	0.85		0.00250
	Count			2		2	2		2		2		2		2			2		2	2		2	
	Minimum			0.00795		<0.0030	290		<0.000010		<0.000020		1.87		0.226			<0.0010		<0.000020	<1.0		<0.0050	
	Maximum			0.0116		0.0216	310		<0.000010		<0.000020		2.36		0.244			<0.0010		<0.000020	1.2		<0.0050	
	Geometric Mean			0.00960		0.00569	299.8		0.0000050		0.000100		2.10		0.235			0.00050		0.000100	0.77		0.00250	
	Count <DL			0		1	0		2		2		0		0			2		2	1		2	
	Standard Deviation			0.00258		0.01421	14.1		0.0000000		0.000000		0.35		0.013			0.00000		0.000000	0.49		0.00000	
	1st Quartile			0.00886		0.00652	295		5.00E-06		0.0001		1.99		0.23			0.0005		0.0001	0.68		0.0025	
	Median			0.00977		0.01155	300		5.00E-06		0.0001		2.12		0.235			0.0005		0.0001	0.85		0.0025	
	3rd Quartile			0.01069		0.01658	305		5.00E-06		0.0001		2.24		0.24			0.0005		0.0001	1.02		0.0025	
QU1011S	Ex-situ 2-North shallow groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).		Average		0.00137		0.00150	96.0		0.0000050		0.000100		0.390		0.0546			0.00050		0.000100	4.2		0.00250
		Count		2		2	2		2		2		2		2			2		2	2		2	
		Minimum		0.00106		<0.0030	72		<0.000010		<0.000020		0.179		0.0384			<0.0010		<0.000020	3.4		<0.0050	
		Maximum		0.00168		<0.0030	120		<0.000010		<0.000020		0.602		0.0709			<0.0010		<0.000020	4.9		<0.0050	
		Geometric Mean		0.00133		0.00150	93.0		0.0000050		0.000100		0.328		0.0522			0.00050		0.000100	4.1		0.00250	
		Count <DL		0		2	0		2		2		0		0			2		2	0		2	
		Standard Deviation		0.00044		0.00000	33.9		0.0000000		0.000000		0.299		0.0230			0.00000		0.000000	1.1		0.00000	
		1st Quartile		0.00122		0.0015	84		5.00E-06		0.0001		0.285		0.0465			0.0005		0.0001	3.8		0.0025	
		Median		0.00137		0.0015	96		5.00E-06		0.0001		0.39		0.0546			0.0005		0.0001	4.2		0.0025	
		3rd Quartile		0.00152		0.0015	108		5.00E-06		0.0001		0.496		0.0628			0.0005		0.0001	4.5		0.0025	
Notes: Factor applied to less-than results when calculating statistics: 0.5																								

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2022 -23 Statistics Stn.Code			2022 -23 Statistics																				
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU1105S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.02342		0.00198	98.2		0.0000050		0.000100		0.2362		0.0377			0.00050		0.000100	54.8		0.00250
		Count		4		4	4		4		4		4		4			4		4	4		4
		Minimum		0.00697		<0.0030	63		<0.000010		<0.00020		0.0754		0.0198			<0.0010		<0.00020	36		<0.0050
		Maximum		0.0645		0.0034	160		<0.000010		<0.00020		0.651		0.0816			<0.0010		<0.00020	87		<0.0050
		Geometric Mean		0.01533		0.00184	91.7		0.0000050		0.000100		0.1549		0.0314			0.00050		0.000100	51.6		0.00250
		Count <DL		0		3	0		4		4		0		0			4		4	0		4
		Standard Deviation		0.02746		0.00095	44.2		0.0000000		0.0000000		0.2772		0.0295			0.00000		0.000000	23.0		0.00000
		1st Quartile		0.00969		0.0015	68.2		5.00E-06		0.0001		0.0904		0.0212			0.0005		0.0001	39.8		0.0025
		Median		0.0111		0.0015	85		5.00E-06		0.0001		0.1092		0.0246			0.0005		0.0001	48		0.0025
		3rd Quartile		0.02482		0.00198	115		5.00E-06		0.0001		0.255		0.0412			0.0005		0.0001	63		0.0025
QU1109S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.1040		0.00390	472.0		0.0000130		0.000260		0.265		0.0313			0.00130		0.000260	138.0		0.0065
		Count		5		5	5		5		5		5		5			5		5	5		5
		Minimum		0.0914		<0.0060	440		<0.000020		<0.00040		0.058		0.0239			<0.0020		<0.00040	120		<0.010
		Maximum		0.117		<0.015	490		<0.000050		<0.0010		0.642		0.0487			<0.0050		<0.0010	160		<0.025
		Geometric Mean		0.1036		0.00360	471.7		0.0000120		0.000240		0.197		0.0301			0.00120		0.000240	137.2		0.0060
		Count <DL		0		5	0		5		5		0		0			5		5	0		5
		Standard Deviation		0.0103		0.00201	19.2		0.0000067		0.000134		0.228		0.0106			0.00067		0.000134	16.4		0.0034
		1st Quartile		0.0997		<0.0060	470		<0.000020		<0.00040		0.16		0.0242			<0.0020		<0.00040	130		<0.010
		Median		0.1		<0.0060	480		<0.000020		<0.00040		0.166		0.0255			<0.0020		<0.00040	130		<0.010
		3rd Quartile		0.112		<0.0060	480		<0.000020		<0.00040		0.3		0.0344			<0.0020		<0.00040	150		<0.010
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

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EMS. ID	Site Name & Description	Statistic																					
			As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7SQR	7-South Quinsam River downstream of 7-South Mining Operation	Average	0.00063	0.00057	0.0254	0.0123	42.3	0.0000050	0.0000050	0.000444	0.00046	0.100	0.0598	0.0082	0.0059	38.4	0.00050	0.00050	0.000100	0.000100	31.0	0.00250	0.00250
E292113		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		Minimum	0.00037	0.00033	0.0081	0.0043	35	<0.000010	<0.000010	<0.00050	0.00036	0.063	0.0513	0.0054	0.0044	35.6	<0.0010	<0.0010	<0.00020	<0.00020	25	<0.0050	<0.0050
		Maximum	0.00086	0.00084	0.0400	0.0230	48	<0.000010	<0.000010	0.00072	0.00079	0.144	0.0740	0.0138	0.0081	45.5	<0.0010	<0.0010	<0.00020	<0.00020	39	<0.0050	<0.0050
		Geometric Mean	0.00060	0.00054	0.0218	0.0106	42.1	0.0000050	0.0000050	0.000410	0.00046	0.098	0.0593	0.0078	0.0058	38.3	0.00050	0.00050	0.000100	0.000100	30.8	0.00250	0.00250
		Count <DL	0	0	0	0	0	15	15	6	0	0	0	0	0	0	15	15	15	15	0	15	15
		Standard Deviation	0.00019	0.00017	0.0123	0.0064	4.1	0.0000000	0.0000000	0.000171	0.00010	0.022	0.0081	0.0029	0.0011	2.7	0.00000	0.00000	0.000000	0.000000	3.6	0.00000	0.00000
		1st Quartile	0.0004	0.00038	0.0106	0.0061	39	5.00E-06	5.00E-06	0.00025	0.0004	0.084	0.0523	0.0062	0.0049	36.2	0.0005	0.0005	0.0001	0.0001	30	0.0025	0.0025
		Median	0.00068	0.00058	0.0289	0.0123	42	<0.000010	<0.000010	0.00053	0.00046	0.101	0.0565	0.0068	0.0056	37.7	<0.0010	<0.0010	<0.00020	<0.00020	31	<0.0050	<0.0050
		3rd Quartile	0.0008	0.00068	0.0348	0.0174	46	5.00E-06	5.00E-06	0.00055	0.0005	0.114	0.0659	0.0112	0.0064	40.1	0.0005	0.0005	0.0001	0.0001	32	0.0025	0.0025
Notes: Factor applied to less-than results when calculating statistics: 0.5																							

Table 47 Statistics 2019-2023 85 Page(s)

2022 -23 Statistics Stn.Code EMS. ID		Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LQL1	Lower Quinsam Lake 1 metre below surface	Average	0.00064	0.00062	0.0358	0.0298	30.0	0.0000050	0.0000050	0.00056	0.00053	0.079	0.0510	0.0046	0.0032	29.7	0.00050	0.00050	0.000100	0.000100	18.0	0.00250	0.00250	
E292118		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		Minimum	0.00060	0.00057	0.0323	0.0285	28	<0.000010	<0.000010	0.00052	0.00051	0.076	0.0451	0.0041	0.0027	27.9	<0.0010	<0.0010	<0.00020	<0.00020	17	<0.0050	<0.0050	
		Maximum	0.00068	0.00067	0.0385	0.0308	31	<0.000010	<0.000010	0.00059	0.00056	0.082	0.0566	0.0050	0.0035	30.7	<0.0010	<0.0010	<0.00020	<0.00020	20	<0.0050	<0.0050	
		Geometric Mean	0.00064	0.00062	0.0357	0.0298	30.0	0.0000050	0.0000050	0.00056	0.00053	0.079	0.0509	0.0046	0.0031	29.7	0.00050	0.00050	0.000100	0.000100	18.0	0.00250	0.00250	
		Count <DL	0	0	0	0	0	5	5	0	0	0	0	0	0	0	5	5	5	5	0	5	5	
		Standard Deviation	0.00003	0.00004	0.0026	0.0010	1.2	0.0000000	0.0000000	0.00003	0.00002	0.002	0.0041	0.0003	0.0003	1.1	0.00000	0.00000	0.000000	0.000000	1.2	0.00000	0.00000	
		1st Quartile	0.00063	0.0006	0.0341	0.0294	30	<0.000010	<0.000010	0.00055	0.00052	0.078	0.0505	0.0044	0.0029	30	<0.0010	<0.0010	<0.00020	<0.00020	17	<0.0050	<0.0050	
		Median	0.00064	0.00063	0.0358	0.0297	30	<0.000010	<0.000010	0.00056	0.00052	0.079	0.051	0.0046	0.0033	30	<0.0010	<0.0010	<0.00020	<0.00020	18	<0.0050	<0.0050	
		3rd Quartile	0.00065	0.00063	0.0381	0.0308	31	<0.000010	<0.000010	0.00056	0.00054	0.08	0.0518	0.0047	0.0034	30.1	<0.0010	<0.0010	<0.00020	<0.00020	18	<0.0050	<0.0050	
LQLB		LQLB 1 metre from Bottom	Average	0.00069	0.00063	0.0407	0.0295	30.8	0.0000050	0.0000050	0.00059	0.00054	0.096	0.0575	0.0060	0.0043	30.5	0.00050	0.00050	0.000100	0.000100	18.0	0.00250	0.00326
E292118	Count		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Minimum		0.00065	0.00059	0.0370	0.0265	29	<0.000010	<0.000010	0.00055	0.00049	0.085	0.0527	0.0051	0.0033	29.9	<0.0010	<0.0010	<0.00020	<0.00020	17	<0.0050	<0.0050	
	Maximum		0.00072	0.00067	0.0469	0.0347	36	<0.000010	<0.000010	0.00064	0.00063	0.124	0.0679	0.0093	0.0068	30.9	<0.0010	<0.0010	<0.00020	<0.00020	20	<0.0050	0.0063	
	Geometric Mean		0.00069	0.00063	0.0405	0.0293	30.7	0.0000050	0.0000050	0.00059	0.00054	0.095	0.0573	0.0059	0.0041	30.5	0.00050	0.00050	0.000100	0.000100	18.0	0.00250	0.00301	
	Count <DL		0	0	0	0	0	5	5	0	0	0	0	0	0	0	5	5	5	5	0	5	4	
	Standard Deviation		0.00003	0.00003	0.0038	0.0032	2.9	0.0000000	0.0000000	0.00004	0.00005	0.016	0.0062	0.0018	0.0014	0.4	0.00000	0.00000	0.000000	0.000000	1.2	0.00000	0.00170	
	1st Quartile		0.00067	0.00062	0.0384	0.0276	29	<0.000010	<0.000010	0.00055	0.00051	0.088	0.0538	0.0052	0.0034	30.4	<0.0010	<0.0010	<0.00020	<0.00020	17	<0.0050	<0.0050	
	Median		0.00069	0.00062	0.0398	0.0285	30	<0.000010	<0.000010	0.00058	0.00053	0.088	0.055	0.0053	0.0039	30.5	<0.0010	<0.0010	<0.00020	<0.00020	18	<0.0050	<0.0050	
	3rd Quartile		0.00071	0.00065	0.0412	0.0301	30	<0.000010	<0.000010	0.00063	0.00053	0.095	0.0583	0.0053	0.0041	30.9	<0.0010	<0.0010	<0.00020	<0.00020	18	<0.0050	<0.0050	
Notes: Factor applied to less-than results when calculating statistics: 0.5																								

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
0.00183		0.0112	0.0075
10		11	11
<0.0030		<0.020	<0.015
0.0033		0.023	<0.015
0.00174		0.0108	0.0075
8		10	11
0.00070		0.0039	0.0000
0.0015		0.01	0.0075
0.0015		<0.020	<0.015
0.0015		0.01	0.0075
0.00150		0.0100	0.0150
3		3	3
<0.0030		<0.020	<0.015
<0.0030		<0.020	0.030
0.00150		0.0100	0.0119
3		3	2
0.00000		0.0000	0.0130
0.0015		0.01	0.0075
<0.0030		<0.020	<0.015
0.0015		0.01	0.0188

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
	0.0120		
	2		
	0.0090		
	0.015		
	0.0116		
	0		
	0.0042		
	0.0105		
	0.012		
	0.0135		
	0.00385		
	2		
	<0.0030		
	0.0062		
	0.00305		
	1		
	0.00332		
	0.00268		
	0.00385		
	0.00502		

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
	0.15		
	2		
	0.14		
	0.16		
	0.15		
	0		
	0.01		
	0.15		
	0.15		
	0.16		
	0.064		
	2		
	0.060		
	0.069		
	0.064		
	0		
	0.006		
	0.062		
	0.064		
	0.067		

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
0.00211	0.00150	0.0122	
14	6	15	
<0.0030	<0.0030	<0.020	
0.0084	<0.0030	0.043	
0.00179	0.00150	0.0110	
12	6	14	
0.00187	0.00000	0.0085	
0.0015	0.0015	0.01	
0.0015	0.0015	<0.020	
0.0015	0.0015	0.01	
0.00244	0.00150	0.0158	
14	6	15	
<0.0030	<0.0030	<0.020	
0.0079	<0.0030	0.073	
0.00199	0.00150	0.0124	
11	6	13	
0.00205	0.00000	0.0170	
0.0015	0.0015	0.01	
0.0015	0.0015	<0.020	
0.0015	0.0015	0.01	

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
0.00150	0.00150	0.0160	
5	5	5	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	0.028	
0.00150	0.00150	0.0144	
5	5	3	
0.00000	0.00000	0.0085	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	0.022	
0.00150	0.00150	0.0198	
5	5	5	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	0.026	
0.00150	0.00150	0.0189	
5	5	1	
0.00000	0.00000	0.0059	
<0.0030	<0.0030	0.02	
<0.0030	<0.0030	0.021	
<0.0030	<0.0030	0.022	
0.00340		0.0895	0.0088
10		11	11
<0.0030		<0.020	<0.015
0.0054		0.813	0.022
0.00307		0.0215	0.0083
3		6	10
0.00141		0.2401	0.0044
0.00202		0.01	0.0075
0.00375		<0.020	<0.015
0.00435		0.0275	0.0075

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
0.00150	0.00150	0.0100	0.035
3	3	3	3
<0.0030	<0.0030	<0.020	0.028
<0.0030	<0.0030	<0.020	0.046
0.00150	0.00150	0.0100	0.034
3	3	3	0
0.00000	0.00000	0.0000	0.010
0.0015	0.0015	0.01	0.03
<0.0030	<0.0030	<0.020	0.031
0.0015	0.0015	0.01	0.038
0.00150	0.00240	0.0233	0.0140
3	3	3	3
<0.0030	<0.0030	<0.020	<0.015
<0.0030	0.0042	0.036	0.027
0.00150	0.00211	0.0205	0.0115
3	2	1	2
0.00000	0.00156	0.0130	0.0113
0.0015	0.0015	0.017	0.0075
<0.0030	<0.0030	0.024	<0.015
0.0015	0.00285	0.03	0.0173

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
	0.01268		
	4		
	<0.0030		
	<0.060		
	0.00730		
	3		
	0.01294		
	0.00352		
	0.0096		
	0.01875		
	0.036		
	3		
	0.024		
	0.046		
	0.035		
	0		
	0.011		
	0.032		
	0.039		
	0.042		
	0.032		
	3		
	0.023		
	0.038		
	0.031		
	0		
	0.008		
	0.029		
	0.035		
	0.037		

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
0.0060		0.0100	0.0205
3		3	3
0.0042		<0.020	<0.015
0.0074		<0.020	0.035
0.0059		0.0100	0.0171
0		3	1
0.0017		0.0000	0.0138
0.0054		0.01	0.0132
0.0065		<0.020	0.019
0.007		0.01	0.027
0.00494	0.00150	0.0869	0.0282
12	1	12	12
<0.0030	<0.0030	<0.020	<0.015
0.0094	<0.0030	0.575	0.12
0.00452	0.00150	0.0342	0.0154
1	1	6	8
0.00208	0.00000	0.1594	0.0354
0.00393	<0.0030	0.01	0.0075
0.0046	<0.0030	0.034	0.0075
0.00568	<0.0030	0.0745	0.0475
0.00295	0.00150	0.0107	

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
14	5	15	
<0.0030	<0.0030	<0.020	
0.016	<0.0030	0.021	
0.00212	0.00150	0.0105	
10	5	14	
0.00385	0.00000	0.0028	
0.0015	<0.0030	0.01	
0.0015	<0.0030	<0.020	
0.00262	<0.0030	0.01	
0.06475	0.00150	0.0547	
14	5	15	
<0.0030	<0.0030	<0.020	
0.80	<0.0030	0.090	
0.00497	0.00150	0.0491	
11	5	1	
0.21209	0.00000	0.0221	
0.0015	<0.0030	0.0405	
0.0015	<0.0030	0.051	
0.01312	<0.0030	0.071	

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
0.00223		0.0115	0.0106
10		11	11
<0.0030		<0.020	<0.015
0.0045		0.026	0.029
0.00200		0.0109	0.0093
7		10	9
0.00122		0.0048	0.0072
0.0015		0.01	0.0075
0.0015		<0.020	<0.015
0.00278		0.01	0.0075
0.00191		0.0100	0.0132
10		11	11
<0.0030		<0.020	<0.015
0.0036		<0.020	0.061
0.00178		0.0100	0.0098
8		11	9
0.00086		0.0000	0.0161
0.0015		0.01	0.0075
0.0015		<0.020	<0.015
0.0015		0.01	0.0075

Appendix 1 - Tables

Table 47 Statistics 2019-2023 85 Page(s)

[illegible]

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
	0.111		
	4		
	0.070		
	0.16		
	0.105		
	0		
	0.042		
	0.079		
	0.106		
	0.138		
	0.20		
	3		
	0.18		
	0.21		
	0.20		
	0		
	0.02		
	0.2		
	0.21		
	0.21		

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
	0.083		
	3		
	0.057		
	0.10		
	0.081		
	0		
	0.023		
	0.075		
	0.093		
	0.096		
	0.139		
	3		
	0.081		
	0.24		
	0.123		
	0		
	0.088		
	0.088		
	0.096		
	0.168		
0.062	0.065		
1	1		
0.062	0.065		
0.062	0.065		
0.062	0.065		
0	0		
0.000	0.000		
0.062	0.065		
0.062	0.065		
0.062	0.065		

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
0.055	0.0055		
1	1		
0.055	0.0055		
0.055	0.0055		
0.055	0.0055		
0	0		
0.000	0.0000		
0.055	0.0055		
0.055	0.0055		
0.055	0.0055		
	0.050		
	2		
	0.048		
	0.053		
	0.050		
	0		
	0.004		
	0.049		
	0.05		
	0.052		
	0.00775		
	2		
	<0.0030		
	0.014		
	0.00458		
	1		
	0.00884		
	0.00463		
	0.00775		
	0.01088		

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
	0.00975		
	4		
	<0.0030		
	0.030		
	0.00498		
	1		
	0.01355		
	0.0027		
	0.00375		
	0.0108		
	0.03450		
	5		
	<0.0030		
	0.055		
	0.02165		
	1		
	0.01979		
	0.037		
	0.039		
	0.04		

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
0.00281		0.0160	0.0075
10		11	11
<0.0030		<0.020	<0.015
0.0049		0.037	<0.015
0.00255		0.0137	0.0075
4		8	11
0.00123		0.0105	0.0000
0.0015		0.01	0.0075
0.00325		<0.020	<0.015
0.0034		0.0195	0.0075

Table 47 Statistics 2019-2023 85 Page(s)

P-T	P-D	N-NO23	N-NH3
mg/L	mg/L	mg/L	mg/L
0.00150	0.00150	0.0246	
5	5	5	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	0.044	
0.00150	0.00150	0.0204	
5	5	2	
0.00000	0.00000	0.0158	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	0.021	
<0.0030	<0.0030	0.038	
0.00150	0.00150	0.0100	
5	5	5	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	<0.020	
0.00150	0.00150	0.0100	
5	5	5	
0.00000	0.00000	0.0000	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	<0.020	
<0.0030	<0.0030	<0.020	

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L
		Average	0.000116	0.000126	0.0188	0.0164	20.2	0.0000050	0.0000050	0.000525	0.00055
WA E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Count	16	16	16	16	16	16	16	16	16
		Minimum	<0.00010	<0.00010	0.0135	0.0100	17	<0.000010	<0.000010	<0.00050	0.00046
		Maximum	0.00018	0.00024	0.0374	0.0404	22	<0.000010	<0.000010	0.00086	0.00066
		Geometric Mean	0.000108	0.000115	0.0181	0.0153	20.1	0.0000050	0.0000050	0.000498	0.00055
		Count <DL	3	3	0	0	0	16	16	3	0
		Standard Deviation	0.000037	0.000050	0.0062	0.0076	2.0	0.0000000	0.0000000	0.000157	0.00006
		1st Quartile	0.000108	0.000108	0.0154	0.0128	18	5.00E-06	5.00E-06	0.000532	0.00051
		Median	0.000125	0.00013	0.0173	0.0144	21	5.00E-06	5.00E-06	0.000555	0.00052
		3rd Quartile	0.000132	0.000142	0.0185	0.0159	22	5.00E-06	5.00E-06	0.00059	0.00059
WD E207409	Settling Pond #4	Average	0.00184	0.00175	0.02207	0.00737	420	0.0000065	0.000005	0.000453	0.000248
		Count	6	12	6	12	12	6	12	6	12
		Minimum	0.00125	0.00096	<0.0030	<0.0030	360	<0.000010	<0.000010	<0.00050	<0.00020
		Maximum	0.00241	0.00417	0.1	0.0366	570	0.000014	<0.000010	0.00147	0.00056
		Geometric Mean	0.0018	0.00163	0.00762	0.00374	416	0.0000059	0.000005	0.000336	0.0002
		Count <DL	0	0	2	6	0	5	12	5	5
		Standard Deviation	0.00043	0.00084	0.03844	0.01056	63	0.0000037	0	0.000498	0.000169
		1st Quartile	0.00158	0.00134	0.00298	0.0015	377	0.000005	0.000005	0.00025	0.0001
		Median	0.00182	0.00154	0.00825	0.0024	405	0.000005	0.000005	0.00025	0.000225
		3rd Quartile	0.00214	0.00181	0.01195	0.00702	430	0.000005	0.000005	0.00025	0.000295
MW006D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average		0.0281		0.0195	75.0		0.0000050		0.000310
		Count		2		2	2		2		2
		Minimum		0.0281		0.0163	72		<0.000010		<0.00020
		Maximum		0.0281		0.0228	78		<0.000010		0.00052
		Geometric Mean		0.0281		0.0193	74.9		0.0000050		0.000228
		Count <DL		0		0	0		2		1
		Standard Deviation		0.0000		0.0046	4.2		0.0000000		0.000297
		1st Quartile		0.0281		0.0179	73.5		5.00E-06		0.000205
		Median		0.0281		0.0195	75		5.00E-06		0.00031
		3rd Quartile		0.0281		0.0212	76.5		5.00E-06		0.000415
MW006S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.00199		0.00245	140.0		0.0000145		0.00063
		Count		2		2	2		2		2
		Minimum		0.00156		<0.0030	130		<0.000010		0.00053
		Maximum		0.00243		0.0034	150		0.000024		0.00074
		Geometric Mean		0.00195		0.00226	139.6		0.0000110		0.00063
		Count <DL		0		1	0		1		0
		Standard Deviation		0.00062		0.00134	14.1		0.0000134		0.00015
		1st Quartile		0.00178		0.00198	135		9.80E-06		0.00058
		Median		0.00199		0.00245	140		1.45E-05		0.00063
		3rd Quartile		0.00221		0.00292	145		1.92E-05		0.00069

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
WC	2-North Pit Culvert discharge into Middle Quinsam Lake	Average	0.00066	0.00066	0.0100	0.0086		0.0000050	0.0000058	0.000325	0.000343
E207411		Count	6	6	6	6		6	6	6	6
		Minimum	0.00056	0.00056	0.0049	0.0033		<0.000010	<0.000010	<0.00050	<0.00020
		Maximum	0.00094	0.00093	0.0275	0.0223		<0.000010	0.000010	0.00070	0.00079
		Geometric Mean	0.00065	0.00065	0.0081	0.0071		0.0000050	0.0000056	0.000297	0.000285
		Count <DL	0	0	0	0		6	5	5	1
		Standard Deviation	0.00014	0.00015	0.0087	0.0069		0.0000000	0.0000020	0.000184	0.000239
		1st Quartile	0.0006	0.00056	0.0057	0.005		5.00E-06	5.00E-06	0.00025	0.000242
		Median	0.00062	0.00058	0.007	0.0065		5.00E-06	5.00E-06	0.00025	0.000265
		3rd Quartile	0.00064	0.0007	0.0077	0.0082		5.00E-06	5.00E-06	0.00025	0.00037
MLQ1	Middle Quinsam Lake 1 metre below surface	Average	0.00015	0.00015	0.0112	0.0097	31.7	0.0000062	0.0000050	0.000370	0.00048
E206618		Count	15	15	15	15	15	15	15	15	15
		Minimum	0.00011	0.00011	0.0065	0.0043	27	<0.000010	<0.000010	<0.00050	0.00040
		Maximum	0.00019	0.00019	0.0146	0.0138	34	0.000023	<0.000010	0.00113	0.00061
		Geometric Mean	0.00015	0.00014	0.0108	0.0090	31.7	0.0000055	0.0000050	0.000324	0.00047
		Count <DL	0	0	0	0	0	14	15	11	0
		Standard Deviation	0.00003	0.00003	0.0029	0.0035	1.9	0.0000046	0.0000000	0.000247	0.00005
		1st Quartile	0.00013	0.00012	0.0082	0.0057	30.5	5.00E-06	5.00E-06	0.00025	0.00044
		Median	0.00015	0.00015	0.0119	0.012	32	<0.000010	<0.000010	<0.00050	0.00046
		3rd Quartile	0.00016	0.00016	0.0136	0.0123	33	5.00E-06	5.00E-06	0.00038	0.0005
MLQB	Middle Quinsam Lake 1 metre from bottom	Average	0.000120	0.000118	0.0091	0.00689	33.1	0.0000069	0.0000050	0.000305	0.00049
E206618		Count	15	15	15	15	15	15	15	15	15
		Minimum	<0.00010	<0.00010	0.0049	<0.0030	28	<0.000010	<0.000010	<0.00050	0.00038
		Maximum	0.00018	0.00015	0.0149	0.0126	40	0.000034	<0.000010	0.00056	0.00089
		Geometric Mean	0.000112	0.000113	0.0087	0.00587	33.0	0.0000057	0.0000050	0.000290	0.00048
		Count <DL	3	2	0	2	0	14	15	12	0
		Standard Deviation	0.000040	0.000031	0.0030	0.00336	2.9	0.0000075	0.0000000	0.000115	0.00012
		1st Quartile	0.000115	0.000115	0.0071	0.0046	32	5.00E-06	5.00E-06	0.00025	0.00044
		Median	0.00013	0.00012	0.0083	0.008	33	<0.000010	<0.000010	<0.00050	0.00047
		3rd Quartile	0.000145	0.00014	0.0113	0.00945	33.5	5.00E-06	5.00E-06	0.00025	0.0005

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L
NNL1 E217018	No Name Lake 1 metre below surface	Average	0.00023	0.00025	0.0296	0.0273	11.6	0.0000050	0.0000050	0.000250	0.00046
		Count	5	5	5	5	5	5	5	5	5
		Minimum	0.00021	0.00023	0.0287	0.0251	11	<0.000010	<0.000010	<0.00050	0.00042
		Maximum	0.00026	0.00027	0.0303	0.0289	12	<0.000010	<0.000010	<0.00050	0.00056
		Geometric Mean	0.00023	0.00025	0.0296	0.0273	11.6	0.0000050	0.0000050	0.000250	0.00046
		Count <DL	0	0	0	0	0	5	5	5	0
		Standard Deviation	0.00002	0.00002	0.0006	0.0019	0.5	0.0000000	0.0000000	0.000000	0.00006
		1st Quartile	0.00023	0.00023	0.0294	0.0254	11	<0.000010	<0.000010	<0.00050	0.00043
		Median	0.00023	0.00025	0.0297	0.0284	12	<0.000010	<0.000010	<0.00050	0.00045
		3rd Quartile	0.00024	0.00025	0.0301	0.0288	12	<0.000010	<0.000010	<0.00050	0.00045
NNLB E217018	No Name Lake 1 metre from bottom	Average	0.00025	0.00024	0.0307	0.0261	11.0	0.0000050	0.0000050	0.000384	0.00041
		Count	5	5	5	5	5	5	5	5	5
		Minimum	0.00022	0.00022	0.0278	0.0246	10	<0.000010	<0.000010	<0.00050	0.00035
		Maximum	0.00027	0.00026	0.0328	0.0293	12	<0.000010	<0.000010	0.00092	0.00053
		Geometric Mean	0.00025	0.00024	0.0307	0.0261	11.0	0.0000050	0.0000050	0.000324	0.00041
		Count <DL	0	0	0	0	0	5	5	4	0
		Standard Deviation	0.00002	0.00002	0.0019	0.0018	0.7	0.0000000	0.0000000	0.000300	0.00007
		1st Quartile	0.00024	0.00023	0.0304	0.0255	11	<0.000010	<0.000010	<0.00050	0.00037
		Median	0.00025	0.00024	0.0308	0.0255	11	<0.000010	<0.000010	<0.00050	0.0004
		3rd Quartile	0.00027	0.00025	0.0318	0.0257	11	<0.000010	<0.000010	<0.00050	0.00041
NNO E217017	No Name Lake Outlet	Average	0.00032	0.00034	0.0257	0.0216	15.8	0.0000068	0.0000050	0.000294	0.00046
		Count	14	14	14	14	14	14	14	14	14
		Minimum	0.00021	0.00023	0.0094	0.0047	10	<0.000010	<0.000010	<0.00050	0.00034
		Maximum	0.00064	0.00063	0.0502	0.0469	34	0.000030	<0.000010	0.00060	0.00072
		Geometric Mean	0.00030	0.00032	0.0224	0.0175	14.5	0.0000057	0.0000050	0.000280	0.00045
		Count <DL	0	0	0	0	0	13	14	12	0
		Standard Deviation	0.00013	0.00013	0.0130	0.0128	7.7	0.0000067	0.0000000	0.000114	0.00011
		1st Quartile	0.00024	0.00025	0.0129	0.0095	11.2	5.00E-06	5.00E-06	0.00025	0.00039
		Median	0.00026	0.00027	0.0283	0.0247	12	5.00E-06	5.00E-06	0.00025	0.00043
		3rd Quartile	0.00031	0.00037	0.0319	0.0278	14.8	5.00E-06	5.00E-06	0.00025	0.00047

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LLS	Small Seep into Long Lake	Average	0.00150	0.00102	0.04693	0.00407	168.6	0.0000057	0.0000050	0.000780	0.000213
E292131		Count	7	7	7	7	7	7	7	7	7
		Minimum	0.00053	0.00050	<0.0030	<0.0030	120	<0.000010	<0.000010	<0.00050	<0.00020
		Maximum	0.00293	0.00195	0.273	0.0156	200	0.000010	<0.000010	0.00350	0.00044
		Geometric Mean	0.00132	0.00090	0.00770	0.00252	166.1	0.0000055	0.0000050	0.000423	0.000183
		Count <DL	0	0	3	5	0	6	7	5	3
		Standard Deviation	0.00080	0.00057	0.10042	0.00529	29.7	0.0000019	0.0000000	0.001212	0.000125
		1st Quartile	0.00098	0.00059	0.0015	0.0015	150	5.00E-06	5.00E-06	0.00025	0.0001
		Median	0.00144	0.00069	0.0043	<0.0030	180	<0.000010	<0.000010	<0.00050	0.00024
		3rd Quartile	0.00183	0.00142	0.02335	0.00345	190	5.00E-06	5.00E-06	0.00048	0.000255
LLSM	Long Lake Middle Seep	Average	0.000373	0.00037	0.0160	0.0080	148.3	0.0000050	0.0000050	0.000483	0.00041
E292131		Count	6	6	6	6	6	6	6	6	6
		Minimum	<0.00010	0.00013	0.0044	0.0032	110	<0.000010	<0.000010	<0.00050	0.00021
		Maximum	0.00072	0.00066	0.0314	0.0127	170	<0.000010	<0.000010	0.00075	0.00063
		Geometric Mean	0.000255	0.00029	0.0128	0.0070	146.9	0.0000050	0.0000050	0.000445	0.00039
		Count <DL	1	0	0	0	0	6	6	2	0
		Standard Deviation	0.000291	0.00025	0.0109	0.0039	21.4	0.0000000	0.0000000	0.000199	0.00014
		1st Quartile	0.000145	0.00014	0.0078	0.0046	142.5	5.00E-06	5.00E-06	0.000312	0.00035
		Median	0.00034	0.00035	0.0136	0.009	155	5.00E-06	5.00E-06	0.000535	0.0004
		3rd Quartile	0.000618	0.00057	0.0238	0.0103	160	5.00E-06	5.00E-06	0.000578	0.00047
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average		0.00219		0.00638	272.5		0.0000213		0.000425
		Count		4		4	4		4		4
		Minimum		0.00204		<0.0060	260		<0.000020		<0.00040
		Maximum		0.00228		<0.015	280		<0.000050		<0.0010
		Geometric Mean		0.00219		0.00596	272.4		0.0000199		0.000398
		Count <DL		0		4	0		4		4
		Standard Deviation		0.00011		0.00225	9.6		0.0000075		0.000150
		1st Quartile		0.00215		0.00638	267.5		2.13E-05		0.000425
		Median		0.00222		0.0075	275		2.50E-05		0.0005
		3rd Quartile		0.00226		0.0075	280		2.50E-05		0.0005

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.111		0.00150	176.7		0.0000050		0.000100
		Count		3		3	3		3		3
		Minimum		0.107		<0.0030	170		<0.000010		<0.00020
		Maximum		0.115		<0.0030	180		<0.000010		<0.00020
		Geometric Mean		0.111		0.00150	176.6		0.0000050		0.000100
		Count <DL		0		3	0		3		3
		Standard Deviation		0.004		0.00000	5.8		0.0000000		0.000000
		1st Quartile		0.11		0.0015	175		5.00E-06		0.0001
		Median		0.112		<0.0030	180		<0.000010		<0.00020
		3rd Quartile		0.114		0.0015	180		5.00E-06		0.0001
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.0875		0.00150	136.7		0.0000050		0.000100
		Count		3		3	3		3		3
		Minimum		0.0832		<0.0030	130		<0.000010		<0.00020
		Maximum		0.0925		<0.0030	140		<0.000010		<0.00020
		Geometric Mean		0.0874		0.00150	136.6		0.0000050		0.000100
		Count <DL		0		3	0		3		3
		Standard Deviation		0.0047		0.00000	5.8		0.0000000		0.000000
		1st Quartile		0.085		0.0015	135		5.00E-06		0.0001
		Median		0.0867		<0.0030	140		<0.000010		<0.00020
		3rd Quartile		0.0896		0.0015	140		5.00E-06		0.0001

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L
SPD E218582	Settling Pond # 1	Average	0.00159	0.00153	0.01835	0.01705	92.8	0.0000050	0.0000050	0.000250	0.000381
		Count	6	13	6	13	12	6	13	6	13
		Minimum	0.00141	0.00097	<0.0030	<0.0030	47	<0.000010	<0.000010	<0.00050	<0.00020
		Maximum	0.00180	0.00250	0.0472	0.0632	120	<0.000010	<0.000010	<0.00050	0.00138
		Geometric Mean	0.00158	0.00149	0.01060	0.00809	90.6	0.0000050	0.0000050	0.000250	0.000281
		Count <DL	0	0	1	3	0	6	13	6	3
		Standard Deviation	0.00015	0.00040	0.01743	0.01927	18.7	0.0000000	0.0000000	0.000000	0.000354
		1st Quartile	0.00146	0.00125	0.00518	0.0031	88.5	5.00E-06	<0.000010	0.00025	0.00021
		Median	0.0016	0.00161	0.0145	0.0062	94	5.00E-06	<0.000010	0.00025	0.00024
		3rd Quartile	0.00167	0.00172	0.02638	0.0337	100.2	5.00E-06	<0.000010	0.00025	0.00039
LLE E292130	Long Lake Entrance (LLE)	Average	0.00066	0.00057	0.0592	0.03004	59.0	0.0000050	0.0000050	0.000379	0.000396
		Count	9	9	9	9	9	9	9	9	9
		Minimum	0.00034	0.00029	0.0047	<0.0030	37	<0.000010	<0.000010	<0.00050	<0.00020
		Maximum	0.00104	0.00073	0.126	0.0725	100	<0.000010	<0.000010	0.00065	0.00074
		Geometric Mean	0.00063	0.00055	0.0435	0.01928	55.9	0.0000050	0.0000050	0.000341	0.000349
		Count <DL	0	0	0	1	0	9	9	6	1
		Standard Deviation	0.00020	0.00014	0.0388	0.02207	21.7	0.0000000	0.0000000	0.000193	0.000192
		1st Quartile	0.00056	0.00049	0.037	0.0137	45	<0.000010	<0.000010	<0.00050	0.0003
		Median	0.00065	0.00061	0.058	0.0307	52	<0.000010	<0.000010	<0.00050	0.00036
		3rd Quartile	0.00075	0.00066	0.0703	0.0426	67	<0.000010	<0.000010	0.00063	0.00044
LLM1 E206619	Long Lake Middle 1 metre below Surface	Average	0.00050	0.00051	0.0140	0.0118	26.6	0.0000213	0.0000050	0.000416	0.00035
		Count	15	15	15	15	15	15	15	15	15
		Minimum	0.00031	0.00032	0.0057	0.0037	16	<0.000010	<0.000010	<0.00050	0.00027
		Maximum	0.00076	0.00065	0.0279	0.0258	34	0.000249	<0.000010	0.00274	0.00044
		Geometric Mean	0.00048	0.00049	0.0120	0.0095	26.0	0.0000065	0.0000050	0.000293	0.00035
		Count <DL	0	0	0	0	0	14	15	14	0
		Standard Deviation	0.00014	0.00013	0.0081	0.0075	5.4	0.0000630	0.0000000	0.000643	0.00004
		1st Quartile	0.00035	0.00035	0.0072	0.0046	24	5.00E-06	5.00E-06	0.00025	0.00032
		Median	0.00054	0.00057	0.0103	0.0101	27	<0.000010	<0.000010	<0.00050	0.00035
		3rd Quartile	0.0006	0.00062	0.0214	0.0192	31	5.00E-06	5.00E-06	0.00025	0.00038
LLMB E206619	Long Lake Middle 1 metre From Bottom	Average	0.00034	0.00030	0.0071	0.00473	40.3	0.0000095	0.0000050	0.000292	0.00030
		Count	15	15	15	15	15	15	15	15	15
		Minimum	0.00025	0.00021	0.0050	<0.0030	34	<0.000010	<0.000010	<0.00050	0.00024
		Maximum	0.00060	0.00058	0.0091	0.0070	45	0.000073	<0.000010	0.00088	0.00040
		Geometric Mean	0.00033	0.00029	0.0069	0.00433	40.2	0.0000060	0.0000050	0.000272	0.00030
		Count <DL	0	0	0	2	0	14	15	14	0
		Standard Deviation	0.00009	0.00009	0.0015	0.00173	2.8	0.0000176	0.0000000	0.000163	0.00004
		1st Quartile	0.00029	0.00026	0.0059	0.0038	40	5.00E-06	5.00E-06	0.00025	0.00027
		Median	0.00032	0.00027	0.0069	0.0047	41	<0.000010	<0.000010	<0.00050	0.0003
		3rd Quartile	0.00034	0.00029	0.0084	0.0061	42	5.00E-06	5.00E-06	0.00025	0.00032

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LLO E219412	Long Lake Outlet	Average	0.00039	0.00039	0.0196	0.0140	26.4	0.0000050	0.0000050	0.000441	0.00035
		Count	14	14	14	14	14	14	14	14	14
		Minimum	0.00031	0.00030	0.0058	0.0034	18	<0.000010	<0.000010	<0.00050	0.00028
		Maximum	0.00054	0.00051	0.0393	0.0340	38	<0.000010	<0.000010	0.00267	0.00051
		Geometric Mean	0.00038	0.00038	0.0162	0.0101	25.8	0.0000050	0.0000050	0.000311	0.00035
		Count <DL	0	0	0	0	0	14	14	12	0
		Standard Deviation	0.00007	0.00007	0.0115	0.0105	6.0	0.0000000	0.0000000	0.000645	0.00006
		1st Quartile	0.00035	0.00034	0.0083	0.0041	22.2	5.00E-06	5.00E-06	0.00025	0.00032
		Median	0.00036	0.00036	0.0202	0.0136	25	5.00E-06	5.00E-06	0.00025	0.00035
		3rd Quartile	0.00043	0.00043	0.0266	0.0207	31	5.00E-06	5.00E-06	0.00025	0.00037
WB E0900504	Middle Quinsam Lake Outlet	Average	0.00016	0.00016	0.0125	0.0104	31.6	0.0000050	0.0000057	0.000340	0.00049
		Count	16	16	16	16	16	16	16	16	16
		Minimum	0.00012	0.00012	0.0062	0.0039	28	<0.000010	<0.000010	<0.00050	0.00037
		Maximum	0.00021	0.00021	0.0193	0.0178	36	<0.000010	0.000016	0.00058	0.00085
		Geometric Mean	0.00016	0.00016	0.0119	0.0095	31.6	0.0000050	0.0000054	0.000318	0.00048
		Count <DL	0	0	0	0	0	16	15	11	0
		Standard Deviation	0.00003	0.00003	0.0038	0.0040	2.2	0.0000000	0.0000028	0.000138	0.00011
		1st Quartile	0.00014	0.00014	0.0088	0.006	30	5.00E-06	5.00E-06	0.00025	0.00043
		Median	0.00017	0.00017	0.0133	0.0116	32	5.00E-06	5.00E-06	0.00025	0.00046
		3rd Quartile	0.00018	0.00018	0.0149	0.0128	33	5.00E-06	5.00E-06	0.00052	0.00049
7SSD E292069	Settling Pond at 7S- Discharge to Stream 1 - 7S	Average	0.00378	0.00353	0.0360	0.00545	131	0.0000050	0.0000050	0.00074	0.00060
		Count	4	4	4	4	4	4	4	4	4
		Minimum	0.00058	0.00040	0.0066	<0.0030	77	<0.000010	<0.000010	0.00056	0.00040
		Maximum	0.0117	0.0114	0.0822	0.0108	180	<0.000010	<0.000010	0.00090	0.00085
		Geometric Mean	0.00177	0.00141	0.0239	0.00435	126	0.0000050	0.0000050	0.00073	0.00058
		Count <DL	0	0	0	1	0	4	4	0	0
		Standard Deviation	0.00533	0.00529	0.0340	0.00392	42	0.0000000	0.0000000	0.00016	0.00020
		1st Quartile	0.00065	0.00046	0.0128	0.00345	116	5.00E-06	5.00E-06	0.00063	0.00047
		Median	0.00142	0.00116	0.0276	0.00475	135	5.00E-06	5.00E-06	0.00076	0.00058
		3rd Quartile	0.00455	0.00422	0.0508	0.00675	150	5.00E-06	5.00E-06	0.00086	0.00072
7S E292109	Stream 1-7S discharge to LWO	Average	0.000066	0.000086	0.0299	0.0288	12.8	0.0000050	0.0000076	0.000349	0.00041
		Count	8	8	8	8	8	8	8	8	8
		Minimum	<0.00010	<0.00010	0.0175	0.0173	11	<0.000010	<0.000010	<0.00050	0.00031
		Maximum	0.00013	0.00020	0.0510	0.0459	15	<0.000010	0.000026	0.00104	0.00060
		Geometric Mean	0.000061	0.000074	0.0279	0.0276	12.7	0.0000050	0.0000061	0.000299	0.00040
		Count <DL	6	5	0	0	0	8	7	7	0
		Standard Deviation	0.000031	0.000056	0.0123	0.0094	1.5	0.0000000	0.0000074	0.000279	0.00011
		1st Quartile	5.00E-05	5.00E-05	0.0213	0.0216	11.8	5.00E-06	5.00E-06	0.00025	0.00032
		Median	5.00E-05	5.00E-05	0.0264	0.0284	12.5	5.00E-06	5.00E-06	0.00025	0.00037
		3rd Quartile	6.20E-05	0.000115	0.0349	0.0332	14	5.00E-06	5.00E-06	0.00025	0.00047

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics											
Stn.Code											
EMS. ID	Site Name & Description	Statistic	As-T	As-D	AI-T	AI-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0813A	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (No. 4 Seam)	Average		0.365		0.00224	206.0		0.0000050		0.000100
		Count		5		5	5		5		5
		Minimum		0.334		<0.0030	190		<0.000010		<0.00020
		Maximum		0.400		0.0052	220		<0.000010		<0.00020
		Geometric Mean		0.364		0.00192	205.7		0.0000050		0.000100
		Count <DL		0		4	0		5		5
		Standard Deviation		0.028		0.00165	11.4		0.0000000		0.000000
		1st Quartile		0.339		<0.0030	200		<0.000010		<0.00020
		Median		0.375		<0.0030	210		<0.000010		<0.00020
		3rd Quartile		0.377		<0.0030	210		<0.000010		<0.00020
QU0813B	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (Till & SST contact)	Average		0.530		0.00340	122.0		0.0000050		0.000100
		Count		5		5	5		5		5
		Minimum		0.451		<0.0030	120		<0.000010		<0.00020
		Maximum		0.564		0.0046	130		<0.000010		<0.00020
		Geometric Mean		0.528		0.00319	121.9		0.0000050		0.000100
		Count <DL		0		1	0		5		5
		Standard Deviation		0.046		0.00115	4.5		0.0000000		0.000000
		1st Quartile		0.534		0.0034	120		<0.000010		<0.00020
		Median		0.546		0.0037	120		<0.000010		<0.00020
		3rd Quartile		0.555		0.0038	120		<0.000010		<0.00020
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average		0.189		0.0075	197.5		0.0000250		0.00050
		Count		4		4	4		4		4
		Minimum		0.164		<0.015	190		<0.000050		<0.0010
		Maximum		0.226		<0.015	200		<0.000050		<0.0010
		Geometric Mean		0.187		0.0075	197.5		0.0000250		0.00050
		Count <DL		0		4	0		4		4
		Standard Deviation		0.027		0.0000	5.0		0.0000000		0.00000
		1st Quartile		0.174		0.0075	197.5		2.50E-05		0.0005
		Median		0.182		0.0075	200		2.50E-05		0.0005
		3rd Quartile		0.197		0.0075	200		2.50E-05		0.0005
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average		0.230		0.00238	192.5		0.0000050		0.000100
		Count		4		4	4		4		4
		Minimum		0.187		<0.0030	180		<0.000010		<0.00020
		Maximum		0.256		0.0033	200		<0.000010		<0.00020
		Geometric Mean		0.228		0.00221	192.3		0.0000050		0.000100
		Count <DL		0		2	0		4		4
		Standard Deviation		0.030		0.00101	9.6		0.0000000		0.000000
		1st Quartile		0.218		0.0015	187.5		5.00E-06		0.0001
		Median		0.238		0.00235	195		5.00E-06		0.0001
		3rd Quartile		0.248		0.00322	200		5.00E-06		0.0001

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L
QU1010D		Average		0.0126		0.01375	88.5		0.0000150		0.000300
		Count		2		2	2		2		2
		Minimum		0.0116		<0.0030	85		<0.000010		<0.00020
		Maximum		0.0136		0.026	92		<0.000050		<0.0010
		Geometric Mean		0.0126		0.00624	88.4		0.0000112		0.000224
		Count <DL		0		1	0		2		2
		Standard Deviation		0.0014		0.01732	4.9		0.0000141		0.000283
		1st Quartile		0.0121		0.00762	86.8		1.00E-05		0.0002
		Median		0.0126		0.01375	88.5		1.50E-05		0.0003
		3rd Quartile		0.0131		0.01988	90.2		2.00E-05		0.0004
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average		0.0996		0.00150	150.0		0.0000050		0.000100
		Count		2		2	2		2		2
		Minimum		0.0913		<0.0030	150		<0.000010		<0.00020
		Maximum		0.108		<0.0030	150		<0.000010		<0.00020
		Geometric Mean		0.0993		0.00150	150.0		0.0000050		0.000100
		Count <DL		0		2	0		2		2
		Standard Deviation		0.0118		0.00000	0.0		0.0000000		0.000000
		1st Quartile		0.0955		0.0015	150		5.00E-06		0.0001
		Median		0.0996		0.0015	150		5.00E-06		0.0001
		3rd Quartile		0.1038		0.0015	150		5.00E-06		0.0001
QU1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.00425		0.00300	320.0		0.0000100		0.000200
		Count		1		1	1		1		1
		Minimum		0.00425		<0.0060	320		<0.000020		<0.00040
		Maximum		0.00425		<0.0060	320		<0.000020		<0.00040
		Geometric Mean		0.00425		0.00300	320.0		0.0000100		0.000200
		Count <DL		0		1	0		1		1
		Standard Deviation		0.00000		0.00000	0.0		0.0000000		0.000000
		1st Quartile		0.00425		<0.0060	320		<0.000020		<0.00040
		Median		0.00425		<0.0060	320		<0.000020		<0.00040
		3rd Quartile		0.00425		<0.0060	320		<0.000020		<0.00040
QU1011S	Ex-situ 2-North shallow groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.00072		0.0042	52.0		0.0000050		0.00031
		Count		1		1	1		1		1
		Minimum		0.00072		0.0042	52		<0.000010		0.00031
		Maximum		0.00072		0.0042	52		<0.000010		0.00031
		Geometric Mean		0.00072		0.0042	52.0		0.0000050		0.00031
		Count <DL		0		0	0		1		0
		Standard Deviation		0.00000		0.0000	0.0		0.0000000		0.00000
		1st Quartile		0.00072		0.0042	52		<0.000010		0.00031
		Median		0.00072		0.0042	52		<0.000010		0.00031
		3rd Quartile		0.00072		0.0042	52		<0.000010		0.00031

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L
QU1105S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.0336		0.00150	148		0.0000050		0.000100
		Count		4		4	4		4		4
		Minimum		0.0165		<0.0030	66		<0.000010		<0.00020
		Maximum		0.0695		<0.0030	370		<0.000010		<0.00020
		Geometric Mean		0.0286		0.00150	111		0.0000050		0.000100
		Count <DL		0		4	0		4		4
		Standard Deviation		0.0243		0.00000	147		0.0000000		0.000000
		1st Quartile		0.0204		0.0015	75		5.00E-06		0.0001
		Median		0.0242		0.0015	79		5.00E-06		0.0001
		3rd Quartile		0.0375		0.0015	151		5.00E-06		0.0001
QU1109S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.0942		0.00480	490.0		0.0000083		0.000167
		Count		3		3	3		3		3
		Minimum		0.0789		<0.0030	480		<0.000010		<0.00020
		Maximum		0.119		0.0099	510		<0.000020		<0.00040
		Geometric Mean		0.0926		0.00354	489.8		0.0000079		0.000159
		Count <DL		0		2	0		3		3
		Standard Deviation		0.0217		0.00448	17.3		0.0000029		0.000058
		1st Quartile		0.0818		0.00225	480		7.50E-06		0.00015
		Median		0.0847		<0.0060	480		<0.000020		<0.00040
		3rd Quartile		0.1018		0.00645	495		1.00E-05		0.0002
7SQR E292113	7-South Quinsam River downstream of 7-South Mining Operation	Average	0.00056	0.00056	0.0244	0.0169	33.0	0.0000062	0.0000060	0.000423	0.00053
		Count	16	16	16	16	16	16	16	16	16
		Minimum	0.00035	0.00036	0.0103	0.0065	23	<0.000010	<0.000010	<0.00050	0.00041
		Maximum	0.00086	0.00083	0.0585	0.0461	38	0.000015	0.000021	0.00082	0.00082
		Geometric Mean	0.00054	0.00054	0.0219	0.0143	32.8	0.0000057	0.0000055	0.000384	0.00052
		Count <DL	0	0	0	0	0	14	15	8	0
		Standard Deviation	0.00017	0.00017	0.0129	0.0114	3.9	0.0000033	0.0000040	0.000192	0.00011
		1st Quartile	0.00044	0.00044	0.0161	0.0099	31	5.00E-06	5.00E-06	0.00025	0.00046
		Median	0.00052	0.0005	0.0187	0.014	34	5.00E-06	5.00E-06	0.000385	0.0005
		3rd Quartile	0.00066	0.00072	0.0298	0.0192	36	5.00E-06	5.00E-06	0.00055	0.00055

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L
LQL1 E292118	Lower Quinsam Lake 1 metre below surface	Average	0.00058	0.00054	0.0334	0.0228	28.0	0.0000050	0.0000050	0.00055	0.00053
		Count	5	5	5	5	5	5	5	5	5
		Minimum	0.00055	0.00052	0.0211	0.0151	26	<0.000010	<0.000010	0.00051	0.00046
		Maximum	0.00060	0.00056	0.0386	0.0287	30	<0.000010	<0.000010	0.00061	0.00057
		Geometric Mean	0.00058	0.00054	0.0327	0.0223	28.0	0.0000050	0.0000050	0.00055	0.00053
		Count <DL	0	0	0	0	0	5	5	0	0
		Standard Deviation	0.00002	0.00002	0.0071	0.0052	1.6	0.0000000	0.0000000	0.00004	0.00004
		1st Quartile	0.00057	0.00052	0.0343	0.0205	27	<0.000010	<0.000010	0.00054	0.00052
		Median	0.00058	0.00054	0.0355	0.0241	28	<0.000010	<0.000010	0.00055	0.00053
		3rd Quartile	0.0006	0.00055	0.0377	0.0258	29	<0.000010	<0.000010	0.00056	0.00056
LQLB E292118	LQLB 1 metre from Bottom	Average	0.00061	0.00056	0.0346	0.0215	28.4	0.0000050	0.0000050	0.000512	0.00054
		Count	5	5	5	5	5	5	5	5	5
		Minimum	0.00058	0.00054	0.0200	0.0137	27	<0.000010	<0.000010	<0.00050	0.00050
		Maximum	0.00064	0.00060	0.0434	0.0259	31	<0.000010	<0.000010	0.00060	0.00057
		Geometric Mean	0.00061	0.00056	0.0335	0.0210	28.4	0.0000050	0.0000050	0.000488	0.00054
		Count <DL	0	0	0	0	0	5	5	1	0
		Standard Deviation	0.00002	0.00002	0.0088	0.0048	1.7	0.0000000	0.0000000	0.000147	0.00003
		1st Quartile	0.0006	0.00054	0.0342	0.0211	27	<0.000010	<0.000010	0.00056	0.00051
		Median	0.00061	0.00056	0.0367	0.0217	28	<0.000010	<0.000010	0.00057	0.00054
		3rd Quartile	0.00061	0.00056	0.0386	0.025	29	<0.000010	<0.000010	0.00058	0.00056

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L
		Average	0.017	0.0119	0.00122	0.00054	18.6	0.00060	0.00050	0.000100	0.000100
WA		Count	16	16	16	16	16	16	16	16	16
E0126402		Minimum	0.011	0.0061	<0.0010	<0.0010	15.0	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.025	0.0237	0.0022	0.0011	22.1	0.0021	<0.0010	<0.00020	<0.00020
	Quinsam River at Argonaut Road Upstream of Mining Operation.	Geometric Mean	0.016	0.0109	0.00107	0.00053	18.5	0.00055	0.00050	0.000100	0.000100
		Count <DL	0	0	5	15	0	15	16	16	16
		Standard Deviation	0.005	0.0051	0.00057	0.00015	1.8	0.00040	0.00000	0.000000	0.000000
		1st Quartile	0.012	0.0078	0.0005	0.0005	18.1	0.0005	0.0005	0.0001	0.0001
		Median	0.016	0.0112	0.0012	0.0005	18.6	0.0005	0.0005	0.0001	0.0001
		3rd Quartile	0.021	0.0162	0.00163	0.0005	19.6	0.0005	0.0005	0.0001	0.0001
WD		Average	0.267	0.0484	0.0625	0.0858	277	0.00168	0.00099	0.0001	0.0001
E207409		Count	6	12	6	12	6	6	12	6	12
		Minimum	0.111	0.0086	0.0208	0.0083	185	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.48	0.23	0.125	0.237	343	0.0037	0.0033	<0.00020	<0.00020
	Settling Pond #4	Geometric Mean	0.231	0.031	0.051	0.057	268	0.00116	0.0008	0.0001	0.0001
		Count <DL	0	0	0	0	0	3	7	6	12
		Standard Deviation	0.158	0.0611	0.041	0.0677	73	0.00148	0.00083	0	0
		1st Quartile	0.173	0.0164	0.0312	0.0235	213	0.0005	0.0005	0.0001	0.0001
		Median	0.195	0.0342	0.055	0.0857	305	0.00105	0.0005	0.0001	0.0001
		3rd Quartile	0.392	0.0399	0.0855	0.1178	334	0.00288	0.00125	0.0001	0.0001
MW006D		Average		0.00250		0.0044			0.00050		0.000100
		Count		2		2			2		2
		Minimum		<0.0050		0.0041			<0.0010		<0.00020
		Maximum		<0.0050		0.0048			<0.0010		<0.00020
	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Geometric Mean		0.00250		0.0044			0.00050		0.000100
		Count <DL		2		0			2		2
		Standard Deviation		0.00000		0.0005			0.00000		0.000000
		1st Quartile		0.0025		0.0043			0.0005		0.0001
		Median		0.0025		0.0044			0.0005		0.0001
		3rd Quartile		0.0025		0.0046			0.0005		0.0001
MW006S		Average		0.0110		0.0520			0.00075		0.000100
		Count		2		2			2		2
		Minimum		0.0072		0.0429			<0.0010		<0.00020
		Maximum		0.0147		0.0611			0.0010		<0.00020
	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Geometric Mean		0.0103		0.0512			0.00071		0.000100
		Count <DL		0		0			1		2
		Standard Deviation		0.0053		0.0129			0.00035		0.000000
		1st Quartile		0.0091		0.0474			0.00062		0.0001
		Median		0.011		0.052			0.00075		0.0001
		3rd Quartile		0.0128		0.0566			0.00088		0.0001

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
WC	2-North Pit Culvert discharge into Middle Quinsam Lake	Average	0.048	0.0174	0.0097	0.0097	218	0.00070	0.00070	0.000100	0.000100
E207411		Count	6	6	6	6	6	6	6	6	6
		Minimum	0.028	0.0095	0.0047	0.0044	135	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.087	0.0261	0.0176	0.0185	333	0.0017	0.0017	<0.00020	<0.00020
		Geometric Mean	0.044	0.0164	0.0085	0.0085	206	0.00061	0.00061	0.000100	0.000100
		Count <DL	0	0	0	0	0	5	5	6	6
		Standard Deviation	0.023	0.0061	0.0053	0.0056	78	0.00049	0.00049	0.000000	0.000000
		1st Quartile	0.031	0.0131	0.0052	0.0053	155	0.0005	0.0005	0.0001	0.0001
		Median	0.042	0.018	0.0085	0.0086	210	0.0005	0.0005	0.0001	0.0001
		3rd Quartile	0.059	0.0203	0.0131	0.0127	265	0.0005	0.0005	0.0001	0.0001
MLQ1	Middle Quinsam Lake 1 metre below surface	Average	0.030	0.0176	0.0070	0.00180	25.9	0.00050	0.00050	0.000100	0.000100
E206618		Count	15	15	15	15	15	15	15	15	15
		Minimum	0.020	0.0117	0.0025	<0.0010	21.3	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.037	0.0212	0.0137	0.0047	31.6	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.029	0.0173	0.0062	0.00145	25.7	0.00050	0.00050	0.000100	0.000100
		Count <DL	0	0	0	3	0	15	15	15	15
		Standard Deviation	0.006	0.0029	0.0032	0.00120	3.0	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.025	0.0166	0.0047	0.00105	24.4	0.0005	0.0005	0.0001	0.0001
		Median	0.03	0.0186	0.007	0.0015	24.8	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.034	0.0196	0.009	0.00275	27.6	0.0005	0.0005	0.0001	0.0001
MLQB	Middle Quinsam Lake 1 metre from bottom	Average	0.035	0.0138	0.0618	0.05707	27.9	0.00050	0.00050	0.000100	0.000100
E206618		Count	15	15	15	15	15	15	15	15	15
		Minimum	0.013	0.0075	0.0024	<0.0010	24.1	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.107	0.0292	0.442	0.425	34.7	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.028	0.0128	0.0090	0.00305	27.8	0.00050	0.00050	0.000100	0.000100
		Count <DL	0	0	0	3	0	15	15	15	15
		Standard Deviation	0.028	0.0064	0.1474	0.14597	2.9	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.019	0.0099	0.0028	0.0012	25.8	0.0005	0.0005	0.0001	0.0001
		Median	0.024	0.0119	0.0063	0.0015	27.5	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.035	0.0144	0.0102	0.0029	29.7	0.0005	0.0005	0.0001	0.0001

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
NNL1											
E217018	No Name Lake 1 metre below surface	Average	0.061	0.0401	0.0042	0.0037	12.7	0.00050	0.00050	0.000100	0.000100
		Count	5	5	5	5	5	5	5	5	5
		Minimum	0.051	0.0362	0.0034	0.0033	12.1	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.065	0.0445	0.0051	0.0041	13.2	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.060	0.0400	0.0041	0.0037	12.7	0.00050	0.00050	0.000100	0.000100
		Count <DL	0	0	0	0	0	5	5	5	5
		Standard Deviation	0.006	0.0031	0.0007	0.0004	0.4	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.06	0.0382	0.0035	0.0034	12.5	<0.0010	<0.0010	<0.00020	<0.00020
		Median	0.063	0.0404	0.0043	0.0037	12.9	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.064	0.0411	0.0047	0.0041	12.9	<0.0010	<0.0010	<0.00020	<0.00020
NNLB	No Name Lake 1 metre from bottom	Average	0.070	0.0411	0.0049	0.0039	13.3	0.00050	0.00050	0.000100	0.000100
E217018		Count	5	5	5	5	5	5	5	5	5
		Minimum	0.060	0.0381	0.0039	0.0031	12.1	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.083	0.0447	0.0061	0.0049	14.2	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.070	0.0410	0.0048	0.0038	13.3	0.00050	0.00050	0.000100	0.000100
		Count <DL	0	0	0	0	0	5	5	5	5
		Standard Deviation	0.008	0.0029	0.0011	0.0008	0.9	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.067	0.0391	0.0041	0.0032	12.8	<0.0010	<0.0010	<0.00020	<0.00020
		Median	0.069	0.0399	0.0043	0.0037	13.3	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.073	0.0437	0.0059	0.0046	14.2	<0.0010	<0.0010	<0.00020	<0.00020
NNO	No Name Lake Outlet	Average	0.070	0.0432	0.0235	0.0218	15.8	0.00054	0.00050	0.000100	0.000371
E217017		Count	14	14	14	14	14	14	14	14	14
		Minimum	0.030	0.0210	0.0028	0.0015	10.2	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.177	0.0884	0.117	0.101	30.5	0.0010	<0.0010	<0.00020	0.00389
		Geometric Mean	0.064	0.0403	0.0079	0.0064	15.0	0.00053	0.00050	0.000100	0.000130
		Count <DL	0	0	0	0	0	13	14	14	13
		Standard Deviation	0.037	0.0174	0.0398	0.0373	5.7	0.00013	0.00000	0.000000	0.001013
		1st Quartile	0.05	0.034	0.0036	0.0027	12.6	0.0005	0.0005	0.0001	0.0001
		Median	0.061	0.0398	0.0044	0.0035	13.6	0.0005	0.0005	0.0001	0.0001
		3rd Quartile	0.08	0.0496	0.0069	0.0065	15.1	0.0005	0.0005	0.0001	0.0001

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LLS	Small Seep into Long Lake	Average	0.764	0.452	0.198	0.209	534	0.0026	0.0027	0.000100	0.000100
E292131		Count	7	7	7	7	7	7	7	7	7
		Minimum	0.141	0.107	0.129	0.139	472	0.0012	0.0013	<0.00020	<0.00020
		Maximum	1.77	0.903	0.248	0.259	653	0.0068	0.0069	<0.00020	<0.00020
		Geometric Mean	0.591	0.329	0.192	0.201	531	0.0021	0.0022	0.000100	0.000100
		Count <DL	0	0	0	0	0	0	0	7	7
		Standard Deviation	0.535	0.348	0.050	0.057	64	0.0020	0.0020	0.000000	0.000000
		1st Quartile	0.412	0.156	0.158	0.152	488	0.0015	0.0014	0.0001	0.0001
		Median	0.82	0.301	0.216	0.252	506	0.0019	0.0021	<0.00020	<0.00020
		3rd Quartile	0.895	0.771	0.238	0.253	567	0.0025	0.0028	0.0001	0.0001
LLSM	Long Lake Middle Seep	Average	0.1990	0.1801	0.07895	0.0902	439	0.00155	0.0015	0.000100	0.000100
E292131		Count	6	6	6	6	6	6	6	6	6
		Minimum	<0.010	0.0212	<0.0010	0.0127	367	<0.0010	0.0010	<0.00020	<0.00020
		Maximum	0.435	0.419	0.172	0.192	497	0.0032	0.0026	<0.00020	<0.00020
		Geometric Mean	0.0962	0.1051	0.02727	0.0597	437	0.00134	0.0015	0.000100	0.000100
		Count <DL	1	0	1	0	0	1	0	6	6
		Standard Deviation	0.1786	0.1642	0.07535	0.0737	46	0.00091	0.0006	0.000000	0.000000
		1st Quartile	0.0582	0.04	0.0145	0.0287	419	0.00122	0.0013	0.0001	0.0001
		Median	0.1865	0.1556	0.0744	0.0832	437	0.0013	0.0014	0.0001	0.0001
		3rd Quartile	0.3208	0.2845	0.137	0.1402	471	0.00167	0.0015	0.0001	0.0001
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average		5.07		1.64			0.00245		0.000425
		Count		4		4			4		4
		Minimum		4.66		1.49			0.0023		<0.00040
		Maximum		5.45		1.80			<0.0050		<0.0010
		Geometric Mean		5.06		1.63			0.00245		0.000398
		Count <DL		0		0			3		4
		Standard Deviation		0.33		0.13			0.00010		0.000150
		1st Quartile		4.91		1.56			0.00245		0.000425
		Median		5.08		1.62			0.0025		0.0005
		3rd Quartile		5.25		1.69			0.0025		0.0005

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.543		0.0469			0.00050		0.000100
		Count		3		3			3		3
		Minimum		0.448		0.0421			<0.0010		<0.00020
		Maximum		0.667		0.0550			<0.0010		<0.00020
		Geometric Mean		0.535		0.0465			0.00050		0.000100
		Count <DL		0		0			3		3
		Standard Deviation		0.112		0.0071			0.00000		0.000000
		1st Quartile		0.481		0.0428			0.0005		0.0001
		Median		0.513		0.0435			<0.0010		<0.00020
		3rd Quartile		0.59		0.0492			0.0005		0.0001
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		4.42		0.368			0.00050		0.000100
		Count		3		3			3		3
		Minimum		4.05		0.324			<0.0010		<0.00020
		Maximum		4.75		0.394			<0.0010		<0.00020
		Geometric Mean		4.41		0.367			0.00050		0.000100
		Count <DL		0		0			3		3
		Standard Deviation		0.35		0.039			0.00000		0.000000
		1st Quartile		4.26		0.356			0.0005		0.0001
		Median		4.47		0.387			<0.0010		<0.00020
		3rd Quartile		4.61		0.39			0.0005		0.0001

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SPD	Settling Pond # 1										
E218582		Average	0.141	0.0875	0.0320	0.02682	395	0.00050	0.00050	0.000100	0.000100
		Count	6	13	6	13	6	6	13	6	13
		Minimum	0.058	0.0203	0.0118	<0.0010	180	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.226	0.250	0.0480	0.0729	550	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.130	0.0711	0.0283	0.01724	368	0.00050	0.00050	0.000100	0.000100
		Count <DL	0	0	0	1	0	6	13	6	13
		Standard Deviation	0.057	0.0608	0.0149	0.01991	148	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.114	0.0605	0.0208	0.011	301	0.0005	<0.0010	0.0001	<0.00020
		Median	0.14	0.0657	0.0363	0.0311	418	0.0005	<0.0010	0.0001	<0.00020
		3rd Quartile	0.167	0.116	0.042	0.0353	514	0.0005	<0.0010	0.0001	<0.00020
LLE	Long Lake Entrance (LLE)	Average	0.355	0.1830	0.0384	0.0407	240	0.00050	0.00050	0.000100	0.000116
E292130		Count	9	9	9	9	9	9	9	9	9
		Minimum	0.089	0.0771	0.0083	0.0086	134	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.981	0.391	0.139	0.151	493	<0.0010	<0.0010	<0.00020	0.00024
		Geometric Mean	0.259	0.1587	0.0240	0.0244	216	0.00050	0.00050	0.000100	0.000110
		Count <DL	0	0	0	0	0	9	9	9	8
		Standard Deviation	0.300	0.1072	0.0453	0.0499	124	0.00000	0.00000	0.000000	0.000047
		1st Quartile	0.131	0.103	0.0149	0.0145	144	<0.0010	<0.0010	<0.00020	<0.00020
		Median	0.217	0.153	0.0202	0.0175	179	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.461	0.247	0.027	0.029	265	<0.0010	<0.0010	<0.00020	<0.00020
LLM1	Long Lake Middle 1 metre below Surface	Average	0.034	0.0255	0.0072	0.00351	60.3	0.00058	0.00050	0.000108	0.000100
E206619		Count	15	15	15	15	15	15	15	15	15
		Minimum	0.016	0.0084	0.0036	<0.0010	30.6	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.057	0.0419	0.0118	0.0088	94.9	0.0017	<0.0010	0.00022	<0.00020
		Geometric Mean	0.031	0.0217	0.0067	0.00237	57.5	0.00054	0.00050	0.000105	0.000100
		Count <DL	0	0	0	3	0	14	15	14	15
		Standard Deviation	0.015	0.0128	0.0027	0.00283	18.8	0.00031	0.00000	0.000031	0.000000
		1st Quartile	0.022	0.0109	0.0051	0.0014	50.6	0.0005	0.0005	0.0001	0.0001
		Median	0.028	0.0296	0.0071	0.0022	54.6	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.05	0.035	0.0084	0.0056	74.2	0.0005	0.0005	0.0001	0.0001
LLMB	Long Lake Middle 1 metre From Bottom	Average	0.055	0.0152	0.2792	0.15675	103.5	0.00050	0.00050	0.000100	0.000100
E206619		Count	15	15	15	15	15	15	15	15	15
		Minimum	0.018	0.0057	0.0066	<0.0010	84.5	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.112	0.0345	0.792	0.509	117	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.050	0.0133	0.1519	0.03773	103.1	0.00050	0.00050	0.000100	0.000100
		Count <DL	0	0	0	1	0	15	15	15	15
		Standard Deviation	0.023	0.0078	0.2756	0.18097	9.7	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.042	0.0081	0.0779	0.00395	101	0.0005	0.0005	0.0001	0.0001
		Median	0.057	0.0156	0.163	0.0839	104	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.063	0.0192	0.461	0.2225	111.5	0.0005	0.0005	0.0001	0.0001

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LLO E219412	Long Lake Outlet	Average	0.045	0.02750	0.0386	0.0336	59.9	0.00072	0.00050	0.000100	0.000100
		Count	14	14	14	14	14	14	14	14	14
		Minimum	0.010	<0.0050	0.0043	0.0014	35.2	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.097	0.0495	0.431	0.372	90.8	0.0036	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.037	0.02001	0.0093	0.0060	57.7	0.00058	0.00050	0.000100	0.000100
		Count <DL	0	1	0	0	0	13	14	14	14
		Standard Deviation	0.027	0.01723	0.1132	0.0981	17.4	0.00083	0.00000	0.000000	0.000000
		1st Quartile	0.019	0.00882	0.0049	0.003	48.6	0.0005	0.0005	0.0001	0.0001
		Median	0.053	0.03665	0.0064	0.0045	57.4	0.0005	0.0005	0.0001	0.0001
		3rd Quartile	0.061	0.04208	0.0087	0.0062	67.8	0.0005	0.0005	0.0001	0.0001
WB E0900504	Middle Quinsam Lake Outlet	Average	0.032	0.0197	0.0076	0.0026	29.0	0.00050	0.00050	0.000100	0.000100
		Count	16	16	16	16	16	16	16	16	16
		Minimum	0.023	0.0150	0.0027	0.0014	24.0	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.043	0.0265	0.0145	0.0040	38.0	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.031	0.0194	0.0065	0.0025	28.8	0.00050	0.00050	0.000100	0.000100
		Count <DL	0	0	0	0	0	16	16	16	16
		Standard Deviation	0.007	0.0040	0.0040	0.0008	3.9	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.026	0.0165	0.0033	0.0021	26	0.0005	0.0005	0.0001	0.0001
		Median	0.032	0.0184	0.0084	0.0025	29.1	0.0005	0.0005	0.0001	0.0001
		3rd Quartile	0.036	0.0241	0.0102	0.0028	31	0.0005	0.0005	0.0001	0.0001
7SSD E292069	Settling Pond at 7S- Discharge to Stream 1 - 7S	Average	0.326	0.1075	0.3322	0.2979	133.2	0.00050	0.00050	0.000235	0.000100
		Count	4	4	4	4	4	4	4	4	4
		Minimum	0.028	0.0209	0.0272	0.0273	85.6	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.838	0.355	0.922	0.908	162	<0.0010	<0.0010	0.00064	<0.00020
		Geometric Mean	0.171	0.0483	0.1362	0.1140	129.4	0.00050	0.00050	0.000159	0.000100
		Count <DL	0	0	0	0	0	4	4	3	4
		Standard Deviation	0.364	0.1650	0.4187	0.4172	34.1	0.00000	0.00000	0.000270	0.000000
		1st Quartile	0.09	0.0253	0.0372	0.0295	120.4	0.0005	0.0005	0.0001	0.0001
		Median	0.218	0.027	0.1898	0.1281	142.5	0.0005	0.0005	0.0001	0.0001
		3rd Quartile	0.453	0.1093	0.4848	0.3965	155.2	0.0005	0.0005	0.000235	0.0001
7S E292109	Stream 1-7S discharge to LWO	Average	0.0078	0.00776	0.00050	0.00050	14.4	0.00050	0.00050	0.000100	0.000100
		Count	8	8	8	8	8	8	8	8	8
		Minimum	<0.010	<0.0050	<0.0010	<0.0010	11.3	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.020	0.0123	<0.0010	<0.0010	18.1	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.0066	0.00703	0.00050	0.00050	14.2	0.00050	0.00050	0.000100	0.000100
		Count <DL	6	1	8	8	0	8	8	8	8
		Standard Deviation	0.0055	0.00332	0.00000	0.00000	2.4	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.005	0.00602	0.0005	0.0005	12.6	0.0005	0.0005	0.0001	0.0001
		Median	0.005	0.0069	0.0005	0.0005	14.2	0.0005	0.0005	0.0001	0.0001
		3rd Quartile	0.0068	0.0103	0.0005	0.0005	15.8	0.0005	0.0005	0.0001	0.0001

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics											
Stn.Code											
EMS. ID	Site Name & Description	Statistic	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU0813A	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (No. 4 Seam)	Average		0.205		0.0357			0.00050		0.000100
		Count		5		5			5		5
		Minimum		0.174		0.0337			<0.0010		<0.00020
		Maximum		0.248		0.0396			<0.0010		<0.00020
		Geometric Mean		0.204		0.0356			0.00050		0.000100
		Count <DL		0		0			5		5
		Standard Deviation		0.031		0.0023			0.00000		0.000000
		1st Quartile		0.177		0.0348			<0.0010		<0.00020
		Median		0.204		0.0348			<0.0010		<0.00020
		3rd Quartile		0.224		0.0355			<0.0010		<0.00020
QU0813B	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (Till & SST contact)	Average		0.235		0.0837			0.00050		0.000100
		Count		5		5			5		5
		Minimum		0.154		0.0725			<0.0010		<0.00020
		Maximum		0.349		0.0988			<0.0010		<0.00020
		Geometric Mean		0.224		0.0833			0.00050		0.000100
		Count <DL		0		0			5		5
		Standard Deviation		0.081		0.0096			0.00000		0.000000
		1st Quartile		0.186		0.0798			<0.0010		<0.00020
		Median		0.197		0.0825			<0.0010		<0.00020
		3rd Quartile		0.287		0.0848			<0.0010		<0.00020
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average		1.510		0.1240			0.00250		0.00050
		Count		4		4			4		4
		Minimum		0.908		0.0469			<0.0050		<0.0010
		Maximum		1.94		0.161			<0.0050		<0.0010
		Geometric Mean		1.454		0.1115			0.00250		0.00050
		Count <DL		0		0			4		4
		Standard Deviation		0.440		0.0536			0.00000		0.00000
		1st Quartile		1.352		0.1077			0.0025		0.0005
		Median		1.595		0.144			0.0025		0.0005
		3rd Quartile		1.752		0.1602			0.0025		0.0005
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average		0.608		0.0519			0.00050		0.000100
		Count		4		4			4		4
		Minimum		0.340		0.0297			<0.0010		<0.00020
		Maximum		1.14		0.0702			<0.0010		<0.00020
		Geometric Mean		0.539		0.0492			0.00050		0.000100
		Count <DL		0		0			4		4
		Standard Deviation		0.369		0.0184			0.00000		0.000000
		1st Quartile		0.37		0.0407			0.0005		0.0001
		Median		0.476		0.0539			0.0005		0.0001
		3rd Quartile		0.715		0.0651			0.0005		0.0001

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L
QU1010D		Average		8.52		0.406			0.00150		0.000300
		Count		2		2			2		2
		Minimum		8.45		0.403			<0.0010		<0.00020
		Maximum		8.60		0.408			<0.0050		<0.0010
		Geometric Mean		8.52		0.405			0.00112		0.000224
		Count <DL		0		0			2		2
		Standard Deviation		0.11		0.004			0.00141		0.000283
		1st Quartile		8.49		0.404			0.001		0.0002
		Median		8.52		0.406			0.0015		0.0003
		3rd Quartile		8.56		0.407			0.002		0.0004
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average		0.176		0.0250			0.00050		0.000100
		Count		2		2			2		2
		Minimum		0.139		0.0203			<0.0010		<0.00020
		Maximum		0.212		0.0297			<0.0010		<0.00020
		Geometric Mean		0.172		0.0246			0.00050		0.000100
		Count <DL		0		0			2		2
		Standard Deviation		0.052		0.0066			0.00000		0.000000
		1st Quartile		0.157		0.0226			0.0005		0.0001
		Median		0.176		0.025			0.0005		0.0001
		3rd Quartile		0.194		0.0274			0.0005		0.0001
QU1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.0050		0.308			0.00100		0.000200
		Count		1		1			1		1
		Minimum		<0.010		0.308			<0.0020		<0.00040
		Maximum		<0.010		0.308			<0.0020		<0.00040
		Geometric Mean		0.0050		0.308			0.00100		0.000200
		Count <DL		1		0			1		1
		Standard Deviation		0.0000		0.000			0.00000		0.000000
		1st Quartile		<0.010		0.308			<0.0020		<0.00040
		Median		<0.010		0.308			<0.0020		<0.00040
		3rd Quartile		<0.010		0.308			<0.0020		<0.00040
QU1011S	Ex-situ 2-North shallow groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average		0.101		0.0281			0.00050		0.000100
		Count		1		1			1		1
		Minimum		0.101		0.0281			<0.0010		<0.00020
		Maximum		0.101		0.0281			<0.0010		<0.00020
		Geometric Mean		0.101		0.0281			0.00050		0.000100
		Count <DL		0		0			1		1
		Standard Deviation		0.000		0.0000			0.00000		0.000000
		1st Quartile		0.101		0.0281			<0.0010		<0.00020
		Median		0.101		0.0281			<0.0010		<0.00020
		3rd Quartile		0.101		0.0281			<0.0010		<0.00020

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T	Fe-D	Mn-T	Mn-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU1105S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.972		0.0983			0.00050		0.000128
		Count		4		4			4		4
		Minimum		0.175		0.0202			<0.0010		<0.00020
		Maximum		3.16		0.279			<0.0010		0.00021
		Geometric Mean		0.454		0.0585			0.00050		0.000120
		Count <DL		0		0			4		3
		Standard Deviation		1.459		0.1215			0.00000		0.000055
		1st Quartile		0.247		0.0318			0.0005		0.0001
		Median		0.277		0.047			0.0005		0.0001
		3rd Quartile		1.002		0.1134			0.0005		0.000128
QU1109S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.0720		0.0210			0.00083		0.000167
		Count		3		3			3		3
		Minimum		0.0409		0.0189			<0.0010		<0.00020
		Maximum		0.098		0.0240			<0.0020		<0.00040
		Geometric Mean		0.0676		0.0209			0.00079		0.000159
		Count <DL		0		0			3		3
		Standard Deviation		0.0289		0.0027			0.00029		0.000058
		1st Quartile		0.059		0.0195			0.00075		0.00015
		Median		0.077		0.0202			<0.0020		<0.00040
		3rd Quartile		0.0875		0.0221			0.001		0.0002
7SQR E292113	7-South Quinsam River downstream of 7-South Mining Operation	Average	0.087	0.0556	0.0059	0.0051	28.8	0.00129	0.00050	0.000100	0.000100
		Count	16	16	16	16	16	16	16	16	16
		Minimum	0.052	0.0350	0.0033	0.0024	25.3	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.117	0.0837	0.0088	0.0072	33.8	0.0125	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.085	0.0542	0.0057	0.0049	28.7	0.00064	0.00050	0.000100	0.000100
		Count <DL	0	0	0	0	0	14	16	16	16
		Standard Deviation	0.020	0.0127	0.0016	0.0015	2.8	0.00299	0.00000	0.000000	0.000000
		1st Quartile	0.074	0.048	0.0049	0.0038	26.5	0.0005	0.0005	0.0001	0.0001
		Median	0.084	0.0556	0.0055	0.0052	28.5	0.0005	0.0005	0.0001	0.0001
		3rd Quartile	0.106	0.0614	0.0073	0.0064	30.7	0.0005	0.0005	0.0001	0.0001

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L
LQL1 E292118	Lower Quinsam Lake 1 metre below surface	Average	0.076	0.0399	0.0045	0.0023	28.2	0.00050	0.00050	0.000100	0.000100
		Count	5	5	5	5	5	5	5	5	5
		Minimum	0.065	0.0357	0.0037	0.0017	26.5	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.092	0.0423	0.0053	0.0031	29.2	<0.0010	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.076	0.0399	0.0044	0.0022	28.2	0.00050	0.00050	0.000100	0.000100
		Count <DL	0	0	0	0	0	5	5	5	5
		Standard Deviation	0.012	0.0025	0.0007	0.0006	1.1	0.00000	0.00000	0.000000	0.000000
		1st Quartile	0.069	0.0402	0.0039	0.0018	27.8	<0.0010	<0.0010	<0.00020	<0.00020
		Median	0.07	0.0403	0.0044	0.0024	28.4	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.085	0.0412	0.0051	0.0024	29	<0.0010	<0.0010	<0.00020	<0.00020
LQLB E292118	LQLB 1 metre from Bottom	Average	0.091	0.0440	0.0055	0.0025	28.3	0.00072	0.00050	0.000100	0.000100
		Count	5	5	5	5	5	5	5	5	5
		Minimum	0.081	0.0395	0.0046	0.0015	26.4	<0.0010	<0.0010	<0.00020	<0.00020
		Maximum	0.097	0.0492	0.0067	0.0049	29.1	0.0016	<0.0010	<0.00020	<0.00020
		Geometric Mean	0.090	0.0438	0.0054	0.0023	28.3	0.00063	0.00050	0.000100	0.000100
		Count <DL	0	0	0	0	0	4	5	5	5
		Standard Deviation	0.006	0.0040	0.0009	0.0014	1.1	0.00049	0.00000	0.000000	0.000000
		1st Quartile	0.088	0.0416	0.0048	0.0019	28.3	<0.0010	<0.0010	<0.00020	<0.00020
		Median	0.092	0.0427	0.0052	0.0021	28.9	<0.0010	<0.0010	<0.00020	<0.00020
		3rd Quartile	0.095	0.0468	0.0061	0.0023	28.9	<0.0010	<0.0010	<0.00020	<0.00020

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	N-NO23 mg/L	N-NH3 mg/L
WA E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	1.09	0.00250	0.00250	0.0100	0.0075
		Count	16	16	16	1	1
		Minimum	<1.0	<0.0050	<0.0050	<0.020	<0.015
		Maximum	1.6	<0.0050	<0.0050	<0.020	<0.015
		Geometric Mean	1.01	0.00250	0.00250	0.0100	0.0075
		Count <DL	4	16	16	1	1
		Standard Deviation	0.38	0.00000	0.00000	0.0000	0.0000
		1st Quartile	0.95	0.0025	0.0025	<0.020	<0.015
		Median	1.2	0.0025	0.0025	<0.020	<0.015
		3rd Quartile	1.32	0.0025	0.0025	<0.020	<0.015
WD E207409	Settling Pond #4	Average	372	0.0025	0.0025		
		Count	49	6	12		
		Minimum	160	<0.0050	<0.0050		
		Maximum	570	<0.0050	<0.0050		
		Geometric Mean	353	0.0025	0.0025		
		Count <DL	0	6	12		
		Standard Deviation	105	0	0		
		1st Quartile	340	0.0025	0.0025		
		Median	380	0.0025	0.0025		
		3rd Quartile	440	0.0025	0.0025		
MW006D	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average	11.0		0.00250		
		Count	2		2		
		Minimum	11		<0.0050		
		Maximum	11		<0.0050		
		Geometric Mean	11.0		0.00250		
		Count <DL	0		2		
		Standard Deviation	0.0		0.00000		
		1st Quartile	11		0.0025		
		Median	11		0.0025		
		3rd Quartile	11		0.0025		
MW006S	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average	460.0				
		Count	2		0.00250		
		Minimum	430		2		
		Maximum	490		<0.0050		
		Geometric Mean	459.0		<0.0050		
		Count <DL	0		0.00250		
		Standard Deviation	42.4		2		
		1st Quartile	445		0.00000		
		Median	460		0.0025		
		3rd Quartile	475		0.0025		

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D	Zn-T	Zn-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L
WC	2-North Pit Culvert discharge into Middle Quinsam Lake	Average	309	0.00250	0.00250		
E207411		Count	13	6	6		
		Minimum	170	<0.0050	<0.0050		
		Maximum	470	<0.0050	<0.0050		
		Geometric Mean	294	0.00250	0.00250		
		Count <DL	0	6	6		
		Standard Deviation	95	0.00000	0.00000		
		1st Quartile	210	0.0025	0.0025		
		Median	340	0.0025	0.0025		
		3rd Quartile	360	0.0025	0.0025		
MQL1	Middle Quinsam Lake 1 metre below surface	Average	12.1	0.00250	0.00250	0.0100	
E206618		Count	15	15	15	15	
		Minimum	7.4	<0.0050	<0.0050	<0.020	
		Maximum	21	<0.0050	<0.0050	<0.020	
		Geometric Mean	11.2	0.00250	0.00250	0.0100	
		Count <DL	0	15	15	15	
		Standard Deviation	5.2	0.00000	0.00000	0.0000	
		1st Quartile	7.8	0.0025	0.0025	0.01	
		Median	9.5	<0.0050	<0.0050	<0.020	
		3rd Quartile	17.5	0.0025	0.0025	0.01	
MQLB	Middle Quinsam Lake 1 metre from bottom	Average	15.4	0.00250	0.00250	0.0100	
E206618		Count	15	15	15	15	
		Minimum	7.4	<0.0050	<0.0050	<0.020	
		Maximum	20	<0.0050	<0.0050	<0.020	
		Geometric Mean	14.6	0.00250	0.00250	0.0100	
		Count <DL	0	15	15	15	
		Standard Deviation	4.4	0.00000	0.00000	0.0000	
		1st Quartile	14	0.0025	0.0025	0.01	
		Median	17	<0.0050	<0.0050	<0.020	
		3rd Quartile	18.5	0.0025	0.0025	0.01	

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	N-NO23 mg/L	N-NH3 mg/L
NNL1 E217018	No Name Lake 1 metre below surface	Average	2.2	0.00250	0.00250	0.0320	
		Count	5	5	5	5	
		Minimum	1.9	<0.0050	<0.0050	<0.020	
		Maximum	2.7	<0.0050	<0.0050	0.059	
		Geometric Mean	2.2	0.00250	0.00250	0.0277	
		Count <DL	0	5	5	1	
		Standard Deviation	0.3	0.00000	0.00000	0.0175	
		1st Quartile	1.9	<0.0050	<0.0050	0.029	
		Median	2.2	<0.0050	<0.0050	0.03	
		3rd Quartile	2.4	<0.0050	<0.0050	0.032	
NNLB E217018	No Name Lake 1 metre from bottom	Average	2.9	0.00250	0.00250	0.031	
		Count	5	5	5	5	
		Minimum	2.3	<0.0050	<0.0050	0.026	
		Maximum	4.2	<0.0050	<0.0050	0.035	
		Geometric Mean	2.8	0.00250	0.00250	0.031	
		Count <DL	0	5	5	0	
		Standard Deviation	0.8	0.00000	0.00000	0.004	
		1st Quartile	2.4	<0.0050	<0.0050	0.029	
		Median	2.5	<0.0050	<0.0050	0.031	
		3rd Quartile	2.9	<0.0050	<0.0050	0.035	
NNO E217017	No Name Lake Outlet	Average	2.04	0.00250	0.00250	0.028	0.0075
		Count	14	14	14	1	1
		Minimum	<1.0	<0.0050	<0.0050	0.028	<0.015
		Maximum	2.9	<0.0050	<0.0050	0.028	<0.015
		Geometric Mean	1.91	0.00250	0.00250	0.028	0.0075
		Count <DL	1	14	14	0	1
		Standard Deviation	0.60	0.00000	0.00000	0.000	0.0000
		1st Quartile	1.82	0.0025	0.0025	0.028	<0.015
		Median	2.1	0.0025	0.0025	0.028	<0.015
		3rd Quartile	2.38	0.0025	0.0025	0.028	<0.015

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D	Zn-T	Zn-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L
LLS	Small Seep into Long Lake	Average	495	0.00293	0.00250		
E292131		Count	7	7	7		
		Minimum	450	<0.0050	<0.0050		
		Maximum	590	0.0055	<0.0050		
		Geometric Mean	493	0.00280	0.00250		
		Count <DL	0	6	7		
		Standard Deviation	51	0.00113	0.00000		
		1st Quartile	465	0.0025	0.0025		
		Median	480	<0.0050	<0.0050		
		3rd Quartile	510	0.0025	0.0025		
LLSM	Long Lake Middle Seep	Average	403	0.00250	0.00250		
E292131		Count	6	6	6		
		Minimum	340	<0.0050	<0.0050		
		Maximum	440	<0.0050	<0.0050		
		Geometric Mean	402	0.00250	0.00250		
		Count <DL	0	6	6		
		Standard Deviation	33	0.00000	0.00000		
		1st Quartile	402	0.0025	0.0025		
		Median	410	0.0025	0.0025		
		3rd Quartile	417	0.0025	0.0025		
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average	1225		0.0106		
		Count	4		4		
		Minimum	1200		<0.010		
		Maximum	1300		<0.025		
		Geometric Mean	1224		0.0099		
		Count <DL	0		4		
		Standard Deviation	50		0.0037		
		1st Quartile	1200		0.0106		
		Median	1200		0.0125		
		3rd Quartile	1225		0.0125		

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	N-NO23 mg/L	N-NH3 mg/L
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	64.0		0.00250		
		Count	3		3		
		Minimum	62		<0.0050		
		Maximum	66		<0.0050		
		Geometric Mean	64.0		0.00250		
		Count <DL	0		3		
		Standard Deviation	2.0		0.00000		
		1st Quartile	63		0.0025		
		Median	64		<0.0050		
		3rd Quartile	65		0.0025		
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	99.7		0.00250		
		Count	3		3		
		Minimum	99		<0.0050		
		Maximum	100		<0.0050		
		Geometric Mean	99.7		0.00250		
		Count <DL	0		3		
		Standard Deviation	0.6		0.00000		
		1st Quartile	99.5		0.0025		
		Median	100		<0.0050		
		3rd Quartile	100		0.0025		

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D	Zn-T	Zn-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L
SPD	Settling Pond # 1						
E218582		Average	364	0.00250	0.00270		
		Count	47	6	13		
		Minimum	93	<0.0050	<0.0050		
		Maximum	580	<0.0050	0.0051		
		Geometric Mean	334	0.00250	0.00264		
		Count <DL	0	6	12		
		Standard Deviation	138	0.00000	0.00072		
		1st Quartile	265	0.0025	<0.0050		
		Median	350	0.0025	<0.0050		
		3rd Quartile	505	0.0025	<0.0050		
LLE	Long Lake Entrance (LLE)	Average	227	0.00250	0.00332	0.0514	0.0075
E292130		Count	39	9	9	9	9
		Minimum	82	<0.0050	<0.0050	<0.020	<0.015
		Maximum	530	<0.0050	0.0099	0.244	<0.015
		Geometric Mean	196	0.00250	0.00291	0.0282	0.0075
		Count <DL	0	9	8	3	9
		Standard Deviation	132	0.00000	0.00247	0.0750	0.0000
		1st Quartile	135	<0.0050	<0.0050	<0.020	<0.015
		Median	160	<0.0050	<0.0050	0.025	<0.015
		3rd Quartile	300	<0.0050	<0.0050	0.042	<0.015
LLM1	Long Lake Middle 1 metre below Surface	Average	50.7	0.00321	0.00250	0.0288	
E206619		Count	15	15	15	15	
		Minimum	21	<0.0050	<0.0050	<0.020	
		Maximum	77	0.0132	<0.0050	0.089	
		Geometric Mean	47.7	0.00279	0.00250	0.0217	
		Count <DL	0	14	15	6	
		Standard Deviation	16.9	0.00276	0.00000	0.0239	
		1st Quartile	43.5	0.0025	0.0025	0.01	
		Median	47	<0.0050	<0.0050	0.023	
		3rd Quartile	65.5	0.0025	0.0025	0.0335	
LLMB	Long Lake Middle 1 metre From Bottom	Average	92.3	0.00250	0.00277	0.1223	
E206619		Count	15	15	15	15	
		Minimum	72	<0.0050	<0.0050	<0.020	
		Maximum	100	<0.0050	0.0065	0.767	
		Geometric Mean	91.9	0.00250	0.00266	0.0807	
		Count <DL	0	15	14	1	
		Standard Deviation	8.6	0.00000	0.00103	0.1799	
		1st Quartile	90.5	0.0025	0.0025	0.0665	
		Median	95	<0.0050	<0.0050	0.086	
		3rd Quartile	99.5	0.0025	0.0025	0.092	

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D	Zn-T	Zn-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L
LLO	Long Lake Outlet	Average	48.4	0.00250	0.00250	0.0100	0.0075
E219412		Count	14	14	14	1	1
		Minimum	28	<0.0050	<0.0050	<0.020	<0.015
		Maximum	78	<0.0050	<0.0050	<0.020	<0.015
		Geometric Mean	46.0	0.00250	0.00250	0.0100	0.0075
		Count <DL	0	14	14	1	1
		Standard Deviation	16.7	0.00000	0.00000	0.0000	0.0000
		1st Quartile	37.5	0.0025	0.0025	<0.020	<0.015
		Median	43	0.0025	0.0025	<0.020	<0.015
		3rd Quartile	50	0.0025	0.0025	<0.020	<0.015
WB	Middle Quinsam Lake Outlet	Average	15.7	0.00250	0.00250	0.0100	0.0075
E0900504		Count	16	16	16	1	1
		Minimum	7.9	<0.0050	<0.0050	<0.020	<0.015
		Maximum	27	<0.0050	<0.0050	<0.020	<0.015
		Geometric Mean	14.3	0.00250	0.00250	0.0100	0.0075
		Count <DL	0	16	16	1	1
		Standard Deviation	7.0	0.00000	0.00000	0.0000	0.0000
		1st Quartile	9.5	0.0025	0.0025	<0.020	<0.015
		Median	12	0.0025	0.0025	<0.020	<0.015
		3rd Quartile	22.5	0.0025	0.0025	<0.020	<0.015
7SSD	Settling Pond at 7S- Discharge to Stream 1 - 7S	Average	15.7	0.00250	0.00250		
E292069		Count	4	4	4		
		Minimum	6.7	<0.0050	<0.0050		
		Maximum	25	<0.0050	<0.0050		
		Geometric Mean	13.9	0.00250	0.00250		
		Count <DL	0	4	4		
		Standard Deviation	8.3	0.00000	0.00000		
		1st Quartile	9.9	0.0025	0.0025		
		Median	15.5	0.0025	0.0025		
		3rd Quartile	21.2	0.0025	0.0025		
7S	Stream 1-7S discharge to LWO	Average	2.9	0.00250	0.00250		
E292109		Count	8	8	8		
		Minimum	1.8	<0.0050	<0.0050		
		Maximum	4.2	<0.0050	<0.0050		
		Geometric Mean	2.8	0.00250	0.00250		
		Count <DL	0	8	8		
		Standard Deviation	0.8	0.00000	0.00000		
		1st Quartile	2.2	0.0025	0.0025		
		Median	2.8	0.0025	0.0025		
		3rd Quartile	3.4	0.0025	0.0025		

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	N-NO23 mg/L	N-NH3 mg/L
QU0813A	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (No. 4 Seam)	Average	55.6		0.00250		
		Count	5		5		
		Minimum	46		<0.0050		
		Maximum	66		<0.0050		
		Geometric Mean	55.1		0.00250		
		Count <DL	0		5		
		Standard Deviation	8.1		0.00000		
		1st Quartile	50		<0.0050		
		Median	55		<0.0050		
		3rd Quartile	61		<0.0050		
QU0813B	Ex-situ 7-South groundwater well down gradient of the CCR backfill towards QR (Till & SST contact)	Average	66.4		0.00250		
		Count	5		5		
		Minimum	33		<0.0050		
		Maximum	110		<0.0050		
		Geometric Mean	60.0		0.00250		
		Count <DL	0		5		
		Standard Deviation	33.0		0.00000		
		1st Quartile	44		<0.0050		
		Median	53		<0.0050		
		3rd Quartile	92		<0.0050		
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average	0.50		0.0125		
		Count	4		4		
		Minimum	<1.0		<0.025		
		Maximum	<1.0		<0.025		
		Geometric Mean	0.50		0.0125		
		Count <DL	4		4		
		Standard Deviation	0.00		0.0000		
		1st Quartile	0.5		0.0125		
		Median	0.5		0.0125		
		3rd Quartile	0.5		0.0125		
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average	0.50		0.00250		
		Count	4		4		
		Minimum	<1.0		<0.0050		
		Maximum	<1.0		<0.0050		
		Geometric Mean	0.50		0.00250		
		Count <DL	4		4		
		Standard Deviation	0.00		0.00000		
		1st Quartile	0.5		0.0025		
		Median	0.5		0.0025		
		3rd Quartile	0.5		0.0025		

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D	Zn-T	Zn-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L
QU1010D		Average	0.50		0.00750		
		Count	2		2		
		Minimum	<1.0		<0.0050		
		Maximum	<1.0		<0.025		
		Geometric Mean	0.50		0.00559		
		Count <DL	2		2		
		Standard Deviation	0.00		0.00707		
		1st Quartile	0.5		0.005		
		Median	0.5		0.0075		
		3rd Quartile	0.5		0.01		
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average	0.50		0.00250		
		Count	2		2		
		Minimum	<1.0		<0.0050		
		Maximum	<1.0		<0.0050		
		Geometric Mean	0.50		0.00250		
		Count <DL	2		2		
		Standard Deviation	0.00		0.00000		
		1st Quartile	0.5		0.0025		
		Median	0.5		0.0025		
		3rd Quartile	0.5		0.0025		
QU1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average	0.50		0.0050		
		Count	1		1		
		Minimum	<1.0		<0.010		
		Maximum	<1.0		<0.010		
		Geometric Mean	0.50		0.0050		
		Count <DL	1		1		
		Standard Deviation	0.00		0.0000		
		1st Quartile	<1.0		<0.010		
		Median	<1.0		<0.010		
		3rd Quartile	<1.0		<0.010		
QU1011S	Ex-situ 2-North shallow groundwater well. Measures water quality & hydraulic gradient in Forjian Fault (Fractured sandstone).	Average	2.6		0.00250		
		Count	1		1		
		Minimum	2.6		<0.0050		
		Maximum	2.6		<0.0050		
		Geometric Mean	2.6		0.00250		
		Count <DL	0		1		
		Standard Deviation	0.0		0.00000		
		1st Quartile	2.6		<0.0050		
		Median	2.6		<0.0050		
		3rd Quartile	2.6		<0.0050		

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D	Zn-T	Zn-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L
QU1105S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	74		0.00250		
		Count	4		4		
		Minimum	18		<0.0050		
		Maximum	190		<0.0050		
		Geometric Mean	51		0.00250		
		Count <DL	0		4		
		Standard Deviation	78		0.00000		
		1st Quartile	31		0.0025		
		Median	45		0.0025		
		3rd Quartile	88		0.0025		
QU1109S	Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	120.0		0.00417		
		Count	3		3		
		Minimum	100		<0.0050		
		Maximum	140		<0.010		
		Geometric Mean	118.9		0.00397		
		Count <DL	0		3		
		Standard Deviation	20.0		0.00144		
		1st Quartile	110		0.00375		
		Median	120		<0.010		
		3rd Quartile	130		0.005		
7SQR	7-South Quinsam River downstream of 7-South Mining Operation	Average	15.1	0.00250	0.00250	0.025	0.0075
E292113		Count	16	16	16	1	1
		Minimum	8.9	<0.0050	<0.0050	0.025	<0.015
		Maximum	24	<0.0050	<0.0050	0.025	<0.015
		Geometric Mean	14.3	0.00250	0.00250	0.025	0.0075
		Count <DL	0	16	16	0	1
		Standard Deviation	5.2	0.00000	0.00000	0.000	0.0000
		1st Quartile	11	0.0025	0.0025	0.025	<0.015
		Median	13	0.0025	0.0025	0.025	<0.015
		3rd Quartile	20	0.0025	0.0025	0.025	<0.015

Notes:

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Table 48 Statistics 2023-24 33 Page(s)

2023 -24 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	N-NO23 mg/L	N-NH3 mg/L
LQL1	Lower Quinsam Lake 1 metre below surface	Average	14.0	0.00250	0.00250	0.0230	
E292118		Count	5	5	5	5	
		Minimum	11	<0.0050	<0.0050	<0.020	
		Maximum	17	<0.0050	<0.0050	0.049	
		Geometric Mean	13.8	0.00250	0.00250	0.0192	
		Count <DL	0	5	5	2	
		Standard Deviation	2.4	0.00000	0.00000	0.0159	
		1st Quartile	12	<0.0050	<0.0050	<0.020	
		Median	15	<0.0050	<0.0050	0.022	
		3rd Quartile	15	<0.0050	<0.0050	0.024	
LQLB	LQLB 1 metre from Bottom	Average	14.6	0.00250	0.00250	0.0216	
E292118		Count	5	5	5	5	
		Minimum	13	<0.0050	<0.0050	<0.020	
		Maximum	18	<0.0050	<0.0050	0.043	
		Geometric Mean	14.5	0.00250	0.00250	0.0185	
		Count <DL	0	5	5	2	
		Standard Deviation	2.1	0.00000	0.00000	0.0135	
		1st Quartile	13	<0.0050	<0.0050	<0.020	
		Median	14	<0.0050	<0.0050	0.021	
		3rd Quartile	15	<0.0050	<0.0050	0.024	

Notes:

Factor applied to less-than results when calculating statistics: 0.5. Bold indicates factored values.

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
25C	3-Oct-23	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0	1.00
25C	3-Oct-23	Ag-T	mg/L	0.00002	0.00004	<0.000020	<0.000040	67	0.50
25C	3-Oct-23	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0	1.00
25C	3-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
25C	3-Oct-23	Alk-T	mg/L	1	1	200	200	0	1.00
25C	3-Oct-23	Al-T	mg/L	0.003	0.006	<0.0030	<0.0060	67	0.50
25C	3-Oct-23	As-D	mg/L	0.0002	0.0002	0.00028	0.00032	13	0.88
25C	3-Oct-23	As-T	mg/L	0.0001	0.0002	0.00028	0.00025	11	1.12
25C	3-Oct-23	Ba-D	mg/L	0.002	0.002	0.0144	0.0155	7	0.93
25C	3-Oct-23	Ba-T	mg/L	0.001	0.002	0.0136	0.0135	1	1.01
25C	3-Oct-23	B-D	mg/L	0.1	0.1	0.50	0.57	13	0.88
25C	3-Oct-23	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
25C	3-Oct-23	Be-T	mg/L	0.0001	0.0002	<0.00010	<0.00020	67	0.50
25C	3-Oct-23	B-T	mg/L	0.05	0.1	0.432	0.47	8	0.92
25C	3-Oct-23	Ca-D	mg/L	0.1	0.1	256	274	7	0.93
25C	3-Oct-23	Ca-T	mg/L	0.05	0.1	231	244	6	0.95
25C	3-Oct-23	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
25C	3-Oct-23	Cd-T	mg/L	0.00001	0.00002	<0.000010	<0.000020	67	0.50
25C	3-Oct-23	Co-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
25C	3-Oct-23	Co-T	mg/L	0.0002	0.0004	<0.00020	<0.00040	67	0.50
25C	3-Oct-23	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
25C	3-Oct-23	Cr-T	mg/L	0.001	0.002	<0.0010	<0.0020	67	0.50
25C	3-Oct-23	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
25C	3-Oct-23	Cu-T	mg/L	0.0005	0.001	<0.00050	<0.0010	67	0.50
25C	3-Oct-23	Fe-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
25C	3-Oct-23	Fe-T	mg/L	0.01	0.02	<0.010	<0.020	67	0.50
25C	3-Oct-23	Hard-D	mg/L	0.5	0.5	755	812	7	0.93
25C	3-Oct-23	Hard-T	mg/L	0.5	0.5	684	721	5	0.95
25C	3-Oct-23	K-D	mg/L	0.1	0.1	2.60	2.76	6	0.94
25C	3-Oct-23	K-T	mg/L	0.05	0.1	2.40	2.43	1	0.99
25C	3-Oct-23	Li-D	mg/L	0.004	0.004	0.0106	0.0117	10	0.91
25C	3-Oct-23	Li-T	mg/L	0.002	0.004	0.0096	0.0103	7	0.93
25C	3-Oct-23	Mg-D	mg/L	0.1	0.1	27.8	30.8	10	0.90
25C	3-Oct-23	Mg-T	mg/L	0.05	0.1	26.2	26.9	3	0.97
25C	3-Oct-23	Mn-D	mg/L	0.002	0.002	0.0036	0.0037	3	0.97
25C	3-Oct-23	Mn-T	mg/L	0.001	0.002	0.0034	0.0037	9	0.92
25C	3-Oct-23	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
25C	3-Oct-23	Mo-T	mg/L	0.001	0.002	<0.0010	<0.0020	67	0.50
25C	3-Oct-23	Na-D	mg/L	0.1	0.1	62.2	67.1	8	0.93
25C	3-Oct-23	Na-T	mg/L	0.05	0.1	57.8	59.1	2	0.98
25C	3-Oct-23	Ni-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
25C	3-Oct-23	Ni-T	mg/L	0.001	0.002	<0.0010	<0.0020	67	0.50
25C	3-Oct-23	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
25C	3-Oct-23	Pb-T	mg/L	0.0002	0.0004	<0.00020	<0.00040	67	0.50
25C	3-Oct-23	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
25C	3-Oct-23	Sb-T	mg/L	0.0005	0.001	<0.00050	<0.0010	67	0.50
25C	3-Oct-23	S-D	mg/L	6	6	238	255	7	0.93
25C	3-Oct-23	Se-D	mg/L	0.0002	0.0002	<0.00020	0.00020	0	1.00
25C	3-Oct-23	Se-T	mg/L	0.0001	0.0002	0.00018	<0.00020	11	0.90
25C	3-Oct-23	Si-D	mg/L	0.2	0.2	2.75	2.95	7	0.93
25C	3-Oct-23	Si-T	mg/L	0.1	0.2	2.52	2.64	5	0.95
25C	3-Oct-23	Sn-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
25C	3-Oct-23	Sn-T	mg/L	0.005	0.01	<0.0050	<0.010	67	0.50
25C	3-Oct-23	SO4-D	mg/L	10	10	670	680	2	0.99
25C	3-Oct-23	Sr-D	mg/L	0.002	0.002	1.56	1.67	7	0.93
25C	3-Oct-23	Sr-T	mg/L	0.001	0.002	1.49	1.45	3	1.03
25C	3-Oct-23	S-T	mg/L	3	6	240	226	6	1.06
25C	3-Oct-23	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
25C	3-Oct-23	Ti-T	mg/L	0.005	0.01	<0.0050	<0.010	67	0.50
25C	3-Oct-23	Tl-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
25C	3-Oct-23	Tl-T	mg/L	0.00001	0.00002	<0.000010	<0.000020	67	0.50
25C	3-Oct-23	U-D	mg/L	0.0002	0.0002	0.00021	0.00022	5	0.95
25C	3-Oct-23	U-T	mg/L	0.0001	0.0002	0.00019	<0.00020	5	0.95
25C	3-Oct-23	V-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
25C	3-Oct-23	V-T	mg/L	0.005	0.01	<0.0050	<0.010	67	0.50
25C	3-Oct-23	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
25C	3-Oct-23	Zn-T	mg/L	0.005	0.01	<0.0050	<0.010	67	0.50
25C	3-Oct-23	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
25C	3-Oct-23	Zr-T	mg/L	0.0001	0.0002	<0.00010	<0.00020	67	0.50
25I	24-Apr-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
25I	24-Apr-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
25I	24-Apr-23	SO4-D	mg/L	5	5	470	460	2	1.02
25I	4-Jul-23	H2S	mg/L	0.002	0.002	0.082	0.12	38	0.68
25I	4-Jul-23	S2-T	mg/L	0.0018	0.0018	0.077	0.11	35	0.70
25I	4-Jul-23	SO4-D	mg/L	5	5	580	580	0	1.00
25I	5-Sep-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
25I	5-Sep-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
25I	5-Sep-23	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
25I	5-Sep-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
25I	5-Sep-23	Alk-T	mg/L	1	1	350	260	30	1.35
25I	5-Sep-23	Al-T	mg/L	0.003	0.003	0.0041	<0.0030	31	1.37
25I	5-Sep-23	As-D	mg/L	0.0001	0.0001	0.00046	0.00047	2	0.98
25I	5-Sep-23	As-T	mg/L	0.0001	0.0001	0.00056	0.00045	22	1.24
25I	5-Sep-23	Ba-D	mg/L	0.001	0.001	0.0290	0.0291	0	1.00
25I	5-Sep-23	Ba-T	mg/L	0.001	0.001	0.0262	0.0251	4	1.04
25I	5-Sep-23	B-D	mg/L	0.05	0.05	0.640	0.654	2	0.98
25I	5-Sep-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
25I	5-Sep-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
25I	5-Sep-23	B-T	mg/L	0.05	0.05	0.583	0.561	4	1.04
25I	5-Sep-23	Ca-D	mg/L	0.05	0.05	211	213	1	0.99
25I	5-Sep-23	Ca-T	mg/L	0.05	0.05	205	200	3	1.02
25I	5-Sep-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
25I	5-Sep-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
25I	5-Sep-23	Co-D	mg/L	0.0002	0.0002	0.00034	0.00034	0	1.00
25I	5-Sep-23	Co-T	mg/L	0.0002	0.0002	0.00032	0.00029	10	1.10
25I	5-Sep-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
25I	5-Sep-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
25I	5-Sep-23	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
25I	5-Sep-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
25I	5-Sep-23	Fe-D	mg/L	0.005	0.005	0.0485	0.0928	63	0.52
25I	5-Sep-23	Fe-T	mg/L	0.01	0.01	0.297	0.044	148	6.75
25I	5-Sep-23	H2S	mg/L	0.002	0.002	0.14	0.015	161	9.33
25I	5-Sep-23	Hard-D	mg/L	0.5	0.5	596	603	1	0.99
25I	5-Sep-23	Hard-T	mg/L	0.5	0.5	574	559	3	1.03
25I	5-Sep-23	K-D	mg/L	0.05	0.05	1.86	1.91	3	0.97
25I	5-Sep-23	K-T	mg/L	0.05	0.05	1.72	1.67	3	1.03
25I	5-Sep-23	Li-D	mg/L	0.002	0.002	0.0164	0.0172	5	0.95
25I	5-Sep-23	Li-T	mg/L	0.002	0.002	0.0164	0.0148	10	1.11
25I	5-Sep-23	Mg-D	mg/L	0.05	0.05	16.7	17.6	5	0.95
25I	5-Sep-23	Mg-T	mg/L	0.05	0.05	15.1	14.5	4	1.04
25I	5-Sep-23	Mn-D	mg/L	0.001	0.001	0.270	0.266	2	1.02
25I	5-Sep-23	Mn-T	mg/L	0.001	0.001	0.228	0.219	4	1.04
25I	5-Sep-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
25I	5-Sep-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
25I	5-Sep-23	Na-D	mg/L	0.05	0.05	107	112	5	0.96
25I	5-Sep-23	Na-T	mg/L	0.05	0.05	100	93.6	7	1.07
25I	5-Sep-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
25I	5-Sep-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
25I	5-Sep-23	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0	1.00
25I	5-Sep-23	N-NO23	mg/L	0.02	0.02	0.051	0.025	68	2.04
25I	5-Sep-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
25I	5-Sep-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
25I	5-Sep-23	P-T	mg/L	0.003	0.003	0.0076	0.0036	71	2.11
25I	5-Sep-23	S2-T	mg/L	0.0018	0.0018	0.13	0.015	159	8.67
25I	5-Sep-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
25I	5-Sep-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
25I	5-Sep-23	S-D	mg/L	3	3	199	206	4	0.97
25I	5-Sep-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
25I	5-Sep-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
25I	5-Sep-23	Si-D	mg/L	0.1	0.1	4.00	4.05	1	0.99
25I	5-Sep-23	Si-T	mg/L	0.1	0.1	3.58	3.55	1	1.01
25I	5-Sep-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
25I	5-Sep-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
25I	5-Sep-23	SO4-D	mg/L	5	5	390	560	36	0.70
25I	5-Sep-23	Sr-D	mg/L	0.001	0.001	2.11	2.11	0	1.00
25I	5-Sep-23	Sr-T	mg/L	0.001	0.001	1.89	1.90	1	0.99

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
2SI	5-Sep-23	S-T	mg/L	3	3	191	181	5	1.06
2SI	5-Sep-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
2SI	5-Sep-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
2SI	5-Sep-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
2SI	5-Sep-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
2SI	5-Sep-23	Turb	NTU	0.1	0.1	3.0	3.1	3	0.97
2SI	5-Sep-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
2SI	5-Sep-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
2SI	5-Sep-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
2SI	5-Sep-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
2SI	5-Sep-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
2SI	5-Sep-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
2SI	5-Sep-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
2SI	5-Sep-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
2SI	18-Sep-23	H2S	mg/L	0.002	0.002	0.034	0.042	21	0.81
2SI	18-Sep-23	S2-T	mg/L	0.0018	0.0018	0.032	0.040	22	0.80
2SI	18-Sep-23	SO4-D	mg/L	5	5	530	520	2	1.02
2SI	14-Nov-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
2SI	14-Nov-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
2SI	14-Nov-23	SO4-D	mg/L	5	5	290	290	0	1.00
2SI	15-Jan-24	H2S	mg/L	0.002	0.002	0.023	0.027	16	0.85
2SI	15-Jan-24	S2-T	mg/L	0.0018	0.0018	0.022	0.026	17	0.85
2SI	15-Jan-24	SO4-D	mg/L	5	5	460	450	2	1.02
2SI	15-Jan-24	H2S	mg/L	0.002	0.002	0.023	0.023	0	1.00
2SI	15-Jan-24	S2-T	mg/L	0.0018	0.0018	0.022	0.022	0	1.00
2SI	15-Jan-24	SO4-D	mg/L	5	5	460	460	0	1.00
2SI	13-Feb-24	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
2SI	13-Feb-24	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
2SI	13-Feb-24	SO4-D	mg/L	1	1	56	55	2	1.02
2SI	13-Feb-24	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
2SI	13-Feb-24	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
2SI	13-Feb-24	SO4-D	mg/L	1	1	56	56	0	1.00
2SI	11-Mar-24	H2S	mg/L	0.002	0.002	0.024	0.018	29	1.33
2SI	11-Mar-24	S2-T	mg/L	0.0018	0.0018	0.022	0.017	26	1.29
2SI	11-Mar-24	SO4-D	mg/L	5	5	270	210	25	1.29
7SQR	31-Jul-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
7SQR	31-Jul-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
7SQR	31-Jul-23	Al-D	mg/L	0.003	0.003	0.0083	0.0144	54	0.58
7SQR	31-Jul-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
7SQR	31-Jul-23	Alk-T	mg/L	1	1	37	36	3	1.03
7SQR	31-Jul-23	Al-T	mg/L	0.003	0.003	0.0193	0.0166	15	1.16
7SQR	31-Jul-23	As-D	mg/L	0.0001	0.0001	0.00078	0.00082	5	0.95
7SQR	31-Jul-23	As-T	mg/L	0.0001	0.0001	0.00079	0.00083	5	0.95
7SQR	31-Jul-23	Ba-D	mg/L	0.001	0.001	0.0022	0.0024	9	0.92
7SQR	31-Jul-23	Ba-T	mg/L	0.001	0.001	0.0020	0.0020	0	1.00
7SQR	31-Jul-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
7SQR	31-Jul-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	31-Jul-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	31-Jul-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
7SQR	31-Jul-23	Ca-D	mg/L	0.05	0.05	9.47	9.51	0	1.00
7SQR	31-Jul-23	Ca-T	mg/L	0.05	0.05	8.83	8.82	0	1.00
7SQR	31-Jul-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	0.000021	71	0.48
7SQR	31-Jul-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SQR	31-Jul-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SQR	31-Jul-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SQR	31-Jul-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	31-Jul-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	31-Jul-23	Cu-D	mg/L	0.0002	0.0002	0.00050	0.00082	49	0.61
7SQR	31-Jul-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
7SQR	31-Jul-23	DOC	mg/L	0.5	0.5	2.5	2.0	22	1.25
7SQR	31-Jul-23	Fe-D	mg/L	0.005	0.005	0.0708	0.0747	5	0.95
7SQR	31-Jul-23	Fe-T	mg/L	0.01	0.01	0.112	0.106	6	1.06
7SQR	31-Jul-23	Hard-D	mg/L	0.5	0.5	28.9	29.1	1	0.99
7SQR	31-Jul-23	Hard-T	mg/L	0.5	0.5	26.3	26.6	1	0.99
7SQR	31-Jul-23	K-D	mg/L	0.05	0.05	0.186	0.204	9	0.91
7SQR	31-Jul-23	K-T	mg/L	0.05	0.05	0.155	0.165	6	0.94
7SQR	31-Jul-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
7SQR	31-Jul-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
7SQR	31-Jul-23	Mg-D	mg/L	0.05	0.05	1.27	1.29	2	0.98
7SQR	31-Jul-23	Mg-T	mg/L	0.05	0.05	1.04	1.10	6	0.95
7SQR	31-Jul-23	Mn-D	mg/L	0.001	0.001	0.0069	0.0072	4	0.96
7SQR	31-Jul-23	Mn-T	mg/L	0.001	0.001	0.0082	0.0081	1	1.01
7SQR	31-Jul-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	31-Jul-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	31-Jul-23	Na-D	mg/L	0.05	0.05	8.58	8.70	1	0.99
7SQR	31-Jul-23	Na-T	mg/L	0.05	0.05	7.48	7.64	2	0.98
7SQR	31-Jul-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	31-Jul-23	Ni-T	mg/L	0.001	0.001	<0.0010	0.0011	10	0.91
7SQR	31-Jul-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SQR	31-Jul-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SQR	31-Jul-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
7SQR	31-Jul-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
7SQR	31-Jul-23	S-D	mg/L	3	3	3.7	3.8	3	0.97
7SQR	31-Jul-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	31-Jul-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	31-Jul-23	Si-D	mg/L	0.1	0.1	2.15	2.23	4	0.96
7SQR	31-Jul-23	Si-T	mg/L	0.1	0.1	1.91	1.91	0	1.00
7SQR	31-Jul-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	31-Jul-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	31-Jul-23	SO4-D	mg/L	1	1	10	9.9	1	1.01
7SQR	31-Jul-23	Sr-D	mg/L	0.001	0.001	0.0427	0.0438	3	0.97
7SQR	31-Jul-23	Sr-T	mg/L	0.001	0.001	0.0375	0.0393	5	0.95
7SQR	31-Jul-23	S-T	mg/L	3	3	3.1	3.3	6	0.94
7SQR	31-Jul-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	31-Jul-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	31-Jul-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SQR	31-Jul-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SQR	31-Jul-23	TSS	mg/L	1	1	2.0	<1.0	67	2.00
7SQR	31-Jul-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	31-Jul-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	31-Jul-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	31-Jul-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	31-Jul-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	31-Jul-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	31-Jul-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	31-Jul-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	1-Nov-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
7SQR	1-Nov-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
7SQR	1-Nov-23	Al-D	mg/L	0.003	0.003	0.0069	0.0065	6	1.06
7SQR	1-Nov-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
7SQR	1-Nov-23	Alk-T	mg/L	1	1	31	29	7	1.07
7SQR	1-Nov-23	Al-T	mg/L	0.003	0.003	0.0109	0.0103	6	1.06
7SQR	1-Nov-23	As-D	mg/L	0.0001	0.0001	0.00037	0.00036	3	1.03
7SQR	1-Nov-23	As-T	mg/L	0.0001	0.0001	0.00035	0.00035	0	1.00
7SQR	1-Nov-23	Ba-D	mg/L	0.001	0.001	0.0021	0.0021	0	1.00
7SQR	1-Nov-23	Ba-T	mg/L	0.001	0.001	0.0020	0.0020	0	1.00
7SQR	1-Nov-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
7SQR	1-Nov-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	1-Nov-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	1-Nov-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
7SQR	1-Nov-23	Ca-D	mg/L	0.05	0.05	10.0	10.1	1	0.99
7SQR	1-Nov-23	Ca-T	mg/L	0.05	0.05	9.86	9.86	0	1.00
7SQR	1-Nov-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SQR	1-Nov-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SQR	1-Nov-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
7SQR	1-Nov-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SQR	1-Nov-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SQR	1-Nov-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	1-Nov-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	1-Nov-23	Cu-D	mg/L	0.0002	0.0002	0.00041	0.00052	24	0.79
7SQR	1-Nov-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	0.00065	26	0.77
7SQR	1-Nov-23	DOC	mg/L	0.5	0.5	2.2	2.5	13	0.88
7SQR	1-Nov-23	Fe-D	mg/L	0.005	0.005	0.0447	0.0450	1	0.99
7SQR	1-Nov-23	Fe-T	mg/L	0.01	0.01	0.063	0.063	0	1.00
7SQR	1-Nov-23	Hard-D	mg/L	0.5	0.5	30.2	30.6	1	0.99
7SQR	1-Nov-23	Hard-T	mg/L	0.5	0.5	29.8	29.6	1	1.01

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
7SQR	1-Nov-23	K-D	mg/L	0.05	0.05	0.160	0.169	6	0.95
7SQR	1-Nov-23	K-T	mg/L	0.05	0.05	0.156	0.148	5	1.05
7SQR	1-Nov-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
7SQR	1-Nov-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
7SQR	1-Nov-23	Mg-D	mg/L	0.05	0.05	1.25	1.30	4	0.96
7SQR	1-Nov-23	Mg-T	mg/L	0.05	0.05	1.25	1.20	4	1.04
7SQR	1-Nov-23	Mn-D	mg/L	0.001	0.001	0.0056	0.0057	2	0.98
7SQR	1-Nov-23	Mn-T	mg/L	0.001	0.001	0.0060	0.0058	3	1.03
7SQR	1-Nov-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	1-Nov-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	1-Nov-23	Na-D	mg/L	0.05	0.05	6.44	6.62	3	0.97
7SQR	1-Nov-23	Na-T	mg/L	0.05	0.05	6.17	6.02	3	1.02
7SQR	1-Nov-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	1-Nov-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SQR	1-Nov-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SQR	1-Nov-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SQR	1-Nov-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
7SQR	1-Nov-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
7SQR	1-Nov-23	S-D	mg/L	3	3	4.7	4.6	2	1.02
7SQR	1-Nov-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	1-Nov-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	1-Nov-23	Si-D	mg/L	0.1	0.1	2.00	1.97	2	1.02
7SQR	1-Nov-23	Si-T	mg/L	0.1	0.1	1.89	1.91	1	0.99
7SQR	1-Nov-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	1-Nov-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	1-Nov-23	SO4-D	mg/L	1	1	13	13	0	1.00
7SQR	1-Nov-23	Sr-D	mg/L	0.001	0.001	0.0422	0.0418	1	1.01
7SQR	1-Nov-23	Sr-T	mg/L	0.001	0.001	0.0400	0.0388	3	1.03
7SQR	1-Nov-23	S-T	mg/L	3	3	4.2	4.3	2	0.98
7SQR	1-Nov-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	1-Nov-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	1-Nov-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SQR	1-Nov-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SQR	1-Nov-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
7SQR	1-Nov-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	1-Nov-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	1-Nov-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	1-Nov-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	1-Nov-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	1-Nov-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SQR	1-Nov-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SQR	1-Nov-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SSD	10-Jul-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
7SSD	10-Jul-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
7SSD	10-Jul-23	Al-D	mg/L	0.003	0.003	0.0040	0.0041	3	0.98
7SSD	10-Jul-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
7SSD	10-Jul-23	Alk-T	mg/L	1	1	180	180	0	1.00
7SSD	10-Jul-23	Al-T	mg/L	0.003	0.003	0.0055	0.0066	18	0.83
7SSD	10-Jul-23	As-D	mg/L	0.0001	0.0001	0.0111	0.0114	3	0.97
7SSD	10-Jul-23	As-T	mg/L	0.0001	0.0001	0.0106	0.0117	10	0.91
7SSD	10-Jul-23	Ba-D	mg/L	0.001	0.001	0.0070	0.0069	1	1.01
7SSD	10-Jul-23	Ba-T	mg/L	0.001	0.001	0.0070	0.0072	3	0.97
7SSD	10-Jul-23	B-D	mg/L	0.05	0.05	0.055	0.059	7	0.93
7SSD	10-Jul-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SSD	10-Jul-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SSD	10-Jul-23	B-T	mg/L	0.05	0.05	0.052	0.058	11	0.90
7SSD	10-Jul-23	Ca-D	mg/L	0.05	0.05	40.1	40.3	1	1.00
7SSD	10-Jul-23	Ca-T	mg/L	0.05	0.05	34.1	37.9	11	0.90
7SSD	10-Jul-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SSD	10-Jul-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SSD	10-Jul-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SSD	10-Jul-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SSD	10-Jul-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SSD	10-Jul-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SSD	10-Jul-23	Cu-D	mg/L	0.0002	0.0002	0.00048	0.00049	2	0.98
7SSD	10-Jul-23	Cu-T	mg/L	0.0005	0.0005	0.00054	0.00056	4	0.96
7SSD	10-Jul-23	DOC	mg/L	0.5	0.5	12	11	9	1.09
7SSD	10-Jul-23	Fe-D	mg/L	0.005	0.005	0.326	0.355	9	0.92

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
7SSD	10-Jul-23	Fe-T	mg/L	0.01	0.01	0.778	0.838	7	0.93
7SSD	10-Jul-23	Hard-D	mg/L	0.5	0.5	175	175	0	1.00
7SSD	10-Jul-23	Hard-T	mg/L	0.5	0.5	148	162	9	0.91
7SSD	10-Jul-23	K-D	mg/L	0.05	0.05	2.43	2.50	3	0.97
7SSD	10-Jul-23	K-T	mg/L	0.05	0.05	2.20	2.38	8	0.92
7SSD	10-Jul-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
7SSD	10-Jul-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
7SSD	10-Jul-23	Mg-D	mg/L	0.05	0.05	18.3	18.1	1	1.01
7SSD	10-Jul-23	Mg-T	mg/L	0.05	0.05	15.4	16.4	6	0.94
7SSD	10-Jul-23	Mn-D	mg/L	0.001	0.001	0.916	0.908	1	1.01
7SSD	10-Jul-23	Mn-T	mg/L	0.001	0.001	0.847	0.922	9	0.92
7SSD	10-Jul-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SSD	10-Jul-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SSD	10-Jul-23	Na-D	mg/L	0.05	0.05	12.9	13.0	1	0.99
7SSD	10-Jul-23	Na-T	mg/L	0.05	0.05	11.1	12.1	9	0.92
7SSD	10-Jul-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SSD	10-Jul-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
7SSD	10-Jul-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SSD	10-Jul-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
7SSD	10-Jul-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
7SSD	10-Jul-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
7SSD	10-Jul-23	S-D	mg/L	3	3	3.2	4.3	29	0.74
7SSD	10-Jul-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SSD	10-Jul-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SSD	10-Jul-23	Si-D	mg/L	0.1	0.1	15.4	15.5	1	0.99
7SSD	10-Jul-23	Si-T	mg/L	0.1	0.1	12.6	14.0	11	0.90
7SSD	10-Jul-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SSD	10-Jul-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SSD	10-Jul-23	SO4-D	mg/L	1	1	7.0	6.7	4	1.04
7SSD	10-Jul-23	Sr-D	mg/L	0.001	0.001	0.202	0.202	0	1.00
7SSD	10-Jul-23	Sr-T	mg/L	0.001	0.001	0.161	0.177	10	0.91
7SSD	10-Jul-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
7SSD	10-Jul-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SSD	10-Jul-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SSD	10-Jul-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SSD	10-Jul-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
7SSD	10-Jul-23	TSS	mg/L	1	1	4.0	2.8	35	1.43
7SSD	10-Jul-23	U-D	mg/L	0.0001	0.0001	0.00013	0.00013	0	1.00
7SSD	10-Jul-23	U-T	mg/L	0.0001	0.0001	0.00011	0.00013	17	0.85
7SSD	10-Jul-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SSD	10-Jul-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SSD	10-Jul-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SSD	10-Jul-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
7SSD	10-Jul-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
7SSD	10-Jul-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
BCR	19-Jun-23	H2S	mg/L	0.19	0.19	27	27	0	1.00
BCR	19-Jun-23	S2-T	mg/L	0.18	0.18	25	25	0	1.00
BCR	19-Jun-23	SO4-D	mg/L	5	5	590	580	2	1.02
BCR	27-Nov-23	H2S	mg/L	0.19	0.15	17	16	6	1.06
BCR	27-Nov-23	S2-T	mg/L	0.18	0.14	16	15	7	1.07
BCR	27-Nov-23	SO4-D	mg/L	5	5	500	490	2	1.02
INF	23-May-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	23-May-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
INF	23-May-23	SO4-D	mg/L	25	5	660	620	6	1.06
INF	12-Jun-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	12-Jun-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
INF	12-Jun-23	SO4-D	mg/L	25	5	660	620	6	1.06
INF	17-Jul-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	17-Jul-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
INF	17-Jul-23	SO4-D	mg/L	5	10	620	660	6	0.94
INF	21-Aug-23	H2S	mg/L	0.002	0.002	0.0037	0.0041	10	0.90
INF	21-Aug-23	S2-T	mg/L	0.0018	0.0018	0.0034	0.0039	14	0.87
INF	21-Aug-23	SO4-D	mg/L	5	5	550	580	5	0.95
INF	11-Sep-23	H2S	mg/L	0.002	0.002	0.0066	0.0032	69	2.06
INF	11-Sep-23	S2-T	mg/L	0.0018	0.0018	0.0062	0.0030	70	2.07
INF	11-Sep-23	SO4-D	mg/L	5	5	550	570	4	0.96
INF	10-Oct-23	H2S	mg/L	0.002	0.002	0.0090	0.0056	47	1.61
INF	10-Oct-23	S2-T	mg/L	0.0018	0.0018	0.0085	0.0053	46	1.60

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
INF	10-Oct-23	SO4-D	mg/L	5	5	550	560	2	0.98
INF	6-Nov-23	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0	1.00
INF	6-Nov-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
INF	6-Nov-23	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0	1.00
INF	6-Nov-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
INF	6-Nov-23	Alk-T	mg/L	1	1	260	260	0	1.00
INF	6-Nov-23	Al-T	mg/L	0.003	0.003	0.0449	<0.0030	175	14.97
INF	6-Nov-23	As-D	mg/L	0.0002	0.0002	0.00402	0.00400	1	1.00
INF	6-Nov-23	As-T	mg/L	0.0001	0.0001	0.00380	0.00389	2	0.98
INF	6-Nov-23	Ba-D	mg/L	0.002	0.002	0.0183	0.0184	1	0.99
INF	6-Nov-23	Ba-T	mg/L	0.001	0.001	0.0171	0.0174	2	0.98
INF	6-Nov-23	B-D	mg/L	0.1	0.1	0.70	0.69	1	1.01
INF	6-Nov-23	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
INF	6-Nov-23	B-T	mg/L	0.05	0.05	0.714	0.723	1	0.99
INF	6-Nov-23	Ca-D	mg/L	0.1	0.1	225	219	3	1.03
INF	6-Nov-23	Ca-T	mg/L	0.05	0.05	203	209	3	0.97
INF	6-Nov-23	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
INF	6-Nov-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
INF	6-Nov-23	Co-D	mg/L	0.0004	0.0004	0.00048	0.00046	4	1.04
INF	6-Nov-23	Co-T	mg/L	0.0002	0.0002	0.00041	0.00040	3	1.02
INF	6-Nov-23	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	6-Nov-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
INF	6-Nov-23	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
INF	6-Nov-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
INF	6-Nov-23	Fe-D	mg/L	0.01	0.01	3.12	3.04	3	1.03
INF	6-Nov-23	Fe-T	mg/L	0.01	0.01	2.82	2.86	1	0.99
INF	6-Nov-23	H2S	mg/L	0.002	0.002	0.0032	0.0037	15	0.86
INF	6-Nov-23	Hard-D	mg/L	0.5	0.5	627	611	3	1.03
INF	6-Nov-23	Hard-T	mg/L	0.5	0.5	568	581	2	0.98
INF	6-Nov-23	K-D	mg/L	0.1	0.1	1.95	1.92	2	1.02
INF	6-Nov-23	K-T	mg/L	0.05	0.05	1.82	1.86	2	0.98
INF	6-Nov-23	Li-D	mg/L	0.004	0.004	0.0201	0.0199	1	1.01
INF	6-Nov-23	Li-T	mg/L	0.002	0.002	0.0215	0.0211	2	1.02
INF	6-Nov-23	Mg-D	mg/L	0.1	0.1	15.9	15.8	1	1.01
INF	6-Nov-23	Mg-T	mg/L	0.05	0.05	14.6	14.7	1	0.99
INF	6-Nov-23	Mn-D	mg/L	0.002	0.002	0.345	0.344	0	1.00
INF	6-Nov-23	Mn-T	mg/L	0.001	0.001	0.329	0.333	1	0.99
INF	6-Nov-23	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	6-Nov-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
INF	6-Nov-23	Na-D	mg/L	0.1	0.1	107	106	1	1.01
INF	6-Nov-23	Na-T	mg/L	0.05	0.05	100	101	1	0.99
INF	6-Nov-23	Ni-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	6-Nov-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
INF	6-Nov-23	N-NH3	mg/L	0.015	0.015	0.069	0.068	2	1.01
INF	6-Nov-23	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	N-NO23	mg/L	0.02	0.02	<0.020	0.079	119	0.25
INF	6-Nov-23	N-NO3	mg/L	0.02	0.02	<0.020	0.079	119	0.25
INF	6-Nov-23	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
INF	6-Nov-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	P-T	mg/L	0.003	0.003	<0.0030	0.0031	3	0.97
INF	6-Nov-23	S2-T	mg/L	0.0018	0.0018	0.0030	0.0034	13	0.88
INF	6-Nov-23	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
INF	6-Nov-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
INF	6-Nov-23	S-D	mg/L	6	6	205	202	2	1.01
INF	6-Nov-23	Se-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
INF	6-Nov-23	Si-D	mg/L	0.2	0.2	3.31	3.25	2	1.02
INF	6-Nov-23	Si-T	mg/L	0.1	0.1	2.96	3.01	2	0.98
INF	6-Nov-23	Sn-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	6-Nov-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	SO4-D	mg/L	5	5	560	560	0	1.00
INF	6-Nov-23	Sr-D	mg/L	0.002	0.002	1.96	1.99	2	0.98
INF	6-Nov-23	Sr-T	mg/L	0.001	0.001	1.91	1.94	2	0.98
INF	6-Nov-23	S-T	mg/L	3	3	195	195	0	1.00
INF	6-Nov-23	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	6-Nov-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	TI-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
INF	6-Nov-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
INF	6-Nov-23	TSS	mg/L	1	1	6.4	7.2	12	0.89
INF	6-Nov-23	U-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
INF	6-Nov-23	V-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	6-Nov-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	6-Nov-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
INF	6-Nov-23	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0	1.00
INF	6-Nov-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
INF	6-Nov-23	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0	1.00
INF	6-Nov-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
INF	6-Nov-23	Alk-T	mg/L	1	1	260	260	0	1.00
INF	6-Nov-23	Al-T	mg/L	0.003	0.003	0.0449	0.0449	0	1.00
INF	6-Nov-23	As-D	mg/L	0.0002	0.0002	0.00402	0.00402	0	1.00
INF	6-Nov-23	As-T	mg/L	0.0001	0.0001	0.00380	0.00380	0	1.00
INF	6-Nov-23	Ba-D	mg/L	0.002	0.002	0.0183	0.0183	0	1.00
INF	6-Nov-23	Ba-T	mg/L	0.001	0.001	0.0171	0.0171	0	1.00
INF	6-Nov-23	B-D	mg/L	0.1	0.1	0.70	0.70	0	1.00
INF	6-Nov-23	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
INF	6-Nov-23	B-T	mg/L	0.05	0.05	0.714	0.714	0	1.00
INF	6-Nov-23	Ca-D	mg/L	0.1	0.1	225	225	0	1.00
INF	6-Nov-23	Ca-T	mg/L	0.05	0.05	203	203	0	1.00
INF	6-Nov-23	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
INF	6-Nov-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
INF	6-Nov-23	Co-D	mg/L	0.0004	0.0004	0.00048	0.00048	0	1.00
INF	6-Nov-23	Co-T	mg/L	0.0002	0.0002	0.00041	0.00041	0	1.00
INF	6-Nov-23	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	6-Nov-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
INF	6-Nov-23	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
INF	6-Nov-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
INF	6-Nov-23	Fe-D	mg/L	0.01	0.01	3.12	3.12	0	1.00
INF	6-Nov-23	Fe-T	mg/L	0.01	0.01	2.82	2.82	0	1.00
INF	6-Nov-23	H2S	mg/L	0.002	0.002	0.0032	0.0032	0	1.00
INF	6-Nov-23	Hard-D	mg/L	0.5	0.5	627	627	0	1.00
INF	6-Nov-23	Hard-T	mg/L	0.5	0.5	568	568	0	1.00
INF	6-Nov-23	K-D	mg/L	0.1	0.1	1.95	1.95	0	1.00
INF	6-Nov-23	K-T	mg/L	0.05	0.05	1.82	1.82	0	1.00
INF	6-Nov-23	Li-D	mg/L	0.004	0.004	0.0201	0.0201	0	1.00
INF	6-Nov-23	Li-T	mg/L	0.002	0.002	0.0215	0.0215	0	1.00
INF	6-Nov-23	Mg-D	mg/L	0.1	0.1	15.9	15.9	0	1.00
INF	6-Nov-23	Mg-T	mg/L	0.05	0.05	14.6	14.6	0	1.00
INF	6-Nov-23	Mn-D	mg/L	0.002	0.002	0.345	0.345	0	1.00
INF	6-Nov-23	Mn-T	mg/L	0.001	0.001	0.329	0.329	0	1.00
INF	6-Nov-23	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	6-Nov-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
INF	6-Nov-23	Na-D	mg/L	0.1	0.1	107	107	0	1.00
INF	6-Nov-23	Na-T	mg/L	0.05	0.05	100	100	0	1.00
INF	6-Nov-23	Ni-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	6-Nov-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
INF	6-Nov-23	N-NH3	mg/L	0.015	0.015	0.069	0.069	0	1.00
INF	6-Nov-23	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
INF	6-Nov-23	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
INF	6-Nov-23	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
INF	6-Nov-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
INF	6-Nov-23	S2-T	mg/L	0.0018	0.0018	0.0030	0.0030	0	1.00
INF	6-Nov-23	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
INF	6-Nov-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
INF	6-Nov-23	S-D	mg/L	6	6	205	205	0	1.00
INF	6-Nov-23	Se-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
INF	6-Nov-23	Si-D	mg/L	0.2	0.2	3.31	3.31	0	1.00
INF	6-Nov-23	Si-T	mg/L	0.1	0.1	2.96	2.96	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
INF	6-Nov-23	Sn-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	6-Nov-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	SO4-D	mg/L	5	5	560	560	0	1.00
INF	6-Nov-23	Sr-D	mg/L	0.002	0.002	1.96	1.96	0	1.00
INF	6-Nov-23	Sr-T	mg/L	0.001	0.001	1.91	1.91	0	1.00
INF	6-Nov-23	S-T	mg/L	3	3	195	195	0	1.00
INF	6-Nov-23	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	6-Nov-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	Tl-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
INF	6-Nov-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
INF	6-Nov-23	TSS	mg/L	1	1	6.4	6.4	0	1.00
INF	6-Nov-23	U-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
INF	6-Nov-23	V-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	6-Nov-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	6-Nov-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
INF	6-Nov-23	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
INF	6-Nov-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
INF	20-Nov-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
INF	20-Nov-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
INF	20-Nov-23	SO4-D	mg/L	5	5	600	610	2	0.98
INF	18-Dec-23	H2S	mg/L	0.002	0.002	0.0022	0.026	169	0.08
INF	18-Dec-23	S2-T	mg/L	0.0018	0.0018	0.0021	0.025	169	0.08
INF	18-Dec-23	SO4-D	mg/L	10	10	670	670	0	1.00
INF	26-Feb-24	H2S	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
INF	26-Feb-24	S2-T	mg/L	0.009	0.009	<0.0090	<0.0090	0	1.00
INF	26-Feb-24	SO4-D	mg/L	5	10	600	610	2	0.98
LLE	11-Apr-23	SO4-D	mg/L	5	5	160	160	0	1.00
LLE	29-May-23	SO4-D	mg/L	5	5	380	370	3	1.03
LLE	30-Oct-23	SO4-D	mg/L	5	5	450	450	0	1.00
LLE	8-Jan-24	SO4-D	mg/L	5	5	210	210	0	1.00
LLE	29-Jan-24	SO4-D	mg/L	1	1	110	110	0	1.00
LLE	20-Feb-24	SO4-D	mg/L	5	5	160	160	0	1.00
LLE	25-Mar-24	SO4-D	mg/L	5	5	150	150	0	1.00
LLM1	12-Jul-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM1	12-Jul-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM1	12-Jul-23	Al-D	mg/L	0.003	0.003	0.0106	0.0103	3	1.03
LLM1	12-Jul-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLM1	12-Jul-23	Alk-T	mg/L	1	1	26	25	4	1.04
LLM1	12-Jul-23	Al-T	mg/L	0.003	0.003	0.0110	0.0120	9	0.92
LLM1	12-Jul-23	As-D	mg/L	0.0001	0.0001	0.00063	0.00062	2	1.02
LLM1	12-Jul-23	As-T	mg/L	0.0001	0.0001	0.00053	0.00055	4	0.96
LLM1	12-Jul-23	Ba-D	mg/L	0.001	0.001	0.0047	0.0047	0	1.00
LLM1	12-Jul-23	Ba-T	mg/L	0.001	0.001	0.0039	0.0041	5	0.95
LLM1	12-Jul-23	B-D	mg/L	0.05	0.05	0.096	<0.050	63	1.92
LLM1	12-Jul-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	12-Jul-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	12-Jul-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LLM1	12-Jul-23	Ca-D	mg/L	0.05	0.05	18.9	18.6	2	1.02
LLM1	12-Jul-23	Ca-T	mg/L	0.05	0.05	15.5	16.3	5	0.95
LLM1	12-Jul-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	12-Jul-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	12-Jul-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	12-Jul-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	12-Jul-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	12-Jul-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	12-Jul-23	Cu-D	mg/L	0.0002	0.0002	0.00040	0.00039	3	1.03
LLM1	12-Jul-23	Cu-T	mg/L	0.0005	0.0005	0.00051	<0.00050	2	1.02
LLM1	12-Jul-23	DOC	mg/L	0.5	0.5	3.0	3.3	10	0.91
LLM1	12-Jul-23	Fe-D	mg/L	0.005	0.005	0.0345	0.0343	1	1.01
LLM1	12-Jul-23	Fe-T	mg/L	0.01	0.01	0.036	0.037	3	0.97
LLM1	12-Jul-23	Hard-D	mg/L	0.5	0.5	57.5	57.0	1	1.01
LLM1	12-Jul-23	Hard-T	mg/L	0.5	0.5	47.9	50.1	5	0.96
LLM1	12-Jul-23	K-D	mg/L	0.05	0.05	0.221	0.219	1	1.01
LLM1	12-Jul-23	K-T	mg/L	0.05	0.05	0.199	0.203	2	0.98
LLM1	12-Jul-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM1	12-Jul-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	12-Jul-23	Mg-D	mg/L	0.05	0.05	2.49	2.54	2	0.98
LLM1	12-Jul-23	Mg-T	mg/L	0.05	0.05	2.24	2.32	4	0.97
LLM1	12-Jul-23	Mn-D	mg/L	0.001	0.001	0.0088	0.0088	0	1.00
LLM1	12-Jul-23	Mn-T	mg/L	0.001	0.001	0.0109	0.0115	5	0.95
LLM1	12-Jul-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	12-Jul-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	12-Jul-23	Na-D	mg/L	0.05	0.05	5.04	5.03	0	1.00
LLM1	12-Jul-23	Na-T	mg/L	0.05	0.05	4.43	4.65	5	0.95
LLM1	12-Jul-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	12-Jul-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	12-Jul-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
LLM1	12-Jul-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	12-Jul-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	12-Jul-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LLM1	12-Jul-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LLM1	12-Jul-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	12-Jul-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	12-Jul-23	S-D	mg/L	3	3	13.4	13.5	1	0.99
LLM1	12-Jul-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	12-Jul-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	12-Jul-23	Si-D	mg/L	0.1	0.1	3.31	3.28	1	1.01
LLM1	12-Jul-23	Si-T	mg/L	0.1	0.1	2.61	2.69	3	0.97
LLM1	12-Jul-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	12-Jul-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	12-Jul-23	SO4-D	mg/L	1	1	41	41	0	1.00
LLM1	12-Jul-23	Sr-D	mg/L	0.001	0.001	0.107	0.107	0	1.00
LLM1	12-Jul-23	Sr-T	mg/L	0.001	0.001	0.0903	0.0942	4	0.96
LLM1	12-Jul-23	S-T	mg/L	3	3	11.7	12.1	3	0.97
LLM1	12-Jul-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	12-Jul-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	12-Jul-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	12-Jul-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	12-Jul-23	Turb	NTU	0.1	0.1	0.20	0.17	16	1.18
LLM1	12-Jul-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	12-Jul-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	12-Jul-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	12-Jul-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	12-Jul-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	12-Jul-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	12-Jul-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	12-Jul-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	9-Aug-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM1	9-Aug-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM1	9-Aug-23	Al-D	mg/L	0.003	0.003	0.0089	0.0087	2	1.02
LLM1	9-Aug-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLM1	9-Aug-23	Alk-T	mg/L	1	1	28	28	0	1.00
LLM1	9-Aug-23	Al-T	mg/L	0.003	0.003	0.0099	0.0085	15	1.16
LLM1	9-Aug-23	As-D	mg/L	0.0001	0.0001	0.00068	0.00065	5	1.05
LLM1	9-Aug-23	As-T	mg/L	0.0001	0.0001	0.00060	0.00059	2	1.02
LLM1	9-Aug-23	Ba-D	mg/L	0.001	0.001	0.0049	0.0050	2	0.98
LLM1	9-Aug-23	Ba-T	mg/L	0.001	0.001	0.0044	0.0045	2	0.98
LLM1	9-Aug-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LLM1	9-Aug-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	9-Aug-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	9-Aug-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LLM1	9-Aug-23	Ca-D	mg/L	0.05	0.05	20.2	21.3	5	0.95
LLM1	9-Aug-23	Ca-T	mg/L	0.05	0.05	17.7	17.9	1	0.99
LLM1	9-Aug-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	9-Aug-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	9-Aug-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LLM1	9-Aug-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	9-Aug-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	9-Aug-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	9-Aug-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	9-Aug-23	Cu-D	mg/L	0.0002	0.0002	0.00031	0.00034	9	0.91
LLM1	9-Aug-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	9-Aug-23	DOC	mg/L	0.5	0.5	3.8	3.7	3	1.03
LLM1	9-Aug-23	Fe-D	mg/L	0.005	0.005	0.0231	0.0223	4	1.04

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	9-Aug-23	Fe-T	mg/L	0.01	0.01	0.025	0.025	0	1.00
LLM1	9-Aug-23	Hard-D	mg/L	0.5	0.5	62.3	64.5	4	0.97
LLM1	9-Aug-23	Hard-T	mg/L	0.5	0.5	54.7	55.3	1	0.99
LLM1	9-Aug-23	K-D	mg/L	0.05	0.05	0.246	0.245	0	1.00
LLM1	9-Aug-23	K-T	mg/L	0.05	0.05	0.218	0.218	0	1.00
LLM1	9-Aug-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM1	9-Aug-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM1	9-Aug-23	Mg-D	mg/L	0.05	0.05	2.88	2.78	4	1.04
LLM1	9-Aug-23	Mg-T	mg/L	0.05	0.05	2.55	2.56	0	1.00
LLM1	9-Aug-23	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	9-Aug-23	Mn-T	mg/L	0.001	0.001	0.0035	0.0036	3	0.97
LLM1	9-Aug-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	9-Aug-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	9-Aug-23	Na-D	mg/L	0.05	0.05	5.84	5.65	3	1.03
LLM1	9-Aug-23	Na-T	mg/L	0.05	0.05	4.96	5.05	2	0.98
LLM1	9-Aug-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	9-Aug-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	9-Aug-23	N-NO23	mg/L	0.02	0.02	<0.020	0.060	100	0.33
LLM1	9-Aug-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	9-Aug-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	9-Aug-23	P-D	mg/L	0.003	0.003	0.0039	0.0045	14	0.87
LLM1	9-Aug-23	P-T	mg/L	0.003	0.003	0.0039	0.0063	47	0.62
LLM1	9-Aug-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	9-Aug-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	9-Aug-23	S-D	mg/L	3	3	14.6	16.7	13	0.87
LLM1	9-Aug-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	9-Aug-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	9-Aug-23	Si-D	mg/L	0.1	0.1	3.16	3.44	9	0.92
LLM1	9-Aug-23	Si-T	mg/L	0.1	0.1	2.79	2.90	4	0.96
LLM1	9-Aug-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	9-Aug-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	9-Aug-23	SO4-D	mg/L	1	1	47	47	0	1.00
LLM1	9-Aug-23	Sr-D	mg/L	0.001	0.001	0.122	0.121	1	1.01
LLM1	9-Aug-23	Sr-T	mg/L	0.001	0.001	0.106	0.109	3	0.97
LLM1	9-Aug-23	S-T	mg/L	3	3	14.2	14.5	2	0.98
LLM1	9-Aug-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	9-Aug-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	9-Aug-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	9-Aug-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	9-Aug-23	Turb	NTU	0.1	0.1	0.27	0.27	0	1.00
LLM1	9-Aug-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	9-Aug-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	9-Aug-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	9-Aug-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	9-Aug-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	9-Aug-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	9-Aug-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	9-Aug-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	4-Oct-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM1	4-Oct-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM1	4-Oct-23	Al-D	mg/L	0.003	0.003	0.0045	0.0043	5	1.05
LLM1	4-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLM1	4-Oct-23	Alk-T	mg/L	1	1	32	31	3	1.03
LLM1	4-Oct-23	Al-T	mg/L	0.003	0.003	0.0058	0.0057	2	1.02
LLM1	4-Oct-23	As-D	mg/L	0.0001	0.0001	0.00059	0.00057	3	1.04
LLM1	4-Oct-23	As-T	mg/L	0.0001	0.0001	0.00053	0.00052	2	1.02
LLM1	4-Oct-23	Ba-D	mg/L	0.001	0.001	0.0063	0.0062	2	1.02
LLM1	4-Oct-23	Ba-T	mg/L	0.001	0.001	0.0056	0.0050	11	1.12
LLM1	4-Oct-23	B-D	mg/L	0.05	0.05	0.062	0.060	3	1.03
LLM1	4-Oct-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	4-Oct-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	4-Oct-23	B-T	mg/L	0.05	0.05	0.060	0.060	0	1.00
LLM1	4-Oct-23	Ca-D	mg/L	0.05	0.05	27.1	27.1	0	1.00
LLM1	4-Oct-23	Ca-T	mg/L	0.05	0.05	24.2	21.6	11	1.12
LLM1	4-Oct-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	4-Oct-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	4-Oct-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LLM1	4-Oct-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	4-Oct-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	4-Oct-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	4-Oct-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	4-Oct-23	Cu-D	mg/L	0.0002	0.0002	0.00033	0.00033	0	1.00
LLM1	4-Oct-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	4-Oct-23	DOC	mg/L	0.5	0.5	3.1	2.9	7	1.07
LLM1	4-Oct-23	Fe-D	mg/L	0.005	0.005	0.0115	0.0109	5	1.06
LLM1	4-Oct-23	Fe-T	mg/L	0.01	0.01	0.018	0.016	12	1.12
LLM1	4-Oct-23	Hard-D	mg/L	0.5	0.5	82.7	82.5	0	1.00
LLM1	4-Oct-23	Hard-T	mg/L	0.5	0.5	73.9	66.0	11	1.12
LLM1	4-Oct-23	K-D	mg/L	0.05	0.05	0.310	0.307	1	1.01
LLM1	4-Oct-23	K-T	mg/L	0.05	0.05	0.280	0.239	16	1.17
LLM1	4-Oct-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM1	4-Oct-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM1	4-Oct-23	Mg-D	mg/L	0.05	0.05	3.64	3.63	0	1.00
LLM1	4-Oct-23	Mg-T	mg/L	0.05	0.05	3.25	2.90	11	1.12
LLM1	4-Oct-23	Mn-D	mg/L	0.001	0.001	0.0018	0.0017	6	1.06
LLM1	4-Oct-23	Mn-T	mg/L	0.001	0.001	0.0060	0.0055	9	1.09
LLM1	4-Oct-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	4-Oct-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	4-Oct-23	Na-D	mg/L	0.05	0.05	7.84	7.87	0	1.00
LLM1	4-Oct-23	Na-T	mg/L	0.05	0.05	6.97	6.14	13	1.14
LLM1	4-Oct-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	4-Oct-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	4-Oct-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
LLM1	4-Oct-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	4-Oct-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	4-Oct-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LLM1	4-Oct-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	4-Oct-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	4-Oct-23	S-D	mg/L	3	3	23.6	22.8	3	1.04
LLM1	4-Oct-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	4-Oct-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	4-Oct-23	Si-D	mg/L	0.1	0.1	3.05	3.06	0	1.00
LLM1	4-Oct-23	Si-T	mg/L	0.1	0.1	2.78	2.48	11	1.12
LLM1	4-Oct-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	4-Oct-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	4-Oct-23	SO4-D	mg/L	1	1	62	64	3	0.97
LLM1	4-Oct-23	Sr-D	mg/L	0.001	0.001	0.164	0.162	1	1.01
LLM1	4-Oct-23	Sr-T	mg/L	0.001	0.001	0.148	0.132	11	1.12
LLM1	4-Oct-23	S-T	mg/L	3	3	19.0	16.9	12	1.12
LLM1	4-Oct-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	4-Oct-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	4-Oct-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	4-Oct-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	4-Oct-23	Turb	NTU	0.1	0.1	0.21	0.29	32	0.72
LLM1	4-Oct-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	4-Oct-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	4-Oct-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	4-Oct-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	4-Oct-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	4-Oct-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	4-Oct-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	4-Oct-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	30-Oct-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM1	30-Oct-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM1	30-Oct-23	Al-D	mg/L	0.003	0.003	0.0040	0.0049	20	0.82
LLM1	30-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLM1	30-Oct-23	Alk-T	mg/L	1	1	31	31	0	1.00
LLM1	30-Oct-23	Al-T	mg/L	0.003	0.003	0.0061	0.0059	3	1.03
LLM1	30-Oct-23	As-D	mg/L	0.0001	0.0001	0.00049	0.00051	4	0.96
LLM1	30-Oct-23	As-T	mg/L	0.0001	0.0001	0.00048	0.00045	7	1.07
LLM1	30-Oct-23	Ba-D	mg/L	0.001	0.001	0.0074	0.0074	0	1.00
LLM1	30-Oct-23	Ba-T	mg/L	0.001	0.001	0.0069	0.0065	6	1.06
LLM1	30-Oct-23	B-D	mg/L	0.05	0.05	0.067	0.068	2	0.99
LLM1	30-Oct-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	30-Oct-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	30-Oct-23	B-T	mg/L	0.05	0.05	0.056	0.053	6	1.06

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	30-Oct-23	Ca-D	mg/L	0.05	0.05	31.2	30.9	1	1.01
LLM1	30-Oct-23	Ca-T	mg/L	0.05	0.05	28.8	27.5	5	1.05
LLM1	30-Oct-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	30-Oct-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	30-Oct-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LLM1	30-Oct-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	30-Oct-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	30-Oct-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	30-Oct-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	30-Oct-23	Cu-D	mg/L	0.0002	0.0002	0.00032	0.00037	15	0.86
LLM1	30-Oct-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	30-Oct-23	DOC	mg/L	0.5	0.5	3.5	3.8	8	0.92
LLM1	30-Oct-23	Fe-D	mg/L	0.005	0.005	0.0091	0.0109	18	0.83
LLM1	30-Oct-23	Fe-T	mg/L	0.01	0.01	0.023	0.022	4	1.05
LLM1	30-Oct-23	Hard-D	mg/L	0.5	0.5	95.0	93.5	2	1.02
LLM1	30-Oct-23	Hard-T	mg/L	0.5	0.5	87.3	83.1	5	1.05
LLM1	30-Oct-23	K-D	mg/L	0.05	0.05	0.331	0.330	0	1.00
LLM1	30-Oct-23	K-T	mg/L	0.05	0.05	0.314	0.292	7	1.08
LLM1	30-Oct-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM1	30-Oct-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM1	30-Oct-23	Mg-D	mg/L	0.05	0.05	4.12	3.97	4	1.04
LLM1	30-Oct-23	Mg-T	mg/L	0.05	0.05	3.74	3.49	7	1.07
LLM1	30-Oct-23	Mn-D	mg/L	0.001	0.001	0.0042	0.0046	9	0.91
LLM1	30-Oct-23	Mn-T	mg/L	0.001	0.001	0.0115	0.0110	4	1.05
LLM1	30-Oct-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	30-Oct-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	30-Oct-23	Na-D	mg/L	0.05	0.05	9.03	8.87	2	1.02
LLM1	30-Oct-23	Na-T	mg/L	0.05	0.05	8.37	7.82	7	1.07
LLM1	30-Oct-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	30-Oct-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM1	30-Oct-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
LLM1	30-Oct-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	30-Oct-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM1	30-Oct-23	P-T	mg/L	0.003	0.003	<0.0030	0.0041	31	0.73
LLM1	30-Oct-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	30-Oct-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM1	30-Oct-23	S-D	mg/L	3	3	27.6	27.6	0	1.00
LLM1	30-Oct-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	30-Oct-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	30-Oct-23	Si-D	mg/L	0.1	0.1	3.20	3.22	1	0.99
LLM1	30-Oct-23	Si-T	mg/L	0.1	0.1	3.00	2.86	5	1.05
LLM1	30-Oct-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	30-Oct-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	30-Oct-23	SO4-D	mg/L	1	1	77	77	0	1.00
LLM1	30-Oct-23	Sr-D	mg/L	0.001	0.001	0.208	0.207	1	1.00
LLM1	30-Oct-23	Sr-T	mg/L	0.001	0.001	0.195	0.181	7	1.08
LLM1	30-Oct-23	S-T	mg/L	3	3	25.8	23.5	9	1.10
LLM1	30-Oct-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	30-Oct-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	30-Oct-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	30-Oct-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM1	30-Oct-23	Turb	NTU	0.1	0.1	0.37	0.32	15	1.16
LLM1	30-Oct-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	30-Oct-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	30-Oct-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	30-Oct-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	30-Oct-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	30-Oct-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM1	30-Oct-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM1	30-Oct-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	12-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM4	12-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM4	12-Apr-23	Al-D	mg/L	0.003	0.003	0.0178	0.0193	8	0.92
LLM4	12-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLM4	12-Apr-23	Alk-T	mg/L	1	1	24	24	0	1.00
LLM4	12-Apr-23	Al-T	mg/L	0.003	0.003	0.0229	0.0229	0	1.00
LLM4	12-Apr-23	As-D	mg/L	0.0001	0.0001	0.00034	0.00033	3	1.03
LLM4	12-Apr-23	As-T	mg/L	0.0001	0.0001	0.00031	0.00029	7	1.07

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM4	12-Apr-23	Ba-D	mg/L	0.001	0.001	0.0049	0.0047	4	1.04
LLM4	12-Apr-23	Ba-T	mg/L	0.001	0.001	0.0048	0.0046	4	1.04
LLM4	12-Apr-23	B-D	mg/L	0.05	0.05	0.050	<0.050	0	1.00
LLM4	12-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	12-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	12-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LLM4	12-Apr-23	Ca-D	mg/L	0.05	0.05	21.7	20.6	5	1.05
LLM4	12-Apr-23	Ca-T	mg/L	0.05	0.05	20.1	19.6	3	1.03
LLM4	12-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	12-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	12-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LLM4	12-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	12-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	12-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	12-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	12-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00035	0.00041	16	0.85
LLM4	12-Apr-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	12-Apr-23	DOC	mg/L	0.5	0.5	2.9	2.9	0	1.00
LLM4	12-Apr-23	Fe-D	mg/L	0.005	0.005	0.0375	0.0402	7	0.93
LLM4	12-Apr-23	Fe-T	mg/L	0.01	0.01	0.056	0.056	0	1.00
LLM4	12-Apr-23	Hard-D	mg/L	0.5	0.5	65.9	63.1	4	1.04
LLM4	12-Apr-23	Hard-T	mg/L	0.5	0.5	61.3	59.8	3	1.03
LLM4	12-Apr-23	K-D	mg/L	0.05	0.05	0.229	0.223	3	1.03
LLM4	12-Apr-23	K-T	mg/L	0.05	0.05	0.217	0.214	1	1.01
LLM4	12-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM4	12-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM4	12-Apr-23	Mg-D	mg/L	0.05	0.05	2.85	2.79	2	1.02
LLM4	12-Apr-23	Mg-T	mg/L	0.05	0.05	2.68	2.64	2	1.02
LLM4	12-Apr-23	Mn-D	mg/L	0.001	0.001	0.0083	0.0081	2	1.02
LLM4	12-Apr-23	Mn-T	mg/L	0.001	0.001	0.0092	0.0094	2	0.98
LLM4	12-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	12-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	12-Apr-23	Na-D	mg/L	0.05	0.05	6.01	5.78	4	1.04
LLM4	12-Apr-23	Na-T	mg/L	0.05	0.05	5.62	5.49	2	1.02
LLM4	12-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	12-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	12-Apr-23	N-NO23	mg/L	0.02	0.02	0.026	0.027	4	0.96
LLM4	12-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	12-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	12-Apr-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LLM4	12-Apr-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LLM4	12-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	12-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	12-Apr-23	S-D	mg/L	3	3	16.7	16.2	3	1.03
LLM4	12-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	12-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	12-Apr-23	Si-D	mg/L	0.1	0.1	3.51	3.48	1	1.01
LLM4	12-Apr-23	Si-T	mg/L	0.1	0.1	3.35	3.43	2	0.98
LLM4	12-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	12-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	12-Apr-23	SO4-D	mg/L	1	1	68	46	39	1.48
LLM4	12-Apr-23	Sr-D	mg/L	0.001	0.001	0.124	0.119	4	1.04
LLM4	12-Apr-23	Sr-T	mg/L	0.001	0.001	0.116	0.115	1	1.01
LLM4	12-Apr-23	S-T	mg/L	3	3	15.9	15.6	2	1.02
LLM4	12-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	12-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	12-Apr-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	12-Apr-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	12-Apr-23	Turb	NTU	0.1	0.1	0.40	0.41	3	0.98
LLM4	12-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	12-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	12-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	12-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	12-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	12-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	12-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	12-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	18-Jul-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM4	18-Jul-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM4	18-Jul-23	Al-D	mg/L	0.003	0.003	0.0112	0.0112	0	1.00
LLM4	18-Jul-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLM4	18-Jul-23	Alk-T	mg/L	1	1	28	25	11	1.12
LLM4	18-Jul-23	Al-T	mg/L	0.003	0.003	0.0108	0.0112	4	0.96
LLM4	18-Jul-23	As-D	mg/L	0.0001	0.0001	0.00049	0.00065	28	0.75
LLM4	18-Jul-23	As-T	mg/L	0.0001	0.0001	0.00041	0.00051	22	0.80
LLM4	18-Jul-23	Ba-D	mg/L	0.001	0.001	0.0052	0.0050	4	1.04
LLM4	18-Jul-23	Ba-T	mg/L	0.001	0.001	0.0045	0.0039	14	1.15
LLM4	18-Jul-23	B-D	mg/L	0.05	0.05	0.053	<0.050	6	1.06
LLM4	18-Jul-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	18-Jul-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	18-Jul-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LLM4	18-Jul-23	Ca-D	mg/L	0.05	0.05	21.1	18.9	11	1.12
LLM4	18-Jul-23	Ca-T	mg/L	0.05	0.05	18.8	15.6	19	1.21
LLM4	18-Jul-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	18-Jul-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	18-Jul-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LLM4	18-Jul-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	18-Jul-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	18-Jul-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	18-Jul-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	18-Jul-23	Cu-D	mg/L	0.0002	0.0002	0.00031	0.00031	0	1.00
LLM4	18-Jul-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	18-Jul-23	DOC	mg/L	0.5	0.5	3.2	3.2	0	1.00
LLM4	18-Jul-23	Fe-D	mg/L	0.005	0.005	0.0284	0.0303	7	0.94
LLM4	18-Jul-23	Fe-T	mg/L	0.01	0.01	0.032	0.032	0	1.00
LLM4	18-Jul-23	Hard-D	mg/L	0.5	0.5	64.2	58.4	10	1.10
LLM4	18-Jul-23	Hard-T	mg/L	0.5	0.5	57.1	48.0	17	1.19
LLM4	18-Jul-23	K-D	mg/L	0.05	0.05	0.249	0.240	4	1.04
LLM4	18-Jul-23	K-T	mg/L	0.05	0.05	0.224	0.193	15	1.16
LLM4	18-Jul-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM4	18-Jul-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM4	18-Jul-23	Mg-D	mg/L	0.05	0.05	2.80	2.72	3	1.03
LLM4	18-Jul-23	Mg-T	mg/L	0.05	0.05	2.46	2.18	12	1.13
LLM4	18-Jul-23	Mn-D	mg/L	0.001	0.001	0.0046	0.0027	52	1.70
LLM4	18-Jul-23	Mn-T	mg/L	0.001	0.001	0.0105	0.0080	27	1.31
LLM4	18-Jul-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	18-Jul-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	18-Jul-23	Na-D	mg/L	0.05	0.05	6.27	5.65	10	1.11
LLM4	18-Jul-23	Na-T	mg/L	0.05	0.05	5.42	4.41	21	1.23
LLM4	18-Jul-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	18-Jul-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	18-Jul-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
LLM4	18-Jul-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	18-Jul-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	18-Jul-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LLM4	18-Jul-23	P-T	mg/L	0.003	0.003	0.0055	<0.0030	59	1.83
LLM4	18-Jul-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	18-Jul-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	18-Jul-23	S-D	mg/L	3	3	17.6	16.2	8	1.09
LLM4	18-Jul-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	18-Jul-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	18-Jul-23	Si-D	mg/L	0.1	0.1	3.01	3.14	4	0.96
LLM4	18-Jul-23	Si-T	mg/L	0.1	0.1	2.90	2.82	3	1.03
LLM4	18-Jul-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	18-Jul-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	18-Jul-23	SO4-D	mg/L	1	1	53	45	16	1.18
LLM4	18-Jul-23	Sr-D	mg/L	0.001	0.001	0.131	0.119	10	1.10
LLM4	18-Jul-23	Sr-T	mg/L	0.001	0.001	0.115	0.0917	23	1.25
LLM4	18-Jul-23	S-T	mg/L	3	3	15.1	12.3	20	1.23
LLM4	18-Jul-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	18-Jul-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	18-Jul-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	18-Jul-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	18-Jul-23	Turb	NTU	0.1	0.1	0.23	0.30	26	0.77
LLM4	18-Jul-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	18-Jul-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM4	18-Jul-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	18-Jul-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	18-Jul-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	18-Jul-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	18-Jul-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	18-Jul-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	17-Oct-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM4	17-Oct-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM4	17-Oct-23	Al-D	mg/L	0.003	0.003	0.0047	0.0038	21	1.24
LLM4	17-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLM4	17-Oct-23	Alk-T	mg/L	1	1	33	32	3	1.03
LLM4	17-Oct-23	Al-T	mg/L	0.003	0.003	0.0048	0.0051	6	0.94
LLM4	17-Oct-23	As-D	mg/L	0.0001	0.0001	0.00058	0.00057	2	1.02
LLM4	17-Oct-23	As-T	mg/L	0.0001	0.0001	0.00063	0.00060	5	1.05
LLM4	17-Oct-23	Ba-D	mg/L	0.001	0.001	0.0070	0.0068	3	1.03
LLM4	17-Oct-23	Ba-T	mg/L	0.001	0.001	0.0072	0.0071	1	1.01
LLM4	17-Oct-23	B-D	mg/L	0.05	0.05	0.067	0.068	2	0.99
LLM4	17-Oct-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	17-Oct-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	17-Oct-23	B-T	mg/L	0.05	0.05	0.067	0.066	2	1.02
LLM4	17-Oct-23	Ca-D	mg/L	0.05	0.05	29.7	29.7	0	1.00
LLM4	17-Oct-23	Ca-T	mg/L	0.05	0.05	30.5	30.0	2	1.02
LLM4	17-Oct-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	17-Oct-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	17-Oct-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LLM4	17-Oct-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	17-Oct-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	17-Oct-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	17-Oct-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	17-Oct-23	Cu-D	mg/L	0.0002	0.0002	0.00031	0.00030	3	1.03
LLM4	17-Oct-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	17-Oct-23	DOC	mg/L	0.5	0.5	3.1	3.2	3	0.97
LLM4	17-Oct-23	Fe-D	mg/L	0.005	0.005	0.0177	0.0081	74	2.19
LLM4	17-Oct-23	Fe-T	mg/L	0.01	0.01	<0.010	0.018	57	0.56
LLM4	17-Oct-23	Hard-D	mg/L	0.5	0.5	90.7	90.4	0	1.00
LLM4	17-Oct-23	Hard-T	mg/L	0.5	0.5	92.7	91.3	2	1.02
LLM4	17-Oct-23	K-D	mg/L	0.05	0.05	0.333	0.324	3	1.03
LLM4	17-Oct-23	K-T	mg/L	0.05	0.05	0.338	0.331	2	1.02
LLM4	17-Oct-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM4	17-Oct-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM4	17-Oct-23	Mg-D	mg/L	0.05	0.05	3.99	3.98	0	1.00
LLM4	17-Oct-23	Mg-T	mg/L	0.05	0.05	4.03	3.99	1	1.01
LLM4	17-Oct-23	Mn-D	mg/L	0.001	0.001	0.0064	<0.0010	146	6.40
LLM4	17-Oct-23	Mn-T	mg/L	0.001	0.001	<0.0010	0.0064	146	0.16
LLM4	17-Oct-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	17-Oct-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	17-Oct-23	Na-D	mg/L	0.05	0.05	8.59	8.54	1	1.01
LLM4	17-Oct-23	Na-T	mg/L	0.05	0.05	8.78	8.53	3	1.03
LLM4	17-Oct-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	17-Oct-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	17-Oct-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
LLM4	17-Oct-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	17-Oct-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	17-Oct-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LLM4	17-Oct-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	17-Oct-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	17-Oct-23	S-D	mg/L	3	3	25.0	25.9	4	0.97
LLM4	17-Oct-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	17-Oct-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	17-Oct-23	Si-D	mg/L	0.1	0.1	3.19	3.15	1	1.01
LLM4	17-Oct-23	Si-T	mg/L	0.1	0.1	3.30	3.26	1	1.01
LLM4	17-Oct-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	17-Oct-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	17-Oct-23	SO4-D	mg/L	1	1	72	72	0	1.00
LLM4	17-Oct-23	Sr-D	mg/L	0.001	0.001	0.184	0.184	0	1.00
LLM4	17-Oct-23	Sr-T	mg/L	0.001	0.001	0.187	0.184	2	1.02
LLM4	17-Oct-23	S-T	mg/L	3	3	26.1	26.5	2	0.98
LLM4	17-Oct-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM4	17-Oct-23	TI-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	17-Oct-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	17-Oct-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	17-Oct-23	Turb	NTU	0.1	0.1	0.23	0.22	4	1.05
LLM4	17-Oct-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	17-Oct-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	17-Oct-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	17-Oct-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	17-Oct-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	17-Oct-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	17-Oct-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	17-Oct-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	23-Oct-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM4	23-Oct-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLM4	23-Oct-23	Al-D	mg/L	0.003	0.003	0.0039	0.0038	3	1.03
LLM4	23-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLM4	23-Oct-23	Alk-T	mg/L	1	1	33	31	6	1.06
LLM4	23-Oct-23	Al-T	mg/L	0.003	0.003	0.0063	0.0058	8	1.09
LLM4	23-Oct-23	As-D	mg/L	0.0001	0.0001	0.00057	0.00054	5	1.06
LLM4	23-Oct-23	As-T	mg/L	0.0001	0.0001	0.00051	0.00053	4	0.96
LLM4	23-Oct-23	Ba-D	mg/L	0.001	0.001	0.0070	0.0071	1	0.99
LLM4	23-Oct-23	Ba-T	mg/L	0.001	0.001	0.0071	0.0069	3	1.03
LLM4	23-Oct-23	B-D	mg/L	0.05	0.05	0.068	0.065	5	1.05
LLM4	23-Oct-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	23-Oct-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	23-Oct-23	B-T	mg/L	0.05	0.05	0.059	0.057	3	1.04
LLM4	23-Oct-23	Ca-D	mg/L	0.05	0.05	29.5	30.6	4	0.96
LLM4	23-Oct-23	Ca-T	mg/L	0.05	0.05	28.5	28.4	0	1.00
LLM4	23-Oct-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	23-Oct-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	23-Oct-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LLM4	23-Oct-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	23-Oct-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	23-Oct-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	23-Oct-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	23-Oct-23	Cu-D	mg/L	0.0002	0.0002	0.00030	0.00030	0	1.00
LLM4	23-Oct-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	23-Oct-23	DOC	mg/L	0.5	0.5	3.3	3.2	3	1.03
LLM4	23-Oct-23	Fe-D	mg/L	0.005	0.005	0.0085	0.0087	2	0.98
LLM4	23-Oct-23	Fe-T	mg/L	0.01	0.01	0.020	0.019	5	1.05
LLM4	23-Oct-23	Hard-D	mg/L	0.5	0.5	89.8	92.7	3	0.97
LLM4	23-Oct-23	Hard-T	mg/L	0.5	0.5	86.7	86.3	1	1.00
LLM4	23-Oct-23	K-D	mg/L	0.05	0.05	0.305	0.316	4	0.97
LLM4	23-Oct-23	K-T	mg/L	0.05	0.05	0.320	0.310	3	1.03
LLM4	23-Oct-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM4	23-Oct-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLM4	23-Oct-23	Mg-D	mg/L	0.05	0.05	3.94	3.99	1	0.99
LLM4	23-Oct-23	Mg-T	mg/L	0.05	0.05	3.80	3.72	2	1.02
LLM4	23-Oct-23	Mn-D	mg/L	0.001	0.001	0.0011	0.0011	0	1.00
LLM4	23-Oct-23	Mn-T	mg/L	0.001	0.001	0.0067	0.0066	2	1.02
LLM4	23-Oct-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	23-Oct-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	23-Oct-23	Na-D	mg/L	0.05	0.05	8.64	8.70	1	0.99
LLM4	23-Oct-23	Na-T	mg/L	0.05	0.05	8.35	8.21	2	1.02
LLM4	23-Oct-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	23-Oct-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLM4	23-Oct-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
LLM4	23-Oct-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLM4	23-Oct-23	Pb-T	mg/L	0.0002	0.0002	0.00026	<0.00020	26	1.30
LLM4	23-Oct-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LLM4	23-Oct-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	23-Oct-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLM4	23-Oct-23	S-D	mg/L	3	3	29.4	26.9	9	1.09
LLM4	23-Oct-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	23-Oct-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	23-Oct-23	Si-D	mg/L	0.1	0.1	3.28	3.20	3	1.02
LLM4	23-Oct-23	Si-T	mg/L	0.1	0.1	3.10	3.09	0	1.00
LLM4	23-Oct-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM4	23-Oct-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	23-Oct-23	SO4-D	mg/L	1	1	75	76	1	0.99
LLM4	23-Oct-23	Sr-D	mg/L	0.001	0.001	0.183	0.182	1	1.01
LLM4	23-Oct-23	Sr-T	mg/L	0.001	0.001	0.177	0.172	3	1.03
LLM4	23-Oct-23	S-T	mg/L	3	3	25.2	24.9	1	1.01
LLM4	23-Oct-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	23-Oct-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	23-Oct-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	23-Oct-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLM4	23-Oct-23	Turb	NTU	0.1	0.1	0.27	0.25	8	1.08
LLM4	23-Oct-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	23-Oct-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	23-Oct-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	23-Oct-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	23-Oct-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	23-Oct-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLM4	23-Oct-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLM4	23-Oct-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLO	24-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLO	24-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LLO	24-Apr-23	Al-D	mg/L	0.003	0.003	0.0203	0.0205	1	0.99
LLO	24-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LLO	24-Apr-23	Alk-T	mg/L	1	1	21	21	0	1.00
LLO	24-Apr-23	Al-T	mg/L	0.003	0.003	0.0349	0.0275	24	1.27
LLO	24-Apr-23	As-D	mg/L	0.0001	0.0001	0.00033	0.00034	3	0.97
LLO	24-Apr-23	As-T	mg/L	0.0001	0.0001	0.00037	0.00036	3	1.03
LLO	24-Apr-23	Ba-D	mg/L	0.001	0.001	0.0041	0.0040	3	1.02
LLO	24-Apr-23	Ba-T	mg/L	0.001	0.001	0.0039	0.0038	3	1.03
LLO	24-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LLO	24-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLO	24-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLO	24-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LLO	24-Apr-23	Ca-D	mg/L	0.05	0.05	15.9	16.3	3	0.98
LLO	24-Apr-23	Ca-T	mg/L	0.05	0.05	15.3	15.0	2	1.02
LLO	24-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLO	24-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLO	24-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LLO	24-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLO	24-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLO	24-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLO	24-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLO	24-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00044	0.00036	20	1.22
LLO	24-Apr-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLO	24-Apr-23	DOC	mg/L	0.5	0.5	3.0	2.8	7	1.07
LLO	24-Apr-23	Fe-D	mg/L	0.005	0.005	0.0374	0.0377	1	0.99
LLO	24-Apr-23	Fe-T	mg/L	0.01	0.01	0.074	0.061	19	1.21
LLO	24-Apr-23	Hard-D	mg/L	0.5	0.5	48.9	49.8	2	0.98
LLO	24-Apr-23	Hard-T	mg/L	0.5	0.5	47.1	46.0	2	1.02
LLO	24-Apr-23	K-D	mg/L	0.05	0.05	0.189	0.189	0	1.00
LLO	24-Apr-23	K-T	mg/L	0.05	0.05	0.181	0.171	6	1.06
LLO	24-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLO	24-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LLO	24-Apr-23	Mg-D	mg/L	0.05	0.05	2.24	2.20	2	1.02
LLO	24-Apr-23	Mg-T	mg/L	0.05	0.05	2.14	2.07	3	1.03
LLO	24-Apr-23	Mn-D	mg/L	0.001	0.001	0.0043	0.0043	0	1.00
LLO	24-Apr-23	Mn-T	mg/L	0.001	0.001	0.0087	0.0067	26	1.30
LLO	24-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLO	24-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLO	24-Apr-23	Na-D	mg/L	0.05	0.05	4.50	4.51	0	1.00
LLO	24-Apr-23	Na-T	mg/L	0.05	0.05	4.40	4.21	4	1.05
LLO	24-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLO	24-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LLO	24-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLO	24-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LLO	24-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLO	24-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LLO	24-Apr-23	S-D	mg/L	3	3	11.9	12.0	1	0.99
LLO	24-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLO	24-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLO	24-Apr-23	Si-D	mg/L	0.1	0.1	3.48	3.55	2	0.98
LLO	24-Apr-23	Si-T	mg/L	0.1	0.1	3.41	3.27	4	1.04
LLO	24-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLO	24-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLO	24-Apr-23	SO4-D	mg/L	1	1	36	36	0	1.00
LLO	24-Apr-23	Sr-D	mg/L	0.001	0.001	0.0937	0.0931	1	1.01
LLO	24-Apr-23	Sr-T	mg/L	0.001	0.001	0.0899	0.0878	2	1.02
LLO	24-Apr-23	S-T	mg/L	3	3	12.0	11.3	6	1.06
LLO	24-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLO	24-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLO	24-Apr-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLO	24-Apr-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LLO	24-Apr-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
LLO	24-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLO	24-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLO	24-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLO	24-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLO	24-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLO	24-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LLO	24-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LLO	24-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	4-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LQL1	4-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LQL1	4-Apr-23	Al-D	mg/L	0.003	0.003	0.0194	0.0151	25	1.28
LQL1	4-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LQL1	4-Apr-23	Alk-T	mg/L	1	1	32	30	7	1.07
LQL1	4-Apr-23	Al-T	mg/L	0.003	0.003	0.0147	0.0211	36	0.70
LQL1	4-Apr-23	As-D	mg/L	0.0001	0.0001	0.00061	0.00056	9	1.09
LQL1	4-Apr-23	As-T	mg/L	0.0001	0.0001	0.00058	0.00060	3	0.97
LQL1	4-Apr-23	Ba-D	mg/L	0.001	0.001	0.0028	0.0028	0	1.00
LQL1	4-Apr-23	Ba-T	mg/L	0.001	0.001	0.0027	0.0027	0	1.00
LQL1	4-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LQL1	4-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	4-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	4-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LQL1	4-Apr-23	Ca-D	mg/L	0.05	0.05	10.2	10.2	0	1.00
LQL1	4-Apr-23	Ca-T	mg/L	0.05	0.05	9.42	9.54	1	0.99
LQL1	4-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LQL1	4-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LQL1	4-Apr-23	Cl-D	mg/L	1	1	1.1	<1.0	10	1.10
LQL1	4-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LQL1	4-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LQL1	4-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	4-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	4-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00051	0.00046	10	1.11
LQL1	4-Apr-23	Cu-T	mg/L	0.0005	0.0005	0.00052	0.00051	2	1.02
LQL1	4-Apr-23	DOC	mg/L	0.5	0.5	2.4	2.6	8	0.92
LQL1	4-Apr-23	Fe-D	mg/L	0.005	0.005	0.0718	0.0423	52	1.70
LQL1	4-Apr-23	Fe-T	mg/L	0.01	0.01	0.040	0.070	55	0.57
LQL1	4-Apr-23	Hard-D	mg/L	0.5	0.5	30.7	30.7	0	1.00
LQL1	4-Apr-23	Hard-T	mg/L	0.5	0.5	28.7	29.2	2	0.98
LQL1	4-Apr-23	K-D	mg/L	0.05	0.05	0.179	0.177	1	1.01
LQL1	4-Apr-23	K-T	mg/L	0.05	0.05	0.173	0.177	2	0.98
LQL1	4-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LQL1	4-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LQL1	4-Apr-23	Mg-D	mg/L	0.05	0.05	1.28	1.30	2	0.98
LQL1	4-Apr-23	Mg-T	mg/L	0.05	0.05	1.25	1.30	4	0.96
LQL1	4-Apr-23	Mn-D	mg/L	0.001	0.001	0.0053	0.0031	52	1.71
LQL1	4-Apr-23	Mn-T	mg/L	0.001	0.001	0.0030	0.0053	55	0.57
LQL1	4-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	4-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	4-Apr-23	Na-D	mg/L	0.05	0.05	7.93	7.94	0	1.00
LQL1	4-Apr-23	Na-T	mg/L	0.05	0.05	7.69	7.74	1	0.99
LQL1	4-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	4-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	4-Apr-23	N-NO23	mg/L	0.02	0.02	0.033	0.024	32	1.38
LQL1	4-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LQL1	4-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LQL1	4-Apr-23	P-T	mg/L	0.003	0.003	<0.0030	0.0064	72	0.47
LQL1	4-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LQL1	4-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LQL1	4-Apr-23	S-D	mg/L	3	3	5.6	5.9	5	0.95
LQL1	4-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	4-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	4-Apr-23	Si-D	mg/L	0.1	0.1	2.69	2.66	1	1.01
LQL1	4-Apr-23	Si-T	mg/L	0.1	0.1	2.49	2.49	0	1.00
LQL1	4-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	4-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	4-Apr-23	SO4-D	mg/L	1	1	17	17	0	1.00
LQL1	4-Apr-23	Sr-D	mg/L	0.001	0.001	0.0471	0.0485	3	0.97
LQL1	4-Apr-23	Sr-T	mg/L	0.001	0.001	0.0451	0.0458	2	0.98
LQL1	4-Apr-23	S-T	mg/L	3	3	5.3	5.6	6	0.95
LQL1	4-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	4-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	4-Apr-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LQL1	4-Apr-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LQL1	4-Apr-23	Turb	NTU	0.1	0.1	0.25	0.23	8	1.09
LQL1	4-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	4-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	4-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	4-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	4-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	4-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	4-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	4-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	2-May-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LQL1	2-May-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
LQL1	2-May-23	Al-D	mg/L	0.003	0.003	0.0307	0.0287	7	1.07
LQL1	2-May-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
LQL1	2-May-23	Alk-T	mg/L	1	1	27	28	4	0.96
LQL1	2-May-23	Al-T	mg/L	0.003	0.003	0.0371	0.0377	2	0.98
LQL1	2-May-23	As-D	mg/L	0.0001	0.0001	0.00056	0.00052	7	1.08
LQL1	2-May-23	As-T	mg/L	0.0001	0.0001	0.00055	0.00058	5	0.95
LQL1	2-May-23	Ba-D	mg/L	0.001	0.001	0.0029	0.0030	3	0.97
LQL1	2-May-23	Ba-T	mg/L	0.001	0.001	0.0027	0.0029	7	0.93
LQL1	2-May-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LQL1	2-May-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	2-May-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	2-May-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
LQL1	2-May-23	Ca-D	mg/L	0.05	0.05	9.22	9.27	1	0.99
LQL1	2-May-23	Ca-T	mg/L	0.05	0.05	9.78	9.43	4	1.04
LQL1	2-May-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LQL1	2-May-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LQL1	2-May-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
LQL1	2-May-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LQL1	2-May-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LQL1	2-May-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	2-May-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	2-May-23	Cu-D	mg/L	0.0002	0.0002	0.00056	0.00057	2	0.98
LQL1	2-May-23	Cu-T	mg/L	0.0005	0.0005	0.00054	0.00055	2	0.98
LQL1	2-May-23	DOC	mg/L	0.5	0.5	3.2	3.1	3	1.03
LQL1	2-May-23	Fe-D	mg/L	0.005	0.005	0.0351	0.0357	2	0.98
LQL1	2-May-23	Fe-T	mg/L	0.01	0.01	0.068	0.065	5	1.05
LQL1	2-May-23	Hard-D	mg/L	0.5	0.5	27.3	27.4	0	1.00
LQL1	2-May-23	Hard-T	mg/L	0.5	0.5	28.4	27.8	2	1.02
LQL1	2-May-23	K-D	mg/L	0.05	0.05	0.161	0.160	1	1.01
LQL1	2-May-23	K-T	mg/L	0.05	0.05	0.150	0.158	5	0.95
LQL1	2-May-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LQL1	2-May-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
LQL1	2-May-23	Mg-D	mg/L	0.05	0.05	1.04	1.04	0	1.00
LQL1	2-May-23	Mg-T	mg/L	0.05	0.05	0.966	1.04	7	0.93
LQL1	2-May-23	Mn-D	mg/L	0.001	0.001	0.0017	0.0018	6	0.94
LQL1	2-May-23	Mn-T	mg/L	0.001	0.001	0.0034	0.0037	9	0.92
LQL1	2-May-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	2-May-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LQL1	2-May-23	Na-D	mg/L	0.05	0.05	5.08	5.08	0	1.00
LQL1	2-May-23	Na-T	mg/L	0.05	0.05	4.75	5.06	6	0.94
LQL1	2-May-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	2-May-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
LQL1	2-May-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
LQL1	2-May-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LQL1	2-May-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
LQL1	2-May-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LQL1	2-May-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
LQL1	2-May-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LQL1	2-May-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
LQL1	2-May-23	S-D	mg/L	3	3	3.7	3.6	3	1.03
LQL1	2-May-23	Se-D	mg/L	0.0001	0.0001	<0.00010	0.00011	10	0.91
LQL1	2-May-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	2-May-23	Si-D	mg/L	0.1	0.1	2.35	2.35	0	1.00
LQL1	2-May-23	Si-T	mg/L	0.1	0.1	2.45	2.49	2	0.98
LQL1	2-May-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	2-May-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	2-May-23	SO4-D	mg/L	1	1	11	11	0	1.00
LQL1	2-May-23	Sr-D	mg/L	0.001	0.001	0.0399	0.0410	3	0.97
LQL1	2-May-23	Sr-T	mg/L	0.001	0.001	0.0375	0.0387	3	0.97
LQL1	2-May-23	S-T	mg/L	3	3	3.3	3.4	3	0.97
LQL1	2-May-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	2-May-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	2-May-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LQL1	2-May-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
LQL1	2-May-23	Turb	NTU	0.1	0.1	0.37	0.36	3	1.03
LQL1	2-May-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	2-May-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	2-May-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	2-May-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	2-May-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	2-May-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
LQL1	2-May-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
LQL1	2-May-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	19-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL1	19-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL1	19-Apr-23	Al-D	mg/L	0.003	0.003	0.0096	0.0138	36	0.70
MQL1	19-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
MQL1	19-Apr-23	Alk-T	mg/L	1	1	33	33	0	1.00
MQL1	19-Apr-23	Al-T	mg/L	0.003	0.003	0.0127	0.0114	11	1.11
MQL1	19-Apr-23	As-D	mg/L	0.0001	0.0001	0.00011	0.00011	0	1.00
MQL1	19-Apr-23	As-T	mg/L	0.0001	0.0001	0.00010	0.00011	10	0.91
MQL1	19-Apr-23	Ba-D	mg/L	0.001	0.001	0.0014	0.0016	13	0.88
MQL1	19-Apr-23	Ba-T	mg/L	0.001	0.001	0.0014	0.0014	0	1.00
MQL1	19-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL1	19-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	19-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	19-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL1	19-Apr-23	Ca-D	mg/L	0.05	0.05	9.74	9.93	2	0.98
MQL1	19-Apr-23	Ca-T	mg/L	0.05	0.05	9.18	9.41	3	0.98
MQL1	19-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	19-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	19-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
MQL1	19-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	19-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	19-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	19-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	19-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00047	0.00053	12	0.89
MQL1	19-Apr-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	19-Apr-23	DOC	mg/L	0.5	0.5	1.7	1.9	11	0.89
MQL1	19-Apr-23	Fe-D	mg/L	0.005	0.005	0.0135	0.0198	38	0.68
MQL1	19-Apr-23	Fe-T	mg/L	0.01	0.01	0.022	0.022	0	1.00
MQL1	19-Apr-23	Hard-D	mg/L	0.5	0.5	29.4	30.0	2	0.98
MQL1	19-Apr-23	Hard-T	mg/L	0.5	0.5	27.8	28.4	2	0.98
MQL1	19-Apr-23	K-D	mg/L	0.05	0.05	0.171	0.179	5	0.96
MQL1	19-Apr-23	K-T	mg/L	0.05	0.05	0.167	0.175	5	0.95
MQL1	19-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL1	19-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL1	19-Apr-23	Mg-D	mg/L	0.05	0.05	1.24	1.27	2	0.98
MQL1	19-Apr-23	Mg-T	mg/L	0.05	0.05	1.18	1.19	1	0.99
MQL1	19-Apr-23	Mn-D	mg/L	0.001	0.001	0.0013	0.0015	14	0.87
MQL1	19-Apr-23	Mn-T	mg/L	0.001	0.001	0.0027	0.0028	4	0.96
MQL1	19-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	19-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	19-Apr-23	Na-D	mg/L	0.05	0.05	9.93	10.1	2	0.98
MQL1	19-Apr-23	Na-T	mg/L	0.05	0.05	9.23	9.56	4	0.97
MQL1	19-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	19-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	19-Apr-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
MQL1	19-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	19-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	19-Apr-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
MQL1	19-Apr-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
MQL1	19-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	19-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	19-Apr-23	S-D	mg/L	3	3	5.6	6.2	10	0.90
MQL1	19-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	19-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	19-Apr-23	Si-D	mg/L	0.1	0.1	1.83	1.84	1	0.99
MQL1	19-Apr-23	Si-T	mg/L	0.1	0.1	1.85	1.90	3	0.97
MQL1	19-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	19-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	19-Apr-23	SO4-D	mg/L	1	1	19	18	5	1.06
MQL1	19-Apr-23	Sr-D	mg/L	0.001	0.001	0.0442	0.0454	3	0.97
MQL1	19-Apr-23	Sr-T	mg/L	0.001	0.001	0.0419	0.0429	2	0.98
MQL1	19-Apr-23	S-T	mg/L	3	3	5.5	5.7	4	0.96
MQL1	19-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	19-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	19-Apr-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	19-Apr-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	19-Apr-23	Turb	NTU	0.1	0.1	0.18	0.16	12	1.12
MQL1	19-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	19-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	19-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	19-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	19-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	19-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	19-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	19-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	26-Jul-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL1	26-Jul-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL1	26-Jul-23	Al-D	mg/L	0.003	0.003	0.0137	0.0131	5	1.05
MQL1	26-Jul-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
MQL1	26-Jul-23	Alk-T	mg/L	1	1	33	32	3	1.03
MQL1	26-Jul-23	Al-T	mg/L	0.003	0.003	0.0143	0.0138	4	1.04
MQL1	26-Jul-23	As-D	mg/L	0.0001	0.0001	0.00012	0.00012	0	1.00
MQL1	26-Jul-23	As-T	mg/L	0.0001	0.0001	0.00017	0.00018	6	0.94
MQL1	26-Jul-23	Ba-D	mg/L	0.001	0.001	<0.0010	0.0012	18	0.83
MQL1	26-Jul-23	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	26-Jul-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL1	26-Jul-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	26-Jul-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	26-Jul-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL1	26-Jul-23	Ca-D	mg/L	0.05	0.05	9.17	9.29	1	0.99
MQL1	26-Jul-23	Ca-T	mg/L	0.05	0.05	8.18	8.14	1	1.00
MQL1	26-Jul-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	26-Jul-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	26-Jul-23	Ci-D	mg/L	1	1	<1.0	<1.0	0	1.00
MQL1	26-Jul-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	26-Jul-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	26-Jul-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	26-Jul-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	26-Jul-23	Cu-D	mg/L	0.0002	0.0002	0.00043	0.00044	2	0.98
MQL1	26-Jul-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	26-Jul-23	DOC	mg/L	0.5	0.5	2.2	2.2	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL1	26-Jul-23	Fe-D	mg/L	0.005	0.005	0.0209	0.0212	1	0.99
MQL1	26-Jul-23	Fe-T	mg/L	0.01	0.01	0.035	0.036	3	0.97
MQL1	26-Jul-23	Hard-D	mg/L	0.5	0.5	27.4	27.8	1	0.99
MQL1	26-Jul-23	Hard-T	mg/L	0.5	0.5	24.7	24.5	1	1.01
MQL1	26-Jul-23	K-D	mg/L	0.05	0.05	0.132	0.134	2	0.99
MQL1	26-Jul-23	K-T	mg/L	0.05	0.05	0.116	0.113	3	1.03
MQL1	26-Jul-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL1	26-Jul-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL1	26-Jul-23	Mg-D	mg/L	0.05	0.05	1.09	1.11	2	0.98
MQL1	26-Jul-23	Mg-T	mg/L	0.05	0.05	1.04	1.01	3	1.03
MQL1	26-Jul-23	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	26-Jul-23	Mn-T	mg/L	0.001	0.001	0.0090	0.0089	1	1.01
MQL1	26-Jul-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	26-Jul-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	26-Jul-23	Na-D	mg/L	0.05	0.05	6.68	6.79	2	0.98
MQL1	26-Jul-23	Na-T	mg/L	0.05	0.05	6.24	6.12	2	1.02
MQL1	26-Jul-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	26-Jul-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	26-Jul-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
MQL1	26-Jul-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	26-Jul-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	26-Jul-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
MQL1	26-Jul-23	P-T	mg/L	0.003	0.003	0.0063	0.0034	60	1.85
MQL1	26-Jul-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	26-Jul-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	26-Jul-23	S-D	mg/L	3	3	3.3	<3.0	10	1.10
MQL1	26-Jul-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	26-Jul-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	26-Jul-23	Si-D	mg/L	0.1	0.1	1.91	1.91	0	1.00
MQL1	26-Jul-23	Si-T	mg/L	0.1	0.1	1.66	1.63	2	1.02
MQL1	26-Jul-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	26-Jul-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	26-Jul-23	SO4-D	mg/L	1	1	9.6	9.5	1	1.01
MQL1	26-Jul-23	Sr-D	mg/L	0.001	0.001	0.0357	0.0359	1	0.99
MQL1	26-Jul-23	Sr-T	mg/L	0.001	0.001	0.0323	0.0315	3	1.03
MQL1	26-Jul-23	S-T	mg/L	3	3	3.1	<3.0	3	1.03
MQL1	26-Jul-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	26-Jul-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	26-Jul-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	26-Jul-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	26-Jul-23	Turb	NTU	0.1	0.1	0.36	0.40	11	0.90
MQL1	26-Jul-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	26-Jul-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	26-Jul-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	26-Jul-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	26-Jul-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	26-Jul-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	26-Jul-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	26-Jul-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	11-Oct-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL1	11-Oct-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL1	11-Oct-23	Al-D	mg/L	0.003	0.003	0.0055	0.0052	6	1.06
MQL1	11-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
MQL1	11-Oct-23	Alk-T	mg/L	1	1	32	31	3	1.03
MQL1	11-Oct-23	Al-T	mg/L	0.003	0.003	0.0068	0.0065	5	1.05
MQL1	11-Oct-23	As-D	mg/L	0.0001	0.0001	0.00014	0.00015	7	0.93
MQL1	11-Oct-23	As-T	mg/L	0.0001	0.0001	0.00014	0.00014	0	1.00
MQL1	11-Oct-23	Ba-D	mg/L	0.001	0.001	0.0012	0.0012	0	1.00
MQL1	11-Oct-23	Ba-T	mg/L	0.001	0.001	0.0010	<0.0010	0	1.00
MQL1	11-Oct-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL1	11-Oct-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	11-Oct-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	11-Oct-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL1	11-Oct-23	Ca-D	mg/L	0.05	0.05	8.69	8.86	2	0.98
MQL1	11-Oct-23	Ca-T	mg/L	0.05	0.05	7.44	7.17	4	1.04
MQL1	11-Oct-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	11-Oct-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	11-Oct-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL1	11-Oct-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	11-Oct-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	11-Oct-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	11-Oct-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	11-Oct-23	Cu-D	mg/L	0.0002	0.0002	0.00044	0.00043	2	1.02
MQL1	11-Oct-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	11-Oct-23	DOC	mg/L	0.5	0.5	2.2	1.9	15	1.16
MQL1	11-Oct-23	Fe-D	mg/L	0.005	0.005	0.0165	0.0168	2	0.98
MQL1	11-Oct-23	Fe-T	mg/L	0.01	0.01	0.026	0.025	4	1.04
MQL1	11-Oct-23	Hard-D	mg/L	0.5	0.5	26.0	26.5	2	0.98
MQL1	11-Oct-23	Hard-T	mg/L	0.5	0.5	22.1	21.3	4	1.04
MQL1	11-Oct-23	K-D	mg/L	0.05	0.05	0.123	0.127	3	0.97
MQL1	11-Oct-23	K-T	mg/L	0.05	0.05	0.109	0.105	4	1.04
MQL1	11-Oct-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL1	11-Oct-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL1	11-Oct-23	Mg-D	mg/L	0.05	0.05	1.05	1.08	3	0.97
MQL1	11-Oct-23	Mg-T	mg/L	0.05	0.05	0.866	0.829	4	1.04
MQL1	11-Oct-23	Mn-D	mg/L	0.001	0.001	0.0028	0.0028	0	1.00
MQL1	11-Oct-23	Mn-T	mg/L	0.001	0.001	0.0087	0.0091	5	0.96
MQL1	11-Oct-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	11-Oct-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	11-Oct-23	Na-D	mg/L	0.05	0.05	6.13	6.21	1	0.99
MQL1	11-Oct-23	Na-T	mg/L	0.05	0.05	5.28	5.07	4	1.04
MQL1	11-Oct-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	11-Oct-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL1	11-Oct-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
MQL1	11-Oct-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	11-Oct-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL1	11-Oct-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
MQL1	11-Oct-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	11-Oct-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL1	11-Oct-23	S-D	mg/L	3	3	3.0	<3.0	0	1.00
MQL1	11-Oct-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	11-Oct-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	11-Oct-23	Si-D	mg/L	0.1	0.1	1.78	1.76	1	1.01
MQL1	11-Oct-23	Si-T	mg/L	0.1	0.1	1.50	1.31	14	1.15
MQL1	11-Oct-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	11-Oct-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	11-Oct-23	SO4-D	mg/L	1	1	7.5	7.6	1	0.99
MQL1	11-Oct-23	Sr-D	mg/L	0.001	0.001	0.0273	0.0278	2	0.98
MQL1	11-Oct-23	Sr-T	mg/L	0.001	0.001	0.0240	0.0231	4	1.04
MQL1	11-Oct-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
MQL1	11-Oct-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	11-Oct-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	11-Oct-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	11-Oct-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL1	11-Oct-23	Turb	NTU	0.1	0.1	0.25	0.29	15	0.86
MQL1	11-Oct-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	11-Oct-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	11-Oct-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	11-Oct-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	11-Oct-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	11-Oct-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL1	11-Oct-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL1	11-Oct-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	25-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL4	25-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL4	25-Apr-23	Al-D	mg/L	0.003	0.003	0.0117	0.0112	4	1.04
MQL4	25-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
MQL4	25-Apr-23	Alk-T	mg/L	1	1	33	33	0	1.00
MQL4	25-Apr-23	Al-T	mg/L	0.003	0.003	0.0174	0.0123	34	1.41
MQL4	25-Apr-23	As-D	mg/L	0.0001	0.0001	0.00012	0.00012	0	1.00
MQL4	25-Apr-23	As-T	mg/L	0.0001	0.0001	0.00013	0.00011	17	1.18
MQL4	25-Apr-23	Ba-D	mg/L	0.001	0.001	0.0015	0.0015	0	1.00
MQL4	25-Apr-23	Ba-T	mg/L	0.001	0.001	0.0014	0.0014	0	1.00
MQL4	25-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL4	25-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	25-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL4	25-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL4	25-Apr-23	Ca-D	mg/L	0.05	0.05	9.56	9.52	0	1.00
MQL4	25-Apr-23	Ca-T	mg/L	0.05	0.05	9.20	8.94	3	1.03
MQL4	25-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL4	25-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL4	25-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
MQL4	25-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL4	25-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL4	25-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	25-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	25-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00049	0.00085	54	0.58
MQL4	25-Apr-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL4	25-Apr-23	DOC	mg/L	0.5	0.5	1.7	1.8	6	0.94
MQL4	25-Apr-23	Fe-D	mg/L	0.005	0.005	0.0113	0.0121	7	0.93
MQL4	25-Apr-23	Fe-T	mg/L	0.01	0.01	0.028	0.020	33	1.40
MQL4	25-Apr-23	Hard-D	mg/L	0.5	0.5	28.9	28.8	0	1.00
MQL4	25-Apr-23	Hard-T	mg/L	0.5	0.5	28.1	26.9	4	1.04
MQL4	25-Apr-23	K-D	mg/L	0.05	0.05	0.166	0.167	1	0.99
MQL4	25-Apr-23	K-T	mg/L	0.05	0.05	0.176	0.160	10	1.10
MQL4	25-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL4	25-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL4	25-Apr-23	Mg-D	mg/L	0.05	0.05	1.22	1.22	0	1.00
MQL4	25-Apr-23	Mg-T	mg/L	0.05	0.05	1.24	1.11	11	1.12
MQL4	25-Apr-23	Mn-D	mg/L	0.001	0.001	0.0012	0.0013	8	0.92
MQL4	25-Apr-23	Mn-T	mg/L	0.001	0.001	0.0029	0.0027	7	1.07
MQL4	25-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	25-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	25-Apr-23	Na-D	mg/L	0.05	0.05	9.94	9.90	0	1.00
MQL4	25-Apr-23	Na-T	mg/L	0.05	0.05	9.63	8.99	7	1.07
MQL4	25-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	25-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	25-Apr-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
MQL4	25-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL4	25-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL4	25-Apr-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
MQL4	25-Apr-23	P-T	mg/L	0.003	0.003	0.0033	<0.0030	10	1.10
MQL4	25-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL4	25-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL4	25-Apr-23	S-D	mg/L	3	3	6.1	6.1	0	1.00
MQL4	25-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	25-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	25-Apr-23	Si-D	mg/L	0.1	0.1	1.66	1.67	1	0.99
MQL4	25-Apr-23	Si-T	mg/L	0.1	0.1	1.86	1.56	18	1.19
MQL4	25-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	25-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	25-Apr-23	SO4-D	mg/L	1	1	17	18	6	0.94
MQL4	25-Apr-23	Sr-D	mg/L	0.001	0.001	0.0461	0.0463	0	1.00
MQL4	25-Apr-23	Sr-T	mg/L	0.001	0.001	0.0446	0.0417	7	1.07
MQL4	25-Apr-23	S-T	mg/L	3	3	5.0	5.4	8	0.93
MQL4	25-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	25-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	25-Apr-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL4	25-Apr-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL4	25-Apr-23	Turb	NTU	0.1	0.1	0.24	0.23	4	1.04
MQL4	25-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	25-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	25-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	25-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	25-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	25-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	25-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	25-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	1-Aug-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL4	1-Aug-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MQL4	1-Aug-23	Al-D	mg/L	0.003	0.003	0.0122	0.0131	7	0.93
MQL4	1-Aug-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
MQL4	1-Aug-23	Alk-T	mg/L	1	1	32	31	3	1.03
MQL4	1-Aug-23	Al-T	mg/L	0.003	0.003	0.0256	0.0127	67	2.02

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL4	1-Aug-23	As-D	mg/L	0.0001	0.0001	0.00016	0.00015	7	1.07
MQL4	1-Aug-23	As-T	mg/L	0.0001	0.0001	0.00018	0.00019	5	0.95
MQL4	1-Aug-23	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL4	1-Aug-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	1-Aug-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	1-Aug-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
MQL4	1-Aug-23	Ca-D	mg/L	0.05	0.05	8.73	8.97	3	0.97
MQL4	1-Aug-23	Ca-T	mg/L	0.05	0.05	7.79	7.79	0	1.00
MQL4	1-Aug-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL4	1-Aug-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL4	1-Aug-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
MQL4	1-Aug-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL4	1-Aug-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL4	1-Aug-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	Cu-D	mg/L	0.0002	0.0002	0.00045	0.00058	25	0.78
MQL4	1-Aug-23	Cu-T	mg/L	0.0005	0.0005	0.00051	<0.00050	2	1.02
MQL4	1-Aug-23	DOC	mg/L	0.5	0.5	2.7	2.5	8	1.08
MQL4	1-Aug-23	Fe-D	mg/L	0.005	0.005	0.0210	0.0211	1	1.00
MQL4	1-Aug-23	Fe-T	mg/L	0.01	0.01	0.035	0.035	0	1.00
MQL4	1-Aug-23	Hard-D	mg/L	0.5	0.5	26.2	26.9	3	0.97
MQL4	1-Aug-23	Hard-T	mg/L	0.5	0.5	23.0	23.2	1	0.99
MQL4	1-Aug-23	K-D	mg/L	0.05	0.05	0.126	0.132	5	0.95
MQL4	1-Aug-23	K-T	mg/L	0.05	0.05	0.098	0.104	6	0.94
MQL4	1-Aug-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL4	1-Aug-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MQL4	1-Aug-23	Mg-D	mg/L	0.05	0.05	1.06	1.08	2	0.98
MQL4	1-Aug-23	Mg-T	mg/L	0.05	0.05	0.868	0.903	4	0.96
MQL4	1-Aug-23	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	Mn-T	mg/L	0.001	0.001	0.0086	0.0090	5	0.96
MQL4	1-Aug-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	Na-D	mg/L	0.05	0.05	5.90	6.12	4	0.96
MQL4	1-Aug-23	Na-T	mg/L	0.05	0.05	5.12	5.26	3	0.97
MQL4	1-Aug-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MQL4	1-Aug-23	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0	1.00
MQL4	1-Aug-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL4	1-Aug-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MQL4	1-Aug-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
MQL4	1-Aug-23	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
MQL4	1-Aug-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL4	1-Aug-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MQL4	1-Aug-23	S-D	mg/L	3	3	3.1	<3.0	3	1.03
MQL4	1-Aug-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	1-Aug-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	1-Aug-23	Si-D	mg/L	0.1	0.1	1.79	1.80	1	0.99
MQL4	1-Aug-23	Si-T	mg/L	0.1	0.1	1.62	1.57	3	1.03
MQL4	1-Aug-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	1-Aug-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	1-Aug-23	SO4-D	mg/L	1	1	8.1	8.1	0	1.00
MQL4	1-Aug-23	Sr-D	mg/L	0.001	0.001	0.0324	0.0336	4	0.96
MQL4	1-Aug-23	Sr-T	mg/L	0.001	0.001	0.0284	0.0290	2	0.98
MQL4	1-Aug-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
MQL4	1-Aug-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	1-Aug-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	1-Aug-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL4	1-Aug-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MQL4	1-Aug-23	Turb	NTU	0.1	0.1	0.30	0.30	0	1.00
MQL4	1-Aug-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	1-Aug-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MQL4	1-Aug-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	1-Aug-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	1-Aug-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	1-Aug-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MQL4	1-Aug-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MLQ4	1-Aug-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MW002	24-May-23	Ag-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MW002	24-May-23	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0	1.00
MW002	24-May-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
MW002	24-May-23	Alk-T	mg/L	1	1	270	280	4	0.96
MW002	24-May-23	As-D	mg/L	0.0005	0.0005	0.00229	0.00219	5	1.05
MW002	24-May-23	Ba-D	mg/L	0.005	0.005	0.0149	0.0147	1	1.01
MW002	24-May-23	B-D	mg/L	0.25	0.25	0.86	0.67	25	1.28
MW002	24-May-23	Be-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MW002	24-May-23	Br-D	mg/L	0.1	0.1	<0.10	<0.10	0	1.00
MW002	24-May-23	Ca-D	mg/L	0.25	0.25	535	498	7	1.07
MW002	24-May-23	Cd-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0	1.00
MW002	24-May-23	Cl-D	mg/L	1	1	1.3	1.1	17	1.18
MW002	24-May-23	Co-D	mg/L	0.001	0.001	0.0034	0.0031	9	1.10
MW002	24-May-23	Cr-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MW002	24-May-23	Cu-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MW002	24-May-23	DOC	mg/L	0.5	0.5	1.2	1.1	9	1.09
MW002	24-May-23	F-D	mg/L	0.05	0.05	0.11	0.11	0	1.00
MW002	24-May-23	Fe-D	mg/L	0.025	0.025	5.50	5.18	6	1.06
MW002	24-May-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MW002	24-May-23	Hard-D	mg/L	0.5	0.5	1550	1450	7	1.07
MW002	24-May-23	K-D	mg/L	0.25	0.25	5.99	5.02	18	1.19
MW002	24-May-23	Li-D	mg/L	0.01	0.01	0.013	0.013	0	1.00
MW002	24-May-23	Mg-D	mg/L	0.25	0.25	53.2	50.5	5	1.05
MW002	24-May-23	Mn-D	mg/L	0.005	0.005	1.91	1.80	6	1.06
MW002	24-May-23	Mo-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MW002	24-May-23	Na-D	mg/L	0.25	0.25	53.2	48.4	9	1.10
MW002	24-May-23	N-D	mg/L	0.02	0.02	0.204	0.240	16	0.85
MW002	24-May-23	Ni-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MW002	24-May-23	Pb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MW002	24-May-23	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
MW002	24-May-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
MW002	24-May-23	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0	1.00
MW002	24-May-23	S-D	mg/L	15	15	469	439	7	1.07
MW002	24-May-23	Se-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MW002	24-May-23	Si-D	mg/L	0.5	0.5	3.81	3.70	3	1.03
MW002	24-May-23	Sn-D	mg/L	0.025	0.025	<0.025	<0.025	0	1.00
MW002	24-May-23	SO4-D	mg/L	25	25	1300	1300	0	1.00
MW002	24-May-23	Sr-D	mg/L	0.005	0.005	4.85	4.48	8	1.08
MW002	24-May-23	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0	1.00
MW002	24-May-23	Tl-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0	1.00
MW002	24-May-23	Turb	NTU	0.1	0.1	31	48	43	0.65
MW002	24-May-23	U-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MW002	24-May-23	V-D	mg/L	0.025	0.025	<0.025	<0.025	0	1.00
MW002	24-May-23	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0	1.00
MW002	24-May-23	Zr-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MW004	28-Aug-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
MW004	28-Aug-23	Al-D	mg/L	0.003	0.003	0.0039	0.0034	14	1.15
MW004	28-Aug-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
MW004	28-Aug-23	Alk-T	mg/L	1	1	160	160	0	1.00
MW004	28-Aug-23	As-D	mg/L	0.0001	0.0001	0.00068	0.00066	3	1.03
MW004	28-Aug-23	Ba-D	mg/L	0.001	0.001	0.0369	0.0368	0	1.00
MW004	28-Aug-23	B-D	mg/L	0.05	0.05	0.228	0.221	3	1.03
MW004	28-Aug-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MW004	28-Aug-23	Br-D	mg/L	0.1	1	<0.10	<1.0	164	0.10
MW004	28-Aug-23	Ca-D	mg/L	0.05	0.05	166	162	2	1.02
MW004	28-Aug-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MW004	28-Aug-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
MW004	28-Aug-23	Co-D	mg/L	0.0002	0.0002	0.00061	0.00062	2	0.98
MW004	28-Aug-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MW004	28-Aug-23	Cu-D	mg/L	0.0002	0.0002	0.00049	0.00063	25	0.78
MW004	28-Aug-23	DOC	mg/L	0.5	0.5	1.9	2.0	5	0.95
MW004	28-Aug-23	F-D	mg/L	0.05	0.05	0.084	0.083	1	1.01
MW004	28-Aug-23	Fe-D	mg/L	0.005	0.005	0.0316	0.0339	7	0.93
MW004	28-Aug-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
MW004	28-Aug-23	Hard-D	mg/L	0.5	0.5	489	480	2	1.02
MW004	28-Aug-23	K-D	mg/L	0.05	0.05	1.63	1.63	0	1.00
MW004	28-Aug-23	Li-D	mg/L	0.002	0.002	0.0078	0.0075	4	1.04

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW004	28-Aug-23	Mg-D	mg/L	0.05	0.05	18.3	18.5	1	0.99
MW004	28-Aug-23	Mn-D	mg/L	0.001	0.001	0.0940	0.0972	3	0.97
MW004	28-Aug-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
MW004	28-Aug-23	Na-D	mg/L	0.05	0.05	41.9	41.9	0	1.00
MW004	28-Aug-23	N-D	mg/L	0.02	0.02	0.426	0.121	112	3.52
MW004	28-Aug-23	Ni-D	mg/L	0.001	0.001	0.0011	0.0012	9	0.92
MW004	28-Aug-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
MW004	28-Aug-23	P-D	mg/L	0.003	0.003	0.0031	0.0038	20	0.82
MW004	28-Aug-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
MW004	28-Aug-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
MW004	28-Aug-23	S-D	mg/L	3	3	137	138	1	0.99
MW004	28-Aug-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MW004	28-Aug-23	Si-D	mg/L	0.1	0.1	2.81	2.81	0	1.00
MW004	28-Aug-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MW004	28-Aug-23	SO4-D	mg/L	5	5	380	380	0	1.00
MW004	28-Aug-23	Sr-D	mg/L	0.001	0.001	1.26	1.29	2	0.98
MW004	28-Aug-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MW004	28-Aug-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
MW004	28-Aug-23	Turb	NTU	0.1	0.1	1.6	1.3	21	1.23
MW004	28-Aug-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
MW004	28-Aug-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
MW004	28-Aug-23	Zn-D	mg/L	0.005	0.005	0.0066	0.0067	2	0.99
MW004	28-Aug-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNL1	5-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
NNL1	5-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
NNL1	5-Apr-23	Al-D	mg/L	0.003	0.003	0.0252	0.0254	1	0.99
NNL1	5-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
NNL1	5-Apr-23	Alk-T	mg/L	1	1	11	11	0	1.00
NNL1	5-Apr-23	Al-T	mg/L	0.003	0.003	0.0297	0.0303	2	0.98
NNL1	5-Apr-23	As-D	mg/L	0.0001	0.0001	0.00024	0.00025	4	0.96
NNL1	5-Apr-23	As-T	mg/L	0.0001	0.0001	0.00026	0.00026	0	1.00
NNL1	5-Apr-23	Ba-D	mg/L	0.001	0.001	0.0012	0.0011	9	1.09
NNL1	5-Apr-23	Ba-T	mg/L	0.001	0.001	0.0012	0.0011	9	1.09
NNL1	5-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNL1	5-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNL1	5-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNL1	5-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNL1	5-Apr-23	Ca-D	mg/L	0.05	0.05	4.06	4.02	1	1.01
NNL1	5-Apr-23	Ca-T	mg/L	0.05	0.05	3.94	3.90	1	1.01
NNL1	5-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNL1	5-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNL1	5-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
NNL1	5-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNL1	5-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNL1	5-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNL1	5-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNL1	5-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00037	0.00056	41	0.66
NNL1	5-Apr-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNL1	5-Apr-23	DOC	mg/L	0.5	0.5	3.2	3.1	3	1.03
NNL1	5-Apr-23	Fe-D	mg/L	0.005	0.005	0.0405	0.0404	0	1.00
NNL1	5-Apr-23	Fe-T	mg/L	0.01	0.01	0.063	0.065	3	0.97
NNL1	5-Apr-23	Hard-D	mg/L	0.5	0.5	13.6	13.4	2	1.01
NNL1	5-Apr-23	Hard-T	mg/L	0.5	0.5	13.1	12.9	2	1.02
NNL1	5-Apr-23	K-D	mg/L	0.05	0.05	0.061	0.060	2	1.02
NNL1	5-Apr-23	K-T	mg/L	0.05	0.05	0.056	0.058	4	0.97
NNL1	5-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
NNL1	5-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
NNL1	5-Apr-23	Mg-D	mg/L	0.05	0.05	0.829	0.812	2	1.02
NNL1	5-Apr-23	Mg-T	mg/L	0.05	0.05	0.791	0.779	2	1.02
NNL1	5-Apr-23	Mn-D	mg/L	0.001	0.001	0.0041	0.0041	0	1.00
NNL1	5-Apr-23	Mn-T	mg/L	0.001	0.001	0.0048	0.0047	2	1.02
NNL1	5-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNL1	5-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNL1	5-Apr-23	Na-D	mg/L	0.05	0.05	1.13	1.13	0	1.00
NNL1	5-Apr-23	Na-T	mg/L	0.05	0.05	1.10	1.10	0	1.00
NNL1	5-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNL1	5-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNL1	5-Apr-23	N-NO23	mg/L	0.02	0.02	0.035	0.059	51	0.59

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNL1	5-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNL1	5-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNL1	5-Apr-23	P-T	mg/L	0.003	0.003	<0.0030	0.0038	24	0.79
NNL1	5-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNL1	5-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNL1	5-Apr-23	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
NNL1	5-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNL1	5-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNL1	5-Apr-23	Si-D	mg/L	0.1	0.1	3.65	3.57	2	1.02
NNL1	5-Apr-23	Si-T	mg/L	0.1	0.1	3.43	3.40	1	1.01
NNL1	5-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNL1	5-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNL1	5-Apr-23	SO4-D	mg/L	1	1	1.9	1.9	0	1.00
NNL1	5-Apr-23	Sr-D	mg/L	0.001	0.001	0.0128	0.0123	4	1.04
NNL1	5-Apr-23	Sr-T	mg/L	0.001	0.001	0.0120	0.0121	1	0.99
NNL1	5-Apr-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
NNL1	5-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNL1	5-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNL1	5-Apr-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNL1	5-Apr-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNL1	5-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNL1	5-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNL1	5-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNL1	5-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNL1	5-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNL1	5-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNL1	5-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNL1	5-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
NNO	11-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
NNO	11-Apr-23	Al-D	mg/L	0.003	0.003	0.0246	0.0255	4	0.96
NNO	11-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
NNO	11-Apr-23	Alk-T	mg/L	1	1	11	12	9	0.92
NNO	11-Apr-23	Al-T	mg/L	0.003	0.003	0.0302	0.0298	1	1.01
NNO	11-Apr-23	As-D	mg/L	0.0001	0.0001	0.00026	0.00027	4	0.96
NNO	11-Apr-23	As-T	mg/L	0.0001	0.0001	0.00024	0.00024	0	1.00
NNO	11-Apr-23	Ba-D	mg/L	0.001	0.001	0.0011	0.0012	9	0.92
NNO	11-Apr-23	Ba-T	mg/L	0.001	0.001	0.0012	0.0011	9	1.09
NNO	11-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNO	11-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Br-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
NNO	11-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNO	11-Apr-23	Ca-D	mg/L	0.05	0.05	4.12	4.11	0	1.00
NNO	11-Apr-23	Ca-T	mg/L	0.05	0.05	3.80	3.68	3	1.03
NNO	11-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	11-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	11-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
NNO	11-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	11-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	11-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00037	0.00040	8	0.92
NNO	11-Apr-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	11-Apr-23	DOC	mg/L	0.5	0.5	3.2	3.3	3	0.97
NNO	11-Apr-23	F-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNO	11-Apr-23	Fe-D	mg/L	0.005	0.005	0.0387	0.0386	0	1.00
NNO	11-Apr-23	Fe-T	mg/L	0.01	0.01	0.066	0.064	3	1.03
NNO	11-Apr-23	Hard-D	mg/L	0.5	0.5	13.8	13.8	0	1.00
NNO	11-Apr-23	Hard-T	mg/L	0.5	0.5	12.9	12.5	3	1.03
NNO	11-Apr-23	K-D	mg/L	0.05	0.05	0.061	0.064	5	0.95
NNO	11-Apr-23	K-T	mg/L	0.05	0.05	0.066	0.063	5	1.05
NNO	11-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
NNO	11-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
NNO	11-Apr-23	Mg-D	mg/L	0.05	0.05	0.847	0.864	2	0.98
NNO	11-Apr-23	Mg-T	mg/L	0.05	0.05	0.820	0.799	3	1.03
NNO	11-Apr-23	Mn-D	mg/L	0.001	0.001	0.0037	0.0038	3	0.97
NNO	11-Apr-23	Mn-T	mg/L	0.001	0.001	0.0047	0.0046	2	1.02

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNO	11-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Na-D	mg/L	0.05	0.05	1.13	1.20	6	0.94
NNO	11-Apr-23	Na-T	mg/L	0.05	0.05	1.10	1.07	3	1.03
NNO	11-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0	1.00
NNO	11-Apr-23	N-NO23	mg/L	0.02	0.02	0.029	0.028	4	1.04
NNO	11-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	11-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	11-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	11-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	11-Apr-23	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
NNO	11-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Si-D	mg/L	0.1	0.1	3.59	3.55	1	1.01
NNO	11-Apr-23	Si-T	mg/L	0.1	0.1	3.45	3.26	6	1.06
NNO	11-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	SO4-D	mg/L	1	1	2.6	2.6	0	1.00
NNO	11-Apr-23	Sr-D	mg/L	0.001	0.001	0.0132	0.0138	4	0.96
NNO	11-Apr-23	Sr-T	mg/L	0.001	0.001	0.0126	0.0124	2	1.02
NNO	11-Apr-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
NNO	11-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	11-Apr-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	11-Apr-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
NNO	11-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
NNO	11-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
NNO	11-Apr-23	Al-D	mg/L	0.003	0.003	0.0246	0.0246	0	1.00
NNO	11-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
NNO	11-Apr-23	Alk-T	mg/L	1	1	11	11	0	1.00
NNO	11-Apr-23	Al-T	mg/L	0.003	0.003	0.0302	0.0302	0	1.00
NNO	11-Apr-23	As-D	mg/L	0.0001	0.0001	0.00026	0.00026	0	1.00
NNO	11-Apr-23	As-T	mg/L	0.0001	0.0001	0.00024	0.00024	0	1.00
NNO	11-Apr-23	Ba-D	mg/L	0.001	0.001	0.0011	0.0011	0	1.00
NNO	11-Apr-23	Ba-T	mg/L	0.001	0.001	0.0012	0.0012	0	1.00
NNO	11-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNO	11-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Br-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
NNO	11-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNO	11-Apr-23	Ca-D	mg/L	0.05	0.05	4.12	4.12	0	1.00
NNO	11-Apr-23	Ca-T	mg/L	0.05	0.05	3.80	3.80	0	1.00
NNO	11-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	11-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	11-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
NNO	11-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	11-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	11-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00037	0.00037	0	1.00
NNO	11-Apr-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	11-Apr-23	DOC	mg/L	0.5	0.5	3.2	3.2	0	1.00
NNO	11-Apr-23	F-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNO	11-Apr-23	Fe-D	mg/L	0.005	0.005	0.0387	0.0387	0	1.00
NNO	11-Apr-23	Fe-T	mg/L	0.01	0.01	0.066	0.066	0	1.00
NNO	11-Apr-23	Hard-D	mg/L	0.5	0.5	13.8	13.8	0	1.00
NNO	11-Apr-23	Hard-T	mg/L	0.5	0.5	12.9	12.9	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNO	11-Apr-23	K-D	mg/L	0.05	0.05	0.061	0.061	0	1.00
NNO	11-Apr-23	K-T	mg/L	0.05	0.05	0.066	0.066	0	1.00
NNO	11-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
NNO	11-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
NNO	11-Apr-23	Mg-D	mg/L	0.05	0.05	0.847	0.847	0	1.00
NNO	11-Apr-23	Mg-T	mg/L	0.05	0.05	0.820	0.820	0	1.00
NNO	11-Apr-23	Mn-D	mg/L	0.001	0.001	0.0037	0.0037	0	1.00
NNO	11-Apr-23	Mn-T	mg/L	0.001	0.001	0.0047	0.0047	0	1.00
NNO	11-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Na-D	mg/L	0.05	0.05	1.13	1.13	0	1.00
NNO	11-Apr-23	Na-T	mg/L	0.05	0.05	1.10	1.10	0	1.00
NNO	11-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	11-Apr-23	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0	1.00
NNO	11-Apr-23	N-NO23	mg/L	0.02	0.02	0.029	0.029	0	1.00
NNO	11-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	11-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	11-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	11-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	11-Apr-23	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
NNO	11-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Si-D	mg/L	0.1	0.1	3.59	3.59	0	1.00
NNO	11-Apr-23	Si-T	mg/L	0.1	0.1	3.45	3.45	0	1.00
NNO	11-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	SO4-D	mg/L	1	1	2.6	2.6	0	1.00
NNO	11-Apr-23	Sr-D	mg/L	0.001	0.001	0.0132	0.0132	0	1.00
NNO	11-Apr-23	Sr-T	mg/L	0.001	0.001	0.0126	0.0126	0	1.00
NNO	11-Apr-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
NNO	11-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	11-Apr-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	11-Apr-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
NNO	11-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	11-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	11-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	7-Nov-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
NNO	7-Nov-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
NNO	7-Nov-23	Al-D	mg/L	0.003	0.003	0.0245	0.0245	0	1.00
NNO	7-Nov-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
NNO	7-Nov-23	Alk-T	mg/L	1	1	13	12	8	1.08
NNO	7-Nov-23	Al-T	mg/L	0.003	0.003	0.0292	0.0268	9	1.09
NNO	7-Nov-23	As-D	mg/L	0.0001	0.0001	0.00026	0.00026	0	1.00
NNO	7-Nov-23	As-T	mg/L	0.0001	0.0001	0.00026	0.00025	4	1.04
NNO	7-Nov-23	Ba-D	mg/L	0.001	0.001	0.0012	0.0012	0	1.00
NNO	7-Nov-23	Ba-T	mg/L	0.001	0.001	0.0012	0.0011	9	1.09
NNO	7-Nov-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNO	7-Nov-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	7-Nov-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	7-Nov-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
NNO	7-Nov-23	Ca-D	mg/L	0.05	0.05	4.29	4.32	1	0.99
NNO	7-Nov-23	Ca-T	mg/L	0.05	0.05	4.10	4.05	1	1.01
NNO	7-Nov-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	7-Nov-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	7-Nov-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
NNO	7-Nov-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	7-Nov-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	7-Nov-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	7-Nov-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	7-Nov-23	Cu-D	mg/L	0.0002	0.0002	0.00049	0.00047	4	1.04

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNO	7-Nov-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	7-Nov-23	DOC	mg/L	0.5	0.5	4.0	4.0	0	1.00
NNO	7-Nov-23	Fe-D	mg/L	0.005	0.005	0.0349	0.0357	2	0.98
NNO	7-Nov-23	Fe-T	mg/L	0.01	0.01	0.052	0.049	6	1.06
NNO	7-Nov-23	Hard-D	mg/L	0.5	0.5	14.7	14.7	0	1.00
NNO	7-Nov-23	Hard-T	mg/L	0.5	0.5	13.8	13.5	2	1.02
NNO	7-Nov-23	K-D	mg/L	0.05	0.05	0.071	0.071	0	1.00
NNO	7-Nov-23	K-T	mg/L	0.05	0.05	0.075	0.070	7	1.07
NNO	7-Nov-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
NNO	7-Nov-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
NNO	7-Nov-23	Mg-D	mg/L	0.05	0.05	0.968	0.957	1	1.01
NNO	7-Nov-23	Mg-T	mg/L	0.05	0.05	0.857	0.832	3	1.03
NNO	7-Nov-23	Mn-D	mg/L	0.001	0.001	0.0035	0.0036	3	0.97
NNO	7-Nov-23	Mn-T	mg/L	0.001	0.001	0.0045	0.0043	5	1.05
NNO	7-Nov-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	7-Nov-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	7-Nov-23	Na-D	mg/L	0.05	0.05	1.25	1.28	2	0.98
NNO	7-Nov-23	Na-T	mg/L	0.05	0.05	1.15	1.10	4	1.05
NNO	7-Nov-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	7-Nov-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
NNO	7-Nov-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	7-Nov-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
NNO	7-Nov-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	7-Nov-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
NNO	7-Nov-23	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
NNO	7-Nov-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	7-Nov-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	7-Nov-23	Si-D	mg/L	0.1	0.1	3.38	3.32	2	1.02
NNO	7-Nov-23	Si-T	mg/L	0.1	0.1	2.94	2.95	0	1.00
NNO	7-Nov-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	7-Nov-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	7-Nov-23	SO4-D	mg/L	1	1	2.2	2.1	5	1.05
NNO	7-Nov-23	Sr-D	mg/L	0.001	0.001	0.0130	0.0131	1	0.99
NNO	7-Nov-23	Sr-T	mg/L	0.001	0.001	0.0131	0.0125	5	1.05
NNO	7-Nov-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
NNO	7-Nov-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	7-Nov-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	7-Nov-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	7-Nov-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
NNO	7-Nov-23	TSS	mg/L	1	1	<1.0	1.2	18	0.83
NNO	7-Nov-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	7-Nov-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	7-Nov-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	7-Nov-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	7-Nov-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	7-Nov-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
NNO	7-Nov-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
NNO	7-Nov-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	17-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QRDS1	17-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QRDS1	17-Apr-23	Al-D	mg/L	0.003	0.003	0.0093	0.0096	3	0.97
QRDS1	17-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
QRDS1	17-Apr-23	Alk-T	mg/L	1	1	34	34	0	1.00
QRDS1	17-Apr-23	Al-T	mg/L	0.003	0.003	0.0155	0.0156	1	0.99
QRDS1	17-Apr-23	As-D	mg/L	0.0001	0.0001	0.00042	0.00042	0	1.00
QRDS1	17-Apr-23	As-T	mg/L	0.0001	0.0001	0.00051	0.00052	2	0.98
QRDS1	17-Apr-23	Ba-D	mg/L	0.001	0.001	0.0021	0.0021	0	1.00
QRDS1	17-Apr-23	Ba-T	mg/L	0.001	0.001	0.0020	0.0020	0	1.00
QRDS1	17-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
QRDS1	17-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	17-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	17-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
QRDS1	17-Apr-23	Ca-D	mg/L	0.05	0.05	11.0	11.0	0	1.00
QRDS1	17-Apr-23	Ca-T	mg/L	0.05	0.05	11.5	11.5	0	1.00
QRDS1	17-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QRDS1	17-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QRDS1	17-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
QRDS1	17-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QRDS1	17-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QRDS1	17-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	17-Apr-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	17-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00048	0.00050	4	0.96
QRDS1	17-Apr-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QRDS1	17-Apr-23	DOC	mg/L	0.5	0.5	2.0	1.9	5	1.05
QRDS1	17-Apr-23	Fe-D	mg/L	0.005	0.005	0.0148	0.0150	1	0.99
QRDS1	17-Apr-23	Fe-T	mg/L	0.01	0.01	0.033	0.036	9	0.92
QRDS1	17-Apr-23	Hard-D	mg/L	0.5	0.5	33.2	33.4	1	0.99
QRDS1	17-Apr-23	Hard-T	mg/L	0.5	0.5	34.7	35.0	1	0.99
QRDS1	17-Apr-23	K-D	mg/L	0.05	0.05	0.195	0.198	2	0.98
QRDS1	17-Apr-23	K-T	mg/L	0.05	0.05	0.203	0.206	2	0.99
QRDS1	17-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
QRDS1	17-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
QRDS1	17-Apr-23	Mg-D	mg/L	0.05	0.05	1.42	1.42	0	1.00
QRDS1	17-Apr-23	Mg-T	mg/L	0.05	0.05	1.47	1.50	2	0.98
QRDS1	17-Apr-23	Mn-D	mg/L	0.001	0.001	0.0010	0.0011	10	0.91
QRDS1	17-Apr-23	Mn-T	mg/L	0.001	0.001	0.0030	0.0031	3	0.97
QRDS1	17-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	17-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	17-Apr-23	Na-D	mg/L	0.05	0.05	10.4	10.5	1	0.99
QRDS1	17-Apr-23	Na-T	mg/L	0.05	0.05	10.4	11.0	6	0.95
QRDS1	17-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	17-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	17-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QRDS1	17-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QRDS1	17-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QRDS1	17-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QRDS1	17-Apr-23	S-D	mg/L	3	3	7.2	7.5	4	0.96
QRDS1	17-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	17-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	17-Apr-23	Si-D	mg/L	0.1	0.1	1.84	1.83	1	1.01
QRDS1	17-Apr-23	Si-T	mg/L	0.1	0.1	2.06	2.10	2	0.98
QRDS1	17-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	17-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	17-Apr-23	SO4-D	mg/L	1	1	23	23	0	1.00
QRDS1	17-Apr-23	Sr-D	mg/L	0.001	0.001	0.0560	0.0560	0	1.00
QRDS1	17-Apr-23	Sr-T	mg/L	0.001	0.001	0.0516	0.0529	3	0.98
QRDS1	17-Apr-23	S-T	mg/L	3	3	7.0	7.5	7	0.93
QRDS1	17-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	17-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	17-Apr-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QRDS1	17-Apr-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QRDS1	17-Apr-23	TSS	mg/L	1	1	<1.0	1.6	46	0.62
QRDS1	17-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	17-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	17-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	17-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	17-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	17-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	17-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	17-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	25-Oct-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QRDS1	25-Oct-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QRDS1	25-Oct-23	Al-D	mg/L	0.003	0.003	0.0041	0.0048	16	0.85
QRDS1	25-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
QRDS1	25-Oct-23	Alk-T	mg/L	1	1	31	30	3	1.03
QRDS1	25-Oct-23	Al-T	mg/L	0.003	0.003	0.0079	0.0084	6	0.94
QRDS1	25-Oct-23	As-D	mg/L	0.0001	0.0001	0.00028	0.00028	0	1.00
QRDS1	25-Oct-23	As-T	mg/L	0.0001	0.0001	0.00029	0.00030	3	0.97
QRDS1	25-Oct-23	Ba-D	mg/L	0.001	0.001	0.0020	0.0020	0	1.00
QRDS1	25-Oct-23	Ba-T	mg/L	0.001	0.001	0.0017	0.0018	6	0.94
QRDS1	25-Oct-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
QRDS1	25-Oct-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	25-Oct-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	25-Oct-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
QRDS1	25-Oct-23	Ca-D	mg/L	0.05	0.05	11.1	11.0	1	1.01
QRDS1	25-Oct-23	Ca-T	mg/L	0.05	0.05	9.47	9.81	4	0.97

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QRDS1	25-Oct-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QRDS1	25-Oct-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QRDS1	25-Oct-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
QRDS1	25-Oct-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QRDS1	25-Oct-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QRDS1	25-Oct-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	25-Oct-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	25-Oct-23	Cu-D	mg/L	0.0002	0.0002	0.00043	0.00045	5	0.96
QRDS1	25-Oct-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QRDS1	25-Oct-23	DOC	mg/L	0.5	0.5	2.1	2.3	9	0.91
QRDS1	25-Oct-23	Fe-D	mg/L	0.005	0.005	0.0170	0.0193	13	0.88
QRDS1	25-Oct-23	Fe-T	mg/L	0.01	0.01	0.033	0.034	3	0.97
QRDS1	25-Oct-23	Hard-D	mg/L	0.5	0.5	33.4	33.2	1	1.01
QRDS1	25-Oct-23	Hard-T	mg/L	0.5	0.5	28.6	29.7	4	0.96
QRDS1	25-Oct-23	K-D	mg/L	0.05	0.05	0.173	0.172	1	1.01
QRDS1	25-Oct-23	K-T	mg/L	0.05	0.05	0.151	0.158	5	0.96
QRDS1	25-Oct-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
QRDS1	25-Oct-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
QRDS1	25-Oct-23	Mg-D	mg/L	0.05	0.05	1.41	1.38	2	1.02
QRDS1	25-Oct-23	Mg-T	mg/L	0.05	0.05	1.21	1.25	3	0.97
QRDS1	25-Oct-23	Mn-D	mg/L	0.001	0.001	0.0013	0.0014	7	0.93
QRDS1	25-Oct-23	Mn-T	mg/L	0.001	0.001	0.0045	0.0048	7	0.94
QRDS1	25-Oct-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	25-Oct-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	25-Oct-23	Na-D	mg/L	0.05	0.05	6.87	6.87	0	1.00
QRDS1	25-Oct-23	Na-T	mg/L	0.05	0.05	5.89	6.16	5	0.96
QRDS1	25-Oct-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	25-Oct-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QRDS1	25-Oct-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QRDS1	25-Oct-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QRDS1	25-Oct-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QRDS1	25-Oct-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QRDS1	25-Oct-23	S-D	mg/L	3	3	5.1	5.0	2	1.02
QRDS1	25-Oct-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	25-Oct-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	25-Oct-23	Si-D	mg/L	0.1	0.1	2.12	2.04	4	1.04
QRDS1	25-Oct-23	Si-T	mg/L	0.1	0.1	1.82	1.89	4	0.96
QRDS1	25-Oct-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	25-Oct-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	25-Oct-23	SO4-D	mg/L	1	1	13	14	7	0.93
QRDS1	25-Oct-23	Sr-D	mg/L	0.001	0.001	0.0422	0.0423	0	1.00
QRDS1	25-Oct-23	Sr-T	mg/L	0.001	0.001	0.0386	0.0403	4	0.96
QRDS1	25-Oct-23	S-T	mg/L	3	3	4.4	4.6	4	0.96
QRDS1	25-Oct-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	25-Oct-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	25-Oct-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QRDS1	25-Oct-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QRDS1	25-Oct-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
QRDS1	25-Oct-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	25-Oct-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	25-Oct-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	25-Oct-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	25-Oct-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	25-Oct-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QRDS1	25-Oct-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QRDS1	25-Oct-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0813A	27-Jul-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QU0813A	27-Jul-23	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
QU0813A	27-Jul-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
QU0813A	27-Jul-23	Alk-T	mg/L	1	1	210	210	0	1.00
QU0813A	27-Jul-23	As-D	mg/L	0.0001	0.0001	0.374	0.375	0	1.00
QU0813A	27-Jul-23	Ba-D	mg/L	0.001	0.001	0.164	0.164	0	1.00
QU0813A	27-Jul-23	B-D	mg/L	0.05	0.05	0.813	0.806	1	1.01
QU0813A	27-Jul-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0813A	27-Jul-23	Br-D	mg/L	0.01	0.01	0.027	0.027	0	1.00
QU0813A	27-Jul-23	Ca-D	mg/L	0.05	0.05	42.3	42.9	1	0.99
QU0813A	27-Jul-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU0813A	27-Jul-23	Cl-D	mg/L	1	1	14	14	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU0813A	27-Jul-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU0813A	27-Jul-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0813A	27-Jul-23	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU0813A	27-Jul-23	DOC	mg/L	0.5	0.5	0.67	0.60	11	1.12
QU0813A	27-Jul-23	F-D	mg/L	0.05	0.05	0.73	0.71	3	1.03
QU0813A	27-Jul-23	Fe-D	mg/L	0.005	0.005	0.167	0.174	4	0.96
QU0813A	27-Jul-23	H2S	mg/L	0.002	0.002	0.23	0.21	9	1.10
QU0813A	27-Jul-23	Hard-D	mg/L	0.5	0.5	149	150	1	0.99
QU0813A	27-Jul-23	K-D	mg/L	0.05	0.05	2.47	2.43	2	1.02
QU0813A	27-Jul-23	Li-D	mg/L	0.002	0.002	0.0524	0.0525	0	1.00
QU0813A	27-Jul-23	Mg-D	mg/L	0.05	0.05	10.5	10.4	1	1.01
QU0813A	27-Jul-23	Mn-D	mg/L	0.001	0.001	0.0339	0.0337	1	1.01
QU0813A	27-Jul-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0813A	27-Jul-23	Na-D	mg/L	0.05	0.05	62.1	62.0	0	1.00
QU0813A	27-Jul-23	N-D	mg/L	0.02	0.02	0.243	0.216	12	1.12
QU0813A	27-Jul-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0813A	27-Jul-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU0813A	27-Jul-23	P-D	mg/L	0.003	0.003	0.12	0.11	9	1.09
QU0813A	27-Jul-23	S2-T	mg/L	0.0018	0.0018	0.21	0.19	10	1.11
QU0813A	27-Jul-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU0813A	27-Jul-23	S-D	mg/L	3	3	20.6	20.7	1	1.00
QU0813A	27-Jul-23	Se-D	mg/L	0.0001	0.0001	0.00063	0.00052	19	1.21
QU0813A	27-Jul-23	Si-D	mg/L	0.1	0.1	3.77	3.86	2	0.98
QU0813A	27-Jul-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0813A	27-Jul-23	SO4-D	mg/L	1	1	60	61	2	0.98
QU0813A	27-Jul-23	Sr-D	mg/L	0.001	0.001	0.600	0.599	0	1.00
QU0813A	27-Jul-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0813A	27-Jul-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU0813A	27-Jul-23	Turb	NTU	0.1	0.1	1.9	2.3	19	0.83
QU0813A	27-Jul-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0813A	27-Jul-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0813A	27-Jul-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0813A	27-Jul-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0821GD	16-May-23	Ag-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0821GD	16-May-23	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0	1.00
QU0821GD	16-May-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
QU0821GD	16-May-23	Alk-T	mg/L	1	1	210	200	5	1.05
QU0821GD	16-May-23	As-D	mg/L	0.0005	0.0005	0.160	0.164	3	0.98
QU0821GD	16-May-23	Ba-D	mg/L	0.005	0.005	3.73	3.93	5	0.95
QU0821GD	16-May-23	B-D	mg/L	0.25	0.25	3.34	3.35	0	1.00
QU0821GD	16-May-23	Be-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU0821GD	16-May-23	Br-D	mg/L	0.1	0.1	1.85	1.85	0	1.00
QU0821GD	16-May-23	Ca-D	mg/L	0.25	0.25	155	156	1	0.99
QU0821GD	16-May-23	Cd-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0	1.00
QU0821GD	16-May-23	Cl-D	mg/L	25	25	1400	1400	0	1.00
QU0821GD	16-May-23	Co-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GD	16-May-23	Cr-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GD	16-May-23	Cu-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GD	16-May-23	DOC	mg/L	0.5	0.5	0.84	0.83	1	1.01
QU0821GD	16-May-23	F-D	mg/L	0.05	0.05	0.85	0.85	0	1.00
QU0821GD	16-May-23	Fe-D	mg/L	0.025	0.025	1.66	1.69	2	0.98
QU0821GD	16-May-23	H2S	mg/L	0.002	0.002	0.041	0.048	16	0.85
QU0821GD	16-May-23	Hard-D	mg/L	0.5	0.5	467	477	2	0.98
QU0821GD	16-May-23	K-D	mg/L	0.25	0.25	11.6	12.4	7	0.94
QU0821GD	16-May-23	Li-D	mg/L	0.01	0.01	0.214	0.214	0	1.00
QU0821GD	16-May-23	Mg-D	mg/L	0.25	0.25	19.7	21.0	6	0.94
QU0821GD	16-May-23	Mn-D	mg/L	0.005	0.005	0.153	0.161	5	0.95
QU0821GD	16-May-23	Mo-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GD	16-May-23	Na-D	mg/L	0.25	0.25	735	771	5	0.95
QU0821GD	16-May-23	N-D	mg/L	0.02	0.02	0.582	0.583	0	1.00
QU0821GD	16-May-23	Ni-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GD	16-May-23	Pb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GD	16-May-23	P-D	mg/L	0.003	0.003	0.089	0.095	7	0.94
QU0821GD	16-May-23	S2-T	mg/L	0.0018	0.0018	0.039	0.045	14	0.87
QU0821GD	16-May-23	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0	1.00
QU0821GD	16-May-23	S-D	mg/L	15	15	<15	<15	0	1.00
QU0821GD	16-May-23	Se-D	mg/L	0.0005	0.0005	0.00063	0.00123	65	0.51
QU0821GD	16-May-23	Si-D	mg/L	0.5	0.5	5.13	5.08	1	1.01

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU0821GD	16-May-23	Sn-D	mg/L	0.025	0.025	<0.025	<0.025	0	1.00
QU0821GD	16-May-23	SO4-D	mg/L	1	1	<1.0	<1.0	0	1.00
QU0821GD	16-May-23	Sr-D	mg/L	0.005	0.005	3.34	3.45	3	0.97
QU0821GD	16-May-23	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0	1.00
QU0821GD	16-May-23	TI-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0	1.00
QU0821GD	16-May-23	Turb	NTU	0.1	0.1	9.9	10	1	0.99
QU0821GD	16-May-23	U-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU0821GD	16-May-23	V-D	mg/L	0.025	0.025	<0.025	<0.025	0	1.00
QU0821GD	16-May-23	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0	1.00
QU0821GD	16-May-23	Zr-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU0821GS	20-Mar-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QU0821GS	20-Mar-24	Al-D	mg/L	0.003	0.003	0.0031	0.0033	6	0.94
QU0821GS	20-Mar-24	Alk-PP	mg/L	1	1	3.6	3.7	3	0.97
QU0821GS	20-Mar-24	Alk-T	mg/L	1	1	180	180	0	1.00
QU0821GS	20-Mar-24	As-D	mg/L	0.0001	0.0001	0.227	0.229	1	0.99
QU0821GS	20-Mar-24	Ba-D	mg/L	0.001	0.001	0.340	0.334	2	1.02
QU0821GS	20-Mar-24	B-D	mg/L	0.05	0.05	1.83	1.79	2	1.02
QU0821GS	20-Mar-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0821GS	20-Mar-24	Br-D	mg/L	0.01	0.01	0.101	0.095	6	1.06
QU0821GS	20-Mar-24	Ca-D	mg/L	0.05	0.05	14.8	14.8	0	1.00
QU0821GS	20-Mar-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU0821GS	20-Mar-24	Cl-D	mg/L	1	1	62	60	3	1.03
QU0821GS	20-Mar-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU0821GS	20-Mar-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GS	20-Mar-24	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU0821GS	20-Mar-24	DOC	mg/L	0.5	0.5	0.97	0.94	3	1.03
QU0821GS	20-Mar-24	F-D	mg/L	0.05	0.05	1.6	1.7	6	0.94
QU0821GS	20-Mar-24	Fe-D	mg/L	0.005	0.005	0.377	0.380	1	0.99
QU0821GS	20-Mar-24	H2S	mg/L	0.002	0.002	0.13	0.0091	174	14.29
QU0821GS	20-Mar-24	Hard-D	mg/L	0.5	0.5	52.6	52.3	1	1.01
QU0821GS	20-Mar-24	K-D	mg/L	0.05	0.05	3.87	3.82	1	1.01
QU0821GS	20-Mar-24	Li-D	mg/L	0.002	0.002	0.0693	0.0707	2	0.98
QU0821GS	20-Mar-24	Mg-D	mg/L	0.05	0.05	3.79	3.71	2	1.02
QU0821GS	20-Mar-24	Mn-D	mg/L	0.001	0.001	0.0299	0.0297	1	1.01
QU0821GS	20-Mar-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GS	20-Mar-24	Na-D	mg/L	0.05	0.05	106	105	1	1.01
QU0821GS	20-Mar-24	N-D	mg/L	0.02	0.02	0.308	0.306	1	1.01
QU0821GS	20-Mar-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GS	20-Mar-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU0821GS	20-Mar-24	P-D	mg/L	0.003	0.003	0.10	0.11	10	0.91
QU0821GS	20-Mar-24	S2-T	mg/L	0.0018	0.0018	0.12	0.0086	173	13.95
QU0821GS	20-Mar-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU0821GS	20-Mar-24	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
QU0821GS	20-Mar-24	Se-D	mg/L	0.0001	0.0001	0.00012	0.00011	9	1.09
QU0821GS	20-Mar-24	Si-D	mg/L	0.1	0.1	3.38	3.34	1	1.01
QU0821GS	20-Mar-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GS	20-Mar-24	SO4-D	mg/L	1	1	<1.0	<1.0	0	1.00
QU0821GS	20-Mar-24	Sr-D	mg/L	0.001	0.001	0.424	0.415	2	1.02
QU0821GS	20-Mar-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GS	20-Mar-24	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU0821GS	20-Mar-24	Turb	NTU	0.1	0.1	1.1	1.3	17	0.85
QU0821GS	20-Mar-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0821GS	20-Mar-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GS	20-Mar-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GS	20-Mar-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0821GS	20-Mar-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QU0821GS	20-Mar-24	Al-D	mg/L	0.003	0.003	0.0031	0.0031	0	1.00
QU0821GS	20-Mar-24	Alk-PP	mg/L	1	1	3.6	3.6	0	1.00
QU0821GS	20-Mar-24	Alk-T	mg/L	1	1	180	180	0	1.00
QU0821GS	20-Mar-24	As-D	mg/L	0.0001	0.0001	0.227	0.227	0	1.00
QU0821GS	20-Mar-24	Ba-D	mg/L	0.001	0.001	0.340	0.340	0	1.00
QU0821GS	20-Mar-24	B-D	mg/L	0.05	0.05	1.83	1.83	0	1.00
QU0821GS	20-Mar-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0821GS	20-Mar-24	Br-D	mg/L	0.01	0.01	0.101	0.101	0	1.00
QU0821GS	20-Mar-24	Ca-D	mg/L	0.05	0.05	14.8	14.8	0	1.00
QU0821GS	20-Mar-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU0821GS	20-Mar-24	Cl-D	mg/L	1	1	62	62	0	1.00
QU0821GS	20-Mar-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU0821GS	20-Mar-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GS	20-Mar-24	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU0821GS	20-Mar-24	DOC	mg/L	0.5	0.5	0.97	0.97	0	1.00
QU0821GS	20-Mar-24	F-D	mg/L	0.05	0.05	1.6	1.6	0	1.00
QU0821GS	20-Mar-24	Fe-D	mg/L	0.005	0.005	0.377	0.377	0	1.00
QU0821GS	20-Mar-24	H2S	mg/L	0.002	0.002	0.13	0.13	0	1.00
QU0821GS	20-Mar-24	Hard-D	mg/L	0.5	0.5	52.6	52.6	0	1.00
QU0821GS	20-Mar-24	K-D	mg/L	0.05	0.05	3.87	3.87	0	1.00
QU0821GS	20-Mar-24	Li-D	mg/L	0.002	0.002	0.0693	0.0693	0	1.00
QU0821GS	20-Mar-24	Mg-D	mg/L	0.05	0.05	3.79	3.79	0	1.00
QU0821GS	20-Mar-24	Mn-D	mg/L	0.001	0.001	0.0299	0.0299	0	1.00
QU0821GS	20-Mar-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GS	20-Mar-24	Na-D	mg/L	0.05	0.05	106	106	0	1.00
QU0821GS	20-Mar-24	N-D	mg/L	0.02	0.02	0.308	0.308	0	1.00
QU0821GS	20-Mar-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU0821GS	20-Mar-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU0821GS	20-Mar-24	P-D	mg/L	0.003	0.003	0.10	0.10	0	1.00
QU0821GS	20-Mar-24	S2-T	mg/L	0.0018	0.0018	0.12	0.12	0	1.00
QU0821GS	20-Mar-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU0821GS	20-Mar-24	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
QU0821GS	20-Mar-24	Se-D	mg/L	0.0001	0.0001	0.00012	0.00012	0	1.00
QU0821GS	20-Mar-24	Si-D	mg/L	0.1	0.1	3.38	3.38	0	1.00
QU0821GS	20-Mar-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GS	20-Mar-24	SO4-D	mg/L	1	1	<1.0	<1.0	0	1.00
QU0821GS	20-Mar-24	Sr-D	mg/L	0.001	0.001	0.424	0.424	0	1.00
QU0821GS	20-Mar-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GS	20-Mar-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU0821GS	20-Mar-24	Turb	NTU	0.1	0.1	1.1	1.1	0	1.00
QU0821GS	20-Mar-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU0821GS	20-Mar-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GS	20-Mar-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU0821GS	20-Mar-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1009D	18-May-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QU1009D	18-May-23	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
QU1009D	18-May-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
QU1009D	18-May-23	Alk-T	mg/L	1	1	180	180	0	1.00
QU1009D	18-May-23	As-D	mg/L	0.0001	0.0001	0.114	0.112	2	1.02
QU1009D	18-May-23	Ba-D	mg/L	0.001	0.001	0.118	0.117	1	1.01
QU1009D	18-May-23	B-D	mg/L	0.05	0.05	0.583	0.576	1	1.01
QU1009D	18-May-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1009D	18-May-23	Br-D	mg/L	0.01	0.01	0.015	0.037	85	0.41
QU1009D	18-May-23	Ca-D	mg/L	0.05	0.05	49.3	49.4	0	1.00
QU1009D	18-May-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU1009D	18-May-23	Cl-D	mg/L	1	1	1.0	<1.0	0	1.00
QU1009D	18-May-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1009D	18-May-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1009D	18-May-23	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1009D	18-May-23	DOC	mg/L	0.5	0.5	0.92	0.89	3	1.03
QU1009D	18-May-23	F-D	mg/L	0.05	0.05	0.29	0.29	0	1.00
QU1009D	18-May-23	Fe-D	mg/L	0.005	0.005	0.507	0.513	1	0.99
QU1009D	18-May-23	H2S	mg/L	0.002	0.002	0.099	0.082	19	1.21
QU1009D	18-May-23	Hard-D	mg/L	0.5	0.5	164	165	1	0.99
QU1009D	18-May-23	K-D	mg/L	0.05	0.05	1.75	1.69	4	1.04
QU1009D	18-May-23	Li-D	mg/L	0.002	0.002	0.0354	0.0368	4	0.96
QU1009D	18-May-23	Mg-D	mg/L	0.05	0.05	10.0	10.2	2	0.98
QU1009D	18-May-23	Mn-D	mg/L	0.001	0.001	0.0437	0.0435	1	1.00
QU1009D	18-May-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1009D	18-May-23	Na-D	mg/L	0.05	0.05	36.0	35.2	2	1.02
QU1009D	18-May-23	N-D	mg/L	0.02	0.02	0.167	0.182	9	0.92
QU1009D	18-May-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1009D	18-May-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1009D	18-May-23	P-D	mg/L	0.003	0.003	0.039	0.037	5	1.05
QU1009D	18-May-23	S2-T	mg/L	0.0018	0.0018	0.093	0.077	19	1.21
QU1009D	18-May-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU1009D	18-May-23	S-D	mg/L	3	3	22.6	21.5	5	1.05
QU1009D	18-May-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1009D	18-May-23	Si-D	mg/L	0.1	0.1	10.0	10.0	0	1.00
QU1009D	18-May-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1009D	18-May-23	SO4-D	mg/L	1	1	61	62	2	0.98
QU1009D	18-May-23	Sr-D	mg/L	0.001	0.001	0.980	0.966	1	1.01
QU1009D	18-May-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1009D	18-May-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU1009D	18-May-23	Turb	NTU	0.1	0.1	4.0	4.2	5	0.95
QU1009D	18-May-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1009D	18-May-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1009D	18-May-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1009D	18-May-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1009D	14-Aug-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QU1009D	14-Aug-23	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0	1.00
QU1009D	14-Aug-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
QU1009D	14-Aug-23	Alk-T	mg/L	1	1	190	180	5	1.06
QU1009D	14-Aug-23	As-D	mg/L	0.0001	0.0001	0.116	0.115	1	1.01
QU1009D	14-Aug-23	Ba-D	mg/L	0.001	0.001	0.126	0.126	0	1.00
QU1009D	14-Aug-23	B-D	mg/L	0.05	0.05	0.534	0.507	5	1.05
QU1009D	14-Aug-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1009D	14-Aug-23	Br-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
QU1009D	14-Aug-23	Ca-D	mg/L	0.05	0.05	49.2	49.0	0	1.00
QU1009D	14-Aug-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU1009D	14-Aug-23	Cl-D	mg/L	1	1	1.3	1.1	17	1.18
QU1009D	14-Aug-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1009D	14-Aug-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1009D	14-Aug-23	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1009D	14-Aug-23	DOC	mg/L	0.5	0.5	1.1	1.1	0	1.00
QU1009D	14-Aug-23	F-D	mg/L	0.05	0.05	0.28	0.28	0	1.00
QU1009D	14-Aug-23	Fe-D	mg/L	0.005	0.005	0.438	0.448	2	0.98
QU1009D	14-Aug-23	H2S	mg/L	0.002	0.002	0.10	0.11	10	0.91
QU1009D	14-Aug-23	Hard-D	mg/L	0.5	0.5	163	162	1	1.01
QU1009D	14-Aug-23	K-D	mg/L	0.05	0.05	1.67	1.71	2	0.98
QU1009D	14-Aug-23	Li-D	mg/L	0.002	0.002	0.0338	0.0333	2	1.02
QU1009D	14-Aug-23	Mg-D	mg/L	0.05	0.05	9.81	9.72	1	1.01
QU1009D	14-Aug-23	Mn-D	mg/L	0.001	0.001	0.0421	0.0421	0	1.00
QU1009D	14-Aug-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1009D	14-Aug-23	Na-D	mg/L	0.05	0.05	38.0	37.6	1	1.01
QU1009D	14-Aug-23	N-D	mg/L	0.02	0.02	0.146	0.147	1	0.99
QU1009D	14-Aug-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1009D	14-Aug-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1009D	14-Aug-23	P-D	mg/L	0.003	0.003	0.041	0.050	20	0.82
QU1009D	14-Aug-23	S2-T	mg/L	0.0018	0.0018	0.097	0.10	3	0.97
QU1009D	14-Aug-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU1009D	14-Aug-23	S-D	mg/L	3	3	20.5	20.2	2	1.01
QU1009D	14-Aug-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1009D	14-Aug-23	Si-D	mg/L	0.1	0.1	9.74	9.66	1	1.01
QU1009D	14-Aug-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1009D	14-Aug-23	SO4-D	mg/L	1	1	63	64	2	0.98
QU1009D	14-Aug-23	Sr-D	mg/L	0.001	0.001	0.934	0.930	0	1.00
QU1009D	14-Aug-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1009D	14-Aug-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU1009D	14-Aug-23	Turb	NTU	0.1	0.1	4.4	4.5	2	0.98
QU1009D	14-Aug-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1009D	14-Aug-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1009D	14-Aug-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1009D	14-Aug-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1013D	23-Nov-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QU1013D	23-Nov-23	Al-D	mg/L	0.003	0.003	<0.0030	0.0062	70	0.48
QU1013D	23-Nov-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
QU1013D	23-Nov-23	Alk-T	mg/L	1	1	520	520	0	1.00
QU1013D	23-Nov-23	As-D	mg/L	0.0001	0.0001	0.00088	0.00085	4	1.04
QU1013D	23-Nov-23	Ba-D	mg/L	0.001	0.001	0.0412	0.0425	3	0.97
QU1013D	23-Nov-23	B-D	mg/L	0.05	0.05	1.01	1.12	10	0.90
QU1013D	23-Nov-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1013D	23-Nov-23	Br-D	mg/L	0.1	0.1	<0.10	<0.10	0	1.00
QU1013D	23-Nov-23	Ca-D	mg/L	0.05	0.05	39.7	42.5	7	0.93
QU1013D	23-Nov-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU1013D	23-Nov-23	Cl-D	mg/L	1	1	33	33	0	1.00
QU1013D	23-Nov-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1013D	23-Nov-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1013D	23-Nov-23	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1013D	23-Nov-23	DOC	mg/L	0.5	0.5	1.3	1.1	17	1.18
QU1013D	23-Nov-23	F-D	mg/L	0.05	0.05	0.18	0.18	0	1.00
QU1013D	23-Nov-23	Fe-D	mg/L	0.005	0.005	0.616	0.638	4	0.97
QU1013D	23-Nov-23	H2S	mg/L	0.002	0.002	0.15	0.13	14	1.15
QU1013D	23-Nov-23	Hard-D	mg/L	0.5	0.5	114	122	7	0.93
QU1013D	23-Nov-23	K-D	mg/L	0.05	0.05	3.00	3.04	1	0.99
QU1013D	23-Nov-23	Li-D	mg/L	0.002	0.002	0.0040	0.0043	7	0.93
QU1013D	23-Nov-23	Mg-D	mg/L	0.05	0.05	3.64	3.87	6	0.94
QU1013D	23-Nov-23	Mn-D	mg/L	0.001	0.001	0.145	0.158	9	0.92
QU1013D	23-Nov-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1013D	23-Nov-23	Na-D	mg/L	0.05	0.05	291	300	3	0.97
QU1013D	23-Nov-23	N-D	mg/L	0.02	0.02	0.413	0.353	16	1.17
QU1013D	23-Nov-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1013D	23-Nov-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1013D	23-Nov-23	P-D	mg/L	0.003	0.003	0.020	0.0054	115	3.70
QU1013D	23-Nov-23	S2-T	mg/L	0.0018	0.0018	0.14	0.12	15	1.17
QU1013D	23-Nov-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
QU1013D	23-Nov-23	S-D	mg/L	3	3	64.8	63.0	3	1.03
QU1013D	23-Nov-23	Se-D	mg/L	0.0001	0.0001	0.00021	<0.00010	71	2.10
QU1013D	23-Nov-23	Si-D	mg/L	0.1	0.1	3.48	4.05	15	0.86
QU1013D	23-Nov-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1013D	23-Nov-23	SO4-D	mg/L	5	5	170	170	0	1.00
QU1013D	23-Nov-23	Sr-D	mg/L	0.001	0.001	0.483	0.457	6	1.06
QU1013D	23-Nov-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1013D	23-Nov-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
QU1013D	23-Nov-23	Turb	NTU	0.1	0.1	5.6	4.3	26	1.30
QU1013D	23-Nov-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1013D	23-Nov-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1013D	23-Nov-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
QU1013D	23-Nov-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
QU1410	7-Mar-24	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0	1.00
QU1410	7-Mar-24	Al-D	mg/L	0.006	0.006	0.0134	<0.0060	76	2.23
QU1410	7-Mar-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
QU1410	7-Mar-24	Alk-T	mg/L	1	1	300	310	3	0.97
QU1410	7-Mar-24	As-D	mg/L	0.0002	0.0002	0.0971	0.0959	1	1.01
QU1410	7-Mar-24	Ba-D	mg/L	0.002	0.002	0.0156	0.0142	9	1.10
QU1410	7-Mar-24	B-D	mg/L	0.1	0.1	1.25	1.09	14	1.15
QU1410	7-Mar-24	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1410	7-Mar-24	Br-D	mg/L	0.1	0.1	<0.10	<0.10	0	1.00
QU1410	7-Mar-24	Ca-D	mg/L	0.1	0.1	524	512	2	1.02
QU1410	7-Mar-24	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QU1410	7-Mar-24	Cl-D	mg/L	1	1	4.3	4.0	7	1.08
QU1410	7-Mar-24	Co-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
QU1410	7-Mar-24	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
QU1410	7-Mar-24	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
QU1410	7-Mar-24	DOC	mg/L	0.5	0.5	1.7	1.5	13	1.13
QU1410	7-Mar-24	F-D	mg/L	0.05	0.05	0.15	0.15	0	1.00
QU1410	7-Mar-24	Fe-D	mg/L	0.01	0.01	2.61	2.48	5	1.05
QU1410	7-Mar-24	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
QU1410	7-Mar-24	Hard-D	mg/L	0.5	0.5	2010	2010	0	1.00
QU1410	7-Mar-24	K-D	mg/L	0.1	0.1	7.61	7.13	7	1.07
QU1410	7-Mar-24	Li-D	mg/L	0.004	0.004	0.137	0.139	1	0.99
QU1410	7-Mar-24	Mg-D	mg/L	0.1	0.1	171	178	4	0.96
QU1410	7-Mar-24	Mn-D	mg/L	0.002	0.002	1.55	1.35	14	1.15
QU1410	7-Mar-24	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
QU1410	7-Mar-24	Na-D	mg/L	0.1	0.1	56.5	54.7	3	1.03
QU1410	7-Mar-24	N-D	mg/L	0.02	0.02	0.418	0.530	24	0.79
QU1410	7-Mar-24	Ni-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
QU1410	7-Mar-24	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0	1.00
QU1410	7-Mar-24	P-D	mg/L	0.003	0.003	0.012	0.013	8	0.92
QU1410	7-Mar-24	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
QU1410	7-Mar-24	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
QU1410	7-Mar-24	S-D	mg/L	6	6	647	672	4	0.96
QU1410	7-Mar-24	Se-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
QU1410	7-Mar-24	Si-D	mg/L	0.2	0.2	3.99	3.05	27	1.31
QU1410	7-Mar-24	Sn-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
QU1410	7-Mar-24	SO4-D	mg/L	25	25	1800	1800	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1410	7-Mar-24	Sr-D	mg/L	0.002	0.002	5.00	4.69	6	1.07
QU1410	7-Mar-24	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
QU1410	7-Mar-24	Tl-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
QU1410	7-Mar-24	Turb	NTU	0.1	0.1	4.8	2.9	49	1.66
QU1410	7-Mar-24	U-D	mg/L	0.0002	0.0002	0.00088	0.00080	10	1.10
QU1410	7-Mar-24	V-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
QU1410	7-Mar-24	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0	1.00
QU1410	7-Mar-24	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	5-Dec-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
SPC	5-Dec-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
SPC	5-Dec-23	Al-D	mg/L	0.003	0.003	0.0877	0.0883	1	0.99
SPC	5-Dec-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
SPC	5-Dec-23	Alk-T	mg/L	1	1	41	40	3	1.02
SPC	5-Dec-23	Al-T	mg/L	0.003	0.003	0.133	0.120	10	1.11
SPC	5-Dec-23	As-D	mg/L	0.0001	0.0001	0.00032	0.00032	0	1.00
SPC	5-Dec-23	As-T	mg/L	0.0001	0.0001	0.00035	0.00033	6	1.06
SPC	5-Dec-23	Ba-D	mg/L	0.001	0.001	0.0099	0.0098	1	1.01
SPC	5-Dec-23	Ba-T	mg/L	0.001	0.001	0.0099	0.0104	5	0.95
SPC	5-Dec-23	B-D	mg/L	0.05	0.05	0.116	0.114	2	1.02
SPC	5-Dec-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	5-Dec-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	5-Dec-23	B-T	mg/L	0.05	0.05	0.105	0.105	0	1.00
SPC	5-Dec-23	Ca-D	mg/L	0.05	0.05	48.9	47.5	3	1.03
SPC	5-Dec-23	Ca-T	mg/L	0.05	0.05	53.2	53.1	0	1.00
SPC	5-Dec-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
SPC	5-Dec-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
SPC	5-Dec-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	5-Dec-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	5-Dec-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	5-Dec-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	5-Dec-23	Cu-D	mg/L	0.0002	0.0002	0.00056	0.00056	0	1.00
SPC	5-Dec-23	Cu-T	mg/L	0.0005	0.0005	0.00057	0.00058	2	0.98
SPC	5-Dec-23	Fe-D	mg/L	0.005	0.005	0.0836	0.0832	1	1.00
SPC	5-Dec-23	Fe-T	mg/L	0.01	0.01	0.138	0.129	7	1.07
SPC	5-Dec-23	Hard-D	mg/L	0.5	0.5	149	145	3	1.03
SPC	5-Dec-23	Hard-T	mg/L	0.5	0.5	161	159	1	1.01
SPC	5-Dec-23	K-D	mg/L	0.05	0.05	0.611	0.595	3	1.03
SPC	5-Dec-23	K-T	mg/L	0.05	0.05	0.607	0.588	3	1.03
SPC	5-Dec-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
SPC	5-Dec-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
SPC	5-Dec-23	Mg-D	mg/L	0.05	0.05	6.43	6.42	0	1.00
SPC	5-Dec-23	Mg-T	mg/L	0.05	0.05	6.78	6.49	4	1.04
SPC	5-Dec-23	Mn-D	mg/L	0.001	0.001	0.0013	0.0013	0	1.00
SPC	5-Dec-23	Mn-T	mg/L	0.001	0.001	0.0028	0.0025	11	1.12
SPC	5-Dec-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	5-Dec-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	5-Dec-23	Na-D	mg/L	0.05	0.05	17.0	16.4	4	1.04
SPC	5-Dec-23	Na-T	mg/L	0.05	0.05	18.2	17.4	5	1.05
SPC	5-Dec-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	5-Dec-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	5-Dec-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	5-Dec-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	5-Dec-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
SPC	5-Dec-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
SPC	5-Dec-23	S-D	mg/L	3	3	48.6	46.9	4	1.04
SPC	5-Dec-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	5-Dec-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	5-Dec-23	Si-D	mg/L	0.1	0.1	3.50	3.43	2	1.02
SPC	5-Dec-23	Si-T	mg/L	0.1	0.1	3.63	3.60	1	1.01
SPC	5-Dec-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	5-Dec-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	5-Dec-23	SO4-D	mg/L	5	5	140	140	0	1.00
SPC	5-Dec-23	Sr-D	mg/L	0.001	0.001	0.326	0.322	1	1.01
SPC	5-Dec-23	Sr-T	mg/L	0.001	0.001	0.324	0.309	5	1.05
SPC	5-Dec-23	S-T	mg/L	3	3	48.5	46.9	3	1.03
SPC	5-Dec-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	5-Dec-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	5-Dec-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
SPC	5-Dec-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
SPC	5-Dec-23	TSS	mg/L	1	1	<1.0	2.4	82	0.42
SPC	5-Dec-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	5-Dec-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	5-Dec-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	5-Dec-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	5-Dec-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	5-Dec-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	5-Dec-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	5-Dec-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	4-Mar-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
SPC	4-Mar-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
SPC	4-Mar-24	Al-D	mg/L	0.003	0.003	0.0497	0.0407	20	1.22
SPC	4-Mar-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
SPC	4-Mar-24	Alk-T	mg/L	1	1	54	51	6	1.06
SPC	4-Mar-24	Al-T	mg/L	0.003	0.003	0.0485	0.0474	2	1.02
SPC	4-Mar-24	As-D	mg/L	0.0001	0.0001	0.00034	0.00035	3	0.97
SPC	4-Mar-24	As-T	mg/L	0.0001	0.0001	0.00033	0.00033	0	1.00
SPC	4-Mar-24	Ba-D	mg/L	0.001	0.001	0.0079	0.0077	3	1.03
SPC	4-Mar-24	Ba-T	mg/L	0.001	0.001	0.0067	0.0063	6	1.06
SPC	4-Mar-24	B-D	mg/L	0.05	0.05	0.124	0.133	7	0.93
SPC	4-Mar-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	4-Mar-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	4-Mar-24	B-T	mg/L	0.05	0.05	0.112	0.110	2	1.02
SPC	4-Mar-24	Ca-D	mg/L	0.05	0.05	55.7	56.4	1	0.99
SPC	4-Mar-24	Ca-T	mg/L	0.05	0.05	56.0	55.2	1	1.01
SPC	4-Mar-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
SPC	4-Mar-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
SPC	4-Mar-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	4-Mar-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	4-Mar-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	4-Mar-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	4-Mar-24	Cu-D	mg/L	0.0002	0.0002	0.00034	0.00032	6	1.06
SPC	4-Mar-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
SPC	4-Mar-24	Fe-D	mg/L	0.005	0.005	0.0376	0.0373	1	1.01
SPC	4-Mar-24	Fe-T	mg/L	0.01	0.01	0.044	0.043	2	1.02
SPC	4-Mar-24	Hard-D	mg/L	0.5	0.5	167	168	1	0.99
SPC	4-Mar-24	Hard-T	mg/L	0.5	0.5	169	166	2	1.02
SPC	4-Mar-24	K-D	mg/L	0.05	0.05	0.584	0.560	4	1.04
SPC	4-Mar-24	K-T	mg/L	0.05	0.05	0.552	0.547	1	1.01
SPC	4-Mar-24	Li-D	mg/L	0.002	0.002	0.0023	0.0023	0	1.00
SPC	4-Mar-24	Li-T	mg/L	0.002	0.002	0.0027	0.0025	8	1.08
SPC	4-Mar-24	Mg-D	mg/L	0.05	0.05	6.80	6.59	3	1.03
SPC	4-Mar-24	Mg-T	mg/L	0.05	0.05	7.07	6.89	3	1.03
SPC	4-Mar-24	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	4-Mar-24	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	4-Mar-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	4-Mar-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	4-Mar-24	Na-D	mg/L	0.05	0.05	15.5	14.9	4	1.04
SPC	4-Mar-24	Na-T	mg/L	0.05	0.05	15.9	15.8	1	1.01
SPC	4-Mar-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	4-Mar-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
SPC	4-Mar-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	4-Mar-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
SPC	4-Mar-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
SPC	4-Mar-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
SPC	4-Mar-24	S-D	mg/L	3	3	51.5	49.6	4	1.04
SPC	4-Mar-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	4-Mar-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	4-Mar-24	Si-D	mg/L	0.1	0.1	3.46	3.54	2	0.98
SPC	4-Mar-24	Si-T	mg/L	0.1	0.1	3.07	3.03	1	1.01
SPC	4-Mar-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	4-Mar-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	4-Mar-24	SO4-D	mg/L	5	5	150	150	0	1.00
SPC	4-Mar-24	Sr-D	mg/L	0.001	0.001	0.375	0.375	0	1.00
SPC	4-Mar-24	Sr-T	mg/L	0.001	0.001	0.315	0.307	3	1.03
SPC	4-Mar-24	S-T	mg/L	3	3	47.4	48.1	2	0.99
SPC	4-Mar-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
SPC	4-Mar-24	TI-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	4-Mar-24	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
SPC	4-Mar-24	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
SPC	4-Mar-24	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
SPC	4-Mar-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	4-Mar-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	4-Mar-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	4-Mar-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	4-Mar-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	4-Mar-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
SPC	4-Mar-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPC	4-Mar-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
SPCEFF	26-Sep-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
SPCEFF	26-Sep-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
SPCEFF	26-Sep-23	SO4-D	mg/L	5	5	320	330	3	0.97
SPCEFF	26-Sep-23	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
SPCEFF	26-Sep-23	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0	1.00
SPCEFF	26-Sep-23	SO4-D	mg/L	5	5	320	320	0	1.00
SPCEFF	16-Oct-23	H2S	mg/L	0.002	0.002	0.0022	<0.0020	10	1.10
SPCEFF	16-Oct-23	S2-T	mg/L	0.0018	0.0018	0.0020	<0.0018	11	1.11
SPCEFF	16-Oct-23	SO4-D	mg/L	5	5	290	290	0	1.00
SPCEFF	11-Dec-23	H2S	mg/L	0.002	0.002	0.10	0.11	10	0.91
SPCEFF	11-Dec-23	S2-T	mg/L	0.0018	0.0018	0.095	0.10	5	0.95
SPCEFF	11-Dec-23	SO4-D	mg/L	5	5	390	430	10	0.91
SPD	27-Dec-23	SO4-D	mg/L	5	5	160	160	0	1.00
SPD	27-Dec-23	TSS	mg/L	1	1	<1.0	1.6	46	0.62
WA	4-Apr-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WA	4-Apr-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WA	4-Apr-23	Al-D	mg/L	0.003	0.003	0.0109	0.0123	12	0.89
WA	4-Apr-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
WA	4-Apr-23	Alk-T	mg/L	1	1	20	21	5	0.95
WA	4-Apr-23	Al-T	mg/L	0.003	0.003	0.0147	0.0159	8	0.92
WA	4-Apr-23	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	4-Apr-23	As-T	mg/L	0.0001	0.0001	0.00011	<0.00010	10	1.10
WA	4-Apr-23	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	4-Apr-23	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	4-Apr-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WA	4-Apr-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	4-Apr-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	4-Apr-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WA	4-Apr-23	Ca-D	mg/L	0.05	0.05	6.94	6.93	0	1.00
WA	4-Apr-23	Ca-T	mg/L	0.05	0.05	6.87	6.98	2	0.98
WA	4-Apr-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	4-Apr-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	4-Apr-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
WA	4-Apr-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	4-Apr-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	4-Apr-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	4-Apr-23	Cr-T	mg/L	0.001	0.001	0.0010	<0.0010	0	1.00
WA	4-Apr-23	Cu-D	mg/L	0.0002	0.0002	0.00134	0.00060	76	2.23
WA	4-Apr-23	Cu-T	mg/L	0.0005	0.0005	0.00056	0.00056	0	1.00
WA	4-Apr-23	DOC	mg/L	0.5	0.5	1.9	2.1	10	0.90
WA	4-Apr-23	Fe-D	mg/L	0.005	0.005	0.0057	0.0082	36	0.70
WA	4-Apr-23	Fe-T	mg/L	0.01	0.01	0.013	0.011	17	1.18
WA	4-Apr-23	Hard-D	mg/L	0.5	0.5	20.3	20.2	1	1.00
WA	4-Apr-23	Hard-T	mg/L	0.5	0.5	20.0	20.3	2	0.99
WA	4-Apr-23	K-D	mg/L	0.05	0.05	0.053	0.056	6	0.95
WA	4-Apr-23	K-T	mg/L	0.05	0.05	0.053	0.054	2	0.98
WA	4-Apr-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WA	4-Apr-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WA	4-Apr-23	Mg-D	mg/L	0.05	0.05	0.710	0.704	1	1.01
WA	4-Apr-23	Mg-T	mg/L	0.05	0.05	0.695	0.709	2	0.98
WA	4-Apr-23	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	4-Apr-23	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	4-Apr-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	4-Apr-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	4-Apr-23	Na-D	mg/L	0.05	0.05	0.658	0.671	2	0.98
WA	4-Apr-23	Na-T	mg/L	0.05	0.05	0.629	0.641	2	0.98

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WA	4-Apr-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	4-Apr-23	Ni-T	mg/L	0.001	0.001	<0.0010	0.0021	71	0.48
WA	4-Apr-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	4-Apr-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	4-Apr-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WA	4-Apr-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WA	4-Apr-23	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
WA	4-Apr-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	4-Apr-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	4-Apr-23	Si-D	mg/L	0.1	0.1	1.85	1.84	1	1.01
WA	4-Apr-23	Si-T	mg/L	0.1	0.1	1.81	1.82	1	0.99
WA	4-Apr-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	4-Apr-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	4-Apr-23	SO4-D	mg/L	1	1	1.1	1.1	0	1.00
WA	4-Apr-23	Sr-D	mg/L	0.001	0.001	0.0113	0.0114	1	0.99
WA	4-Apr-23	Sr-T	mg/L	0.001	0.001	0.0109	0.0112	3	0.97
WA	4-Apr-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
WA	4-Apr-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	4-Apr-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	4-Apr-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	4-Apr-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	4-Apr-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WA	4-Apr-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	4-Apr-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	4-Apr-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	4-Apr-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	4-Apr-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	4-Apr-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	4-Apr-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	4-Apr-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	0.00040	120	0.25
WA	11-Jul-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WA	11-Jul-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WA	11-Jul-23	Al-D	mg/L	0.003	0.003	0.0146	0.0147	1	0.99
WA	11-Jul-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
WA	11-Jul-23	Alk-T	mg/L	1	1	22	22	0	1.00
WA	11-Jul-23	Al-T	mg/L	0.003	0.003	0.0174	0.0177	2	0.98
WA	11-Jul-23	As-D	mg/L	0.0001	0.0001	0.00012	0.00011	9	1.09
WA	11-Jul-23	As-T	mg/L	0.0001	0.0001	0.00011	0.00012	9	0.92
WA	11-Jul-23	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Jul-23	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Jul-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WA	11-Jul-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Jul-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Jul-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WA	11-Jul-23	Ca-D	mg/L	0.05	0.05	7.25	7.36	2	0.99
WA	11-Jul-23	Ca-T	mg/L	0.05	0.05	6.45	6.61	3	0.98
WA	11-Jul-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	11-Jul-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	11-Jul-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	11-Jul-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	11-Jul-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Jul-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Jul-23	Cu-D	mg/L	0.0002	0.0002	0.00049	0.00051	4	0.96
WA	11-Jul-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WA	11-Jul-23	DOC	mg/L	0.5	0.5	1.9	1.9	0	1.00
WA	11-Jul-23	Fe-D	mg/L	0.005	0.005	0.0152	0.0145	5	1.05
WA	11-Jul-23	Fe-T	mg/L	0.01	0.01	0.019	0.021	10	0.90
WA	11-Jul-23	Hard-D	mg/L	0.5	0.5	21.3	21.6	1	0.99
WA	11-Jul-23	Hard-T	mg/L	0.5	0.5	19.0	19.5	3	0.97
WA	11-Jul-23	K-D	mg/L	0.05	0.05	0.068	0.068	0	1.00
WA	11-Jul-23	K-T	mg/L	0.05	0.05	0.052	0.056	7	0.93
WA	11-Jul-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WA	11-Jul-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WA	11-Jul-23	Mg-D	mg/L	0.05	0.05	0.772	0.792	3	0.97
WA	11-Jul-23	Mg-T	mg/L	0.05	0.05	0.699	0.718	3	0.97
WA	11-Jul-23	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Jul-23	Mn-T	mg/L	0.001	0.001	0.0018	0.0018	0	1.00
WA	11-Jul-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WA	11-Jul-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Jul-23	Na-D	mg/L	0.05	0.05	0.668	0.684	2	0.98
WA	11-Jul-23	Na-T	mg/L	0.05	0.05	0.565	0.576	2	0.98
WA	11-Jul-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Jul-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Jul-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	11-Jul-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	11-Jul-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WA	11-Jul-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WA	11-Jul-23	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
WA	11-Jul-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Jul-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Jul-23	Si-D	mg/L	0.1	0.1	1.83	1.83	0	1.00
WA	11-Jul-23	Si-T	mg/L	0.1	0.1	1.65	1.69	2	0.98
WA	11-Jul-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Jul-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Jul-23	SO4-D	mg/L	1	1	1.5	1.6	7	0.94
WA	11-Jul-23	Sr-D	mg/L	0.001	0.001	0.0121	0.0123	2	0.98
WA	11-Jul-23	Sr-T	mg/L	0.001	0.001	0.0111	0.0111	0	1.00
WA	11-Jul-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
WA	11-Jul-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Jul-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Jul-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	11-Jul-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	11-Jul-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WA	11-Jul-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Jul-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Jul-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Jul-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Jul-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Jul-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Jul-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Jul-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Oct-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WA	11-Oct-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WA	11-Oct-23	Al-D	mg/L	0.003	0.003	0.0100	0.0100	0	1.00
WA	11-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
WA	11-Oct-23	Alk-T	mg/L	1	1	23	22	4	1.05
WA	11-Oct-23	Al-T	mg/L	0.003	0.003	0.0147	0.0156	6	0.94
WA	11-Oct-23	As-D	mg/L	0.0001	0.0001	0.00013	0.00013	0	1.00
WA	11-Oct-23	As-T	mg/L	0.0001	0.0001	0.00012	0.00012	0	1.00
WA	11-Oct-23	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WA	11-Oct-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Oct-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Oct-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WA	11-Oct-23	Ca-D	mg/L	0.05	0.05	7.15	6.98	2	1.02
WA	11-Oct-23	Ca-T	mg/L	0.05	0.05	6.46	6.83	6	0.95
WA	11-Oct-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	11-Oct-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	11-Oct-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
WA	11-Oct-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	11-Oct-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	11-Oct-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	Cu-D	mg/L	0.0002	0.0002	0.00050	0.00050	0	1.00
WA	11-Oct-23	Cu-T	mg/L	0.0005	0.0005	0.00054	0.00059	9	0.92
WA	11-Oct-23	DOC	mg/L	0.5	0.5	1.9	2.1	10	0.90
WA	11-Oct-23	Fe-D	mg/L	0.005	0.005	0.0058	0.0061	5	0.95
WA	11-Oct-23	Fe-T	mg/L	0.01	0.01	0.013	0.015	14	0.87
WA	11-Oct-23	Hard-D	mg/L	0.5	0.5	21.1	20.6	2	1.02
WA	11-Oct-23	Hard-T	mg/L	0.5	0.5	19.0	20.1	6	0.95
WA	11-Oct-23	K-D	mg/L	0.05	0.05	0.060	0.059	2	1.02
WA	11-Oct-23	K-T	mg/L	0.05	0.05	0.060	0.063	5	0.95
WA	11-Oct-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WA	11-Oct-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WA	11-Oct-23	Mg-D	mg/L	0.05	0.05	0.789	0.779	1	1.01

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WA	11-Oct-23	Mg-T	mg/L	0.05	0.05	0.698	0.738	6	0.95
WA	11-Oct-23	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	Mn-T	mg/L	0.001	0.001	0.0016	0.0017	6	0.94
WA	11-Oct-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	Na-D	mg/L	0.05	0.05	0.664	0.666	0	1.00
WA	11-Oct-23	Na-T	mg/L	0.05	0.05	0.615	0.649	5	0.95
WA	11-Oct-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WA	11-Oct-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	11-Oct-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WA	11-Oct-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WA	11-Oct-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WA	11-Oct-23	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
WA	11-Oct-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Oct-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Oct-23	Si-D	mg/L	0.1	0.1	1.84	1.87	2	0.98
WA	11-Oct-23	Si-T	mg/L	0.1	0.1	1.64	1.72	5	0.95
WA	11-Oct-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Oct-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Oct-23	SO4-D	mg/L	1	1	1.2	1.3	8	0.92
WA	11-Oct-23	Sr-D	mg/L	0.001	0.001	0.0115	0.0115	0	1.00
WA	11-Oct-23	Sr-T	mg/L	0.001	0.001	0.0103	0.0110	7	0.94
WA	11-Oct-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
WA	11-Oct-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Oct-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Oct-23	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	11-Oct-23	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WA	11-Oct-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WA	11-Oct-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Oct-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Oct-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Oct-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Oct-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Oct-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WA	11-Oct-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WA	11-Oct-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	1-May-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WB	1-May-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WB	1-May-23	Al-D	mg/L	0.003	0.003	0.0122	0.0132	8	0.92
WB	1-May-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
WB	1-May-23	Alk-T	mg/L	1	1	33	33	0	1.00
WB	1-May-23	Al-T	mg/L	0.003	0.003	0.0143	0.0137	4	1.04
WB	1-May-23	As-D	mg/L	0.0001	0.0001	0.00012	0.00013	8	0.92
WB	1-May-23	As-T	mg/L	0.0001	0.0001	0.00013	0.00013	0	1.00
WB	1-May-23	Ba-D	mg/L	0.001	0.001	0.0017	0.0016	6	1.06
WB	1-May-23	Ba-T	mg/L	0.001	0.001	0.0015	0.0015	0	1.00
WB	1-May-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WB	1-May-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	1-May-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	1-May-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WB	1-May-23	Ca-D	mg/L	0.05	0.05	10.1	10.1	0	1.00
WB	1-May-23	Ca-T	mg/L	0.05	0.05	9.99	10.0	0	1.00
WB	1-May-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	1-May-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	1-May-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
WB	1-May-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	1-May-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	1-May-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	1-May-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	1-May-23	Cu-D	mg/L	0.0002	0.0002	0.00050	0.00048	4	1.04
WB	1-May-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	1-May-23	DOC	mg/L	0.5	0.5	2.2	2.0	10	1.10
WB	1-May-23	Fe-D	mg/L	0.005	0.005	0.0185	0.0174	6	1.06
WB	1-May-23	Fe-T	mg/L	0.01	0.01	0.025	0.024	4	1.04
WB	1-May-23	Hard-D	mg/L	0.5	0.5	30.4	30.3	0	1.00
WB	1-May-23	Hard-T	mg/L	0.5	0.5	30.1	30.3	1	0.99
WB	1-May-23	K-D	mg/L	0.05	0.05	0.179	0.176	2	1.02

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WB	1-May-23	K-T	mg/L	0.05	0.05	0.176	0.178	1	0.99
WB	1-May-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WB	1-May-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WB	1-May-23	Mg-D	mg/L	0.05	0.05	1.25	1.26	1	0.99
WB	1-May-23	Mg-T	mg/L	0.05	0.05	1.25	1.27	2	0.98
WB	1-May-23	Mn-D	mg/L	0.001	0.001	0.0028	0.0027	4	1.04
WB	1-May-23	Mn-T	mg/L	0.001	0.001	0.0034	0.0034	0	1.00
WB	1-May-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	1-May-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	1-May-23	Na-D	mg/L	0.05	0.05	9.92	9.59	3	1.03
WB	1-May-23	Na-T	mg/L	0.05	0.05	9.46	9.42	0	1.00
WB	1-May-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	1-May-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	1-May-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	1-May-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	1-May-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	1-May-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	1-May-23	S-D	mg/L	3	3	6.4	5.9	8	1.08
WB	1-May-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	1-May-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	1-May-23	Si-D	mg/L	0.1	0.1	1.94	1.94	0	1.00
WB	1-May-23	Si-T	mg/L	0.1	0.1	2.12	2.10	1	1.01
WB	1-May-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	1-May-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	1-May-23	SO4-D	mg/L	1	1	20	20	0	1.00
WB	1-May-23	Sr-D	mg/L	0.001	0.001	0.0491	0.0499	2	0.98
WB	1-May-23	Sr-T	mg/L	0.001	0.001	0.0479	0.0475	1	1.01
WB	1-May-23	S-T	mg/L	3	3	6.0	5.8	3	1.03
WB	1-May-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	1-May-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	1-May-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	1-May-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	1-May-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WB	1-May-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	1-May-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	1-May-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	1-May-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	1-May-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	1-May-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	1-May-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	1-May-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	8-Aug-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WB	8-Aug-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WB	8-Aug-23	Al-D	mg/L	0.003	0.003	0.0120	0.0121	1	0.99
WB	8-Aug-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
WB	8-Aug-23	Alk-T	mg/L	1	1	31	30	3	1.03
WB	8-Aug-23	Al-T	mg/L	0.003	0.003	0.0136	0.0132	3	1.03
WB	8-Aug-23	As-D	mg/L	0.0001	0.0001	0.00019	0.00018	5	1.06
WB	8-Aug-23	As-T	mg/L	0.0001	0.0001	0.00019	0.00018	5	1.06
WB	8-Aug-23	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	8-Aug-23	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	8-Aug-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WB	8-Aug-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	8-Aug-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	8-Aug-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WB	8-Aug-23	Ca-D	mg/L	0.05	0.05	9.05	9.07	0	1.00
WB	8-Aug-23	Ca-T	mg/L	0.05	0.05	8.05	8.04	0	1.00
WB	8-Aug-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	8-Aug-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	8-Aug-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	8-Aug-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	8-Aug-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	8-Aug-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	8-Aug-23	Cu-D	mg/L	0.0002	0.0002	0.00044	0.00046	4	0.96
WB	8-Aug-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	8-Aug-23	DOC	mg/L	0.5	0.5	2.8	2.5	11	1.12
WB	8-Aug-23	Fe-D	mg/L	0.005	0.005	0.0213	0.0256	18	0.83
WB	8-Aug-23	Fe-T	mg/L	0.01	0.01	0.033	0.033	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WB	8-Aug-23	Hard-D	mg/L	0.5	0.5	27.0	27.1	0	1.00
WB	8-Aug-23	Hard-T	mg/L	0.5	0.5	24.1	24.0	0	1.00
WB	8-Aug-23	K-D	mg/L	0.05	0.05	0.113	0.114	1	0.99
WB	8-Aug-23	K-T	mg/L	0.05	0.05	0.109	0.108	1	1.01
WB	8-Aug-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WB	8-Aug-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WB	8-Aug-23	Mg-D	mg/L	0.05	0.05	1.07	1.08	1	0.99
WB	8-Aug-23	Mg-T	mg/L	0.05	0.05	0.963	0.963	0	1.00
WB	8-Aug-23	Mn-D	mg/L	0.001	0.001	0.0013	0.0014	7	0.93
WB	8-Aug-23	Mn-T	mg/L	0.001	0.001	0.0094	0.0090	4	1.04
WB	8-Aug-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	8-Aug-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	8-Aug-23	Na-D	mg/L	0.05	0.05	5.65	5.70	1	0.99
WB	8-Aug-23	Na-T	mg/L	0.05	0.05	5.22	5.26	1	0.99
WB	8-Aug-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	8-Aug-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	8-Aug-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	8-Aug-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	8-Aug-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	8-Aug-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	8-Aug-23	S-D	mg/L	3	3	<3.0	<3.0	0	1.00
WB	8-Aug-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	8-Aug-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	8-Aug-23	Si-D	mg/L	0.1	0.1	1.88	1.88	0	1.00
WB	8-Aug-23	Si-T	mg/L	0.1	0.1	1.65	1.65	0	1.00
WB	8-Aug-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	8-Aug-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	8-Aug-23	SO4-D	mg/L	1	1	7.9	7.9	0	1.00
WB	8-Aug-23	Sr-D	mg/L	0.001	0.001	0.0326	0.0324	1	1.01
WB	8-Aug-23	Sr-T	mg/L	0.001	0.001	0.0292	0.0294	1	0.99
WB	8-Aug-23	S-T	mg/L	3	3	<3.0	<3.0	0	1.00
WB	8-Aug-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	8-Aug-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	8-Aug-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	8-Aug-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	8-Aug-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WB	8-Aug-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	8-Aug-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	8-Aug-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	8-Aug-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	8-Aug-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	8-Aug-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	8-Aug-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	8-Aug-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	19-Oct-23	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WB	19-Oct-23	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WB	19-Oct-23	Al-D	mg/L	0.003	0.003	0.0045	0.0039	14	1.15
WB	19-Oct-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
WB	19-Oct-23	Alk-T	mg/L	1	1	34	31	9	1.10
WB	19-Oct-23	Al-T	mg/L	0.003	0.003	0.0062	0.0062	0	1.00
WB	19-Oct-23	As-D	mg/L	0.0001	0.0001	0.00017	0.00016	6	1.06
WB	19-Oct-23	As-T	mg/L	0.0001	0.0001	0.00014	0.00014	0	1.00
WB	19-Oct-23	Ba-D	mg/L	0.001	0.001	0.0017	0.0014	19	1.21
WB	19-Oct-23	Ba-T	mg/L	0.001	0.001	0.0012	0.0013	8	0.92
WB	19-Oct-23	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WB	19-Oct-23	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	19-Oct-23	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	19-Oct-23	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WB	19-Oct-23	Ca-D	mg/L	0.05	0.05	8.70	8.46	3	1.03
WB	19-Oct-23	Ca-T	mg/L	0.05	0.05	8.40	8.30	1	1.01
WB	19-Oct-23	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	19-Oct-23	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	19-Oct-23	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
WB	19-Oct-23	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	19-Oct-23	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	19-Oct-23	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	19-Oct-23	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	19-Oct-23	Cu-D	mg/L	0.0002	0.0002	0.00040	0.00037	8	1.08

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WB	19-Oct-23	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	19-Oct-23	DOC	mg/L	0.5	0.5	2.0	1.7	16	1.18
WB	19-Oct-23	Fe-D	mg/L	0.005	0.005	0.0185	0.0176	5	1.05
WB	19-Oct-23	Fe-T	mg/L	0.01	0.01	0.034	0.035	3	0.97
WB	19-Oct-23	Hard-D	mg/L	0.5	0.5	26.2	25.3	4	1.04
WB	19-Oct-23	Hard-T	mg/L	0.5	0.5	25.3	25.0	1	1.01
WB	19-Oct-23	K-D	mg/L	0.05	0.05	0.121	0.116	4	1.04
WB	19-Oct-23	K-T	mg/L	0.05	0.05	0.126	0.126	0	1.00
WB	19-Oct-23	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WB	19-Oct-23	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WB	19-Oct-23	Mg-D	mg/L	0.05	0.05	1.09	1.02	7	1.07
WB	19-Oct-23	Mg-T	mg/L	0.05	0.05	1.04	1.03	1	1.01
WB	19-Oct-23	Mn-D	mg/L	0.001	0.001	0.0029	0.0024	19	1.21
WB	19-Oct-23	Mn-T	mg/L	0.001	0.001	0.0102	0.0101	1	1.01
WB	19-Oct-23	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	19-Oct-23	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	19-Oct-23	Na-D	mg/L	0.05	0.05	5.82	5.46	6	1.07
WB	19-Oct-23	Na-T	mg/L	0.05	0.05	5.56	5.60	1	0.99
WB	19-Oct-23	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	19-Oct-23	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	19-Oct-23	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	19-Oct-23	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	19-Oct-23	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	19-Oct-23	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	19-Oct-23	S-D	mg/L	3	3	3.0	<3.0	0	1.00
WB	19-Oct-23	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	19-Oct-23	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	19-Oct-23	Si-D	mg/L	0.1	0.1	1.78	1.79	1	0.99
WB	19-Oct-23	Si-T	mg/L	0.1	0.1	1.62	1.59	2	1.02
WB	19-Oct-23	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	19-Oct-23	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	19-Oct-23	SO4-D	mg/L	1	1	8.8	8.8	0	1.00
WB	19-Oct-23	Sr-D	mg/L	0.001	0.001	0.0267	0.0261	2	1.02
WB	19-Oct-23	Sr-T	mg/L	0.001	0.001	0.0262	0.0256	2	1.02
WB	19-Oct-23	S-T	mg/L	3	3	3.1	3.0	3	1.03
WB	19-Oct-23	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	19-Oct-23	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	19-Oct-23	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	19-Oct-23	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	19-Oct-23	TSS	mg/L	1	1	1.6	<1.0	46	1.60
WB	19-Oct-23	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	19-Oct-23	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	19-Oct-23	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	19-Oct-23	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	19-Oct-23	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	19-Oct-23	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	19-Oct-23	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	19-Oct-23	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	28-Mar-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WB	28-Mar-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WB	28-Mar-24	Al-D	mg/L	0.003	0.003	0.0174	0.0174	0	1.00
WB	28-Mar-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
WB	28-Mar-24	Alk-T	mg/L	1	1	36	36	0	1.00
WB	28-Mar-24	Al-T	mg/L	0.003	0.003	0.0190	0.0190	0	1.00
WB	28-Mar-24	As-D	mg/L	0.0001	0.0001	0.00014	0.00014	0	1.00
WB	28-Mar-24	As-T	mg/L	0.0001	0.0001	0.00013	0.00013	0	1.00
WB	28-Mar-24	Ba-D	mg/L	0.001	0.001	0.0023	0.0023	0	1.00
WB	28-Mar-24	Ba-T	mg/L	0.001	0.001	0.0021	0.0021	0	1.00
WB	28-Mar-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WB	28-Mar-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	28-Mar-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	28-Mar-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0	1.00
WB	28-Mar-24	Ca-D	mg/L	0.05	0.05	12.0	12.0	0	1.00
WB	28-Mar-24	Ca-T	mg/L	0.05	0.05	10.7	10.7	0	1.00
WB	28-Mar-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	28-Mar-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	28-Mar-24	Cl-D	mg/L	1	1	<1.0	<1.0	0	1.00
WB	28-Mar-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WB	28-Mar-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	28-Mar-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	28-Mar-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	28-Mar-24	Cu-D	mg/L	0.0002	0.0002	0.00051	0.00051	0	1.00
WB	28-Mar-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	28-Mar-24	DOC	mg/L	0.5	0.5	2.4	2.4	0	1.00
WB	28-Mar-24	Fe-D	mg/L	0.005	0.005	0.0202	0.0202	0	1.00
WB	28-Mar-24	Fe-T	mg/L	0.01	0.01	0.026	0.026	0	1.00
WB	28-Mar-24	Hard-D	mg/L	0.5	0.5	36.1	36.1	0	1.00
WB	28-Mar-24	Hard-T	mg/L	0.5	0.5	32.1	32.1	0	1.00
WB	28-Mar-24	K-D	mg/L	0.05	0.05	0.207	0.207	0	1.00
WB	28-Mar-24	K-T	mg/L	0.05	0.05	0.184	0.184	0	1.00
WB	28-Mar-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WB	28-Mar-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0	1.00
WB	28-Mar-24	Mg-D	mg/L	0.05	0.05	1.48	1.48	0	1.00
WB	28-Mar-24	Mg-T	mg/L	0.05	0.05	1.29	1.29	0	1.00
WB	28-Mar-24	Mn-D	mg/L	0.001	0.001	0.0026	0.0026	0	1.00
WB	28-Mar-24	Mn-T	mg/L	0.001	0.001	0.0031	0.0031	0	1.00
WB	28-Mar-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	28-Mar-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	28-Mar-24	Na-D	mg/L	0.05	0.05	11.8	11.8	0	1.00
WB	28-Mar-24	Na-T	mg/L	0.05	0.05	10.8	10.8	0	1.00
WB	28-Mar-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	28-Mar-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WB	28-Mar-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	28-Mar-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WB	28-Mar-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	28-Mar-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WB	28-Mar-24	S-D	mg/L	3	3	8.6	8.6	0	1.00
WB	28-Mar-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	28-Mar-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	28-Mar-24	Si-D	mg/L	0.1	0.1	2.09	2.09	0	1.00
WB	28-Mar-24	Si-T	mg/L	0.1	0.1	1.93	1.93	0	1.00
WB	28-Mar-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	28-Mar-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	28-Mar-24	SO4-D	mg/L	1	1	24	24	0	1.00
WB	28-Mar-24	Sr-D	mg/L	0.001	0.001	0.0569	0.0569	0	1.00
WB	28-Mar-24	Sr-T	mg/L	0.001	0.001	0.0520	0.0520	0	1.00
WB	28-Mar-24	S-T	mg/L	3	3	8.0	8.0	0	1.00
WB	28-Mar-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	28-Mar-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	28-Mar-24	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	28-Mar-24	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WB	28-Mar-24	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WB	28-Mar-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	28-Mar-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	28-Mar-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	28-Mar-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	28-Mar-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	28-Mar-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WB	28-Mar-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WB	28-Mar-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WC	3-Apr-23	SO4-D	mg/L	5	5	360	360	0	1.00
WC	3-Apr-23	TSS	mg/L	1	1	2.8	1.6	55	1.75
WC	5-Jun-23	SO4-D	mg/L	5	5	350	340	3	1.03
WC	5-Jun-23	TSS	mg/L	1	1	<1.0	1.2	18	0.83
WC	6-Feb-24	SO4-D	mg/L	5	5	430	430	0	1.00
WC	6-Feb-24	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WD	8-May-23	SO4-D	mg/L	5	5	390	380	3	1.03
WD	8-May-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WD	26-Jun-23	SO4-D	mg/L	5	5	320	280	13	1.14
WD	26-Jun-23	TSS	mg/L	1	1	<1.0	<1.0	0	1.00
WD	2-Jan-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WD	2-Jan-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0	1.00
WD	2-Jan-24	Al-D	mg/L	0.003	0.003	0.0192	0.0191	1	1.01
WD	2-Jan-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0	1.00
WD	2-Jan-24	Alk-T	mg/L	1	1	370	360	3	1.03
WD	2-Jan-24	Al-T	mg/L	0.003	0.003	0.0942	0.100	6	0.94

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 49 Relative Percent Difference 50 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WD	2-Jan-24	As-D	mg/L	0.0001	0.0001	0.00093	0.00096	3	0.97
WD	2-Jan-24	As-T	mg/L	0.0001	0.0001	0.00182	0.00175	4	1.04
WD	2-Jan-24	Ba-D	mg/L	0.001	0.001	0.0190	0.0190	0	1.00
WD	2-Jan-24	Ba-T	mg/L	0.001	0.001	0.0194	0.0188	3	1.03
WD	2-Jan-24	B-D	mg/L	0.05	0.05	0.882	0.810	9	1.09
WD	2-Jan-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WD	2-Jan-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WD	2-Jan-24	B-T	mg/L	0.05	0.05	0.827	0.753	9	1.10
WD	2-Jan-24	Ca-D	mg/L	0.05	0.05	119	123	3	0.97
WD	2-Jan-24	Ca-T	mg/L	0.05	0.05	116	114	2	1.02
WD	2-Jan-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WD	2-Jan-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	0.000014	33	0.71
WD	2-Jan-24	Co-D	mg/L	0.0002	0.0002	0.00089	0.00094	6	0.95
WD	2-Jan-24	Co-T	mg/L	0.0002	0.0002	0.00093	0.00092	1	1.01
WD	2-Jan-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WD	2-Jan-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WD	2-Jan-24	Cu-D	mg/L	0.0002	0.0002	0.00055	0.00055	0	1.00
WD	2-Jan-24	Cu-T	mg/L	0.0005	0.0005	0.00147	0.00147	0	1.00
WD	2-Jan-24	DOC	mg/L	0.5	0.5	1.4	1.4	0	1.00
WD	2-Jan-24	Fe-D	mg/L	0.005	0.005	0.0076	0.0086	12	0.88
WD	2-Jan-24	Fe-T	mg/L	0.01	0.01	0.451	0.455	1	0.99
WD	2-Jan-24	Hard-D	mg/L	0.5	0.5	360	368	2	0.98
WD	2-Jan-24	Hard-T	mg/L	0.5	0.5	350	343	2	1.02
WD	2-Jan-24	K-D	mg/L	0.05	0.05	3.16	3.20	1	0.99
WD	2-Jan-24	K-T	mg/L	0.05	0.05	3.13	3.05	3	1.03
WD	2-Jan-24	Li-D	mg/L	0.002	0.002	0.0135	0.0137	2	0.99
WD	2-Jan-24	Li-T	mg/L	0.002	0.002	0.0131	0.0127	3	1.03
WD	2-Jan-24	Mg-D	mg/L	0.05	0.05	15.2	15.0	1	1.01
WD	2-Jan-24	Mg-T	mg/L	0.05	0.05	14.8	14.4	3	1.03
WD	2-Jan-24	Mn-D	mg/L	0.001	0.001	0.125	0.129	3	0.97
WD	2-Jan-24	Mn-T	mg/L	0.001	0.001	0.129	0.125	3	1.03
WD	2-Jan-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WD	2-Jan-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0	1.00
WD	2-Jan-24	Na-D	mg/L	0.05	0.05	244	250	2	0.98
WD	2-Jan-24	Na-T	mg/L	0.05	0.05	242	230	5	1.05
WD	2-Jan-24	Ni-D	mg/L	0.001	0.001	0.0032	0.0033	3	0.97
WD	2-Jan-24	Ni-T	mg/L	0.001	0.001	0.0033	0.0033	0	1.00
WD	2-Jan-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WD	2-Jan-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0	1.00
WD	2-Jan-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WD	2-Jan-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0	1.00
WD	2-Jan-24	S-D	mg/L	3	3	180	184	2	0.98
WD	2-Jan-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WD	2-Jan-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WD	2-Jan-24	Si-D	mg/L	0.1	0.1	3.85	3.75	3	1.03
WD	2-Jan-24	Si-T	mg/L	0.1	0.1	3.93	3.98	1	0.99
WD	2-Jan-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WD	2-Jan-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WD	2-Jan-24	SO4-D	mg/L	5	5	500	490	2	1.02
WD	2-Jan-24	Sr-D	mg/L	0.001	0.001	1.10	1.11	1	0.99
WD	2-Jan-24	Sr-T	mg/L	0.001	0.001	1.11	1.08	3	1.03
WD	2-Jan-24	S-T	mg/L	3	3	178	173	3	1.03
WD	2-Jan-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WD	2-Jan-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WD	2-Jan-24	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WD	2-Jan-24	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0	1.00
WD	2-Jan-24	TSS	mg/L	1	1	1.6	2	22	0.80
WD	2-Jan-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WD	2-Jan-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WD	2-Jan-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WD	2-Jan-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WD	2-Jan-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WD	2-Jan-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0	1.00
WD	2-Jan-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WD	2-Jan-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0	1.00
WD	18-Mar-24	SO4-D	mg/L	5	5	430	430	0	1.00
WD	18-Mar-24	TSS	mg/L	1	1	2.0	1.2	50	1.67

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

Blue -Different Lab MDL

Appendix 1 - Tables

Table 50 RPD Greater Than 20% 3 Page(s)

Relative Percent Difference (RPD) Greater than 20%										Are Lab MDL 1
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	and 2 Equal
2SI	4-Jul-23	H2S	mg/L	0.0020	0.0020	0.082	0.12	38	0.68	TRUE
2SI	4-Jul-23	S2-T	mg/L	0.0018	0.0018	0.077	0.11	35	0.70	TRUE
2SI	5-Sep-23	Alk-T	mg/L	1.0	1.0	350	260	30	1.35	TRUE
2SI	5-Sep-23	Al-T	mg/L	0.0030	0.0030	0.0041	<0.0030	31	1.37	TRUE
2SI	5-Sep-23	As-T	mg/L	0.00010	0.00010	0.00056	0.00045	22	1.24	TRUE
2SI	5-Sep-23	Fe-D	mg/L	0.0050	0.0050	0.0485	0.0928	63	0.52	TRUE
2SI	5-Sep-23	Fe-T	mg/L	0.010	0.010	0.297	0.044	148	6.75	TRUE
2SI	5-Sep-23	H2S	mg/L	0.0020	0.0020	0.14	0.015	161	9.33	TRUE
2SI	5-Sep-23	N-NO23	mg/L	0.020	0.020	0.051	0.025	68	2.04	TRUE
2SI	5-Sep-23	P-T	mg/L	0.0030	0.0030	0.0076	0.0036	71	2.11	TRUE
2SI	5-Sep-23	S2-T	mg/L	0.0018	0.0018	0.13	0.015	159	8.67	TRUE
2SI	5-Sep-23	SO4-D	mg/L	5.0	5.0	390	560	36	0.70	TRUE
2SI	18-Sep-23	H2S	mg/L	0.0020	0.0020	0.034	0.042	21	0.81	TRUE
2SI	18-Sep-23	S2-T	mg/L	0.0018	0.0018	0.032	0.040	22	0.80	TRUE
2SI	11-Mar-24	H2S	mg/L	0.0020	0.0020	0.024	0.018	29	1.33	TRUE
2SI	11-Mar-24	S2-T	mg/L	0.0018	0.0018	0.022	0.017	26	1.29	TRUE
2SI	11-Mar-24	SO4-D	mg/L	5.0	5.0	270	210	25	1.29	TRUE
7SQR	31-Jul-23	Al-D	mg/L	0.0030	0.0030	0.0083	0.0144	54	0.58	TRUE
7SQR	31-Jul-23	Cd-D	mg/L	0.000010	0.000010	<0.000010	0.000021	71	0.48	TRUE
7SQR	31-Jul-23	Cu-D	mg/L	0.00020	0.00020	0.00050	0.00082	49	0.61	TRUE
7SQR	31-Jul-23	DOC	mg/L	0.50	0.50	2.5	2.0	22	1.25	TRUE
7SQR	31-Jul-23	TSS	mg/L	1.0	1.0	2.0	<1.0	67	2.00	TRUE
7SQR	1-Nov-23	Cu-D	mg/L	0.00020	0.00020	0.00041	0.00052	24	0.79	TRUE
7SQR	1-Nov-23	Cu-T	mg/L	0.00050	0.00050	<0.00050	0.00065	26	0.77	TRUE
7SSD	10-Jul-23	S-D	mg/L	3.0	3.0	3.2	4.3	29	0.74	TRUE
7SSD	10-Jul-23	TSS	mg/L	1.0	1.0	4.0	2.8	35	1.43	TRUE
INF	11-Sep-23	H2S	mg/L	0.0020	0.0020	0.0066	0.0032	69	2.06	TRUE
INF	11-Sep-23	S2-T	mg/L	0.0018	0.0018	0.0062	0.0030	70	2.07	TRUE
INF	10-Oct-23	H2S	mg/L	0.0020	0.0020	0.0090	0.0056	47	1.61	TRUE
INF	10-Oct-23	S2-T	mg/L	0.0018	0.0018	0.0085	0.0053	46	1.60	TRUE
INF	6-Nov-23	Al-T	mg/L	0.0030	0.0030	0.0449	<0.0030	175	14.97	TRUE
INF	6-Nov-23	N-NO23	mg/L	0.020	0.020	<0.020	0.079	119	0.25	TRUE
INF	6-Nov-23	N-NO3	mg/L	0.020	0.020	<0.020	0.079	119	0.25	TRUE
INF	18-Dec-23	H2S	mg/L	0.0020	0.0020	0.0022	0.026	169	0.08	TRUE
INF	18-Dec-23	S2-T	mg/L	0.0018	0.0018	0.0021	0.025	169	0.08	TRUE

True RPD calculation: One or more of the results must be Five X's > than the Lab Mean Detection Limit (Lab MDL).

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

Appendix 1 - Tables

Table 50 RPD Greater Than 20% 3 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	and 2 Equal
LLM1	12-Jul-23	B-D	mg/L	0.050	0.050	0.096	<0.050	63	1.92	TRUE
LLM1	9-Aug-23	N-NO23	mg/L	0.020	0.020	<0.020	0.060	100	0.33	TRUE
LLM1	9-Aug-23	P-T	mg/L	0.0030	0.0030	0.0039	0.0063	47	0.62	TRUE
LLM1	4-Oct-23	Turb	NTU	0.10	0.10	0.21	0.29	32	0.72	TRUE
LLM1	30-Oct-23	P-T	mg/L	0.0030	0.0030	<0.0030	0.0041	31	0.73	TRUE
LLM4	12-Apr-23	SO4-D	mg/L	1.0	1.0	68	46	39	1.48	TRUE
LLM4	18-Jul-23	As-D	mg/L	0.00010	0.00010	0.00049	0.00065	28	0.75	TRUE
LLM4	18-Jul-23	As-T	mg/L	0.00010	0.00010	0.00041	0.00051	22	0.80	TRUE
LLM4	18-Jul-23	Mn-D	mg/L	0.0010	0.0010	0.0046	0.0027	52	1.70	TRUE
LLM4	18-Jul-23	Mn-T	mg/L	0.0010	0.0010	0.0105	0.0080	27	1.31	TRUE
LLM4	18-Jul-23	Na-T	mg/L	0.050	0.050	5.42	4.41	21	1.23	TRUE
LLM4	18-Jul-23	P-T	mg/L	0.0030	0.0030	0.0055	<0.0030	59	1.83	TRUE
LLM4	18-Jul-23	Sr-T	mg/L	0.0010	0.0010	0.115	0.0917	23	1.25	TRUE
LLM4	18-Jul-23	Turb	NTU	0.10	0.10	0.23	0.30	26	0.77	TRUE
LLM4	17-Oct-23	Al-D	mg/L	0.0030	0.0030	0.0047	0.0038	21	1.24	TRUE
LLM4	17-Oct-23	Fe-D	mg/L	0.0050	0.0050	0.0177	0.0081	74	2.19	TRUE
LLM4	17-Oct-23	Fe-T	mg/L	0.010	0.010	<0.010	0.018	57	0.56	TRUE
LLM4	17-Oct-23	Mn-D	mg/L	0.0010	0.0010	0.0064	<0.0010	146	6.40	TRUE
LLM4	17-Oct-23	Mn-T	mg/L	0.0010	0.0010	<0.0010	0.0064	146	0.16	TRUE
LLM4	23-Oct-23	Pb-T	mg/L	0.00020	0.00020	0.00026	<0.00020	26	1.30	TRUE
LLO	24-Apr-23	Al-T	mg/L	0.0030	0.0030	0.0349	0.0275	24	1.27	TRUE
LLO	24-Apr-23	Mn-T	mg/L	0.0010	0.0010	0.0087	0.0067	26	1.30	TRUE
LQL1	4-Apr-23	Al-D	mg/L	0.0030	0.0030	0.0194	0.0151	25	1.28	TRUE
LQL1	4-Apr-23	Al-T	mg/L	0.0030	0.0030	0.0147	0.0211	36	0.70	TRUE
LQL1	4-Apr-23	Fe-D	mg/L	0.0050	0.0050	0.0718	0.0423	52	1.70	TRUE
LQL1	4-Apr-23	Fe-T	mg/L	0.010	0.010	0.040	0.070	55	0.57	TRUE
LQL1	4-Apr-23	Mn-D	mg/L	0.0010	0.0010	0.0053	0.0031	52	1.71	TRUE
LQL1	4-Apr-23	Mn-T	mg/L	0.0010	0.0010	0.0030	0.0053	55	0.57	TRUE
LQL1	4-Apr-23	N-NO23	mg/L	0.020	0.020	0.033	0.024	32	1.38	TRUE
LQL1	4-Apr-23	P-T	mg/L	0.0030	0.0030	<0.0030	0.0064	72	0.47	TRUE
MLQ1	19-Apr-23	Al-D	mg/L	0.0030	0.0030	0.0096	0.0138	36	0.70	TRUE
MLQ1	19-Apr-23	Fe-D	mg/L	0.0050	0.0050	0.0135	0.0198	38	0.68	TRUE
MLQ1	26-Jul-23	P-T	mg/L	0.0030	0.0030	0.0063	0.0034	60	1.85	TRUE
MLQ4	25-Apr-23	Al-T	mg/L	0.0030	0.0030	0.0174	0.0123	34	1.41	TRUE
MLQ4	25-Apr-23	Cu-D	mg/L	0.00020	0.00020	0.00049	0.00085	54	0.58	TRUE
MLQ4	25-Apr-23	Fe-T	mg/L	0.010	0.010	0.028	0.020	33	1.40	TRUE

True RPD calculation: One or more of the results must be Five X's > than the Lab Mean Detection Limit (Lab MDL).

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

Appendix 1 - Tables

Table 50 RPD Greater Than 20% 3 Page(s)

Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	and 2 Equal
MQL4	1-Aug-23	Al-T	mg/L	0.0030	0.0030	0.0256	0.0127	67	2.02	TRUE
MQL4	1-Aug-23	Cu-D	mg/L	0.00020	0.00020	0.00045	0.00058	25	0.78	TRUE
MW002	24-May-23	B-D	mg/L	0.25	0.25	0.86	0.67	25	1.28	TRUE
MW002	24-May-23	Turb	NTU	0.10	0.10	31	48	43	0.65	TRUE
MW004	28-Aug-23	Cu-D	mg/L	0.00020	0.00020	0.00049	0.00063	25	0.78	TRUE
MW004	28-Aug-23	N-D	mg/L	0.020	0.020	0.426	0.121	112	3.52	TRUE
MW004	28-Aug-23	Turb	NTU	0.10	0.10	1.6	1.3	21	1.23	TRUE
NNL1	5-Apr-23	Cu-D	mg/L	0.00020	0.00020	0.00037	0.00056	41	0.66	TRUE
NNL1	5-Apr-23	N-NO23	mg/L	0.020	0.020	0.035	0.059	51	0.59	TRUE
NNL1	5-Apr-23	P-T	mg/L	0.0030	0.0030	<0.0030	0.0038	24	0.79	TRUE
QRDS1	17-Apr-23	TSS	mg/L	1.0	1.0	<1.0	1.6	46	0.62	TRUE
QU0821GD	16-May-23	Se-D	mg/L	0.00050	0.00050	0.00063	0.00123	65	0.51	TRUE
QU0821GS	20-Mar-24	H2S	mg/L	0.0020	0.0020	0.13	0.0091	174	14.29	TRUE
QU0821GS	20-Mar-24	S2-T	mg/L	0.0018	0.0018	0.12	0.0086	173	13.95	TRUE
QU1009D	18-May-23	Br-D	mg/L	0.010	0.010	0.015	0.037	85	0.41	TRUE
QU1013D	23-Nov-23	Al-D	mg/L	0.0030	0.0030	<0.0030	0.0062	70	0.48	TRUE
QU1013D	23-Nov-23	P-D	mg/L	0.0030	0.0030	0.020	0.0054	115	3.70	TRUE
QU1013D	23-Nov-23	Se-D	mg/L	0.00010	0.00010	0.00021	<0.00010	71	2.10	TRUE
QU1013D	23-Nov-23	Turb	NTU	0.10	0.10	5.6	4.3	26	1.30	TRUE
QU1410	7-Mar-24	Al-D	mg/L	0.0060	0.0060	0.0134	<0.0060	76	2.23	TRUE
QU1410	7-Mar-24	N-D	mg/L	0.020	0.020	0.418	0.530	24	0.79	TRUE
QU1410	7-Mar-24	Si-D	mg/L	0.20	0.20	3.99	3.05	27	1.31	TRUE
QU1410	7-Mar-24	Turb	NTU	0.10	0.10	4.8	2.9	49	1.66	TRUE
SPC	5-Dec-23	TSS	mg/L	1.0	1.0	<1.0	2.4	82	0.42	TRUE
SPD	27-Dec-23	TSS	mg/L	1.0	1.0	<1.0	1.6	46	0.62	TRUE
WA	4-Apr-23	Cu-D	mg/L	0.00020	0.00020	0.00134	0.00060	76	2.23	TRUE
WA	4-Apr-23	Fe-D	mg/L	0.0050	0.0050	0.0057	0.0082	36	0.70	TRUE
WA	4-Apr-23	Ni-T	mg/L	0.0010	0.0010	<0.0010	0.0021	71	0.48	TRUE
WA	4-Apr-23	Zr-T	mg/L	0.00010	0.00010	<0.00010	0.00040	120	0.25	TRUE
WB	19-Oct-23	TSS	mg/L	1.0	1.0	1.6	<1.0	46	1.60	TRUE
WC	3-Apr-23	TSS	mg/L	1.0	1.0	2.8	1.6	55	1.75	TRUE
WD	2-Jan-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	0.000014	33	0.71	TRUE
WD	2-Jan-24	TSS	mg/L	1.0	1.0	1.6	2.0	22	0.80	TRUE
WD	18-Mar-24	TSS	mg/L	1.0	1.0	2.0	1.2	50	1.67	TRUE

True RPD calculation: One or more of the results must be Five X's > than the Lab Mean Detection Limit (Lab MDL).

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

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB1	5-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB1	5-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB1	5-Apr-23	Al-D	mg/L	0.003	0.0030
EB1	5-Apr-23	Alk-PP	mg/L	1	<1.0
EB1	5-Apr-23	Alk-T	mg/L	1	<1.0
EB1	5-Apr-23	Al-T	mg/L	0.003	<0.0030
EB1	5-Apr-23	As-D	mg/L	0.0001	<0.00010
EB1	5-Apr-23	As-T	mg/L	0.0001	<0.00010
EB1	5-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB1	5-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB1	5-Apr-23	B-D	mg/L	0.05	<0.050
EB1	5-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB1	5-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB1	5-Apr-23	B-T	mg/L	0.05	<0.050
EB1	5-Apr-23	Ca-D	mg/L	0.05	<0.050
EB1	5-Apr-23	Ca-T	mg/L	0.05	<0.050
EB1	5-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB1	5-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB1	5-Apr-23	Cl-D	mg/L	1	<1.0
EB1	5-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB1	5-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB1	5-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB1	5-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB1	5-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB1	5-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB1	5-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB1	5-Apr-23	Fe-T	mg/L	0.01	<0.010
EB1	5-Apr-23	Hard-D	mg/L	0.5	<0.50
EB1	5-Apr-23	Hard-T	mg/L	0.5	<0.50
EB1	5-Apr-23	K-D	mg/L	0.05	<0.050
EB1	5-Apr-23	K-T	mg/L	0.05	<0.050
EB1	5-Apr-23	Li-D	mg/L	0.002	<0.0020
EB1	5-Apr-23	Li-T	mg/L	0.002	<0.0020
EB1	5-Apr-23	Mg-D	mg/L	0.05	<0.050
EB1	5-Apr-23	Mg-T	mg/L	0.05	<0.050
EB1	5-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB1	5-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB1	5-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB1	5-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB1	5-Apr-23	Na-D	mg/L	0.05	<0.050
EB1	5-Apr-23	Na-T	mg/L	0.05	<0.050
EB1	5-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB1	5-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB1	5-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB1	5-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB1	5-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB1	5-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB1	5-Apr-23	S-D	mg/L	3	<3.0
EB1	5-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB1	5-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB1	5-Apr-23	Si-D	mg/L	0.1	<0.10
EB1	5-Apr-23	Si-T	mg/L	0.1	<0.10
EB1	5-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB1	5-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB1	5-Apr-23	SO4-D	mg/L	1	<1.0

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB1	5-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB1	5-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB1	5-Apr-23	S-T	mg/L	3	<3.0
EB1	5-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB1	5-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB1	5-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB1	5-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB1	5-Apr-23	U-D	mg/L	0.0001	<0.00010
EB1	5-Apr-23	U-T	mg/L	0.0001	<0.00010
EB1	5-Apr-23	V-D	mg/L	0.005	<0.0050
EB1	5-Apr-23	V-T	mg/L	0.005	<0.0050
EB1	5-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB1	5-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB1	5-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB1	5-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB1	12-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB1	12-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB1	12-Apr-23	Al-D	mg/L	0.003	<0.0030
EB1	12-Apr-23	Alk-PP	mg/L	1	<1.0
EB1	12-Apr-23	Alk-T	mg/L	1	1.2
EB1	12-Apr-23	Al-T	mg/L	0.003	<0.0030
EB1	12-Apr-23	As-D	mg/L	0.0001	<0.00010
EB1	12-Apr-23	As-T	mg/L	0.0001	<0.00010
EB1	12-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB1	12-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB1	12-Apr-23	B-D	mg/L	0.05	<0.050
EB1	12-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB1	12-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB1	12-Apr-23	B-T	mg/L	0.05	<0.050
EB1	12-Apr-23	Ca-D	mg/L	0.05	0.089
EB1	12-Apr-23	Ca-T	mg/L	0.05	<0.050
EB1	12-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB1	12-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB1	12-Apr-23	Cl-D	mg/L	1	<1.0
EB1	12-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB1	12-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB1	12-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB1	12-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB1	12-Apr-23	Cu-D	mg/L	0.0002	0.00020
EB1	12-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB1	12-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB1	12-Apr-23	Fe-T	mg/L	0.01	<0.010
EB1	12-Apr-23	Hard-D	mg/L	0.5	<0.50
EB1	12-Apr-23	Hard-T	mg/L	0.5	<0.50
EB1	12-Apr-23	K-D	mg/L	0.05	<0.050
EB1	12-Apr-23	K-T	mg/L	0.05	<0.050
EB1	12-Apr-23	Li-D	mg/L	0.002	<0.0020
EB1	12-Apr-23	Li-T	mg/L	0.002	<0.0020
EB1	12-Apr-23	Mg-D	mg/L	0.05	<0.050
EB1	12-Apr-23	Mg-T	mg/L	0.05	<0.050
EB1	12-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB1	12-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB1	12-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB1	12-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB1	12-Apr-23	Na-D	mg/L	0.05	<0.050

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB1	12-Apr-23	Na-T	mg/L	0.05	<0.050
EB1	12-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB1	12-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB1	12-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB1	12-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB1	12-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB1	12-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB1	12-Apr-23	S-D	mg/L	3	<3.0
EB1	12-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB1	12-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB1	12-Apr-23	Si-D	mg/L	0.1	<0.10
EB1	12-Apr-23	Si-T	mg/L	0.1	<0.10
EB1	12-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB1	12-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB1	12-Apr-23	SO4-D	mg/L	1	<1.0
EB1	12-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB1	12-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB1	12-Apr-23	S-T	mg/L	3	<3.0
EB1	12-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB1	12-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB1	12-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB1	12-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB1	12-Apr-23	Turb	NTU	0.1	0.23
EB1	12-Apr-23	U-D	mg/L	0.0001	<0.00010
EB1	12-Apr-23	U-T	mg/L	0.0001	<0.00010
EB1	12-Apr-23	V-D	mg/L	0.005	<0.0050
EB1	12-Apr-23	V-T	mg/L	0.005	<0.0050
EB1	12-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB1	12-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB1	12-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB1	12-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB1	19-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB1	19-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB1	19-Apr-23	Al-D	mg/L	0.003	<0.0030
EB1	19-Apr-23	Alk-PP	mg/L	1	<1.0
EB1	19-Apr-23	Alk-T	mg/L	1	<1.0
EB1	19-Apr-23	Al-T	mg/L	0.003	<0.0030
EB1	19-Apr-23	As-D	mg/L	0.0001	<0.00010
EB1	19-Apr-23	As-T	mg/L	0.0001	<0.00010
EB1	19-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB1	19-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB1	19-Apr-23	B-D	mg/L	0.05	<0.050
EB1	19-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB1	19-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB1	19-Apr-23	B-T	mg/L	0.05	<0.050
EB1	19-Apr-23	Ca-D	mg/L	0.05	<0.050
EB1	19-Apr-23	Ca-T	mg/L	0.05	<0.050
EB1	19-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB1	19-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB1	19-Apr-23	Cl-D	mg/L	1	<1.0
EB1	19-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB1	19-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB1	19-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB1	19-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB1	19-Apr-23	Cu-D	mg/L	0.0002	<0.00020

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB1	19-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB1	19-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB1	19-Apr-23	Fe-T	mg/L	0.01	<0.010
EB1	19-Apr-23	Hard-D	mg/L	0.5	<0.50
EB1	19-Apr-23	Hard-T	mg/L	0.5	<0.50
EB1	19-Apr-23	K-D	mg/L	0.05	<0.050
EB1	19-Apr-23	K-T	mg/L	0.05	<0.050
EB1	19-Apr-23	Li-D	mg/L	0.002	<0.0020
EB1	19-Apr-23	Li-T	mg/L	0.002	<0.0020
EB1	19-Apr-23	Mg-D	mg/L	0.05	<0.050
EB1	19-Apr-23	Mg-T	mg/L	0.05	<0.050
EB1	19-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB1	19-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB1	19-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB1	19-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB1	19-Apr-23	Na-D	mg/L	0.05	<0.050
EB1	19-Apr-23	Na-T	mg/L	0.05	<0.050
EB1	19-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB1	19-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB1	19-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB1	19-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB1	19-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB1	19-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB1	19-Apr-23	S-D	mg/L	3	<3.0
EB1	19-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB1	19-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB1	19-Apr-23	Si-D	mg/L	0.1	<0.10
EB1	19-Apr-23	Si-T	mg/L	0.1	<0.10
EB1	19-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB1	19-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB1	19-Apr-23	SO4-D	mg/L	1	<1.0
EB1	19-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB1	19-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB1	19-Apr-23	S-T	mg/L	3	<3.0
EB1	19-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB1	19-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB1	19-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB1	19-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB1	19-Apr-23	Turb	NTU	0.1	<0.10
EB1	19-Apr-23	U-D	mg/L	0.0001	<0.00010
EB1	19-Apr-23	U-T	mg/L	0.0001	<0.00010
EB1	19-Apr-23	V-D	mg/L	0.005	<0.0050
EB1	19-Apr-23	V-T	mg/L	0.005	<0.0050
EB1	19-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB1	19-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB1	19-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB1	19-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB1	25-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB1	25-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB1	25-Apr-23	Al-D	mg/L	0.003	<0.0030
EB1	25-Apr-23	Al-T	mg/L	0.003	<0.0030
EB1	25-Apr-23	As-D	mg/L	0.0001	<0.00010
EB1	25-Apr-23	As-T	mg/L	0.0001	<0.00010
EB1	25-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB1	25-Apr-23	Ba-T	mg/L	0.001	<0.0010

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB1	25-Apr-23	B-D	mg/L	0.05	<0.050
EB1	25-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB1	25-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB1	25-Apr-23	B-T	mg/L	0.05	<0.050
EB1	25-Apr-23	Ca-D	mg/L	0.05	<0.050
EB1	25-Apr-23	Ca-T	mg/L	0.05	<0.050
EB1	25-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB1	25-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB1	25-Apr-23	Cl-D	mg/L	1	<1.0
EB1	25-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB1	25-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB1	25-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB1	25-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB1	25-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB1	25-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB1	25-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB1	25-Apr-23	Fe-T	mg/L	0.01	<0.010
EB1	25-Apr-23	Hard-D	mg/L	0.5	<0.50
EB1	25-Apr-23	Hard-T	mg/L	0.5	<0.50
EB1	25-Apr-23	K-D	mg/L	0.05	<0.050
EB1	25-Apr-23	K-T	mg/L	0.05	<0.050
EB1	25-Apr-23	Li-D	mg/L	0.002	<0.0020
EB1	25-Apr-23	Li-T	mg/L	0.002	<0.0020
EB1	25-Apr-23	Mg-D	mg/L	0.05	<0.050
EB1	25-Apr-23	Mg-T	mg/L	0.05	<0.050
EB1	25-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB1	25-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB1	25-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB1	25-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB1	25-Apr-23	Na-D	mg/L	0.05	<0.050
EB1	25-Apr-23	Na-T	mg/L	0.05	<0.050
EB1	25-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB1	25-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB1	25-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB1	25-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB1	25-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB1	25-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB1	25-Apr-23	S-D	mg/L	3	<3.0
EB1	25-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB1	25-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB1	25-Apr-23	Si-D	mg/L	0.1	<0.10
EB1	25-Apr-23	Si-T	mg/L	0.1	<0.10
EB1	25-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB1	25-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB1	25-Apr-23	SO4-D	mg/L	1	<1.0
EB1	25-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB1	25-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB1	25-Apr-23	S-T	mg/L	3	<3.0
EB1	25-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB1	25-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB1	25-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB1	25-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB1	25-Apr-23	Turb	NTU	0.1	0.44
EB1	25-Apr-23	U-D	mg/L	0.0001	<0.00010
EB1	25-Apr-23	U-T	mg/L	0.0001	<0.00010

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB1	25-Apr-23	V-D	mg/L	0.005	<0.0050
EB1	25-Apr-23	V-T	mg/L	0.005	<0.0050
EB1	25-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB1	25-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB1	25-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB1	25-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB1	2-May-23	Ag-D	mg/L	0.00002	<0.000020
EB1	2-May-23	Ag-T	mg/L	0.00002	<0.000020
EB1	2-May-23	Al-D	mg/L	0.003	<0.0030
EB1	2-May-23	Al-T	mg/L	0.003	<0.0030
EB1	2-May-23	As-D	mg/L	0.0001	<0.00010
EB1	2-May-23	As-T	mg/L	0.0001	<0.00010
EB1	2-May-23	Ba-D	mg/L	0.001	<0.0010
EB1	2-May-23	Ba-T	mg/L	0.001	<0.0010
EB1	2-May-23	B-D	mg/L	0.05	<0.050
EB1	2-May-23	Be-D	mg/L	0.0001	<0.00010
EB1	2-May-23	Be-T	mg/L	0.0001	<0.00010
EB1	2-May-23	B-T	mg/L	0.05	<0.050
EB1	2-May-23	Ca-D	mg/L	0.05	<0.050
EB1	2-May-23	Ca-T	mg/L	0.05	<0.050
EB1	2-May-23	Cd-D	mg/L	0.00001	<0.000010
EB1	2-May-23	Cd-T	mg/L	0.00001	<0.000010
EB1	2-May-23	Cl-D	mg/L	1	<1.0
EB1	2-May-23	Co-D	mg/L	0.0002	<0.00020
EB1	2-May-23	Co-T	mg/L	0.0002	<0.00020
EB1	2-May-23	Cr-D	mg/L	0.001	<0.0010
EB1	2-May-23	Cr-T	mg/L	0.001	<0.0010
EB1	2-May-23	Cu-D	mg/L	0.0002	0.00051
EB1	2-May-23	Cu-T	mg/L	0.0005	<0.00050
EB1	2-May-23	Fe-D	mg/L	0.005	<0.0050
EB1	2-May-23	Fe-T	mg/L	0.01	<0.010
EB1	2-May-23	Hard-D	mg/L	0.5	<0.50
EB1	2-May-23	Hard-T	mg/L	0.5	<0.50
EB1	2-May-23	K-D	mg/L	0.05	<0.050
EB1	2-May-23	K-T	mg/L	0.05	<0.050
EB1	2-May-23	Li-D	mg/L	0.002	<0.0020
EB1	2-May-23	Li-T	mg/L	0.002	<0.0020
EB1	2-May-23	Mg-D	mg/L	0.05	<0.050
EB1	2-May-23	Mg-T	mg/L	0.05	<0.050
EB1	2-May-23	Mn-D	mg/L	0.001	<0.0010
EB1	2-May-23	Mn-T	mg/L	0.001	<0.0010
EB1	2-May-23	Mo-D	mg/L	0.001	<0.0010
EB1	2-May-23	Mo-T	mg/L	0.001	<0.0010
EB1	2-May-23	Na-D	mg/L	0.05	<0.050
EB1	2-May-23	Na-T	mg/L	0.05	<0.050
EB1	2-May-23	Ni-D	mg/L	0.001	<0.0010
EB1	2-May-23	Ni-T	mg/L	0.001	<0.0010
EB1	2-May-23	Pb-D	mg/L	0.0002	<0.00020
EB1	2-May-23	Pb-T	mg/L	0.0002	<0.00020
EB1	2-May-23	Sb-D	mg/L	0.0005	<0.00050
EB1	2-May-23	Sb-T	mg/L	0.0005	<0.00050
EB1	2-May-23	S-D	mg/L	3	<3.0
EB1	2-May-23	Se-D	mg/L	0.0001	<0.00010
EB1	2-May-23	Se-T	mg/L	0.0001	<0.00010
EB1	2-May-23	Si-D	mg/L	0.1	<0.10

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB1	2-May-23	Si-T	mg/L	0.1	<0.10
EB1	2-May-23	Sn-D	mg/L	0.005	<0.0050
EB1	2-May-23	Sn-T	mg/L	0.005	<0.0050
EB1	2-May-23	SO4-D	mg/L	1	<1.0
EB1	2-May-23	Sr-D	mg/L	0.001	<0.0010
EB1	2-May-23	Sr-T	mg/L	0.001	<0.0010
EB1	2-May-23	S-T	mg/L	3	<3.0
EB1	2-May-23	Ti-D	mg/L	0.005	<0.0050
EB1	2-May-23	Ti-T	mg/L	0.005	<0.0050
EB1	2-May-23	Tl-D	mg/L	0.00001	<0.000010
EB1	2-May-23	Tl-T	mg/L	0.00001	<0.000010
EB1	2-May-23	Turb	NTU	0.1	<0.10
EB1	2-May-23	U-D	mg/L	0.0001	<0.00010
EB1	2-May-23	U-T	mg/L	0.0001	<0.00010
EB1	2-May-23	V-D	mg/L	0.005	<0.0050
EB1	2-May-23	V-T	mg/L	0.005	<0.0050
EB1	2-May-23	Zn-D	mg/L	0.005	<0.0050
EB1	2-May-23	Zn-T	mg/L	0.005	<0.0050
EB1	2-May-23	Zr-D	mg/L	0.0001	<0.00010
EB1	2-May-23	Zr-T	mg/L	0.0001	<0.00010
EB2	19-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB2	19-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB2	19-Apr-23	Al-D	mg/L	0.003	<0.0030
EB2	19-Apr-23	Alk-PP	mg/L	1	<1.0
EB2	19-Apr-23	Alk-T	mg/L	1	<1.0
EB2	19-Apr-23	Al-T	mg/L	0.003	<0.0030
EB2	19-Apr-23	As-D	mg/L	0.0001	<0.00010
EB2	19-Apr-23	As-T	mg/L	0.0001	<0.00010
EB2	19-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB2	19-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB2	19-Apr-23	B-D	mg/L	0.05	<0.050
EB2	19-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB2	19-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB2	19-Apr-23	B-T	mg/L	0.05	<0.050
EB2	19-Apr-23	Ca-D	mg/L	0.05	<0.050
EB2	19-Apr-23	Ca-T	mg/L	0.05	<0.050
EB2	19-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB2	19-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB2	19-Apr-23	Cl-D	mg/L	1	<1.0
EB2	19-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB2	19-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB2	19-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB2	19-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB2	19-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB2	19-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB2	19-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB2	19-Apr-23	Fe-T	mg/L	0.01	<0.010
EB2	19-Apr-23	Hard-D	mg/L	0.5	<0.50
EB2	19-Apr-23	Hard-T	mg/L	0.5	<0.50
EB2	19-Apr-23	K-D	mg/L	0.05	<0.050
EB2	19-Apr-23	K-T	mg/L	0.05	<0.050
EB2	19-Apr-23	Li-D	mg/L	0.002	<0.0020
EB2	19-Apr-23	Li-T	mg/L	0.002	<0.0020
EB2	19-Apr-23	Mg-D	mg/L	0.05	<0.050
EB2	19-Apr-23	Mg-T	mg/L	0.05	<0.050

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	19-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB2	19-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB2	19-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB2	19-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB2	19-Apr-23	Na-D	mg/L	0.05	<0.050
EB2	19-Apr-23	Na-T	mg/L	0.05	<0.050
EB2	19-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB2	19-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB2	19-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB2	19-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB2	19-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB2	19-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB2	19-Apr-23	S-D	mg/L	3	<3.0
EB2	19-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB2	19-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB2	19-Apr-23	Si-D	mg/L	0.1	<0.10
EB2	19-Apr-23	Si-T	mg/L	0.1	<0.10
EB2	19-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB2	19-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB2	19-Apr-23	SO4-D	mg/L	1	<1.0
EB2	19-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB2	19-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB2	19-Apr-23	S-T	mg/L	3	<3.0
EB2	19-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB2	19-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB2	19-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB2	19-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB2	19-Apr-23	Turb	NTU	0.1	0.34
EB2	19-Apr-23	U-D	mg/L	0.0001	<0.00010
EB2	19-Apr-23	U-T	mg/L	0.0001	<0.00010
EB2	19-Apr-23	V-D	mg/L	0.005	<0.0050
EB2	19-Apr-23	V-T	mg/L	0.005	<0.0050
EB2	19-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB2	19-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB2	19-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB2	19-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB2	25-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB2	25-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB2	25-Apr-23	Al-D	mg/L	0.003	<0.0030
EB2	25-Apr-23	Alk-PP	mg/L	1	<1.0
EB2	25-Apr-23	Alk-T	mg/L	1	<1.0
EB2	25-Apr-23	Al-T	mg/L	0.003	0.0066
EB2	25-Apr-23	As-D	mg/L	0.0001	<0.00010
EB2	25-Apr-23	As-T	mg/L	0.0001	<0.00010
EB2	25-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB2	25-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB2	25-Apr-23	B-D	mg/L	0.05	<0.050
EB2	25-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB2	25-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB2	25-Apr-23	B-T	mg/L	0.05	<0.050
EB2	25-Apr-23	Ca-D	mg/L	0.05	<0.050
EB2	25-Apr-23	Ca-T	mg/L	0.05	<0.050
EB2	25-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB2	25-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB2	25-Apr-23	Cl-D	mg/L	1	<1.0

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	25-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB2	25-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB2	25-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB2	25-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB2	25-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB2	25-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB2	25-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB2	25-Apr-23	Fe-T	mg/L	0.01	<0.010
EB2	25-Apr-23	Hard-D	mg/L	0.5	<0.50
EB2	25-Apr-23	Hard-T	mg/L	0.5	<0.50
EB2	25-Apr-23	K-D	mg/L	0.05	<0.050
EB2	25-Apr-23	K-T	mg/L	0.05	<0.050
EB2	25-Apr-23	Li-D	mg/L	0.002	<0.0020
EB2	25-Apr-23	Li-T	mg/L	0.002	<0.0020
EB2	25-Apr-23	Mg-D	mg/L	0.05	<0.050
EB2	25-Apr-23	Mg-T	mg/L	0.05	<0.050
EB2	25-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB2	25-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB2	25-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB2	25-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB2	25-Apr-23	Na-D	mg/L	0.05	<0.050
EB2	25-Apr-23	Na-T	mg/L	0.05	<0.050
EB2	25-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB2	25-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB2	25-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB2	25-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB2	25-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB2	25-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB2	25-Apr-23	S-D	mg/L	3	<3.0
EB2	25-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB2	25-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB2	25-Apr-23	Si-D	mg/L	0.1	<0.10
EB2	25-Apr-23	Si-T	mg/L	0.1	<0.10
EB2	25-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB2	25-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB2	25-Apr-23	SO4-D	mg/L	1	<1.0
EB2	25-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB2	25-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB2	25-Apr-23	S-T	mg/L	3	<3.0
EB2	25-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB2	25-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB2	25-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB2	25-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB2	25-Apr-23	Turb	NTU	0.1	0.52
EB2	25-Apr-23	U-D	mg/L	0.0001	<0.00010
EB2	25-Apr-23	U-T	mg/L	0.0001	<0.00010
EB2	25-Apr-23	V-D	mg/L	0.005	<0.0050
EB2	25-Apr-23	V-T	mg/L	0.005	<0.0050
EB2	25-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB2	25-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB2	25-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB2	25-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB2	12-Jul-23	Ag-D	mg/L	0.00002	<0.000020
EB2	12-Jul-23	Ag-T	mg/L	0.00002	<0.000020
EB2	12-Jul-23	Al-D	mg/L	0.003	<0.0030

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	12-Jul-23	Alk-PP	mg/L	1	<1.0
EB2	12-Jul-23	Alk-T	mg/L	1	<1.0
EB2	12-Jul-23	Al-T	mg/L	0.003	<0.0030
EB2	12-Jul-23	As-D	mg/L	0.0001	<0.00010
EB2	12-Jul-23	As-T	mg/L	0.0001	<0.00010
EB2	12-Jul-23	Ba-D	mg/L	0.001	<0.0010
EB2	12-Jul-23	Ba-T	mg/L	0.001	<0.0010
EB2	12-Jul-23	B-D	mg/L	0.05	<0.050
EB2	12-Jul-23	Be-D	mg/L	0.0001	<0.00010
EB2	12-Jul-23	Be-T	mg/L	0.0001	<0.00010
EB2	12-Jul-23	B-T	mg/L	0.05	<0.050
EB2	12-Jul-23	Ca-D	mg/L	0.05	<0.050
EB2	12-Jul-23	Ca-T	mg/L	0.05	<0.050
EB2	12-Jul-23	Cd-D	mg/L	0.00001	<0.000010
EB2	12-Jul-23	Cd-T	mg/L	0.00001	<0.000010
EB2	12-Jul-23	Co-D	mg/L	0.0002	<0.00020
EB2	12-Jul-23	Co-T	mg/L	0.0002	<0.00020
EB2	12-Jul-23	Cr-D	mg/L	0.001	<0.0010
EB2	12-Jul-23	Cr-T	mg/L	0.001	<0.0010
EB2	12-Jul-23	Cu-D	mg/L	0.0002	<0.00020
EB2	12-Jul-23	Cu-T	mg/L	0.0005	<0.00050
EB2	12-Jul-23	Fe-D	mg/L	0.005	<0.0050
EB2	12-Jul-23	Fe-T	mg/L	0.01	<0.010
EB2	12-Jul-23	Hard-D	mg/L	0.5	<0.50
EB2	12-Jul-23	Hard-T	mg/L	0.5	<0.50
EB2	12-Jul-23	K-D	mg/L	0.05	<0.050
EB2	12-Jul-23	K-T	mg/L	0.05	<0.050
EB2	12-Jul-23	Li-D	mg/L	0.002	<0.0020
EB2	12-Jul-23	Li-T	mg/L	0.002	<0.0020
EB2	12-Jul-23	Mg-D	mg/L	0.05	<0.050
EB2	12-Jul-23	Mg-T	mg/L	0.05	<0.050
EB2	12-Jul-23	Mn-D	mg/L	0.001	<0.0010
EB2	12-Jul-23	Mn-T	mg/L	0.001	<0.0010
EB2	12-Jul-23	Mo-D	mg/L	0.001	<0.0010
EB2	12-Jul-23	Mo-T	mg/L	0.001	<0.0010
EB2	12-Jul-23	Na-D	mg/L	0.05	<0.050
EB2	12-Jul-23	Na-T	mg/L	0.05	<0.050
EB2	12-Jul-23	Ni-D	mg/L	0.001	<0.0010
EB2	12-Jul-23	Ni-T	mg/L	0.001	<0.0010
EB2	12-Jul-23	Pb-D	mg/L	0.0002	<0.00020
EB2	12-Jul-23	Pb-T	mg/L	0.0002	<0.00020
EB2	12-Jul-23	Sb-D	mg/L	0.0005	<0.00050
EB2	12-Jul-23	Sb-T	mg/L	0.0005	<0.00050
EB2	12-Jul-23	S-D	mg/L	3	<3.0
EB2	12-Jul-23	Se-D	mg/L	0.0001	<0.00010
EB2	12-Jul-23	Se-T	mg/L	0.0001	<0.00010
EB2	12-Jul-23	Si-D	mg/L	0.1	<0.10
EB2	12-Jul-23	Si-T	mg/L	0.1	<0.10
EB2	12-Jul-23	Sn-D	mg/L	0.005	<0.0050
EB2	12-Jul-23	Sn-T	mg/L	0.005	<0.0050
EB2	12-Jul-23	SO4-D	mg/L	1	<1.0
EB2	12-Jul-23	Sr-D	mg/L	0.001	<0.0010
EB2	12-Jul-23	Sr-T	mg/L	0.001	<0.0010
EB2	12-Jul-23	S-T	mg/L	3	<3.0
EB2	12-Jul-23	Ti-D	mg/L	0.005	<0.0050

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	12-Jul-23	Ti-T	mg/L	0.005	<0.0050
EB2	12-Jul-23	Tl-D	mg/L	0.00001	<0.000010
EB2	12-Jul-23	Tl-T	mg/L	0.00001	<0.000010
EB2	12-Jul-23	Turb	NTU	0.1	0.11
EB2	12-Jul-23	U-D	mg/L	0.0001	<0.00010
EB2	12-Jul-23	U-T	mg/L	0.0001	<0.00010
EB2	12-Jul-23	V-D	mg/L	0.005	<0.0050
EB2	12-Jul-23	V-T	mg/L	0.005	<0.0050
EB2	12-Jul-23	Zn-D	mg/L	0.005	<0.0050
EB2	12-Jul-23	Zn-T	mg/L	0.005	<0.0050
EB2	12-Jul-23	Zr-D	mg/L	0.0001	<0.00010
EB2	12-Jul-23	Zr-T	mg/L	0.0001	<0.00010
EB2	18-Jul-23	Ag-D	mg/L	0.00002	<0.000020
EB2	18-Jul-23	Ag-T	mg/L	0.00002	<0.000020
EB2	18-Jul-23	Al-D	mg/L	0.003	<0.0030
EB2	18-Jul-23	Alk-PP	mg/L	1	<1.0
EB2	18-Jul-23	Alk-T	mg/L	1	<1.0
EB2	18-Jul-23	Al-T	mg/L	0.003	<0.0030
EB2	18-Jul-23	As-D	mg/L	0.0001	<0.00010
EB2	18-Jul-23	As-T	mg/L	0.0001	<0.00010
EB2	18-Jul-23	Ba-D	mg/L	0.001	<0.0010
EB2	18-Jul-23	Ba-T	mg/L	0.001	<0.0010
EB2	18-Jul-23	B-D	mg/L	0.05	<0.050
EB2	18-Jul-23	Be-D	mg/L	0.0001	<0.00010
EB2	18-Jul-23	Be-T	mg/L	0.0001	<0.00010
EB2	18-Jul-23	B-T	mg/L	0.05	<0.050
EB2	18-Jul-23	Ca-D	mg/L	0.05	<0.050
EB2	18-Jul-23	Ca-T	mg/L	0.05	<0.050
EB2	18-Jul-23	Cd-D	mg/L	0.00001	<0.000010
EB2	18-Jul-23	Cd-T	mg/L	0.00001	<0.000010
EB2	18-Jul-23	Cl-D	mg/L	1	<1.0
EB2	18-Jul-23	Co-D	mg/L	0.0002	<0.00020
EB2	18-Jul-23	Co-T	mg/L	0.0002	<0.00020
EB2	18-Jul-23	Cr-D	mg/L	0.001	<0.0010
EB2	18-Jul-23	Cr-T	mg/L	0.001	<0.0010
EB2	18-Jul-23	Cu-D	mg/L	0.0002	<0.00020
EB2	18-Jul-23	Cu-T	mg/L	0.0005	<0.00050
EB2	18-Jul-23	Fe-D	mg/L	0.005	<0.0050
EB2	18-Jul-23	Fe-T	mg/L	0.01	<0.010
EB2	18-Jul-23	Hard-D	mg/L	0.5	<0.50
EB2	18-Jul-23	Hard-T	mg/L	0.5	<0.50
EB2	18-Jul-23	K-D	mg/L	0.05	<0.050
EB2	18-Jul-23	K-T	mg/L	0.05	<0.050
EB2	18-Jul-23	Li-D	mg/L	0.002	<0.0020
EB2	18-Jul-23	Li-T	mg/L	0.002	<0.0020
EB2	18-Jul-23	Mg-D	mg/L	0.05	<0.050
EB2	18-Jul-23	Mg-T	mg/L	0.05	<0.050
EB2	18-Jul-23	Mn-D	mg/L	0.001	<0.0010
EB2	18-Jul-23	Mn-T	mg/L	0.001	<0.0010
EB2	18-Jul-23	Mo-D	mg/L	0.001	<0.0010
EB2	18-Jul-23	Mo-T	mg/L	0.001	<0.0010
EB2	18-Jul-23	Na-D	mg/L	0.05	<0.050
EB2	18-Jul-23	Na-T	mg/L	0.05	<0.050
EB2	18-Jul-23	Ni-D	mg/L	0.001	<0.0010
EB2	18-Jul-23	Ni-T	mg/L	0.001	<0.0010

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	18-Jul-23	Pb-D	mg/L	0.0002	<0.00020
EB2	18-Jul-23	Pb-T	mg/L	0.0002	<0.00020
EB2	18-Jul-23	Sb-D	mg/L	0.0005	<0.00050
EB2	18-Jul-23	Sb-T	mg/L	0.0005	<0.00050
EB2	18-Jul-23	S-D	mg/L	3	<3.0
EB2	18-Jul-23	Se-D	mg/L	0.0001	<0.00010
EB2	18-Jul-23	Se-T	mg/L	0.0001	<0.00010
EB2	18-Jul-23	Si-D	mg/L	0.1	<0.10
EB2	18-Jul-23	Si-T	mg/L	0.1	<0.10
EB2	18-Jul-23	Sn-D	mg/L	0.005	<0.0050
EB2	18-Jul-23	Sn-T	mg/L	0.005	<0.0050
EB2	18-Jul-23	SO4-D	mg/L	1	<1.0
EB2	18-Jul-23	Sr-D	mg/L	0.001	<0.0010
EB2	18-Jul-23	Sr-T	mg/L	0.001	<0.0010
EB2	18-Jul-23	S-T	mg/L	3	<3.0
EB2	18-Jul-23	Ti-D	mg/L	0.005	<0.0050
EB2	18-Jul-23	Ti-T	mg/L	0.005	<0.0050
EB2	18-Jul-23	Tl-D	mg/L	0.00001	<0.000010
EB2	18-Jul-23	Tl-T	mg/L	0.00001	<0.000010
EB2	18-Jul-23	Turb	NTU	0.1	0.13
EB2	18-Jul-23	U-D	mg/L	0.0001	<0.00010
EB2	18-Jul-23	U-T	mg/L	0.0001	<0.00010
EB2	18-Jul-23	V-D	mg/L	0.005	<0.0050
EB2	18-Jul-23	V-T	mg/L	0.005	<0.0050
EB2	18-Jul-23	Zn-D	mg/L	0.005	<0.0050
EB2	18-Jul-23	Zn-T	mg/L	0.005	<0.0050
EB2	18-Jul-23	Zr-D	mg/L	0.0001	<0.00010
EB2	18-Jul-23	Zr-T	mg/L	0.0001	<0.00010
EB2	26-Jul-23	Ag-D	mg/L	0.00002	<0.000020
EB2	26-Jul-23	Ag-T	mg/L	0.00002	<0.000020
EB2	26-Jul-23	Al-D	mg/L	0.003	<0.0030
EB2	26-Jul-23	Alk-PP	mg/L	1	<1.0
EB2	26-Jul-23	Alk-T	mg/L	1	<1.0
EB2	26-Jul-23	Al-T	mg/L	0.003	<0.0030
EB2	26-Jul-23	As-D	mg/L	0.0001	<0.00010
EB2	26-Jul-23	As-T	mg/L	0.0001	<0.00010
EB2	26-Jul-23	Ba-D	mg/L	0.001	<0.0010
EB2	26-Jul-23	Ba-T	mg/L	0.001	<0.0010
EB2	26-Jul-23	B-D	mg/L	0.05	<0.050
EB2	26-Jul-23	Be-D	mg/L	0.0001	<0.00010
EB2	26-Jul-23	Be-T	mg/L	0.0001	<0.00010
EB2	26-Jul-23	B-T	mg/L	0.05	<0.050
EB2	26-Jul-23	Ca-D	mg/L	0.05	<0.050
EB2	26-Jul-23	Ca-T	mg/L	0.05	<0.050
EB2	26-Jul-23	Cd-D	mg/L	0.00001	<0.000010
EB2	26-Jul-23	Cd-T	mg/L	0.00001	<0.000010
EB2	26-Jul-23	Cl-D	mg/L	1	<1.0
EB2	26-Jul-23	Co-D	mg/L	0.0002	<0.00020
EB2	26-Jul-23	Co-T	mg/L	0.0002	<0.00020
EB2	26-Jul-23	Cr-D	mg/L	0.001	<0.0010
EB2	26-Jul-23	Cr-T	mg/L	0.001	<0.0010
EB2	26-Jul-23	Cu-D	mg/L	0.0002	<0.00020
EB2	26-Jul-23	Cu-T	mg/L	0.0005	<0.00050
EB2	26-Jul-23	Fe-D	mg/L	0.005	<0.0050
EB2	26-Jul-23	Fe-T	mg/L	0.01	<0.010

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	26-Jul-23	Hard-D	mg/L	0.5	<0.50
EB2	26-Jul-23	Hard-T	mg/L	0.5	<0.50
EB2	26-Jul-23	K-D	mg/L	0.05	<0.050
EB2	26-Jul-23	K-T	mg/L	0.05	<0.050
EB2	26-Jul-23	Li-D	mg/L	0.002	<0.0020
EB2	26-Jul-23	Li-T	mg/L	0.002	<0.0020
EB2	26-Jul-23	Mg-D	mg/L	0.05	<0.050
EB2	26-Jul-23	Mg-T	mg/L	0.05	<0.050
EB2	26-Jul-23	Mn-D	mg/L	0.001	<0.0010
EB2	26-Jul-23	Mn-T	mg/L	0.001	<0.0010
EB2	26-Jul-23	Mo-D	mg/L	0.001	<0.0010
EB2	26-Jul-23	Mo-T	mg/L	0.001	<0.0010
EB2	26-Jul-23	Na-D	mg/L	0.05	0.050
EB2	26-Jul-23	Na-T	mg/L	0.05	<0.050
EB2	26-Jul-23	Ni-D	mg/L	0.001	<0.0010
EB2	26-Jul-23	Ni-T	mg/L	0.001	<0.0010
EB2	26-Jul-23	Pb-D	mg/L	0.0002	<0.00020
EB2	26-Jul-23	Pb-T	mg/L	0.0002	<0.00020
EB2	26-Jul-23	Sb-D	mg/L	0.0005	<0.00050
EB2	26-Jul-23	Sb-T	mg/L	0.0005	<0.00050
EB2	26-Jul-23	S-D	mg/L	3	<3.0
EB2	26-Jul-23	Se-D	mg/L	0.0001	<0.00010
EB2	26-Jul-23	Se-T	mg/L	0.0001	<0.00010
EB2	26-Jul-23	Si-D	mg/L	0.1	<0.10
EB2	26-Jul-23	Si-T	mg/L	0.1	<0.10
EB2	26-Jul-23	Sn-D	mg/L	0.005	<0.0050
EB2	26-Jul-23	Sn-T	mg/L	0.005	<0.0050
EB2	26-Jul-23	SO4-D	mg/L	1	<1.0
EB2	26-Jul-23	Sr-D	mg/L	0.001	<0.0010
EB2	26-Jul-23	Sr-T	mg/L	0.001	<0.0010
EB2	26-Jul-23	S-T	mg/L	3	<3.0
EB2	26-Jul-23	Ti-D	mg/L	0.005	<0.0050
EB2	26-Jul-23	Ti-T	mg/L	0.005	<0.0050
EB2	26-Jul-23	Tl-D	mg/L	0.00001	<0.000010
EB2	26-Jul-23	Tl-T	mg/L	0.00001	<0.000010
EB2	26-Jul-23	Turb	NTU	0.1	0.13
EB2	26-Jul-23	U-D	mg/L	0.0001	<0.00010
EB2	26-Jul-23	U-T	mg/L	0.0001	<0.00010
EB2	26-Jul-23	V-D	mg/L	0.005	<0.0050
EB2	26-Jul-23	V-T	mg/L	0.005	<0.0050
EB2	26-Jul-23	Zn-D	mg/L	0.005	<0.0050
EB2	26-Jul-23	Zn-T	mg/L	0.005	<0.0050
EB2	26-Jul-23	Zr-D	mg/L	0.0001	<0.00010
EB2	26-Jul-23	Zr-T	mg/L	0.0001	<0.00010
EB2	1-Aug-23	Ag-D	mg/L	0.00002	<0.000020
EB2	1-Aug-23	Ag-T	mg/L	0.00002	<0.000020
EB2	1-Aug-23	Al-D	mg/L	0.003	0.0041
EB2	1-Aug-23	Alk-PP	mg/L	1	<1.0
EB2	1-Aug-23	Alk-T	mg/L	1	<1.0
EB2	1-Aug-23	Al-T	mg/L	0.003	<0.0030
EB2	1-Aug-23	As-D	mg/L	0.0001	<0.00010
EB2	1-Aug-23	As-T	mg/L	0.0001	<0.00010
EB2	1-Aug-23	Ba-D	mg/L	0.001	<0.0010
EB2	1-Aug-23	Ba-T	mg/L	0.001	<0.0010
EB2	1-Aug-23	B-D	mg/L	0.05	<0.050

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	1-Aug-23	Be-D	mg/L	0.0001	<0.00010
EB2	1-Aug-23	Be-T	mg/L	0.0001	<0.00010
EB2	1-Aug-23	B-T	mg/L	0.05	<0.050
EB2	1-Aug-23	Ca-D	mg/L	0.05	<0.050
EB2	1-Aug-23	Ca-T	mg/L	0.05	<0.050
EB2	1-Aug-23	Cd-D	mg/L	0.00001	<0.000010
EB2	1-Aug-23	Cd-T	mg/L	0.00001	<0.000010
EB2	1-Aug-23	Cl-D	mg/L	1	<1.0
EB2	1-Aug-23	Co-D	mg/L	0.0002	<0.00020
EB2	1-Aug-23	Co-T	mg/L	0.0002	<0.00020
EB2	1-Aug-23	Cr-D	mg/L	0.001	<0.0010
EB2	1-Aug-23	Cr-T	mg/L	0.001	<0.0010
EB2	1-Aug-23	Cu-D	mg/L	0.0002	<0.00020
EB2	1-Aug-23	Cu-T	mg/L	0.0005	<0.00050
EB2	1-Aug-23	Fe-D	mg/L	0.005	<0.0050
EB2	1-Aug-23	Fe-T	mg/L	0.01	<0.010
EB2	1-Aug-23	Hard-D	mg/L	0.5	<0.50
EB2	1-Aug-23	Hard-T	mg/L	0.5	<0.50
EB2	1-Aug-23	K-D	mg/L	0.05	<0.050
EB2	1-Aug-23	K-T	mg/L	0.05	<0.050
EB2	1-Aug-23	Li-D	mg/L	0.002	<0.0020
EB2	1-Aug-23	Li-T	mg/L	0.002	<0.0020
EB2	1-Aug-23	Mg-D	mg/L	0.05	<0.050
EB2	1-Aug-23	Mg-T	mg/L	0.05	<0.050
EB2	1-Aug-23	Mn-D	mg/L	0.001	<0.0010
EB2	1-Aug-23	Mn-T	mg/L	0.001	<0.0010
EB2	1-Aug-23	Mo-D	mg/L	0.001	<0.0010
EB2	1-Aug-23	Mo-T	mg/L	0.001	<0.0010
EB2	1-Aug-23	Na-D	mg/L	0.05	<0.050
EB2	1-Aug-23	Na-T	mg/L	0.05	<0.050
EB2	1-Aug-23	Ni-D	mg/L	0.001	<0.0010
EB2	1-Aug-23	Ni-T	mg/L	0.001	<0.0010
EB2	1-Aug-23	Pb-D	mg/L	0.0002	<0.00020
EB2	1-Aug-23	Pb-T	mg/L	0.0002	<0.00020
EB2	1-Aug-23	Sb-D	mg/L	0.0005	<0.00050
EB2	1-Aug-23	Sb-T	mg/L	0.0005	<0.00050
EB2	1-Aug-23	S-D	mg/L	3	<3.0
EB2	1-Aug-23	Se-D	mg/L	0.0001	<0.00010
EB2	1-Aug-23	Se-T	mg/L	0.0001	<0.00010
EB2	1-Aug-23	Si-D	mg/L	0.1	<0.10
EB2	1-Aug-23	Si-T	mg/L	0.1	<0.10
EB2	1-Aug-23	Sn-D	mg/L	0.005	<0.0050
EB2	1-Aug-23	Sn-T	mg/L	0.005	<0.0050
EB2	1-Aug-23	SO4-D	mg/L	1	<1.0
EB2	1-Aug-23	Sr-D	mg/L	0.001	<0.0010
EB2	1-Aug-23	Sr-T	mg/L	0.001	<0.0010
EB2	1-Aug-23	S-T	mg/L	3	<3.0
EB2	1-Aug-23	Ti-D	mg/L	0.005	<0.0050
EB2	1-Aug-23	Ti-T	mg/L	0.005	<0.0050
EB2	1-Aug-23	Tl-D	mg/L	0.00001	<0.000010
EB2	1-Aug-23	Tl-T	mg/L	0.00001	<0.000010
EB2	1-Aug-23	Turb	NTU	0.1	<0.10
EB2	1-Aug-23	U-D	mg/L	0.0001	<0.00010
EB2	1-Aug-23	U-T	mg/L	0.0001	<0.00010
EB2	1-Aug-23	V-D	mg/L	0.005	<0.0050

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	1-Aug-23	V-T	mg/L	0.005	<0.0050
EB2	1-Aug-23	Zn-D	mg/L	0.005	<0.0050
EB2	1-Aug-23	Zn-T	mg/L	0.005	<0.0050
EB2	1-Aug-23	Zr-D	mg/L	0.0001	<0.00010
EB2	1-Aug-23	Zr-T	mg/L	0.0001	<0.00010
EB2	9-Aug-23	Ag-D	mg/L	0.00002	<0.000020
EB2	9-Aug-23	Ag-T	mg/L	0.00002	<0.000020
EB2	9-Aug-23	Al-D	mg/L	0.003	<0.0030
EB2	9-Aug-23	Alk-PP	mg/L	1	<1.0
EB2	9-Aug-23	Alk-T	mg/L	1	<1.0
EB2	9-Aug-23	Al-T	mg/L	0.003	<0.0030
EB2	9-Aug-23	As-D	mg/L	0.0001	<0.00010
EB2	9-Aug-23	As-T	mg/L	0.0001	<0.00010
EB2	9-Aug-23	Ba-D	mg/L	0.001	<0.0010
EB2	9-Aug-23	Ba-T	mg/L	0.001	<0.0010
EB2	9-Aug-23	B-D	mg/L	0.05	<0.050
EB2	9-Aug-23	Be-D	mg/L	0.0001	<0.00010
EB2	9-Aug-23	Be-T	mg/L	0.0001	<0.00010
EB2	9-Aug-23	B-T	mg/L	0.05	<0.050
EB2	9-Aug-23	Ca-D	mg/L	0.05	<0.050
EB2	9-Aug-23	Ca-T	mg/L	0.05	<0.050
EB2	9-Aug-23	Cd-D	mg/L	0.00001	<0.000010
EB2	9-Aug-23	Cd-T	mg/L	0.00001	<0.000010
EB2	9-Aug-23	Cl-D	mg/L	1	<1.0
EB2	9-Aug-23	Co-D	mg/L	0.0002	<0.00020
EB2	9-Aug-23	Co-T	mg/L	0.0002	<0.00020
EB2	9-Aug-23	Cr-D	mg/L	0.001	<0.0010
EB2	9-Aug-23	Cr-T	mg/L	0.001	<0.0010
EB2	9-Aug-23	Cu-D	mg/L	0.0002	<0.00020
EB2	9-Aug-23	Cu-T	mg/L	0.0005	<0.00050
EB2	9-Aug-23	Fe-D	mg/L	0.005	<0.0050
EB2	9-Aug-23	Fe-T	mg/L	0.01	<0.010
EB2	9-Aug-23	Hard-D	mg/L	0.5	<0.50
EB2	9-Aug-23	Hard-T	mg/L	0.5	<0.50
EB2	9-Aug-23	K-D	mg/L	0.05	<0.050
EB2	9-Aug-23	K-T	mg/L	0.05	<0.050
EB2	9-Aug-23	Li-D	mg/L	0.002	<0.0020
EB2	9-Aug-23	Li-T	mg/L	0.002	<0.0020
EB2	9-Aug-23	Mg-D	mg/L	0.05	<0.050
EB2	9-Aug-23	Mg-T	mg/L	0.05	<0.050
EB2	9-Aug-23	Mn-D	mg/L	0.001	<0.0010
EB2	9-Aug-23	Mn-T	mg/L	0.001	<0.0010
EB2	9-Aug-23	Mo-D	mg/L	0.001	<0.0010
EB2	9-Aug-23	Mo-T	mg/L	0.001	<0.0010
EB2	9-Aug-23	Na-D	mg/L	0.05	<0.050
EB2	9-Aug-23	Na-T	mg/L	0.05	<0.050
EB2	9-Aug-23	Ni-D	mg/L	0.001	<0.0010
EB2	9-Aug-23	Ni-T	mg/L	0.001	<0.0010
EB2	9-Aug-23	Pb-D	mg/L	0.0002	<0.00020
EB2	9-Aug-23	Pb-T	mg/L	0.0002	<0.00020
EB2	9-Aug-23	Sb-D	mg/L	0.0005	<0.00050
EB2	9-Aug-23	Sb-T	mg/L	0.0005	<0.00050
EB2	9-Aug-23	S-D	mg/L	3	<3.0
EB2	9-Aug-23	Se-D	mg/L	0.0001	<0.00010
EB2	9-Aug-23	Se-T	mg/L	0.0001	<0.00010

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	9-Aug-23	Si-D	mg/L	0.1	<0.10
EB2	9-Aug-23	Si-T	mg/L	0.1	<0.10
EB2	9-Aug-23	Sn-D	mg/L	0.005	<0.0050
EB2	9-Aug-23	Sn-T	mg/L	0.005	<0.0050
EB2	9-Aug-23	SO4-D	mg/L	1	<1.0
EB2	9-Aug-23	Sr-D	mg/L	0.001	<0.0010
EB2	9-Aug-23	Sr-T	mg/L	0.001	<0.0010
EB2	9-Aug-23	S-T	mg/L	3	<3.0
EB2	9-Aug-23	Ti-D	mg/L	0.005	<0.0050
EB2	9-Aug-23	Ti-T	mg/L	0.005	<0.0050
EB2	9-Aug-23	Tl-D	mg/L	0.00001	<0.000010
EB2	9-Aug-23	Tl-T	mg/L	0.00001	<0.000010
EB2	9-Aug-23	Turb	NTU	0.1	0.12
EB2	9-Aug-23	U-D	mg/L	0.0001	<0.00010
EB2	9-Aug-23	U-T	mg/L	0.0001	<0.00010
EB2	9-Aug-23	V-D	mg/L	0.005	<0.0050
EB2	9-Aug-23	V-T	mg/L	0.005	<0.0050
EB2	9-Aug-23	Zn-D	mg/L	0.005	<0.0050
EB2	9-Aug-23	Zn-T	mg/L	0.005	<0.0050
EB2	9-Aug-23	Zr-D	mg/L	0.0001	<0.00010
EB2	9-Aug-23	Zr-T	mg/L	0.0001	<0.00010
EB2	4-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB2	4-Oct-23	Al-T	mg/L	0.003	<0.0030
EB2	4-Oct-23	As-T	mg/L	0.0001	<0.00010
EB2	4-Oct-23	Ba-T	mg/L	0.001	<0.0010
EB2	4-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB2	4-Oct-23	B-T	mg/L	0.05	<0.050
EB2	4-Oct-23	Ca-T	mg/L	0.05	<0.050
EB2	4-Oct-23	Cd-T	mg/L	0.00001	<0.000010
EB2	4-Oct-23	Cl-D	mg/L	1	<1.0
EB2	4-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB2	4-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB2	4-Oct-23	Cu-T	mg/L	0.0005	<0.00050
EB2	4-Oct-23	Fe-T	mg/L	0.01	0.053
EB2	4-Oct-23	Hard-T	mg/L	0.5	<0.50
EB2	4-Oct-23	K-T	mg/L	0.05	<0.050
EB2	4-Oct-23	Li-T	mg/L	0.002	<0.0020
EB2	4-Oct-23	Mg-T	mg/L	0.05	<0.050
EB2	4-Oct-23	Mn-T	mg/L	0.001	<0.0010
EB2	4-Oct-23	Mo-T	mg/L	0.001	<0.0010
EB2	4-Oct-23	Na-T	mg/L	0.05	<0.050
EB2	4-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB2	4-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB2	4-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB2	4-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB2	4-Oct-23	Si-T	mg/L	0.1	<0.10
EB2	4-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB2	4-Oct-23	SO4-D	mg/L	1	<1.0
EB2	4-Oct-23	Sr-T	mg/L	0.001	<0.0010
EB2	4-Oct-23	S-T	mg/L	3	<3.0
EB2	4-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB2	4-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB2	4-Oct-23	U-T	mg/L	0.0001	<0.00010
EB2	4-Oct-23	V-T	mg/L	0.005	<0.0050
EB2	4-Oct-23	Zn-T	mg/L	0.005	<0.0050

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	4-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB2	11-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB2	11-Oct-23	Al-T	mg/L	0.003	0.0036
EB2	11-Oct-23	As-T	mg/L	0.0001	<0.00010
EB2	11-Oct-23	Ba-T	mg/L	0.001	<0.0010
EB2	11-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB2	11-Oct-23	B-T	mg/L	0.05	<0.050
EB2	11-Oct-23	Ca-T	mg/L	0.05	0.169
EB2	11-Oct-23	Cd-T	mg/L	0.00001	0.000045
EB2	11-Oct-23	Cl-D	mg/L	1	20
EB2	11-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB2	11-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB2	11-Oct-23	Cu-T	mg/L	0.0005	<0.00050
EB2	11-Oct-23	Fe-T	mg/L	0.01	0.012
EB2	11-Oct-23	Hard-T	mg/L	0.5	0.66
EB2	11-Oct-23	K-T	mg/L	0.05	<0.050
EB2	11-Oct-23	Li-T	mg/L	0.002	<0.0020
EB2	11-Oct-23	Mg-T	mg/L	0.05	0.058
EB2	11-Oct-23	Mn-T	mg/L	0.001	0.0013
EB2	11-Oct-23	Mo-T	mg/L	0.001	<0.0010
EB2	11-Oct-23	Na-T	mg/L	0.05	0.211
EB2	11-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB2	11-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB2	11-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB2	11-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB2	11-Oct-23	Si-T	mg/L	0.1	<0.10
EB2	11-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB2	11-Oct-23	SO4-D	mg/L	1	28
EB2	11-Oct-23	Sr-T	mg/L	0.001	0.0010
EB2	11-Oct-23	S-T	mg/L	3	<3.0
EB2	11-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB2	11-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB2	11-Oct-23	U-T	mg/L	0.0001	<0.00010
EB2	11-Oct-23	V-T	mg/L	0.005	<0.0050
EB2	11-Oct-23	Zn-T	mg/L	0.005	<0.0050
EB2	11-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB2	17-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB2	17-Oct-23	Al-T	mg/L	0.003	<0.0030
EB2	17-Oct-23	As-T	mg/L	0.0001	<0.00010
EB2	17-Oct-23	Ba-T	mg/L	0.001	<0.0010
EB2	17-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB2	17-Oct-23	B-T	mg/L	0.05	<0.050
EB2	17-Oct-23	Ca-T	mg/L	0.05	<0.050
EB2	17-Oct-23	Cd-T	mg/L	0.00001	<0.000010
EB2	17-Oct-23	Cl-D	mg/L	1	<1.0
EB2	17-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB2	17-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB2	17-Oct-23	Cu-T	mg/L	0.0005	<0.00050
EB2	17-Oct-23	Fe-T	mg/L	0.01	<0.010
EB2	17-Oct-23	Hard-T	mg/L	0.5	<0.50
EB2	17-Oct-23	K-T	mg/L	0.05	<0.050
EB2	17-Oct-23	Li-T	mg/L	0.002	<0.0020
EB2	17-Oct-23	Mg-T	mg/L	0.05	<0.050
EB2	17-Oct-23	Mn-T	mg/L	0.001	<0.0010
EB2	17-Oct-23	Mo-T	mg/L	0.001	<0.0010

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	17-Oct-23	Na-T	mg/L	0.05	<0.050
EB2	17-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB2	17-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB2	17-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB2	17-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB2	17-Oct-23	Si-T	mg/L	0.1	<0.10
EB2	17-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB2	17-Oct-23	SO4-D	mg/L	1	<1.0
EB2	17-Oct-23	Sr-T	mg/L	0.001	<0.0010
EB2	17-Oct-23	S-T	mg/L	3	<3.0
EB2	17-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB2	17-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB2	17-Oct-23	U-T	mg/L	0.0001	<0.00010
EB2	17-Oct-23	V-T	mg/L	0.005	<0.0050
EB2	17-Oct-23	Zn-T	mg/L	0.005	<0.0050
EB2	17-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB2	23-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB2	23-Oct-23	Al-T	mg/L	0.003	<0.0030
EB2	23-Oct-23	As-T	mg/L	0.0001	<0.00010
EB2	23-Oct-23	Ba-T	mg/L	0.001	<0.0010
EB2	23-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB2	23-Oct-23	B-T	mg/L	0.05	<0.050
EB2	23-Oct-23	Ca-T	mg/L	0.05	<0.050
EB2	23-Oct-23	Cd-T	mg/L	0.00001	<0.000010
EB2	23-Oct-23	Cl-D	mg/L	1	<1.0
EB2	23-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB2	23-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB2	23-Oct-23	Cu-T	mg/L	0.0005	<0.00050
EB2	23-Oct-23	Fe-T	mg/L	0.01	<0.010
EB2	23-Oct-23	Hard-T	mg/L	0.5	<0.50
EB2	23-Oct-23	K-T	mg/L	0.05	<0.050
EB2	23-Oct-23	Li-T	mg/L	0.002	<0.0020
EB2	23-Oct-23	Mg-T	mg/L	0.05	<0.050
EB2	23-Oct-23	Mn-T	mg/L	0.001	<0.0010
EB2	23-Oct-23	Mo-T	mg/L	0.001	<0.0010
EB2	23-Oct-23	Na-T	mg/L	0.05	<0.050
EB2	23-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB2	23-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB2	23-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB2	23-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB2	23-Oct-23	Si-T	mg/L	0.1	<0.10
EB2	23-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB2	23-Oct-23	SO4-D	mg/L	1	<1.0
EB2	23-Oct-23	Sr-T	mg/L	0.001	<0.0010
EB2	23-Oct-23	S-T	mg/L	3	<3.0
EB2	23-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB2	23-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB2	23-Oct-23	U-T	mg/L	0.0001	<0.00010
EB2	23-Oct-23	V-T	mg/L	0.005	<0.0050
EB2	23-Oct-23	Zn-T	mg/L	0.005	<0.0050
EB2	23-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB2	30-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB2	30-Oct-23	Al-T	mg/L	0.003	<0.0030
EB2	30-Oct-23	As-T	mg/L	0.0001	<0.00010
EB2	30-Oct-23	Ba-T	mg/L	0.001	<0.0010

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB2	30-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB2	30-Oct-23	B-T	mg/L	0.05	<0.050
EB2	30-Oct-23	Ca-T	mg/L	0.05	<0.050
EB2	30-Oct-23	Cd-T	mg/L	0.00001	<0.000010
EB2	30-Oct-23	Cl-D	mg/L	1	<1.0
EB2	30-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB2	30-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB2	30-Oct-23	Cu-T	mg/L	0.0005	<0.00050
EB2	30-Oct-23	Fe-T	mg/L	0.01	<0.010
EB2	30-Oct-23	Hard-T	mg/L	0.5	<0.50
EB2	30-Oct-23	K-T	mg/L	0.05	<0.050
EB2	30-Oct-23	Li-T	mg/L	0.002	<0.0020
EB2	30-Oct-23	Mg-T	mg/L	0.05	<0.050
EB2	30-Oct-23	Mn-T	mg/L	0.001	<0.0010
EB2	30-Oct-23	Mo-T	mg/L	0.001	<0.0010
EB2	30-Oct-23	Na-T	mg/L	0.05	<0.050
EB2	30-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB2	30-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB2	30-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB2	30-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB2	30-Oct-23	Si-T	mg/L	0.1	<0.10
EB2	30-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB2	30-Oct-23	SO4-D	mg/L	1	<1.0
EB2	30-Oct-23	Sr-T	mg/L	0.001	<0.0010
EB2	30-Oct-23	S-T	mg/L	3	<3.0
EB2	30-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB2	30-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB2	30-Oct-23	U-T	mg/L	0.0001	<0.00010
EB2	30-Oct-23	V-T	mg/L	0.005	<0.0050
EB2	30-Oct-23	Zn-T	mg/L	0.005	<0.0050
EB2	30-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB3	12-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB3	12-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB3	12-Apr-23	Al-D	mg/L	0.003	<0.0030
EB3	12-Apr-23	Alk-PP	mg/L	1	<1.0
EB3	12-Apr-23	Alk-T	mg/L	1	<1.0
EB3	12-Apr-23	Al-T	mg/L	0.003	<0.0030
EB3	12-Apr-23	As-D	mg/L	0.0001	<0.00010
EB3	12-Apr-23	As-T	mg/L	0.0001	<0.00010
EB3	12-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB3	12-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB3	12-Apr-23	B-D	mg/L	0.05	<0.050
EB3	12-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB3	12-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB3	12-Apr-23	B-T	mg/L	0.05	<0.050
EB3	12-Apr-23	Ca-D	mg/L	0.05	<0.050
EB3	12-Apr-23	Ca-T	mg/L	0.05	0.077
EB3	12-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB3	12-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB3	12-Apr-23	Cl-D	mg/L	1	<1.0
EB3	12-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB3	12-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB3	12-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB3	12-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB3	12-Apr-23	Cu-D	mg/L	0.0002	<0.00020

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	12-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB3	12-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB3	12-Apr-23	Fe-T	mg/L	0.01	<0.010
EB3	12-Apr-23	Hard-D	mg/L	0.5	<0.50
EB3	12-Apr-23	Hard-T	mg/L	0.5	<0.50
EB3	12-Apr-23	K-D	mg/L	0.05	<0.050
EB3	12-Apr-23	K-T	mg/L	0.05	<0.050
EB3	12-Apr-23	Li-D	mg/L	0.002	<0.0020
EB3	12-Apr-23	Li-T	mg/L	0.002	<0.0020
EB3	12-Apr-23	Mg-D	mg/L	0.05	<0.050
EB3	12-Apr-23	Mg-T	mg/L	0.05	<0.050
EB3	12-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB3	12-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB3	12-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB3	12-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB3	12-Apr-23	Na-D	mg/L	0.05	<0.050
EB3	12-Apr-23	Na-T	mg/L	0.05	<0.050
EB3	12-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB3	12-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB3	12-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB3	12-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB3	12-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB3	12-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB3	12-Apr-23	S-D	mg/L	3	<3.0
EB3	12-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB3	12-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB3	12-Apr-23	Si-D	mg/L	0.1	<0.10
EB3	12-Apr-23	Si-T	mg/L	0.1	<0.10
EB3	12-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB3	12-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB3	12-Apr-23	SO4-D	mg/L	1	<1.0
EB3	12-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB3	12-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB3	12-Apr-23	S-T	mg/L	3	<3.0
EB3	12-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB3	12-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB3	12-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB3	12-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB3	12-Apr-23	Turb	NTU	0.1	0.14
EB3	12-Apr-23	U-D	mg/L	0.0001	<0.00010
EB3	12-Apr-23	U-T	mg/L	0.0001	<0.00010
EB3	12-Apr-23	V-D	mg/L	0.005	<0.0050
EB3	12-Apr-23	V-T	mg/L	0.005	<0.0050
EB3	12-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB3	12-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB3	12-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB3	12-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB3	19-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB3	19-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB3	19-Apr-23	Al-D	mg/L	0.003	<0.0030
EB3	19-Apr-23	Alk-PP	mg/L	1	<1.0
EB3	19-Apr-23	Alk-T	mg/L	1	<1.0
EB3	19-Apr-23	Al-T	mg/L	0.003	<0.0030
EB3	19-Apr-23	As-D	mg/L	0.0001	<0.00010
EB3	19-Apr-23	As-T	mg/L	0.0001	<0.00010

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	19-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB3	19-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB3	19-Apr-23	B-D	mg/L	0.05	<0.050
EB3	19-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB3	19-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB3	19-Apr-23	B-T	mg/L	0.05	<0.050
EB3	19-Apr-23	Ca-D	mg/L	0.05	<0.050
EB3	19-Apr-23	Ca-T	mg/L	0.05	<0.050
EB3	19-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB3	19-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB3	19-Apr-23	Cl-D	mg/L	1	<1.0
EB3	19-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB3	19-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB3	19-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB3	19-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB3	19-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB3	19-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB3	19-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB3	19-Apr-23	Fe-T	mg/L	0.01	<0.010
EB3	19-Apr-23	Hard-D	mg/L	0.5	<0.50
EB3	19-Apr-23	Hard-T	mg/L	0.5	<0.50
EB3	19-Apr-23	K-D	mg/L	0.05	<0.050
EB3	19-Apr-23	K-T	mg/L	0.05	<0.050
EB3	19-Apr-23	Li-D	mg/L	0.002	<0.0020
EB3	19-Apr-23	Li-T	mg/L	0.002	<0.0020
EB3	19-Apr-23	Mg-D	mg/L	0.05	<0.050
EB3	19-Apr-23	Mg-T	mg/L	0.05	<0.050
EB3	19-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB3	19-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB3	19-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB3	19-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB3	19-Apr-23	Na-D	mg/L	0.05	<0.050
EB3	19-Apr-23	Na-T	mg/L	0.05	<0.050
EB3	19-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB3	19-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB3	19-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB3	19-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB3	19-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB3	19-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB3	19-Apr-23	S-D	mg/L	3	<3.0
EB3	19-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB3	19-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB3	19-Apr-23	Si-D	mg/L	0.1	<0.10
EB3	19-Apr-23	Si-T	mg/L	0.1	<0.10
EB3	19-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB3	19-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB3	19-Apr-23	SO4-D	mg/L	1	<1.0
EB3	19-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB3	19-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB3	19-Apr-23	S-T	mg/L	3	<3.0
EB3	19-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB3	19-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB3	19-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB3	19-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB3	19-Apr-23	Turb	NTU	0.1	0.15

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	19-Apr-23	U-D	mg/L	0.0001	<0.00010
EB3	19-Apr-23	U-T	mg/L	0.0001	<0.00010
EB3	19-Apr-23	V-D	mg/L	0.005	<0.0050
EB3	19-Apr-23	V-T	mg/L	0.005	<0.0050
EB3	19-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB3	19-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB3	19-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB3	19-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB3	25-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB3	25-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB3	25-Apr-23	Al-D	mg/L	0.003	<0.0030
EB3	25-Apr-23	Alk-PP	mg/L	1	<1.0
EB3	25-Apr-23	Alk-T	mg/L	1	<1.0
EB3	25-Apr-23	Al-T	mg/L	0.003	<0.0030
EB3	25-Apr-23	As-D	mg/L	0.0001	<0.00010
EB3	25-Apr-23	As-T	mg/L	0.0001	<0.00010
EB3	25-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB3	25-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB3	25-Apr-23	B-D	mg/L	0.05	<0.050
EB3	25-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB3	25-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB3	25-Apr-23	B-T	mg/L	0.05	<0.050
EB3	25-Apr-23	Ca-D	mg/L	0.05	<0.050
EB3	25-Apr-23	Ca-T	mg/L	0.05	<0.050
EB3	25-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB3	25-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB3	25-Apr-23	Cl-D	mg/L	1	<1.0
EB3	25-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB3	25-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB3	25-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB3	25-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB3	25-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB3	25-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB3	25-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB3	25-Apr-23	Fe-T	mg/L	0.01	<0.010
EB3	25-Apr-23	Hard-D	mg/L	0.5	<0.50
EB3	25-Apr-23	Hard-T	mg/L	0.5	<0.50
EB3	25-Apr-23	K-D	mg/L	0.05	<0.050
EB3	25-Apr-23	K-T	mg/L	0.05	<0.050
EB3	25-Apr-23	Li-D	mg/L	0.002	<0.0020
EB3	25-Apr-23	Li-T	mg/L	0.002	<0.0020
EB3	25-Apr-23	Mg-D	mg/L	0.05	<0.050
EB3	25-Apr-23	Mg-T	mg/L	0.05	<0.050
EB3	25-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB3	25-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB3	25-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB3	25-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB3	25-Apr-23	Na-D	mg/L	0.05	<0.050
EB3	25-Apr-23	Na-T	mg/L	0.05	<0.050
EB3	25-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB3	25-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB3	25-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB3	25-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB3	25-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB3	25-Apr-23	Sb-T	mg/L	0.0005	<0.00050

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	25-Apr-23	S-D	mg/L	3	<3.0
EB3	25-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB3	25-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB3	25-Apr-23	Si-D	mg/L	0.1	<0.10
EB3	25-Apr-23	Si-T	mg/L	0.1	<0.10
EB3	25-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB3	25-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB3	25-Apr-23	SO4-D	mg/L	1	<1.0
EB3	25-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB3	25-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB3	25-Apr-23	S-T	mg/L	3	<3.0
EB3	25-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB3	25-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB3	25-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB3	25-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB3	25-Apr-23	Turb	NTU	0.1	<0.10
EB3	25-Apr-23	U-D	mg/L	0.0001	<0.00010
EB3	25-Apr-23	U-T	mg/L	0.0001	<0.00010
EB3	25-Apr-23	V-D	mg/L	0.005	<0.0050
EB3	25-Apr-23	V-T	mg/L	0.005	<0.0050
EB3	25-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB3	25-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB3	25-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB3	25-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB3	2-May-23	Ag-D	mg/L	0.00002	<0.000020
EB3	2-May-23	Ag-T	mg/L	0.00002	<0.000020
EB3	2-May-23	Al-D	mg/L	0.003	<0.0030
EB3	2-May-23	Alk-PP	mg/L	1	<1.0
EB3	2-May-23	Alk-T	mg/L	1	<1.0
EB3	2-May-23	Al-T	mg/L	0.003	<0.0030
EB3	2-May-23	As-D	mg/L	0.0001	<0.00010
EB3	2-May-23	As-T	mg/L	0.0001	<0.00010
EB3	2-May-23	Ba-D	mg/L	0.001	<0.0010
EB3	2-May-23	Ba-T	mg/L	0.001	<0.0010
EB3	2-May-23	B-D	mg/L	0.05	<0.050
EB3	2-May-23	Be-D	mg/L	0.0001	<0.00010
EB3	2-May-23	Be-T	mg/L	0.0001	<0.00010
EB3	2-May-23	B-T	mg/L	0.05	<0.050
EB3	2-May-23	Ca-D	mg/L	0.05	<0.050
EB3	2-May-23	Ca-T	mg/L	0.05	<0.050
EB3	2-May-23	Cd-D	mg/L	0.00001	<0.000010
EB3	2-May-23	Cd-T	mg/L	0.00001	0.000018
EB3	2-May-23	Cl-D	mg/L	1	<1.0
EB3	2-May-23	Co-D	mg/L	0.0002	<0.00020
EB3	2-May-23	Co-T	mg/L	0.0002	<0.00020
EB3	2-May-23	Cr-D	mg/L	0.001	<0.0010
EB3	2-May-23	Cr-T	mg/L	0.001	0.0063
EB3	2-May-23	Cu-D	mg/L	0.0002	<0.00020
EB3	2-May-23	Cu-T	mg/L	0.0005	<0.00050
EB3	2-May-23	Fe-D	mg/L	0.005	<0.0050
EB3	2-May-23	Fe-T	mg/L	0.01	<0.010
EB3	2-May-23	Hard-D	mg/L	0.5	<0.50
EB3	2-May-23	Hard-T	mg/L	0.5	<0.50
EB3	2-May-23	K-D	mg/L	0.05	<0.050
EB3	2-May-23	K-T	mg/L	0.05	<0.050

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	2-May-23	Li-D	mg/L	0.002	<0.0020
EB3	2-May-23	Li-T	mg/L	0.002	<0.0020
EB3	2-May-23	Mg-D	mg/L	0.05	<0.050
EB3	2-May-23	Mg-T	mg/L	0.05	<0.050
EB3	2-May-23	Mn-D	mg/L	0.001	<0.0010
EB3	2-May-23	Mn-T	mg/L	0.001	<0.0010
EB3	2-May-23	Mo-D	mg/L	0.001	<0.0010
EB3	2-May-23	Mo-T	mg/L	0.001	0.0060
EB3	2-May-23	Na-D	mg/L	0.05	0.051
EB3	2-May-23	Na-T	mg/L	0.05	<0.050
EB3	2-May-23	Ni-D	mg/L	0.001	<0.0010
EB3	2-May-23	Ni-T	mg/L	0.001	0.0263
EB3	2-May-23	N-NO23	mg/L	0.02	<0.020
EB3	2-May-23	Pb-D	mg/L	0.0002	<0.00020
EB3	2-May-23	Pb-T	mg/L	0.0002	<0.00020
EB3	2-May-23	Sb-D	mg/L	0.0005	<0.00050
EB3	2-May-23	Sb-T	mg/L	0.0005	<0.00050
EB3	2-May-23	S-D	mg/L	3	<3.0
EB3	2-May-23	Se-D	mg/L	0.0001	<0.00010
EB3	2-May-23	Se-T	mg/L	0.0001	<0.00010
EB3	2-May-23	Si-D	mg/L	0.1	<0.10
EB3	2-May-23	Si-T	mg/L	0.1	<0.10
EB3	2-May-23	Sn-D	mg/L	0.005	<0.0050
EB3	2-May-23	Sn-T	mg/L	0.005	<0.0050
EB3	2-May-23	SO4-D	mg/L	1	<1.0
EB3	2-May-23	Sr-D	mg/L	0.001	<0.0010
EB3	2-May-23	Sr-T	mg/L	0.001	<0.0010
EB3	2-May-23	S-T	mg/L	3	<3.0
EB3	2-May-23	Ti-D	mg/L	0.005	<0.0050
EB3	2-May-23	Ti-T	mg/L	0.005	<0.0050
EB3	2-May-23	Tl-D	mg/L	0.00001	<0.000010
EB3	2-May-23	Tl-T	mg/L	0.00001	<0.000010
EB3	2-May-23	Turb	NTU	0.1	<0.10
EB3	2-May-23	U-D	mg/L	0.0001	<0.00010
EB3	2-May-23	U-T	mg/L	0.0001	<0.00010
EB3	2-May-23	V-D	mg/L	0.005	<0.0050
EB3	2-May-23	V-T	mg/L	0.005	<0.0050
EB3	2-May-23	Zn-D	mg/L	0.005	<0.0050
EB3	2-May-23	Zn-T	mg/L	0.005	<0.0050
EB3	2-May-23	Zr-D	mg/L	0.0001	<0.00010
EB3	2-May-23	Zr-T	mg/L	0.0001	<0.00010
EB3	9-May-23	Ag-D	mg/L	0.00002	<0.000020
EB3	9-May-23	Ag-T	mg/L	0.00002	<0.000020
EB3	9-May-23	Al-D	mg/L	0.003	<0.0030
EB3	9-May-23	Alk-PP	mg/L	1	<1.0
EB3	9-May-23	Alk-T	mg/L	1	<1.0
EB3	9-May-23	Al-T	mg/L	0.003	<0.0030
EB3	9-May-23	As-D	mg/L	0.0001	<0.00010
EB3	9-May-23	As-T	mg/L	0.0001	<0.00010
EB3	9-May-23	Ba-D	mg/L	0.001	<0.0010
EB3	9-May-23	Ba-T	mg/L	0.001	<0.0010
EB3	9-May-23	B-D	mg/L	0.05	<0.050
EB3	9-May-23	Be-D	mg/L	0.0001	<0.00010
EB3	9-May-23	Be-T	mg/L	0.0001	<0.00010
EB3	9-May-23	B-T	mg/L	0.05	<0.050

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	9-May-23	Ca-D	mg/L	0.05	<0.050
EB3	9-May-23	Ca-T	mg/L	0.05	<0.050
EB3	9-May-23	Cd-D	mg/L	0.00001	<0.000010
EB3	9-May-23	Cd-T	mg/L	0.00001	<0.000010
EB3	9-May-23	Cl-D	mg/L	1	<1.0
EB3	9-May-23	Co-D	mg/L	0.0002	<0.00020
EB3	9-May-23	Co-T	mg/L	0.0002	<0.00020
EB3	9-May-23	Cr-D	mg/L	0.001	<0.0010
EB3	9-May-23	Cr-T	mg/L	0.001	<0.0010
EB3	9-May-23	Cu-D	mg/L	0.0002	0.00030
EB3	9-May-23	Cu-T	mg/L	0.0005	<0.00050
EB3	9-May-23	Fe-D	mg/L	0.005	<0.0050
EB3	9-May-23	Fe-T	mg/L	0.01	<0.010
EB3	9-May-23	Hard-D	mg/L	0.5	<0.50
EB3	9-May-23	Hard-T	mg/L	0.5	<0.50
EB3	9-May-23	K-D	mg/L	0.05	<0.050
EB3	9-May-23	K-T	mg/L	0.05	<0.050
EB3	9-May-23	Li-D	mg/L	0.002	<0.0020
EB3	9-May-23	Li-T	mg/L	0.002	<0.0020
EB3	9-May-23	Mg-D	mg/L	0.05	<0.050
EB3	9-May-23	Mg-T	mg/L	0.05	<0.050
EB3	9-May-23	Mn-D	mg/L	0.001	<0.0010
EB3	9-May-23	Mn-T	mg/L	0.001	<0.0010
EB3	9-May-23	Mo-D	mg/L	0.001	<0.0010
EB3	9-May-23	Mo-T	mg/L	0.001	<0.0010
EB3	9-May-23	Na-D	mg/L	0.05	<0.050
EB3	9-May-23	Na-T	mg/L	0.05	<0.050
EB3	9-May-23	Ni-D	mg/L	0.001	<0.0010
EB3	9-May-23	Ni-T	mg/L	0.001	<0.0010
EB3	9-May-23	Pb-D	mg/L	0.0002	<0.00020
EB3	9-May-23	Pb-T	mg/L	0.0002	<0.00020
EB3	9-May-23	Sb-D	mg/L	0.0005	<0.00050
EB3	9-May-23	Sb-T	mg/L	0.0005	<0.00050
EB3	9-May-23	S-D	mg/L	3	<3.0
EB3	9-May-23	Se-D	mg/L	0.0001	<0.00010
EB3	9-May-23	Se-T	mg/L	0.0001	<0.00010
EB3	9-May-23	Si-D	mg/L	0.1	<0.10
EB3	9-May-23	Si-T	mg/L	0.1	<0.10
EB3	9-May-23	Sn-D	mg/L	0.005	<0.0050
EB3	9-May-23	Sn-T	mg/L	0.005	<0.0050
EB3	9-May-23	SO4-D	mg/L	1	<1.0
EB3	9-May-23	Sr-D	mg/L	0.001	<0.0010
EB3	9-May-23	Sr-T	mg/L	0.001	<0.0010
EB3	9-May-23	S-T	mg/L	3	<3.0
EB3	9-May-23	Ti-D	mg/L	0.005	<0.0050
EB3	9-May-23	Ti-T	mg/L	0.005	<0.0050
EB3	9-May-23	Tl-D	mg/L	0.00001	<0.000010
EB3	9-May-23	Tl-T	mg/L	0.00001	<0.000010
EB3	9-May-23	Turb	NTU	0.1	<0.10
EB3	9-May-23	U-D	mg/L	0.0001	<0.00010
EB3	9-May-23	U-T	mg/L	0.0001	<0.00010
EB3	9-May-23	V-D	mg/L	0.005	<0.0050
EB3	9-May-23	V-T	mg/L	0.005	<0.0050
EB3	9-May-23	Zn-D	mg/L	0.005	<0.0050
EB3	9-May-23	Zn-T	mg/L	0.005	<0.0050

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	9-May-23	Zr-D	mg/L	0.0001	<0.00010
EB3	9-May-23	Zr-T	mg/L	0.0001	<0.00010
EB3	12-Jul-23	Ag-D	mg/L	0.00002	<0.000020
EB3	12-Jul-23	Ag-T	mg/L	0.00002	<0.000020
EB3	12-Jul-23	Al-D	mg/L	0.003	<0.0030
EB3	12-Jul-23	Alk-PP	mg/L	1	<1.0
EB3	12-Jul-23	Alk-T	mg/L	1	<1.0
EB3	12-Jul-23	Al-T	mg/L	0.003	<0.0030
EB3	12-Jul-23	As-D	mg/L	0.0001	<0.00010
EB3	12-Jul-23	As-T	mg/L	0.0001	<0.00010
EB3	12-Jul-23	Ba-D	mg/L	0.001	<0.0010
EB3	12-Jul-23	Ba-T	mg/L	0.001	<0.0010
EB3	12-Jul-23	B-D	mg/L	0.05	<0.050
EB3	12-Jul-23	Be-D	mg/L	0.0001	<0.00010
EB3	12-Jul-23	Be-T	mg/L	0.0001	<0.00010
EB3	12-Jul-23	B-T	mg/L	0.05	<0.050
EB3	12-Jul-23	Ca-D	mg/L	0.05	<0.050
EB3	12-Jul-23	Ca-T	mg/L	0.05	<0.050
EB3	12-Jul-23	Cd-D	mg/L	0.00001	<0.000010
EB3	12-Jul-23	Cd-T	mg/L	0.00001	<0.000010
EB3	12-Jul-23	Cl-D	mg/L	1	<1.0
EB3	12-Jul-23	Co-D	mg/L	0.0002	<0.00020
EB3	12-Jul-23	Co-T	mg/L	0.0002	<0.00020
EB3	12-Jul-23	Cr-D	mg/L	0.001	<0.0010
EB3	12-Jul-23	Cr-T	mg/L	0.001	<0.0010
EB3	12-Jul-23	Cu-D	mg/L	0.0002	<0.00020
EB3	12-Jul-23	Cu-T	mg/L	0.0005	<0.00050
EB3	12-Jul-23	Fe-D	mg/L	0.005	<0.0050
EB3	12-Jul-23	Fe-T	mg/L	0.01	<0.010
EB3	12-Jul-23	Hard-D	mg/L	0.5	<0.50
EB3	12-Jul-23	Hard-T	mg/L	0.5	<0.50
EB3	12-Jul-23	K-D	mg/L	0.05	<0.050
EB3	12-Jul-23	K-T	mg/L	0.05	<0.050
EB3	12-Jul-23	Li-D	mg/L	0.002	<0.0020
EB3	12-Jul-23	Li-T	mg/L	0.002	<0.0020
EB3	12-Jul-23	Mg-D	mg/L	0.05	<0.050
EB3	12-Jul-23	Mg-T	mg/L	0.05	<0.050
EB3	12-Jul-23	Mn-D	mg/L	0.001	<0.0010
EB3	12-Jul-23	Mn-T	mg/L	0.001	<0.0010
EB3	12-Jul-23	Mo-D	mg/L	0.001	<0.0010
EB3	12-Jul-23	Mo-T	mg/L	0.001	<0.0010
EB3	12-Jul-23	Na-D	mg/L	0.05	<0.050
EB3	12-Jul-23	Na-T	mg/L	0.05	<0.050
EB3	12-Jul-23	Ni-D	mg/L	0.001	<0.0010
EB3	12-Jul-23	Ni-T	mg/L	0.001	<0.0010
EB3	12-Jul-23	Pb-D	mg/L	0.0002	<0.00020
EB3	12-Jul-23	Pb-T	mg/L	0.0002	<0.00020
EB3	12-Jul-23	Sb-D	mg/L	0.0005	<0.00050
EB3	12-Jul-23	Sb-T	mg/L	0.0005	<0.00050
EB3	12-Jul-23	S-D	mg/L	3	<3.0
EB3	12-Jul-23	Se-D	mg/L	0.0001	<0.00010
EB3	12-Jul-23	Se-T	mg/L	0.0001	<0.00010
EB3	12-Jul-23	Si-D	mg/L	0.1	<0.10
EB3	12-Jul-23	Si-T	mg/L	0.1	<0.10
EB3	12-Jul-23	Sn-D	mg/L	0.005	<0.0050

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	12-Jul-23	Sn-T	mg/L	0.005	<0.0050
EB3	12-Jul-23	SO4-D	mg/L	1	<1.0
EB3	12-Jul-23	Sr-D	mg/L	0.001	<0.0010
EB3	12-Jul-23	Sr-T	mg/L	0.001	<0.0010
EB3	12-Jul-23	S-T	mg/L	3	<3.0
EB3	12-Jul-23	Ti-D	mg/L	0.005	<0.0050
EB3	12-Jul-23	Ti-T	mg/L	0.005	<0.0050
EB3	12-Jul-23	Tl-D	mg/L	0.00001	<0.000010
EB3	12-Jul-23	Tl-T	mg/L	0.00001	<0.000010
EB3	12-Jul-23	Turb	NTU	0.1	0.18
EB3	12-Jul-23	U-D	mg/L	0.0001	<0.00010
EB3	12-Jul-23	U-T	mg/L	0.0001	<0.00010
EB3	12-Jul-23	V-D	mg/L	0.005	<0.0050
EB3	12-Jul-23	V-T	mg/L	0.005	<0.0050
EB3	12-Jul-23	Zn-D	mg/L	0.005	<0.0050
EB3	12-Jul-23	Zn-T	mg/L	0.005	<0.0050
EB3	12-Jul-23	Zr-D	mg/L	0.0001	<0.00010
EB3	12-Jul-23	Zr-T	mg/L	0.0001	<0.00010
EB3	18-Jul-23	Ag-D	mg/L	0.00002	<0.000020
EB3	18-Jul-23	Ag-T	mg/L	0.00002	<0.000020
EB3	18-Jul-23	Al-D	mg/L	0.003	<0.0030
EB3	18-Jul-23	Alk-PP	mg/L	1	<1.0
EB3	18-Jul-23	Alk-T	mg/L	1	<1.0
EB3	18-Jul-23	Al-T	mg/L	0.003	0.0521
EB3	18-Jul-23	As-D	mg/L	0.0001	<0.00010
EB3	18-Jul-23	As-T	mg/L	0.0001	<0.00010
EB3	18-Jul-23	Ba-D	mg/L	0.001	<0.0010
EB3	18-Jul-23	Ba-T	mg/L	0.001	<0.0010
EB3	18-Jul-23	B-D	mg/L	0.05	<0.050
EB3	18-Jul-23	Be-D	mg/L	0.0001	<0.00010
EB3	18-Jul-23	Be-T	mg/L	0.0001	<0.00010
EB3	18-Jul-23	B-T	mg/L	0.05	<0.050
EB3	18-Jul-23	Ca-D	mg/L	0.05	<0.050
EB3	18-Jul-23	Ca-T	mg/L	0.05	<0.050
EB3	18-Jul-23	Cd-D	mg/L	0.00001	<0.000010
EB3	18-Jul-23	Cd-T	mg/L	0.00001	<0.000010
EB3	18-Jul-23	Cl-D	mg/L	1	<1.0
EB3	18-Jul-23	Co-D	mg/L	0.0002	<0.00020
EB3	18-Jul-23	Co-T	mg/L	0.0002	<0.00020
EB3	18-Jul-23	Cr-D	mg/L	0.001	<0.0010
EB3	18-Jul-23	Cr-T	mg/L	0.001	<0.0010
EB3	18-Jul-23	Cu-D	mg/L	0.0002	<0.00020
EB3	18-Jul-23	Cu-T	mg/L	0.0005	<0.00050
EB3	18-Jul-23	Fe-D	mg/L	0.005	<0.0050
EB3	18-Jul-23	Fe-T	mg/L	0.01	<0.010
EB3	18-Jul-23	Hard-D	mg/L	0.5	<0.50
EB3	18-Jul-23	Hard-T	mg/L	0.5	<0.50
EB3	18-Jul-23	K-D	mg/L	0.05	<0.050
EB3	18-Jul-23	K-T	mg/L	0.05	<0.050
EB3	18-Jul-23	Li-D	mg/L	0.002	<0.0020
EB3	18-Jul-23	Li-T	mg/L	0.002	<0.0020
EB3	18-Jul-23	Mg-D	mg/L	0.05	<0.050
EB3	18-Jul-23	Mg-T	mg/L	0.05	<0.050
EB3	18-Jul-23	Mn-D	mg/L	0.001	<0.0010
EB3	18-Jul-23	Mn-T	mg/L	0.001	<0.0010

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	18-Jul-23	Mo-D	mg/L	0.001	<0.0010
EB3	18-Jul-23	Mo-T	mg/L	0.001	<0.0010
EB3	18-Jul-23	Na-D	mg/L	0.05	<0.050
EB3	18-Jul-23	Na-T	mg/L	0.05	<0.050
EB3	18-Jul-23	Ni-D	mg/L	0.001	<0.0010
EB3	18-Jul-23	Ni-T	mg/L	0.001	<0.0010
EB3	18-Jul-23	Pb-D	mg/L	0.0002	<0.00020
EB3	18-Jul-23	Pb-T	mg/L	0.0002	<0.00020
EB3	18-Jul-23	Sb-D	mg/L	0.0005	<0.00050
EB3	18-Jul-23	Sb-T	mg/L	0.0005	<0.00050
EB3	18-Jul-23	S-D	mg/L	3	<3.0
EB3	18-Jul-23	Se-D	mg/L	0.0001	<0.00010
EB3	18-Jul-23	Se-T	mg/L	0.0001	<0.00010
EB3	18-Jul-23	Si-D	mg/L	0.1	<0.10
EB3	18-Jul-23	Si-T	mg/L	0.1	<0.10
EB3	18-Jul-23	Sn-D	mg/L	0.005	<0.0050
EB3	18-Jul-23	Sn-T	mg/L	0.005	<0.0050
EB3	18-Jul-23	SO4-D	mg/L	1	<1.0
EB3	18-Jul-23	Sr-D	mg/L	0.001	<0.0010
EB3	18-Jul-23	Sr-T	mg/L	0.001	<0.0010
EB3	18-Jul-23	S-T	mg/L	3	<3.0
EB3	18-Jul-23	Ti-D	mg/L	0.005	<0.0050
EB3	18-Jul-23	Ti-T	mg/L	0.005	<0.0050
EB3	18-Jul-23	TI-D	mg/L	0.00001	<0.000010
EB3	18-Jul-23	TI-T	mg/L	0.00001	<0.000010
EB3	18-Jul-23	Turb	NTU	0.1	<0.10
EB3	18-Jul-23	U-D	mg/L	0.0001	<0.00010
EB3	18-Jul-23	U-T	mg/L	0.0001	<0.00010
EB3	18-Jul-23	V-D	mg/L	0.005	<0.0050
EB3	18-Jul-23	V-T	mg/L	0.005	<0.0050
EB3	18-Jul-23	Zn-D	mg/L	0.005	<0.0050
EB3	18-Jul-23	Zn-T	mg/L	0.005	<0.0050
EB3	18-Jul-23	Zr-D	mg/L	0.0001	<0.00010
EB3	18-Jul-23	Zr-T	mg/L	0.0001	<0.00010
EB3	26-Jul-23	Ag-D	mg/L	0.00002	<0.000020
EB3	26-Jul-23	Ag-T	mg/L	0.00002	<0.000020
EB3	26-Jul-23	Al-D	mg/L	0.003	<0.0030
EB3	26-Jul-23	Alk-PP	mg/L	1	<1.0
EB3	26-Jul-23	Alk-T	mg/L	1	<1.0
EB3	26-Jul-23	Al-T	mg/L	0.003	<0.0030
EB3	26-Jul-23	As-D	mg/L	0.0001	<0.00010
EB3	26-Jul-23	As-T	mg/L	0.0001	<0.00010
EB3	26-Jul-23	Ba-D	mg/L	0.001	<0.0010
EB3	26-Jul-23	Ba-T	mg/L	0.001	<0.0010
EB3	26-Jul-23	B-D	mg/L	0.05	<0.050
EB3	26-Jul-23	Be-D	mg/L	0.0001	<0.00010
EB3	26-Jul-23	Be-T	mg/L	0.0001	<0.00010
EB3	26-Jul-23	B-T	mg/L	0.05	<0.050
EB3	26-Jul-23	Ca-D	mg/L	0.05	0.064
EB3	26-Jul-23	Ca-T	mg/L	0.05	<0.050
EB3	26-Jul-23	Cd-D	mg/L	0.00001	<0.000010
EB3	26-Jul-23	Cd-T	mg/L	0.00001	<0.000010
EB3	26-Jul-23	Cl-D	mg/L	1	<1.0
EB3	26-Jul-23	Co-D	mg/L	0.0002	<0.00020
EB3	26-Jul-23	Co-T	mg/L	0.0002	<0.00020

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	26-Jul-23	Cr-D	mg/L	0.001	<0.0010
EB3	26-Jul-23	Cr-T	mg/L	0.001	<0.0010
EB3	26-Jul-23	Cu-D	mg/L	0.0002	<0.00020
EB3	26-Jul-23	Cu-T	mg/L	0.0005	<0.00050
EB3	26-Jul-23	Fe-D	mg/L	0.005	<0.0050
EB3	26-Jul-23	Fe-T	mg/L	0.01	<0.010
EB3	26-Jul-23	Hard-D	mg/L	0.5	<0.50
EB3	26-Jul-23	Hard-T	mg/L	0.5	<0.50
EB3	26-Jul-23	K-D	mg/L	0.05	<0.050
EB3	26-Jul-23	K-T	mg/L	0.05	<0.050
EB3	26-Jul-23	Li-D	mg/L	0.002	<0.0020
EB3	26-Jul-23	Li-T	mg/L	0.002	<0.0020
EB3	26-Jul-23	Mg-D	mg/L	0.05	<0.050
EB3	26-Jul-23	Mg-T	mg/L	0.05	<0.050
EB3	26-Jul-23	Mn-D	mg/L	0.001	<0.0010
EB3	26-Jul-23	Mn-T	mg/L	0.001	<0.0010
EB3	26-Jul-23	Mo-D	mg/L	0.001	<0.0010
EB3	26-Jul-23	Mo-T	mg/L	0.001	<0.0010
EB3	26-Jul-23	Na-D	mg/L	0.05	0.057
EB3	26-Jul-23	Na-T	mg/L	0.05	<0.050
EB3	26-Jul-23	Ni-D	mg/L	0.001	<0.0010
EB3	26-Jul-23	Ni-T	mg/L	0.001	<0.0010
EB3	26-Jul-23	Pb-D	mg/L	0.0002	<0.00020
EB3	26-Jul-23	Pb-T	mg/L	0.0002	<0.00020
EB3	26-Jul-23	Sb-D	mg/L	0.0005	<0.00050
EB3	26-Jul-23	Sb-T	mg/L	0.0005	<0.00050
EB3	26-Jul-23	S-D	mg/L	3	<3.0
EB3	26-Jul-23	Se-D	mg/L	0.0001	<0.00010
EB3	26-Jul-23	Se-T	mg/L	0.0001	<0.00010
EB3	26-Jul-23	Si-D	mg/L	0.1	<0.10
EB3	26-Jul-23	Si-T	mg/L	0.1	<0.10
EB3	26-Jul-23	Sn-D	mg/L	0.005	<0.0050
EB3	26-Jul-23	Sn-T	mg/L	0.005	<0.0050
EB3	26-Jul-23	SO4-D	mg/L	1	<1.0
EB3	26-Jul-23	Sr-D	mg/L	0.001	<0.0010
EB3	26-Jul-23	Sr-T	mg/L	0.001	<0.0010
EB3	26-Jul-23	S-T	mg/L	3	<3.0
EB3	26-Jul-23	Ti-D	mg/L	0.005	<0.0050
EB3	26-Jul-23	Ti-T	mg/L	0.005	<0.0050
EB3	26-Jul-23	Tl-D	mg/L	0.00001	<0.000010
EB3	26-Jul-23	Tl-T	mg/L	0.00001	<0.000010
EB3	26-Jul-23	Turb	NTU	0.1	0.13
EB3	26-Jul-23	U-D	mg/L	0.0001	<0.00010
EB3	26-Jul-23	U-T	mg/L	0.0001	<0.00010
EB3	26-Jul-23	V-D	mg/L	0.005	<0.0050
EB3	26-Jul-23	V-T	mg/L	0.005	<0.0050
EB3	26-Jul-23	Zn-D	mg/L	0.005	<0.0050
EB3	26-Jul-23	Zn-T	mg/L	0.005	<0.0050
EB3	26-Jul-23	Zr-D	mg/L	0.0001	<0.00010
EB3	26-Jul-23	Zr-T	mg/L	0.0001	<0.00010
EB3	1-Aug-23	Ag-D	mg/L	0.00002	<0.000020
EB3	1-Aug-23	Ag-T	mg/L	0.00002	<0.000020
EB3	1-Aug-23	Al-D	mg/L	0.003	<0.0030
EB3	1-Aug-23	Alk-PP	mg/L	1	<1.0
EB3	1-Aug-23	Alk-T	mg/L	1	<1.0

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	1-Aug-23	Al-T	mg/L	0.003	<0.0030
EB3	1-Aug-23	As-D	mg/L	0.0001	<0.00010
EB3	1-Aug-23	As-T	mg/L	0.0001	<0.00010
EB3	1-Aug-23	Ba-D	mg/L	0.001	<0.0010
EB3	1-Aug-23	Ba-T	mg/L	0.001	<0.0010
EB3	1-Aug-23	B-D	mg/L	0.05	<0.050
EB3	1-Aug-23	Be-D	mg/L	0.0001	<0.00010
EB3	1-Aug-23	Be-T	mg/L	0.0001	<0.00010
EB3	1-Aug-23	B-T	mg/L	0.05	<0.050
EB3	1-Aug-23	Ca-D	mg/L	0.05	<0.050
EB3	1-Aug-23	Ca-T	mg/L	0.05	<0.050
EB3	1-Aug-23	Cd-D	mg/L	0.00001	<0.000010
EB3	1-Aug-23	Cd-T	mg/L	0.00001	<0.000010
EB3	1-Aug-23	Cl-D	mg/L	1	<1.0
EB3	1-Aug-23	Co-D	mg/L	0.0002	<0.00020
EB3	1-Aug-23	Co-T	mg/L	0.0002	<0.00020
EB3	1-Aug-23	Cr-D	mg/L	0.001	<0.0010
EB3	1-Aug-23	Cr-T	mg/L	0.001	<0.0010
EB3	1-Aug-23	Cu-D	mg/L	0.0002	<0.00020
EB3	1-Aug-23	Cu-T	mg/L	0.0005	<0.00050
EB3	1-Aug-23	Fe-D	mg/L	0.005	<0.0050
EB3	1-Aug-23	Fe-T	mg/L	0.01	<0.010
EB3	1-Aug-23	Hard-D	mg/L	0.5	<0.50
EB3	1-Aug-23	Hard-T	mg/L	0.5	<0.50
EB3	1-Aug-23	K-D	mg/L	0.05	<0.050
EB3	1-Aug-23	K-T	mg/L	0.05	<0.050
EB3	1-Aug-23	Li-D	mg/L	0.002	<0.0020
EB3	1-Aug-23	Li-T	mg/L	0.002	<0.0020
EB3	1-Aug-23	Mg-D	mg/L	0.05	<0.050
EB3	1-Aug-23	Mg-T	mg/L	0.05	<0.050
EB3	1-Aug-23	Mn-D	mg/L	0.001	<0.0010
EB3	1-Aug-23	Mn-T	mg/L	0.001	<0.0010
EB3	1-Aug-23	Mo-D	mg/L	0.001	<0.0010
EB3	1-Aug-23	Mo-T	mg/L	0.001	<0.0010
EB3	1-Aug-23	Na-D	mg/L	0.05	<0.050
EB3	1-Aug-23	Na-T	mg/L	0.05	<0.050
EB3	1-Aug-23	Ni-D	mg/L	0.001	<0.0010
EB3	1-Aug-23	Ni-T	mg/L	0.001	<0.0010
EB3	1-Aug-23	Pb-D	mg/L	0.0002	<0.00020
EB3	1-Aug-23	Pb-T	mg/L	0.0002	<0.00020
EB3	1-Aug-23	Sb-D	mg/L	0.0005	<0.00050
EB3	1-Aug-23	Sb-T	mg/L	0.0005	<0.00050
EB3	1-Aug-23	S-D	mg/L	3	<3.0
EB3	1-Aug-23	Se-D	mg/L	0.0001	<0.00010
EB3	1-Aug-23	Se-T	mg/L	0.0001	<0.00010
EB3	1-Aug-23	Si-D	mg/L	0.1	<0.10
EB3	1-Aug-23	Si-T	mg/L	0.1	<0.10
EB3	1-Aug-23	Sn-D	mg/L	0.005	<0.0050
EB3	1-Aug-23	Sn-T	mg/L	0.005	<0.0050
EB3	1-Aug-23	SO4-D	mg/L	1	<1.0
EB3	1-Aug-23	Sr-D	mg/L	0.001	<0.0010
EB3	1-Aug-23	Sr-T	mg/L	0.001	<0.0010
EB3	1-Aug-23	S-T	mg/L	3	<3.0
EB3	1-Aug-23	Ti-D	mg/L	0.005	<0.0050
EB3	1-Aug-23	Ti-T	mg/L	0.005	<0.0050

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	1-Aug-23	TI-D	mg/L	0.00001	<0.000010
EB3	1-Aug-23	TI-T	mg/L	0.00001	<0.000010
EB3	1-Aug-23	Turb	NTU	0.1	<0.10
EB3	1-Aug-23	U-D	mg/L	0.0001	<0.00010
EB3	1-Aug-23	U-T	mg/L	0.0001	<0.00010
EB3	1-Aug-23	V-D	mg/L	0.005	<0.0050
EB3	1-Aug-23	V-T	mg/L	0.005	<0.0050
EB3	1-Aug-23	Zn-D	mg/L	0.005	<0.0050
EB3	1-Aug-23	Zn-T	mg/L	0.005	<0.0050
EB3	1-Aug-23	Zr-D	mg/L	0.0001	<0.00010
EB3	1-Aug-23	Zr-T	mg/L	0.0001	<0.00010
EB3	9-Aug-23	Ag-D	mg/L	0.00002	<0.000020
EB3	9-Aug-23	Ag-T	mg/L	0.00002	<0.000020
EB3	9-Aug-23	Al-D	mg/L	0.003	<0.0030
EB3	9-Aug-23	Alk-PP	mg/L	1	<1.0
EB3	9-Aug-23	Alk-T	mg/L	1	<1.0
EB3	9-Aug-23	Al-T	mg/L	0.003	<0.0030
EB3	9-Aug-23	As-D	mg/L	0.0001	<0.00010
EB3	9-Aug-23	As-T	mg/L	0.0001	<0.00010
EB3	9-Aug-23	Ba-D	mg/L	0.001	<0.0010
EB3	9-Aug-23	Ba-T	mg/L	0.001	<0.0010
EB3	9-Aug-23	B-D	mg/L	0.05	<0.050
EB3	9-Aug-23	Be-D	mg/L	0.0001	<0.00010
EB3	9-Aug-23	Be-T	mg/L	0.0001	<0.00010
EB3	9-Aug-23	B-T	mg/L	0.05	<0.050
EB3	9-Aug-23	Ca-D	mg/L	0.05	0.079
EB3	9-Aug-23	Ca-T	mg/L	0.05	<0.050
EB3	9-Aug-23	Cd-D	mg/L	0.00001	<0.000010
EB3	9-Aug-23	Cd-T	mg/L	0.00001	<0.000010
EB3	9-Aug-23	Cl-D	mg/L	1	<1.0
EB3	9-Aug-23	Co-D	mg/L	0.0002	<0.00020
EB3	9-Aug-23	Co-T	mg/L	0.0002	<0.00020
EB3	9-Aug-23	Cr-D	mg/L	0.001	<0.0010
EB3	9-Aug-23	Cr-T	mg/L	0.001	<0.0010
EB3	9-Aug-23	Cu-D	mg/L	0.0002	<0.00020
EB3	9-Aug-23	Cu-T	mg/L	0.0005	<0.00050
EB3	9-Aug-23	Fe-D	mg/L	0.005	<0.0050
EB3	9-Aug-23	Fe-T	mg/L	0.01	<0.010
EB3	9-Aug-23	Hard-D	mg/L	0.5	<0.50
EB3	9-Aug-23	Hard-T	mg/L	0.5	<0.50
EB3	9-Aug-23	K-D	mg/L	0.05	<0.050
EB3	9-Aug-23	K-T	mg/L	0.05	<0.050
EB3	9-Aug-23	Li-D	mg/L	0.002	<0.0020
EB3	9-Aug-23	Li-T	mg/L	0.002	<0.0020
EB3	9-Aug-23	Mg-D	mg/L	0.05	<0.050
EB3	9-Aug-23	Mg-T	mg/L	0.05	<0.050
EB3	9-Aug-23	Mn-D	mg/L	0.001	<0.0010
EB3	9-Aug-23	Mn-T	mg/L	0.001	<0.0010
EB3	9-Aug-23	Mo-D	mg/L	0.001	<0.0010
EB3	9-Aug-23	Mo-T	mg/L	0.001	<0.0010
EB3	9-Aug-23	Na-D	mg/L	0.05	<0.050
EB3	9-Aug-23	Na-T	mg/L	0.05	<0.050
EB3	9-Aug-23	Ni-D	mg/L	0.001	<0.0010
EB3	9-Aug-23	Ni-T	mg/L	0.001	<0.0010
EB3	9-Aug-23	N-NO23	mg/L	0.02	<0.020

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	9-Aug-23	Pb-D	mg/L	0.0002	<0.00020
EB3	9-Aug-23	Pb-T	mg/L	0.0002	<0.00020
EB3	9-Aug-23	Sb-D	mg/L	0.0005	<0.00050
EB3	9-Aug-23	Sb-T	mg/L	0.0005	<0.00050
EB3	9-Aug-23	S-D	mg/L	3	<3.0
EB3	9-Aug-23	Se-D	mg/L	0.0001	<0.00010
EB3	9-Aug-23	Se-T	mg/L	0.0001	<0.00010
EB3	9-Aug-23	Si-D	mg/L	0.1	<0.10
EB3	9-Aug-23	Si-T	mg/L	0.1	<0.10
EB3	9-Aug-23	Sn-D	mg/L	0.005	<0.0050
EB3	9-Aug-23	Sn-T	mg/L	0.005	<0.0050
EB3	9-Aug-23	SO4-D	mg/L	1	<1.0
EB3	9-Aug-23	Sr-D	mg/L	0.001	<0.0010
EB3	9-Aug-23	Sr-T	mg/L	0.001	<0.0010
EB3	9-Aug-23	S-T	mg/L	3	<3.0
EB3	9-Aug-23	Ti-D	mg/L	0.005	<0.0050
EB3	9-Aug-23	Ti-T	mg/L	0.005	<0.0050
EB3	9-Aug-23	Tl-D	mg/L	0.00001	<0.000010
EB3	9-Aug-23	Tl-T	mg/L	0.00001	<0.000010
EB3	9-Aug-23	Turb	NTU	0.1	0.29
EB3	9-Aug-23	U-D	mg/L	0.0001	<0.00010
EB3	9-Aug-23	U-T	mg/L	0.0001	<0.00010
EB3	9-Aug-23	V-D	mg/L	0.005	<0.0050
EB3	9-Aug-23	V-T	mg/L	0.005	<0.0050
EB3	9-Aug-23	Zn-D	mg/L	0.005	<0.0050
EB3	9-Aug-23	Zn-T	mg/L	0.005	<0.0050
EB3	9-Aug-23	Zr-D	mg/L	0.0001	<0.00010
EB3	9-Aug-23	Zr-T	mg/L	0.0001	<0.00010
EB3	4-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB3	4-Oct-23	Al-T	mg/L	0.003	<0.0030
EB3	4-Oct-23	As-T	mg/L	0.0001	<0.00010
EB3	4-Oct-23	Ba-T	mg/L	0.001	<0.0010
EB3	4-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB3	4-Oct-23	B-T	mg/L	0.05	<0.050
EB3	4-Oct-23	Ca-T	mg/L	0.05	<0.050
EB3	4-Oct-23	Cd-T	mg/L	0.00001	<0.000010
EB3	4-Oct-23	Cl-D	mg/L	1	<1.0
EB3	4-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB3	4-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB3	4-Oct-23	Cu-T	mg/L	0.0005	<0.00050
EB3	4-Oct-23	Fe-T	mg/L	0.01	<0.010
EB3	4-Oct-23	Hard-T	mg/L	0.5	<0.50
EB3	4-Oct-23	K-T	mg/L	0.05	<0.050
EB3	4-Oct-23	Li-T	mg/L	0.002	<0.0020
EB3	4-Oct-23	Mg-T	mg/L	0.05	<0.050
EB3	4-Oct-23	Mn-T	mg/L	0.001	<0.0010
EB3	4-Oct-23	Mo-T	mg/L	0.001	<0.0010
EB3	4-Oct-23	Na-T	mg/L	0.05	<0.050
EB3	4-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB3	4-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB3	4-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB3	4-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB3	4-Oct-23	Si-T	mg/L	0.1	<0.10
EB3	4-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB3	4-Oct-23	SO4-D	mg/L	1	<1.0

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	4-Oct-23	Sr-T	mg/L	0.001	<0.0010
EB3	4-Oct-23	S-T	mg/L	3	<3.0
EB3	4-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB3	4-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB3	4-Oct-23	U-T	mg/L	0.0001	<0.00010
EB3	4-Oct-23	V-T	mg/L	0.005	<0.0050
EB3	4-Oct-23	Zn-T	mg/L	0.005	<0.0050
EB3	4-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB3	11-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB3	11-Oct-23	Al-T	mg/L	0.003	<0.0030
EB3	11-Oct-23	As-T	mg/L	0.0001	<0.00010
EB3	11-Oct-23	Ba-T	mg/L	0.001	<0.0010
EB3	11-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB3	11-Oct-23	B-T	mg/L	0.05	<0.050
EB3	11-Oct-23	Ca-T	mg/L	0.05	<0.050
EB3	11-Oct-23	Cd-T	mg/L	0.00001	<0.000010
EB3	11-Oct-23	Cl-D	mg/L	1	<1.0
EB3	11-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB3	11-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB3	11-Oct-23	Cu-T	mg/L	0.0005	<0.00050
EB3	11-Oct-23	Fe-T	mg/L	0.01	<0.010
EB3	11-Oct-23	Hard-T	mg/L	0.5	<0.50
EB3	11-Oct-23	K-T	mg/L	0.05	<0.050
EB3	11-Oct-23	Li-T	mg/L	0.002	<0.0020
EB3	11-Oct-23	Mg-T	mg/L	0.05	<0.050
EB3	11-Oct-23	Mn-T	mg/L	0.001	<0.0010
EB3	11-Oct-23	Mo-T	mg/L	0.001	<0.0010
EB3	11-Oct-23	Na-T	mg/L	0.05	<0.050
EB3	11-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB3	11-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB3	11-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB3	11-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB3	11-Oct-23	Si-T	mg/L	0.1	<0.10
EB3	11-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB3	11-Oct-23	SO4-D	mg/L	1	<1.0
EB3	11-Oct-23	Sr-T	mg/L	0.001	<0.0010
EB3	11-Oct-23	S-T	mg/L	3	<3.0
EB3	11-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB3	11-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB3	11-Oct-23	U-T	mg/L	0.0001	<0.00010
EB3	11-Oct-23	V-T	mg/L	0.005	<0.0050
EB3	11-Oct-23	Zn-T	mg/L	0.005	<0.0050
EB3	11-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB3	17-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB3	17-Oct-23	Al-T	mg/L	0.003	<0.0030
EB3	17-Oct-23	As-T	mg/L	0.0001	<0.00010
EB3	17-Oct-23	Ba-T	mg/L	0.001	<0.0010
EB3	17-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB3	17-Oct-23	B-T	mg/L	0.05	<0.050
EB3	17-Oct-23	Ca-T	mg/L	0.05	<0.050
EB3	17-Oct-23	Cd-T	mg/L	0.00001	<0.000010
EB3	17-Oct-23	Cl-D	mg/L	1	<1.0
EB3	17-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB3	17-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB3	17-Oct-23	Cu-T	mg/L	0.0005	<0.00050

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	17-Oct-23	Fe-T	mg/L	0.01	<0.010
EB3	17-Oct-23	Hard-T	mg/L	0.5	<0.50
EB3	17-Oct-23	K-T	mg/L	0.05	<0.050
EB3	17-Oct-23	Li-T	mg/L	0.002	<0.0020
EB3	17-Oct-23	Mg-T	mg/L	0.05	<0.050
EB3	17-Oct-23	Mn-T	mg/L	0.001	<0.0010
EB3	17-Oct-23	Mo-T	mg/L	0.001	<0.0010
EB3	17-Oct-23	Na-T	mg/L	0.05	<0.050
EB3	17-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB3	17-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB3	17-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB3	17-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB3	17-Oct-23	Si-T	mg/L	0.1	<0.10
EB3	17-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB3	17-Oct-23	SO4-D	mg/L	1	<1.0
EB3	17-Oct-23	Sr-T	mg/L	0.001	<0.0010
EB3	17-Oct-23	S-T	mg/L	3	<3.0
EB3	17-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB3	17-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB3	17-Oct-23	U-T	mg/L	0.0001	<0.00010
EB3	17-Oct-23	V-T	mg/L	0.005	<0.0050
EB3	17-Oct-23	Zn-T	mg/L	0.005	<0.0050
EB3	17-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB3	23-Oct-23	Ag-T	mg/L	0.00002	<0.000020
EB3	23-Oct-23	Al-T	mg/L	0.003	<0.0030
EB3	23-Oct-23	As-T	mg/L	0.0001	<0.00010
EB3	23-Oct-23	Ba-T	mg/L	0.001	<0.0010
EB3	23-Oct-23	Be-T	mg/L	0.0001	<0.00010
EB3	23-Oct-23	B-T	mg/L	0.05	<0.050
EB3	23-Oct-23	Ca-T	mg/L	0.05	<0.050
EB3	23-Oct-23	Cd-T	mg/L	0.00001	<0.000010
EB3	23-Oct-23	Cl-D	mg/L	1	<1.0
EB3	23-Oct-23	Co-T	mg/L	0.0002	<0.00020
EB3	23-Oct-23	Cr-T	mg/L	0.001	<0.0010
EB3	23-Oct-23	Cu-T	mg/L	0.0005	<0.00050
EB3	23-Oct-23	Fe-T	mg/L	0.01	<0.010
EB3	23-Oct-23	Hard-T	mg/L	0.5	<0.50
EB3	23-Oct-23	K-T	mg/L	0.05	<0.050
EB3	23-Oct-23	Li-T	mg/L	0.002	<0.0020
EB3	23-Oct-23	Mg-T	mg/L	0.05	<0.050
EB3	23-Oct-23	Mn-T	mg/L	0.001	<0.0010
EB3	23-Oct-23	Mo-T	mg/L	0.001	<0.0010
EB3	23-Oct-23	Na-T	mg/L	0.05	<0.050
EB3	23-Oct-23	Ni-T	mg/L	0.001	<0.0010
EB3	23-Oct-23	Pb-T	mg/L	0.0002	<0.00020
EB3	23-Oct-23	Sb-T	mg/L	0.0005	<0.00050
EB3	23-Oct-23	Se-T	mg/L	0.0001	<0.00010
EB3	23-Oct-23	Si-T	mg/L	0.1	<0.10
EB3	23-Oct-23	Sn-T	mg/L	0.005	<0.0050
EB3	23-Oct-23	SO4-D	mg/L	1	<1.0
EB3	23-Oct-23	Sr-T	mg/L	0.001	<0.0010
EB3	23-Oct-23	S-T	mg/L	3	<3.0
EB3	23-Oct-23	Ti-T	mg/L	0.005	<0.0050
EB3	23-Oct-23	Tl-T	mg/L	0.00001	<0.000010
EB3	23-Oct-23	U-T	mg/L	0.0001	<0.00010

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB3	23-Oct-23	V-T	mg/L	0.005	<0.0050
EB3	23-Oct-23	Zn-T	mg/L	0.005	<0.0050
EB3	23-Oct-23	Zr-T	mg/L	0.0001	<0.00010
EB4	4-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB4	4-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB4	4-Apr-23	Al-D	mg/L	0.003	<0.0030
EB4	4-Apr-23	Alk-PP	mg/L	1	<1.0
EB4	4-Apr-23	Alk-T	mg/L	1	<1.0
EB4	4-Apr-23	Al-T	mg/L	0.003	<0.0030
EB4	4-Apr-23	As-D	mg/L	0.0001	<0.00010
EB4	4-Apr-23	As-T	mg/L	0.0001	<0.00010
EB4	4-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB4	4-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB4	4-Apr-23	B-D	mg/L	0.05	<0.050
EB4	4-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB4	4-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB4	4-Apr-23	B-T	mg/L	0.05	<0.050
EB4	4-Apr-23	Ca-D	mg/L	0.05	<0.050
EB4	4-Apr-23	Ca-T	mg/L	0.05	<0.050
EB4	4-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB4	4-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB4	4-Apr-23	Cl-D	mg/L	1	1.1
EB4	4-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB4	4-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB4	4-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB4	4-Apr-23	Cr-T	mg/L	0.001	0.0023
EB4	4-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB4	4-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB4	4-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB4	4-Apr-23	Fe-T	mg/L	0.01	<0.010
EB4	4-Apr-23	Hard-D	mg/L	0.5	<0.50
EB4	4-Apr-23	Hard-T	mg/L	0.5	<0.50
EB4	4-Apr-23	K-D	mg/L	0.05	<0.050
EB4	4-Apr-23	K-T	mg/L	0.05	<0.050
EB4	4-Apr-23	Li-D	mg/L	0.002	<0.0020
EB4	4-Apr-23	Li-T	mg/L	0.002	<0.0020
EB4	4-Apr-23	Mg-D	mg/L	0.05	<0.050
EB4	4-Apr-23	Mg-T	mg/L	0.05	<0.050
EB4	4-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB4	4-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB4	4-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB4	4-Apr-23	Mo-T	mg/L	0.001	0.0022
EB4	4-Apr-23	Na-D	mg/L	0.05	<0.050
EB4	4-Apr-23	Na-T	mg/L	0.05	<0.050
EB4	4-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB4	4-Apr-23	Ni-T	mg/L	0.001	0.0094
EB4	4-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB4	4-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB4	4-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB4	4-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB4	4-Apr-23	S-D	mg/L	3	<3.0
EB4	4-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB4	4-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB4	4-Apr-23	Si-D	mg/L	0.1	<0.10
EB4	4-Apr-23	Si-T	mg/L	0.1	<0.10

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB4	4-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB4	4-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB4	4-Apr-23	SO4-D	mg/L	1	<1.0
EB4	4-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB4	4-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB4	4-Apr-23	S-T	mg/L	3	<3.0
EB4	4-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB4	4-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB4	4-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB4	4-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB4	4-Apr-23	Turb	NTU	0.1	0.10
EB4	4-Apr-23	U-D	mg/L	0.0001	<0.00010
EB4	4-Apr-23	U-T	mg/L	0.0001	<0.00010
EB4	4-Apr-23	V-D	mg/L	0.005	<0.0050
EB4	4-Apr-23	V-T	mg/L	0.005	<0.0050
EB4	4-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB4	4-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB4	4-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB4	4-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB4	12-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB4	12-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB4	12-Apr-23	Al-D	mg/L	0.003	<0.0030
EB4	12-Apr-23	Alk-PP	mg/L	1	<1.0
EB4	12-Apr-23	Alk-T	mg/L	1	<1.0
EB4	12-Apr-23	Al-T	mg/L	0.003	<0.0030
EB4	12-Apr-23	As-D	mg/L	0.0001	<0.00010
EB4	12-Apr-23	As-T	mg/L	0.0001	<0.00010
EB4	12-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB4	12-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB4	12-Apr-23	B-D	mg/L	0.05	<0.050
EB4	12-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB4	12-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB4	12-Apr-23	B-T	mg/L	0.05	<0.050
EB4	12-Apr-23	Ca-D	mg/L	0.05	<0.050
EB4	12-Apr-23	Ca-T	mg/L	0.05	<0.050
EB4	12-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB4	12-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB4	12-Apr-23	Cl-D	mg/L	1	<1.0
EB4	12-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB4	12-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB4	12-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB4	12-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB4	12-Apr-23	Cu-D	mg/L	0.0002	0.00065
EB4	12-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB4	12-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB4	12-Apr-23	Fe-T	mg/L	0.01	<0.010
EB4	12-Apr-23	Hard-D	mg/L	0.5	<0.50
EB4	12-Apr-23	Hard-T	mg/L	0.5	<0.50
EB4	12-Apr-23	K-D	mg/L	0.05	<0.050
EB4	12-Apr-23	K-T	mg/L	0.05	<0.050
EB4	12-Apr-23	Li-D	mg/L	0.002	<0.0020
EB4	12-Apr-23	Li-T	mg/L	0.002	<0.0020
EB4	12-Apr-23	Mg-D	mg/L	0.05	<0.050
EB4	12-Apr-23	Mg-T	mg/L	0.05	<0.050
EB4	12-Apr-23	Mn-D	mg/L	0.001	<0.0010

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB4	12-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB4	12-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB4	12-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB4	12-Apr-23	Na-D	mg/L	0.05	<0.050
EB4	12-Apr-23	Na-T	mg/L	0.05	<0.050
EB4	12-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB4	12-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB4	12-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB4	12-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB4	12-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB4	12-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB4	12-Apr-23	S-D	mg/L	3	<3.0
EB4	12-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB4	12-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB4	12-Apr-23	Si-D	mg/L	0.1	<0.10
EB4	12-Apr-23	Si-T	mg/L	0.1	<0.10
EB4	12-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB4	12-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB4	12-Apr-23	SO4-D	mg/L	1	<1.0
EB4	12-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB4	12-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB4	12-Apr-23	S-T	mg/L	3	<3.0
EB4	12-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB4	12-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB4	12-Apr-23	TI-D	mg/L	0.00001	<0.000010
EB4	12-Apr-23	TI-T	mg/L	0.00001	<0.000010
EB4	12-Apr-23	Turb	NTU	0.1	<0.10
EB4	12-Apr-23	U-D	mg/L	0.0001	<0.00010
EB4	12-Apr-23	U-T	mg/L	0.0001	<0.00010
EB4	12-Apr-23	V-D	mg/L	0.005	<0.0050
EB4	12-Apr-23	V-T	mg/L	0.005	<0.0050
EB4	12-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB4	12-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB4	12-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB4	12-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB4	19-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB4	19-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB4	19-Apr-23	Al-D	mg/L	0.003	<0.0030
EB4	19-Apr-23	Alk-PP	mg/L	1	<1.0
EB4	19-Apr-23	Alk-T	mg/L	1	<1.0
EB4	19-Apr-23	Al-T	mg/L	0.003	<0.0030
EB4	19-Apr-23	As-D	mg/L	0.0001	<0.00010
EB4	19-Apr-23	As-T	mg/L	0.0001	<0.00010
EB4	19-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB4	19-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB4	19-Apr-23	B-D	mg/L	0.05	<0.050
EB4	19-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB4	19-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB4	19-Apr-23	B-T	mg/L	0.05	<0.050
EB4	19-Apr-23	Ca-D	mg/L	0.05	<0.050
EB4	19-Apr-23	Ca-T	mg/L	0.05	<0.050
EB4	19-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB4	19-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB4	19-Apr-23	Cl-D	mg/L	1	<1.0
EB4	19-Apr-23	Co-D	mg/L	0.0002	<0.00020

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB4	19-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB4	19-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB4	19-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB4	19-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB4	19-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB4	19-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB4	19-Apr-23	Fe-T	mg/L	0.01	<0.010
EB4	19-Apr-23	Hard-D	mg/L	0.5	<0.50
EB4	19-Apr-23	Hard-T	mg/L	0.5	<0.50
EB4	19-Apr-23	K-D	mg/L	0.05	<0.050
EB4	19-Apr-23	K-T	mg/L	0.05	<0.050
EB4	19-Apr-23	Li-D	mg/L	0.002	<0.0020
EB4	19-Apr-23	Li-T	mg/L	0.002	<0.0020
EB4	19-Apr-23	Mg-D	mg/L	0.05	<0.050
EB4	19-Apr-23	Mg-T	mg/L	0.05	<0.050
EB4	19-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB4	19-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB4	19-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB4	19-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB4	19-Apr-23	Na-D	mg/L	0.05	<0.050
EB4	19-Apr-23	Na-T	mg/L	0.05	<0.050
EB4	19-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB4	19-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB4	19-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB4	19-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB4	19-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB4	19-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB4	19-Apr-23	S-D	mg/L	3	<3.0
EB4	19-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB4	19-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB4	19-Apr-23	Si-D	mg/L	0.1	<0.10
EB4	19-Apr-23	Si-T	mg/L	0.1	<0.10
EB4	19-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB4	19-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB4	19-Apr-23	SO4-D	mg/L	1	<1.0
EB4	19-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB4	19-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB4	19-Apr-23	S-T	mg/L	3	<3.0
EB4	19-Apr-23	Ti-D	mg/L	0.005	<0.0050
EB4	19-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB4	19-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB4	19-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB4	19-Apr-23	Turb	NTU	0.1	<0.10
EB4	19-Apr-23	U-D	mg/L	0.0001	<0.00010
EB4	19-Apr-23	U-T	mg/L	0.0001	<0.00010
EB4	19-Apr-23	V-D	mg/L	0.005	<0.0050
EB4	19-Apr-23	V-T	mg/L	0.005	<0.0050
EB4	19-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB4	19-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB4	19-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB4	19-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB4	25-Apr-23	Ag-D	mg/L	0.00002	<0.000020
EB4	25-Apr-23	Ag-T	mg/L	0.00002	<0.000020
EB4	25-Apr-23	Al-D	mg/L	0.003	<0.0030
EB4	25-Apr-23	Alk-PP	mg/L	1	<1.0

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB4	25-Apr-23	Alk-T	mg/L	1	<1.0
EB4	25-Apr-23	Al-T	mg/L	0.003	<0.0030
EB4	25-Apr-23	As-D	mg/L	0.0001	<0.00010
EB4	25-Apr-23	As-T	mg/L	0.0001	<0.00010
EB4	25-Apr-23	Ba-D	mg/L	0.001	<0.0010
EB4	25-Apr-23	Ba-T	mg/L	0.001	<0.0010
EB4	25-Apr-23	B-D	mg/L	0.05	<0.050
EB4	25-Apr-23	Be-D	mg/L	0.0001	<0.00010
EB4	25-Apr-23	Be-T	mg/L	0.0001	<0.00010
EB4	25-Apr-23	B-T	mg/L	0.05	<0.050
EB4	25-Apr-23	Ca-D	mg/L	0.05	<0.050
EB4	25-Apr-23	Ca-T	mg/L	0.05	<0.050
EB4	25-Apr-23	Cd-D	mg/L	0.00001	<0.000010
EB4	25-Apr-23	Cd-T	mg/L	0.00001	<0.000010
EB4	25-Apr-23	Cl-D	mg/L	1	<1.0
EB4	25-Apr-23	Co-D	mg/L	0.0002	<0.00020
EB4	25-Apr-23	Co-T	mg/L	0.0002	<0.00020
EB4	25-Apr-23	Cr-D	mg/L	0.001	<0.0010
EB4	25-Apr-23	Cr-T	mg/L	0.001	<0.0010
EB4	25-Apr-23	Cu-D	mg/L	0.0002	<0.00020
EB4	25-Apr-23	Cu-T	mg/L	0.0005	<0.00050
EB4	25-Apr-23	Fe-D	mg/L	0.005	<0.0050
EB4	25-Apr-23	Fe-T	mg/L	0.01	<0.010
EB4	25-Apr-23	Hard-D	mg/L	0.5	<0.50
EB4	25-Apr-23	Hard-T	mg/L	0.5	<0.50
EB4	25-Apr-23	K-D	mg/L	0.05	<0.050
EB4	25-Apr-23	K-T	mg/L	0.05	<0.050
EB4	25-Apr-23	Li-D	mg/L	0.002	<0.0020
EB4	25-Apr-23	Li-T	mg/L	0.002	<0.0020
EB4	25-Apr-23	Mg-D	mg/L	0.05	<0.050
EB4	25-Apr-23	Mg-T	mg/L	0.05	<0.050
EB4	25-Apr-23	Mn-D	mg/L	0.001	<0.0010
EB4	25-Apr-23	Mn-T	mg/L	0.001	<0.0010
EB4	25-Apr-23	Mo-D	mg/L	0.001	<0.0010
EB4	25-Apr-23	Mo-T	mg/L	0.001	<0.0010
EB4	25-Apr-23	Na-D	mg/L	0.05	<0.050
EB4	25-Apr-23	Na-T	mg/L	0.05	<0.050
EB4	25-Apr-23	Ni-D	mg/L	0.001	<0.0010
EB4	25-Apr-23	Ni-T	mg/L	0.001	<0.0010
EB4	25-Apr-23	Pb-D	mg/L	0.0002	<0.00020
EB4	25-Apr-23	Pb-T	mg/L	0.0002	<0.00020
EB4	25-Apr-23	Sb-D	mg/L	0.0005	<0.00050
EB4	25-Apr-23	Sb-T	mg/L	0.0005	<0.00050
EB4	25-Apr-23	S-D	mg/L	3	<3.0
EB4	25-Apr-23	Se-D	mg/L	0.0001	<0.00010
EB4	25-Apr-23	Se-T	mg/L	0.0001	<0.00010
EB4	25-Apr-23	Si-D	mg/L	0.1	<0.10
EB4	25-Apr-23	Si-T	mg/L	0.1	<0.10
EB4	25-Apr-23	Sn-D	mg/L	0.005	<0.0050
EB4	25-Apr-23	Sn-T	mg/L	0.005	<0.0050
EB4	25-Apr-23	SO4-D	mg/L	1	<1.0
EB4	25-Apr-23	Sr-D	mg/L	0.001	<0.0010
EB4	25-Apr-23	Sr-T	mg/L	0.001	<0.0010
EB4	25-Apr-23	S-T	mg/L	3	<3.0
EB4	25-Apr-23	Ti-D	mg/L	0.005	<0.0050

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB4	25-Apr-23	Ti-T	mg/L	0.005	<0.0050
EB4	25-Apr-23	Tl-D	mg/L	0.00001	<0.000010
EB4	25-Apr-23	Tl-T	mg/L	0.00001	<0.000010
EB4	25-Apr-23	Turb	NTU	0.1	0.34
EB4	25-Apr-23	U-D	mg/L	0.0001	<0.00010
EB4	25-Apr-23	U-T	mg/L	0.0001	<0.00010
EB4	25-Apr-23	V-D	mg/L	0.005	<0.0050
EB4	25-Apr-23	V-T	mg/L	0.005	<0.0050
EB4	25-Apr-23	Zn-D	mg/L	0.005	<0.0050
EB4	25-Apr-23	Zn-T	mg/L	0.005	<0.0050
EB4	25-Apr-23	Zr-D	mg/L	0.0001	<0.00010
EB4	25-Apr-23	Zr-T	mg/L	0.0001	<0.00010
EB4	2-May-23	Ag-D	mg/L	0.00002	<0.000020
EB4	2-May-23	Ag-T	mg/L	0.00002	<0.000020
EB4	2-May-23	Al-D	mg/L	0.003	<0.0030
EB4	2-May-23	Alk-PP	mg/L	1	<1.0
EB4	2-May-23	Alk-T	mg/L	1	<1.0
EB4	2-May-23	Al-T	mg/L	0.003	<0.0030
EB4	2-May-23	As-D	mg/L	0.0001	<0.00010
EB4	2-May-23	As-T	mg/L	0.0001	<0.00010
EB4	2-May-23	Ba-D	mg/L	0.001	<0.0010
EB4	2-May-23	Ba-T	mg/L	0.001	<0.0010
EB4	2-May-23	B-D	mg/L	0.05	<0.050
EB4	2-May-23	Be-D	mg/L	0.0001	<0.00010
EB4	2-May-23	Be-T	mg/L	0.0001	<0.00010
EB4	2-May-23	B-T	mg/L	0.05	<0.050
EB4	2-May-23	Ca-D	mg/L	0.05	<0.050
EB4	2-May-23	Ca-T	mg/L	0.05	<0.050
EB4	2-May-23	Cd-D	mg/L	0.00001	<0.000010
EB4	2-May-23	Cd-T	mg/L	0.00001	<0.000010

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EB4	2-May-23	Cl-D	mg/L	1	<1.0
EB4	2-May-23	Co-D	mg/L	0.0002	<0.00020
EB4	2-May-23	Co-T	mg/L	0.0002	<0.00020
EB4	2-May-23	Cr-D	mg/L	0.001	<0.0010
EB4	2-May-23	Cr-T	mg/L	0.001	<0.0010
EB4	2-May-23	Cu-D	mg/L	0.0002	<0.00020
EB4	2-May-23	Cu-T	mg/L	0.0005	<0.00050
EB4	2-May-23	Fe-D	mg/L	0.005	<0.0050
EB4	2-May-23	Fe-T	mg/L	0.01	<0.010
EB4	2-May-23	Hard-D	mg/L	0.5	<0.50
EB4	2-May-23	Hard-T	mg/L	0.5	<0.50
EB4	2-May-23	K-D	mg/L	0.05	<0.050
EB4	2-May-23	K-T	mg/L	0.05	<0.050
EB4	2-May-23	Li-D	mg/L	0.002	<0.0020
EB4	2-May-23	Li-T	mg/L	0.002	<0.0020
EB4	2-May-23	Mg-D	mg/L	0.05	<0.050
EB4	2-May-23	Mg-T	mg/L	0.05	<0.050
EB4	2-May-23	Mn-D	mg/L	0.001	<0.0010
EB4	2-May-23	Mn-T	mg/L	0.001	<0.0010
EB4	2-May-23	Mo-D	mg/L	0.001	<0.0010
EB4	2-May-23	Mo-T	mg/L	0.001	<0.0010
EB4	2-May-23	Na-D	mg/L	0.05	<0.050
EB4	2-May-23	Na-T	mg/L	0.05	0.072
EB4	2-May-23	Ni-D	mg/L	0.001	<0.0010
EB4	2-May-23	Ni-T	mg/L	0.001	<0.0010
EB4	2-May-23	N-NO23	mg/L	0.02	<0.020
EB4	2-May-23	Pb-D	mg/L	0.0002	<0.00020
EB4	2-May-23	Pb-T	mg/L	0.0002	<0.00020
EB4	2-May-23	Sb-D	mg/L	0.0005	<0.00050
EB4	2-May-23	Sb-T	mg/L	0.0005	<0.00050
EB4	2-May-23	S-D	mg/L	3	<3.0
EB4	2-May-23	Se-D	mg/L	0.0001	<0.00010
EB4	2-May-23	Se-T	mg/L	0.0001	<0.00010
EB4	2-May-23	Si-D	mg/L	0.1	<0.10
EB4	2-May-23	Si-T	mg/L	0.1	<0.10
EB4	2-May-23	Sn-D	mg/L	0.005	<0.0050
EB4	2-May-23	Sn-T	mg/L	0.005	<0.0050
EB4	2-May-23	SO4-D	mg/L	1	<1.0
EB4	2-May-23	Sr-D	mg/L	0.001	<0.0010
EB4	2-May-23	Sr-T	mg/L	0.001	<0.0010
EB4	2-May-23	S-T	mg/L	3	<3.0
EB4	2-May-23	Ti-D	mg/L	0.005	<0.0050
EB4	2-May-23	Ti-T	mg/L	0.005	<0.0050
EB4	2-May-23	Tl-D	mg/L	0.00001	<0.000010
EB4	2-May-23	Tl-T	mg/L	0.00001	<0.000010
EB4	2-May-23	Turb	NTU	0.1	<0.10
EB4	2-May-23	U-D	mg/L	0.0001	<0.00010
EB4	2-May-23	U-T	mg/L	0.0001	<0.00010
EB4	2-May-23	V-D	mg/L	0.005	<0.0050
EB4	2-May-23	V-T	mg/L	0.005	<0.0050
EB4	2-May-23	Zn-D	mg/L	0.005	<0.0050
EB4	2-May-23	Zn-T	mg/L	0.005	<0.0050
EB4	2-May-23	Zr-D	mg/L	0.0001	<0.00010
EB4	2-May-23	Zr-T	mg/L	0.0001	<0.00010
EBP	4-Mar-24	Ag-D	mg/L	0.00002	<0.000020

Highlighted cells are greater than dection limits.

Appendix 1 - Tables

Table 51 Blanks 42 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)					
Station Code	Date	Param.Code	Units	Lab MDL 1	Result 1
EBP	4-Mar-24	Al-D	mg/L	0.003	<0.0030
EBP	4-Mar-24	As-D	mg/L	0.0001	0.00017
EBP	4-Mar-24	Ba-D	mg/L	0.001	<0.0010
EBP	4-Mar-24	B-D	mg/L	0.05	<0.050
EBP	4-Mar-24	Be-D	mg/L	0.0001	<0.00010
EBP	4-Mar-24	Ca-D	mg/L	0.05	0.589
EBP	4-Mar-24	Cd-D	mg/L	0.00001	0.000025
EBP	4-Mar-24	Co-D	mg/L	0.0002	<0.00020
EBP	4-Mar-24	Cr-D	mg/L	0.001	<0.0010
EBP	4-Mar-24	Cu-D	mg/L	0.0002	0.00161
EBP	4-Mar-24	Fe-D	mg/L	0.005	0.0070
EBP	4-Mar-24	Hard-D	mg/L	0.5	1.75
EBP	4-Mar-24	K-D	mg/L	0.05	0.061
EBP	4-Mar-24	Li-D	mg/L	0.002	<0.0020
EBP	4-Mar-24	Mg-D	mg/L	0.05	0.068
EBP	4-Mar-24	Mn-D	mg/L	0.001	<0.0010
EBP	4-Mar-24	Mo-D	mg/L	0.001	<0.0010
EBP	4-Mar-24	Na-D	mg/L	0.05	0.152
EBP	4-Mar-24	Ni-D	mg/L	0.001	0.0014
EBP	4-Mar-24	Pb-D	mg/L	0.0002	<0.00020
EBP	4-Mar-24	Sb-D	mg/L	0.0005	<0.00050
EBP	4-Mar-24	S-D	mg/L	3	<3.0
EBP	4-Mar-24	Se-D	mg/L	0.0001	<0.00010
EBP	4-Mar-24	Si-D	mg/L	0.1	<0.10
EBP	4-Mar-24	Sn-D	mg/L	0.005	<0.0050
EBP	4-Mar-24	SO4-D	mg/L	1	<1.0
EBP	4-Mar-24	Sr-D	mg/L	0.001	0.0029
EBP	4-Mar-24	Ti-D	mg/L	0.005	<0.0050
EBP	4-Mar-24	Tl-D	mg/L	0.00001	<0.000010
EBP	4-Mar-24	U-D	mg/L	0.0001	<0.00010
EBP	4-Mar-24	V-D	mg/L	0.005	<0.0050
EBP	4-Mar-24	Zn-D	mg/L	0.005	<0.0050
EBP	4-Mar-24	Zr-D	mg/L	0.0001	<0.00010