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Ambient Monitoring – Groundwater Quality

EPL No: 4627

Date of Sampling 6, 21, 22 and 25 September 2023

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8 February 2024

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9 February 2024

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	NR1 - Well inaccessible due to Gateway Construction works	NR2	2,500	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Aluminium	milligrams per litre	Yearly		<0.005	0.018	0.006	0.006	0.014	0.007	0.005	0.061	0.035	0.026
Ammonia	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Arsenic	milligrams per litre	Yearly		0.001	0.28	0.002	<0.001	0.002	<0.001	<0.001	0.005	<0.001	0.01
Barium	milligrams per litre	Yearly		0.032	2	0.65	0.064	0.067	0.049	0.047	0.034	0.028	0.14
Benzene	milligrams per litre	Yearly		<0.0005	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bicarbonate	milligrams per litre	Quarterly		NR2	3,050	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Cadmium	milligrams per litre	Yearly		<0.0001	0.0009	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2

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Chloride	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Chromium (hexavalent)	milligrams per litre	Yearly		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium (total)	milligrams per litre	Yearly	NR1 - Well inaccessible due to Gateway Construction works	<0.001	0.02	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	milligrams per litre	Yearly		<0.001	0.002	0.002	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	milligrams per litre	Yearly		<0.001	<0.001	0.001	0.002	0.001	<0.001	0.001	<0.001	<0.001	<0.001
Electrical Conductivity	Microsiemens per centimetre	Quarterly		4376	NR	5806	1719	1363	1462	15435	466.3	832	2136
Ethyl Benzene	milligrams per litre	Yearly		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Fluoride	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Hydrocarbons	milligrams per litre	Yearly		<0.32	7.2	11	0.5	0.71	<0.32	<0.32	<0.32	0.62	0.39
Iron	milligrams per litre	Yearly		0.18	2.8	0.24	<0.005	1.2	0.16	<0.005	<0.005	0.33	0.02
Lead	milligrams per litre	Yearly		<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Manganese	milligrams per litre	Yearly		0.63	0.065	0.11	0.032	0.62	0.41	0.14	0.002	0.16	0.37
Mercury	milligrams per litre	Yearly		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	milligrams per litre	Yearly		0.002	0.005	0.014	0.001	0.002	<0.001	0.002	<0.001	0.001	0.019
Nitrate	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Nitrite	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Organochlorine Pesticides	milligrams per litre	Yearly		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Organophosphorus Pesticides	milligrams per litre	Yearly		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
pH	pH units	Quarterly		6.89	NR	7.34	6.46	6.81	6.81	7.45	8.18	7.22	6.84

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Phenols	milligrams per litre	Yearly	NR1 - Well inaccessible due to Gateway Construction works	<0.0005	0.0009	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Phosphorus	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Polycyclic Aromatic Hydrocarbons	milligrams per litre	Yearly		<0.001	0.004	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Potassium	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Redox Potential	millivolts	Quarterly		-60.3	NR	-0.3	-6	14.7	-21.4	-19.6	12.7	-413.8	68.6
Sodium	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Sulphate	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Standing Water Level	mAHD	Quarterly		1.609	-16.71	-17.025	-2.022	-3.917	-0.747	-9.840	-15.462	-5.06	-4.001
Temperature	Degrees Celsius	Quarterly		18.4	NR	24.1	21.7	19.4	19.9	19.2	22	18.7	23.5
Toluene	milligrams per litre	Yearly		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Dissolved Solids	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Total Organic Carbon	milligrams per litre	Quarterly		NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2	NR2
Xylene	milligrams per litre	Yearly		<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Zinc	milligrams per litre	Yearly	<0.005	0.049	0.01	0.014	0.008	<0.005	0.008	0.014	0.005	<0.005	

NOTES:

- EPL - Environment Protection Licence
- < - less than
- mAHD - metres Australian Height Datum
- NR - No field reading taken.
- NR1 - No result - Well inaccessible due to Gateway construction works.
- NR2 - No result - Only annual analytes being tested. Quarterly analytes mistakenly missed.

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