

EPA Licence Report 2023-2024 Groundwater

Monitoring Point 2						
Pollutant	Unit	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	mg/l	4	4	403	476	663
Ammonia	mg/l	4	4	0.1	0.025	0.1
Calcium	mg/l	4	4	200	285	488
Chloride*	mg/l	4	4	6450	7865	8840
Chlorinated volatile compounds	mg/l	4	4	0.002	0.00225	0.003
Conductivity	dS/m	4	4	20.8	22.25	23.6
Fluoride*	mg/l	4	4	0.79	0.9225	1
Iron*	mg/l	4	4	0.001	0.6825	2.69
Magnesium	mg/l	4	4	502	684.5	768
Manganese*	mg/l	4	4	0.004	0.13125	0.503
Nitrate	mg/l	4	4	0.2	16.225	38
pH	pH	4	4	6.4	6.825	7.2
Potassium	mg/l	4	4	108	111	116
Sodium*	mg/l	4	4	2940	3450	3850
Standing Water Level (Bore depth)	m (BGL)	4	4	5.2	5.3	5.4
Sulphate	mg/l	4	4	582	1285.5	1600
Total organic carbon	mg/l	4	4	1.5	5.3	7.2
Total Phenolics	mg/l	4	4	0.2	0.35	0.6

**Monitoring Point 3**

Pollutant	Unit	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	mg/l	4	4	1090	1095	1110
Ammonia	mg/l	4	4	0.1	0.175	0.2
Calcium	mg/l	4	4	233	289.25	332
Chloride*	mg/l	4	4	7690	10020	12600
Chlorinated volatile compounds	mg/l	4	4	0.002	0.00225	0.003
Conductivity	dS/m	4	4	30.6	30.875	31.1
Fluoride*	mg/l	4	4	0.69	0.8475	1
Iron*	mg/l	4	4	0.01	7.518	30.02
Magnesium	mg/l	4	4	780	858	955
Manganese*	mg/l	4	4	1.194	1.256	1.28
Nitrate	mg/l	4	4	0.1	1.5	1
pH	pH	4	4	6.4	6.8	7.0
Potassium	mg/l	4	4	107	132.25	168
Sodium*	mg/l	4	4	3280	4507.5	5150
Standing Water Level (Bore depth 20.0)	m (BGL)	4	4	6.9	7.037	7.15
Sulphate	mg/l	4	4	2300	2522.5	3040
Total organic carbon	mg/l	4	4	1.5	1.7	1.8
Total Phenolics	mg/l	4	4	0.2	0.2	0.2

**Monitoring Point 4**

Pollutant	Unit	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	mg/l	4	4	1080	1095	1110
Ammonia	mg/l	4	4	0.1	0.175	0.2
Calcium	mg/l	4	4	336	345.75	366
Chloride*	mg/l	4	4	7550	7132.50	1100
Chlorinated volatile compounds	mg/l	4	4	0.002	0.00225	0.003
Conductivity	dS/m	4	4	27.80	30.0	30.9
Fluoride*	mg/l	4	4	0.8	0.9075	1
Iron*	mg/l	4	4	0.007	0.0547	0.19
Magnesium	mg/l	4	4	702	880.25	977
Manganese*	mg/l	4	4	0.652	1.08825	1.43
Nitrate	mg/l	4	4	0.1	0.35	1
pH	pH	4	4	0.2	5.2	7
Potassium	mg/l	4	4	112	135	174
Sodium*	mg/l	4	4	3380	4546	6140
Standing Water Level (Bore depth 20.0)	m (BGL)	4	4	7	7.775	8.3
Sulphate	mg/l	4	4	2630	3207.5	3600
Total organic carbon	mg/l	4	4	1.7	2.25	4.7
Total Phenolics	mg/l	4	4	0.2	0.2	0.2

**Monitoring Point 5**

Pollutant	Unit	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Alkalinity (as calcium carbonate)	mg/l	4	4	407	479.5	679
Ammonia	mg/l	4	4	0.1	0.1	0.1
Calcium	mg/l	4	4	226	359	501
Chloride*	mg/l	4	4	7500	8377.5	9990
Chlorinated volatile compounds	mg/l	4	4	0.002	0.00225	0.003
Conductivity	dS/m	4	4	20.9	22.35	22.8
Fluoride*	mg/l	4	4	0.7	0.8675	1
Iron*	mg/l	4	4	0.01	1.01	3.91
Magnesium	mg/l	4	4	525	734.5	999
Manganese*	mg/l	4	4	0.005	0.181	0.701
Nitrate	mg/l	4	4	0.2	16.225	40
pH	pH	4	4	6.3	6.725	7.6
Potassium	mg/l	4	4	103	111	116
Sodium*	mg/l	4	4	2890	3425	3700
Standing Water Level (Bore depth 25.0)	m (BGL)	4	4	14.3	14.65	15
Sulphate	mg/l	4	4	540	1315	1800
Total organic carbon	mg/l	4	4	1.5	4.7	6.8
Total Phenolics	mg/l	4	4	0.2	0.275	0.5