

Table 1 - Field and Laboratory Results for Groundwater - October 2020

Analyte	Units	PQL	ANZECC 2000 FW 95%	EPL Groundwater Trigger Levels Licence 6269	Field_ID	BH01-2	BH1	BH2	BH3	BH4
					LocCode	BH01-2	BH1	BH2	BH3	BH4
					WellCode					
					Sampled Date	27-04-21	27-04-21	27-04-21	27-04-21	27-04-21
					NEPM 2013 Table 1C GILs, Fresh Waters					
Field	Dissolved Oxygen (Filtered)	mg/L				9.6	9.3	9.3	9.3	9.5
	EC (field)	uS/cm		1065		1480	60	1530	1930	1830
	pH (Field)	pH_Units		6.5 - 8.0		6.6	6.2	6.8	6.3	6.5
	PID	ppm				-	-	-	-	-
	Temp	oC				20.1	20.1	19.6	20.6	20.2
Ion Balance	Magnesium (Filtered)	mg/L	0.5	10.05		10	<0.5	17	30	36
Miscellaneous Inorganics	Ammonia as N	mg/L	0.005	0.9		0.031	1.3	0.096	0.085	0.11
	Nitrate (as N)	mg/L	0.005	0.7		0.15	<0.005	<0.005	<0.005	0.006

Notes

Only EPL Trigger Levels exceedances highlighted  
DO mg/L interpolated based on field reading of DO %

Table 2 - Field and Laboratory Results for Surface water - October and November 2020

Analytes	Units	PQL	ANZECC 2000 FW 95%	EPL Surface Water Trigger Levels Licence 6269	Field_ID	L8	S4	S5	S6	S7
					LocCode	L8	S4	S5	S6	S7
					WellCode					
					Sampled Date	28-04-21	28-04-21	27-04-21	27-04-21	28-04-21
					NEPM 2013 Table 1C GILs, Fresh Waters					
Field	Dissolved Oxygen (Filtered)	mg/L		12.057		11.5	12.2	11.5	11.1	13.3
	EC (field)	uS/cm		1065		2360	150	490	180	760
	pH (Field)	pH_Units		6.5 - 8.0		7.6	7.7	7.3	7.1	7.8
	Temp	oC				18.6	16.5	18.3	18.1	17.8
HM in water - dissolved	Iron (Filtered)	ug/L	0.01	1840		2500	440	1200	1400	1500
	Manganese (Filtered)	ug/L	0.005	1900	1900	620	22	60	160	260
HM in water - total	Iron	ug/L	0.01	1840		-	870	3300	2300	3200
	Manganese	ug/L	0.005	1900	1900	-	23	210	170	270
Ion Balance	Alkalinity (Carbonate)	mg/L	5			<5	<5	<5	<5	<5
	Alkalinity (Hydroxide) as CaCO3	mg/L	5			<5	<5	<5	<5	<5
	Alkalinity (total) as CaCO3	mg/L	5	12.283		720	10	110	49	190
	Alkalinity (Bicarbonate as CaCO3)	mg/L	5			720	10	110	49	190
	Calcium (Filtered)	mg/L	0.5	2.05		51	1.1	20	7	38
	Chloride	mg/L	1	54.49		380	27	62	43	100
	Ionic Balance	%				-14	-8	-2	5	-6
	Magnesium (Filtered)	mg/L	0.5	10.05		21	1.6	7.3	5.2	9.3
	Potassium (Filtered)	mg/L	0.5	2.282		52	1.3	10	5.4	18
	Sodium (Filtered)	mg/L	0.5	34		310	15	50	36	75
Miscellaneous Inorganics	Sulphate	mg/L	1	3.1		8	3	10	2	26
	Ammonia as N	mg/L	0.005	0.9		100	0.1	6.7	0.67	10
	Fluoride	mg/L	0.1			<0.1	<0.1	<0.1	<0.1	<0.1
	Nitrate (as N)	mg/L	0.005	0.7		<0.005	<0.005	0.04	0.03	0.03
	TOC	mg/L	1		33.1		70	16	29	24
Total Phenolics	TSS	mg/L	5	33.415		26	12	16	6	94
	Phenolics Total	mg/L	0.05	0.32		<0.05	<0.05	<0.05	<0.05	<0.05

Notes

Only EPL Trigger Level Exceedances highlighted  
DO mg/L interpolated based on field reading of DO %