



**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 3, 7 and 9 February 2022

Date Received

5 May 2022

Date of Publication

24 May 2022

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	750	880	NR1	2300	4790	210	450	NR2	650	430	480
Ammonia	milligrams per litre	Quarterly	11	7.7	NR1	160	2.2	2.9	6.9	NR2	1.9	0.72	4.9
Bicarbonate	milligrams per litre	Quarterly	750	880	NR1	2300	490	210	450	NR2	650	430	480
Calcium	milligrams per litre	Quarterly	95	560	NR1	74	56	87	160	NR2	140	15	50
Chloride	milligrams per litre	Quarterly	240	320	NR1	940	170	340	150	NR2	1900	230	300
Electrical Conductivity	Microsiemens per centimetre	Quarterly	2801	6147	NR1	6673	1752	2046	1325	NR2	7227	1786	1952
Fluoride	milligrams per litre	Quarterly	0.87	0.68	NR1	0.34	0.73	0.8	0.44	NR2	0.18	0.44	0.52
Magnesium	milligrams per litre	Quarterly	90	250	NR1	57	40	32	28	NR2	89	7	36
Nitrate	milligrams per litre	Quarterly	0.29	<0.025	NR1	<0.05	0.48	<0.005	0.026	NR2	0.49	0.007	0.011

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Nitrite	milligrams per litre	Quarterly	<0.005	<0.005	NR1	<0.005	0.028	<0.005	<0.005	NR2	<0.005	<0.005	0.005
pH	pH units	Quarterly	7.34	6.74	NR1	7.36	7.23	6.68	6.69	NR2	7.03	7.39	7.04
Phosphorus	milligrams per litre	Quarterly	0.32	2.1	NR1	1.0	0.64	0.11	1.7	NR2	0.05	0.31	1
Potassium	milligrams per litre	Quarterly	78	82	NR1	200	46	44	19	NR2	22	6.7	34
Redox Potential	millivolts	Quarterly	-231.8	-13.5	NR1	91.4	82.2	28	-46.2	NR2	-27.7	-51.2	56.4
Sodium	milligrams per litre	Quarterly	390	720	NR1	880	260	300	130	NR2	1300	260	310
Sulphate	milligrams per litre	Quarterly	340	2000	NR1	10	250	200	160	NR2	62	99	110
Standing Water Level	Metres AHD	Quarterly	-0.2	1.31	NR1	-16.18	-1.18	6.3	0.13	NR2	-9.95	0.99	-3.13
Temperature	Degrees Celsius	Quarterly	24.5	25.8	NR1	25.3	24	21.4	22.3	NR2	25.1	22.9	21.7
Total Dissolved Solids	milligrams per litre	Quarterly	1800	4200	NR1	3200	1000	1300	900	NR2	4200	670	2900
Total Organic Carbon	milligrams per litre	Quarterly	26	48	NR1	85	8.4	16	22	NR2	5.2	2.6	2.3

NOTES:

- EPL - Environment Protection Licence  
 < - less than  
 mAHD - metres Australian Height Datum  
 NR1 - no results – the monitoring well has been damaged by construction activities – repairs are scheduled for next monitoring event  
 NR2 - no result – the hydrosleeve used for sampling was damaged and replaced – this disturbed the groundwater and a representative sample is not possible until the next sampling event.

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