



**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 8, 10, and 11 December 2021

Date Received

14 January 2021

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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	770	930	4100	2400	490	420	360	510	710	360	520
Ammonia	milligrams per litre	Quarterly	8.8	6.4	170	200	2.4	5.7	7.3	1.4	2.3	2.5	4.2
Bicarbonate	milligrams per litre	Quarterly	770	930	4100	2400	490	420	360	510	710	360	520
Calcium	milligrams per litre	Quarterly	77	390	50	61	32	150	41	410	130	20	90
Chloride	milligrams per litre	Quarterly	240	290	1200	870	130	370	72	5100	1900	140	220
Electrical Conductivity	Microsiemens per centimetre	Quarterly	2810	5193	10262	7306	2501	2629	1036	15193	6627	1359	1630
Fluoride	milligrams per litre	Quarterly	0.83	0.7	0.55	0.36	0.51	0.14	0.3	0.27	0.22	0.27	0.58
Magnesium	milligrams per litre	Quarterly	82	190	47	49	31	70	22	530	88	6.9	29
Nitrate	milligrams per litre	Quarterly	<0.025	<0.025	<0.05	<0.05	0.051	0.027	0.014	<0.1	<0.05	0.025	0.017
Nitrite	milligrams per litre	Quarterly	<0.005	<0.005	<0.005	<0.005	0.007	0.097	<0.005	<0.005	0.077	0.007	<0.005
pH	pH units	Quarterly	7.39	7.11	7.39	7.02	7.08	6.77	6.98	6.72	6.92	7.44	6.85

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Phosphorus	milligrams per litre	Quarterly	0.28	0.21	1.5	0.88	0.27	0.58	1.9	0.88	0.1	2.5	1.2
Potassium	milligrams per litre	Quarterly	72	57	240	230	37	64	16	45	19	7.1	31
Redox Potential	millivolts	Quarterly	-101.2	-101.1	-33.8	-42.6	-7.9	-16.4	-38.4	-20.8	-9.2	3.10	16.8
Sodium	milligrams per litre	Quarterly	390	700	1500	940	250	280	63	2300	1100	210	280
Sulphate	milligrams per litre	Quarterly	420	2000	<1	2.4	120	440	25	1000	110	32	61
Standing Water Level	Metres below top of casing	Quarterly	3.17	1.34	19.55	9.87	6.44	6.38	3.81	14.4	27.01	19.45	9.79
Temperature	Degrees Celsius	Quarterly	24.1	22.4	27.4	27.8	21.9	23.1	24.2	21.3	22.6	20.4	23.1
Total Dissolved Solids	milligrams per litre	Quarterly	1900	4500	6000	3700	990	1700	570	13000	4100	650	1100
Total Organic Carbon	milligrams per litre	Quarterly	24	28	130	86	9.3	20	36	15	8	11	38

NOTES:

EPL - Environment Protection Licence  
 < - less than

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