



**Licence No 4627 Publication of Monitoring Data
M8 St Peters Interchange –10-16 Albert Street, St Peters**

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Ambient Monitoring – Groundwater Quality

EPL No: 4627

Date of Sampling 15, 16 & 19 December 2022 Date Received 14 June 2023 Date of Publication before 28 June 2023

Pollutant	Unit	Frequency	Monitoring Point (EPA Identification Number)										
			LDS-BH-3057B (2)	LDS-BH-3059B (3)	LDS-BH-3087 (4)*	LDS-BH-3088 (5)*	LDS-BH-3089A (6)	LDS-BH-3090 (7)	LDS-BH-3091A (8)	LDS-GW-MW3 (9)	MW4D (10)	WCX-BH157A (11)	LDS-BH-3907A (12)
Alkalinity (as calcium carbonate)	milligrams per litre	Quarterly	210	620	DRY	2200	440	120	440	600	670	75	390
Ammonia	milligrams per litre	Quarterly	2.2	6.5	DRY	160	1.7	3.2	7.2	1.2	0.60	1.8	3.6
Bicarbonate	milligrams per litre	Quarterly	260	760	DRY	2700	500	-	540	730	810	91	480
Calcium	milligrams per litre	Quarterly	25	84	DRY	78	100	96	130	440	170	26	57
Chloride	milligrams per litre	Quarterly	54	180	DRY	640	140	180	120	5700	1900	17	290
Electrical Conductivity	Microsiemens per centimetre	Quarterly	2357	1299	DRY	5022	1849	1341	1302	14434	6422	6462	2622
Fluoride	milligrams per litre	Quarterly	0.23	0.59	DRY	0.28	1.3	<0.10	0.44	<0.4	<0.1	0.29	0.58
Magnesium	milligrams per litre	Quarterly	18	21	DRY	54	40	46	30	580	74	6	40
Nitrate	milligrams per litre	Quarterly	0.93	0.14	DRY	<0.025	0.92	<0.005	0.094	<0.1	2.7	0.69	0.053

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Nitrite	milligrams per litre	Quarterly	0.094	0.034	DRY	0.19	0.13	<0.005	<0.005	<0.005	<0.005	<0.005	0.016
pH (field)	pH units	Quarterly	7.93	7.12	DRY	6.72	7.61	6.59	6.79	6.84	7.09	6.83	8.33
Phosphorus	milligrams per litre	Quarterly	0.17	0.32	DRY	0.61	0.17	0.02	4.2	0.79	0.03	0.42	0.98
Potassium	milligrams per litre	Quarterly	17	17	DRY	180	51	36	21	45	20	5.7	41
Redox Potential	millivolts	Quarterly	-79.9	-93.9	DRY	-41.7	41.5	-71.8	-71.5	-93.9	7.09	-51.2	-104.6
Sodium	milligrams per litre	Quarterly	82	230	DRY	790	230	170	120	2600	1200	23	330
Sulphate	milligrams per litre	Quarterly	91	460	DRY	7	270	280	120	1500	56	41	200
Standing Water Level	Metres AHD	Quarterly	0.058	1.619	DRY	-14.725	-0.952	6.19	0.273	-8.91	-13.271	-5.189	-3.131
Temperature	Degrees Celsius	Quarterly	21.5	19.8	DRY	22.0	24.6	23.6	21.8	21.4	24.8	23.1	21.7
Total Dissolved Solids	milligrams per litre	Quarterly	570	2000	DRY	2700	1100	140	840	11000	3800	180	1800
Total Organic Carbon	milligrams per litre	Quarterly	9.2	29	DRY	72	8.4	25	37	11	5.2	4.5	57

NOTES:

- EPL - Environment Protection Licence
- < - less than
- mAHD - metres Australian Height Datum

LDS-BH-3087 (4)* and LDS-BH-3088 (5)* - these bores are screened into waste and results are leachate and not groundwater.

LDS-BH-3090 - the Standing Water Level is metres below Top of Casing