

## Groundwater Monitoring 2021/2022

Monitoring Point 2										
Pollutant	Unit	1st qtr	2nd qtr	3rd qtr	4th qtr	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
		402	427	419	420	4	4	419	417	427
Ammonia	mg/l	0.1	0.1	0.1	0.1	4	4	0.1	0.1	0.1
Calcium	mg/l	244	285	274	177	4	4	177	245	285
Chloride*	mg/l	8750	9470	8410	8340	4	4	8340	8743.5	9470
Chlorinated volatile compounds	mg/l	0.002	0.002	0.002	0.002	4	4	0.002	0.002	0.002
Conductivity	dS/m	23.8	24.4	24.3	24.5	4	4	23.8	24.25	24.5
Fluoride*	mg/l	1	1	2	1	4	4	1	1.25	2
Iron*	mg/l	0.01	0.001	0.01	0.7	4	4	0.01	0.18	0.7
Magnesium	mg/l	523	619	592	388	4	4	388	530.5	6.19
Manganese*	mg/l	0.009	0.003	0.013	0.004	4	4	0.003	0.007	0.013
Nitrate	mg/l	26.6	21	22	39	4	4	21	27.15	39
pH	pH	7.3	7.7	7.5	6.9	4	4	6.9	7.35	7.7
Potassium	mg/l	102	92.9	66.2	88	4	4	66.2	87.2	102
Sodium*	mg/l	4390	5070	4120	1930	4	4	1930	3877.5	5070
Standing Water Level (Bore depth	m (BGL)	5.7	5	5.2	5.2	4	4	5	5.27	5.7
Sulphate	mg/l	1310	1890	1920	1010	4	4	1010	1532.5	1920
Total organic carbon	mg/l	1.7	5.9	6.1	5.6	4	4	1.7	4.82	6.1
Total Phenolics	mg/l	0.2	0.3	0.2	0.2	4	4	0.2	0.23	0.3
Monitoring Point 3										
Pollutant	Unit	1st qtr	2nd qtr	3rd qtr	4th qtr	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
		659	668	413	1080	4	4	413	705	1080
Alkalinity (as calcium carbonate)	mg/l	0.1	0.3	0.1	0.5	4	4	0.1	0.25	0.5
Ammonia	mg/l	436	530	279	253	4	4	253	374.5	530
Calcium	mg/l	10900	7830	8960	9920	4	4	7830	9402.5	10900
Chloride*	mg/l	0.002	0.002	0.002	0.002	4	4	0.002	0.002	0.002
Chlorinated volatile compounds	mg/l	0.002	0.002	0.002	0.002	4	4	0.002	0.002	0.002
Conductivity	dS/m	20.7	20.8	24.2	31.1	4	4	20.7	24.2	31.1
Fluoride*	mg/l	1	1	2	1	4	4	1	1.25	2
Iron*	mg/l	2.07	0.75	0.01	0.01	4	4	0.01	0.71	2.07
Magnesium	mg/l	681	821	605	681	4	4	605	697	821
Manganese*	mg/l	0.939	1.03	0.011	0.142	4	4	0.011	0.53	1.03
Nitrate	mg/l	0.4	0.1	24	35	4	4	0.1	14.8	35
pH	pH	7	7.1	7.5	6.8	4	4	7	7.1	7.5
Potassium	mg/l	112	105	66.7	111	4	4	66.7	98.6	112
Sodium*	mg/l	2930	3150	3990	2090	4	4	2090	3040	3990
Standing Water Level (Bore depth 20.0)	m (BGL)	7	7.3	7.1	7	4	4	7	7.1	7.3
Sulphate	mg/l	410	518	2080	2020	4	4	410	1257	2080
Total organic carbon	mg/l	1.1	3.2	5.8	1.4	4	4	1.1	2.87	5.8
Total Phenolics	mg/l	0.2	0.2	0.2	0.2	4	4	0.2	0.2	0.2
Monitoring Point 4										
Pollutant	Unit	1st qtr	2nd qtr	3rd qtr	4th qtr	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
		657	429	1090	110	4	4	110	571.5	1090
Alkalinity (as calcium carbonate)	mg/l	0.1	0.1	0.1	0.6	4	4	0.1	0.22	0.6
Ammonia	mg/l	439	280	389	253	4	4	253	340	439
Calcium	mg/l	9330	8690	10000	9220	4	4	8690	9310	10000
Chloride*	mg/l	0.002	0.002	0.002	0.002	4	4	0.002	0.002	0.002
Chlorinated volatile compounds	mg/l	0.002	0.002	0.002	0.002	4	4	0.002	0.002	0.002
Conductivity	dS/m	21	24.3	29.5	30.5	4	4	21	26.3	30.5
Fluoride*	mg/l	1	1	2	1	4	4	1	1.25	2
Iron*	mg/l	1.96	0.01	0.01	0.01	4	4	0.01	0.49	1.96
Magnesium	mg/l	684	610	1020	678	4	4	610	748	1020
Manganese*	mg/l	0.934	0.001	7.3	0.617	4	4	0.001	0.4	0.93
Nitrate	mg/l	0.1	5.5	1	2	4	4	0.1	2.15	5.5
pH	pH	6.9	7.3	7.1	6.7	4	4	6.7	7	7.3
Potassium	mg/l	112	81.2	83.3	110	4	4	81.2	96.6	112
Sodium*	mg/l	2880	5250	5100	2080	4	4	2080	3827.5	5250
Standing Water Level (Bore depth 20.0)	m (BGL)	9	8.6	8.5	8.4	4	4	7.3	8.62	9
Sulphate	mg/l	402	1840	3860	1860	4	4	402	1990.5	3860
Total organic carbon	mg/l	1.4	5.8	3.1	1.3	4	4	1.3	2.9	5.8
Total Phenolics	mg/l	0.2	0.3	0.2	0.2	4	4	0.2	0.22	0.3
Monitoring Point 5(b)										
Pollutant	Unit	1st qtr	2nd qtr	3rd qtr	4th qtr	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
		688	678	687	646	4	4	649	669.75	687
Alkalinity (as calcium carbonate)	mg/l	0.1	0.1	0.1	1.2	4	4	0.1	0.37	1.2
Ammonia	mg/l	446	513	485	279	4	4	279	430.75	513
Calcium	mg/l	9240	8440	7680	7180	4	4	7180	8135	9240
Chloride*	mg/l	0.003	0.003	0.002	0.003	4	4	0.002	0.00275	0.003
Chlorinated volatile compounds	mg/l	0.003	0.003	0.002	0.003	4	4	0.002	0.00275	0.003
Conductivity	dS/m	20.8	20.7	20.5	20.4	4	4	20.4	20.6	20.8
Fluoride*	mg/l	1	1	2	1	4	4	1	1.25	2
Iron*	mg/l	1.08	1.75	1.61	1.91	4	4	1.08	1.58	1.91
Magnesium	mg/l	697	794	750	469	4	4	469	677.5	794
Manganese*	mg/l	0.909	1	1.04	0.984	4	4	0.909	0.98	1.04
Nitrate	mg/l	0.1	0.1	1	14	4	4	0.1	3.8	14
pH	pH	6.9	6.6	7.2	6.6	4	4	6.6	6.825	7.2
Potassium	mg/l	110	94.4	79.3	103	4	4	79.3	96.67	110
Sodium*	mg/l	2770	3040	2590	1550	4	4	1550	2487.5	3040
Standing Water Level (Bore depth 25.0)	m (BGL)	14.5	13.8	13.5	13.4	4	4	13.4	13.8	14.5
Sulphate	mg/l	413	488	525	266	4	4	266	423	525
Total organic carbon	mg/l	0.5	1.9	1.8	2.5	4	4	0.5	1.67	2.5
Total Phenolics	mg/l	0.2	0.2	0.2	0.2	4	4	0.2	0.2	0.2