

Groundwater Monitoring

EPL No:	11436
Reporting period	Q3 2020-2021

		Monitoring Location Identification									
		Date of Sampling	4/6/2021	4/6/2021	4/6/2021	4/6/2021	24/6/2021	23/6/2021	23/6/2021	23/6/2021	23/6/2021
		Date of Reported Results	22/6/2021	22/6/2021	22/6/2021	-	6/7/2021	6/7/2021	6/7/2021	6/7/2021	6/7/2021
Pollutant	Unit*	Frequency	MW8S (55)	MW8D (56)	MW9S (57)	MW10S (58)	MB28 (60)	MB33 (66)	MB34 (67)	MB35 (68)	
Alkalinity (as CaCO3)	mg/L	Quarterly	254	56	247		444	222	262	130	
Nitrogen (ammonia)	mg/L	Quarterly	<0.1	<0.1	<0.1		<0.1	0.9	0.1	4.4	
Chloride	mg/L	Quarterly	819	524	1980		2750	127	284	252	
Calcium	mg/L	Quarterly	209	110	343		271	85.9	74	473	
Magnesium	mg/L	Quarterly	674	302	870		624	0.06	128	433	
Potassium	mg/L	Quarterly	2.9	2	2.2		2	109	5.8	93.7	
Sodium	mg/L	Quarterly	916	434	1440		881	250	89.2	835	
pH	pH	Quarterly	7.02	6.92	6.83		6.79	11.5	7.8	5.79	
Sulphate	mg/L	Quarterly	3860	1380	4320		772	421	219	10500	
Total Dissolved Solids	mg/L	Quarterly	7410	9920	9920		6210	1180	1220	17000	
Standing Water Level	m	Quarterly	6.5	6.77	2.94		6.6	44.84	57.91	40.52	
Chromium (Hex)	mg/L	Yearly	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.05	
Aluminium	mg/L	Yearly	0.02	<0.02	0.03		0.04	0.15	<0.02	1.29	
Arsenic	mg/L	Yearly	0.002	<0.001	<0.001		<0.001	<0.001	<0.001	0.002	
Cadmium	mg/L	Yearly	0.12	0.0696	0.00136		0.0268	<0.00005	0.00547	0.00994	
Cobalt	mg/L	Yearly	0.0078	0.0047	0.0148		0.0034	0.0004	0.0048	1.43	
Copper	mg/L	Yearly	0.018	0.035	0.009		0.01	0.009	<0.001	0.003	
Lead	mg/L	Yearly	0.0014	<0.0004	0.0033		0.0004	<0.0002	<0.0002	<0.0002	
Manganese	mg/L	Yearly	0.39	1.12	0.0155		0.0432	0.0069	1.18	53.4	
Mercury	mg/L	Yearly	<0.0001	<0.0001	0.0003	Dry	0.0002	<0.0001	<0.0001	0.0009	
Zinc	mg/L	Yearly	12.1	7.28	0.207		1.03	0.043	2.07	515	
Fluoride	mg/L	Yearly	0.82	0.37	1.2		0.61	0.3	0.64	4.7	
Nitrate	mg/L	Yearly	<0.05	27	1.09		4.22	0.07	<0.05	<0.05	
Nitrite	mg/L	Yearly	<0.01	<0.01	<0.01		<0.01	0.12	<0.01	0.21	
Organo-chlorine pesticides	mg/L	Yearly	<0.0135	<0.0135	<0.0135		<0.0135	<0.0135	<0.0135	<0.0135	
Organo-phosphate pesticides	mg/L	Yearly	<0.014	<0.014	<0.014		<0.014	<0.014	<0.014	<0.014	
Polycyclic Aromatic Hydrocarbons	µg/L	Yearly	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	
TPH C6-C9	µg/L	Yearly	<20	<20	<20		<20	<20	<20	<20	
TPH C10-C14	µg/L	Yearly	<50	<50	<50		100	<50	<50	100	
TPH C15- C28	µg/L	Yearly	<100	<100	<100		130	<100	<100	360	
TPH C29-C36	µg/L	Yearly	<50	<50	<50		<50	<50	<50	<50	
Benzene	µg/L	Yearly	<1	<1	<1		<1	<1	<1	<1	
Toluene	µg/L	Yearly	<2	<2	<2		<2	<2	<2	<2	
Ethyl Benzene	µg/L	Yearly	<2	<2	<2		<2	<2	<2	<2	
Xylene	µg/L	Yearly	<2	<2	<2		<2	<2	<2	<2	
Total Phenols	mg/L	Yearly	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	
Total Organic Carbon	mg/L	Yearly	8	5	4		7	7	8	110	
Barium	mg/L	Yearly	0.0276	0.014	0.0178		0.0419	0.0419	0.0337	0.0494	
Chromium (Total)	mg/L	Yearly	0.001	<0.001	0.003		0.001	0.001	<0.001	0.001	

* Unit of Measure Abbreviations	
Metres	m
Microsiemens per centimetre	µS/cm
Milligrams per Litre	mg/L
Micrograms per Litre	µg/L

[Veolia Environmental Services Pty Ltd EPL 11436](#)

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