

Table F5 - Field and Laboratory Results for Groundwater - April 2023 - Q3

Analyte	Units	ANZECC 2000 FW 95%	EPL Groundwater Trigger Levels Licence 6269	BH1	BH2	BH3	BH4	BH1-2	
				MP1	MP2	MP3	MP12	MP14	
				-	27/04/2023	27/04/2023	27/04/2023	27/04/2023	
Field	Dissolved Oxygen (Filtered)	mg/L		-	22.2	6.1	95.0	32.10	
	EC (Field)	µS/cm		1065	916	1120	1110	900.00	
	pH (Field)	pH_Units		6.5 - 8.0	<1	6.41	5.75	5.35	5.60
	PID (Top of Well)	ppm		<1	<1	<1	<1	<1	
	PID (Groundwater Headspace)	ppm		-	<1	<1	<1	<1	
	Temp	°C		-	22.20	6.10	95.00	32.10	
Ion Balance	Magnesium (Filtered)	mg/L		10.05	17	40	31	18	
Miscellaneous Inorganics	Ammonia as N	mg/L	0.9	0.9	-	0.067	0.074	0.095	0.024
	Nitrate (as N)	mg/L	0.7	0.7	-	<0.005	<0.005	<0.005	0.007

Notes

Only EPL Trigger Levels exceedances highlighted

Table F6 - Field and Laboratory Results for Surface water - April 2023 - Q3

Analytes	Units	ANZECC 2000 FW 95%	EPL Groundwater Trigger Levels Licence 6269	S4	S5	S6	S7	L8	
				MP4	MP5	MP6	MP7	MP8	
				26/04/2023	26/04/2023	26/04/2023	26/04/2023	26/04/2023	
Field	Dissolved Oxygen (Filtered)	mg/L		12.057	2.55	1.47	1.77	7.77	8.46
	EC (field)	µS/cm		1065	71	415	361	402	1000
	pH (Field)	pH_Units		6.5 - 8.0	5.4	6.2	6.2	8.8	6.8
	Temp	°C			18.81	18.76	19	22.45	19.4
	PID Headspace	ppm		<1	<1	<1	<1	<1	<1
HM in water - dissolved	Iron (Filtered)	mg/L		1.84	0.42	0.26	0.26	0.02	7.2
	Manganese (Filtered)	mg/L	1.9	1.9	0.018	0.083	0.042	0.012	0.39
HM in water - total	Iron	mg/L		1.84	1.2	2.1	1.4	0.86	7.4
	Manganese	mg/L	1.9	1.9	0.029	0.12	0.057	0.14	0.48
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		12.283	7	56	25	62	790
	Alkalinity (Bicarbonate as	mg/L			7	56	25	62	790
	Calcium (Filtered)	mg/L		2.05	1	24	15	28	52
	Chloride	mg/L		54.49	29	170	130	180	820
	Ionic Balance	%			-4.0	-5	-5	-4	-15
	Magnesium (Filtered)	mg/L		10.05	2	9.2	8.5	9.6	29
	Potassium (Filtered)	mg/L		2.282	1	14	9.5	15	110
	Sodium (Filtered)	mg/L		34	14	89	62	94	490
Sulphate	mg/L		3.1	<1	46	30	48	42	
Miscellaneous Inorganics	Ammonia as N	mg/L	0.9	0.9	0.017	0.1	0.006	0.042	94
	Fluoride	mg/L			<0.1	<0.1	<0.1	<0.1	0.1
	Nitrate (as N)	mg/L	0.7	0.7	0.098	0.36	0.065	0.63	0.058
	TOC	mg/L		33.1	23	17	14	16	150
	TSS	mg/L		33.415	7	19	17	56	38
Total Phenolics	Phenolics Total	mg/L	0.32	0.32	<0.05	<0.05	<0.05	<0.05	<0.05

Notes

Only EPL Trigger Level Exceedances highlighted