POLLUTION MONITORING DATA SUMMARY
DENILIQUIN WASTE DISPOSAL DEPOT

Environment Protection Licence 6188 Link to full licence on EPA website:
http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31285&SYSUID=1&LICID=6188
Licensee: Edward River Council. PO Box 270 Deniliquin NSW 2710

Monitoring Point 1
Location: Bore 5196

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31st October 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
												5196															
Alkalinity	mg/l	Yearly		200		250		260		240		2700		0		41		35		33		32		33		68	
Ammonia	mg/l	Every 6 months	0.07	0.08	0.1	0.12	0.11	0.08	0.1	0.09	0.09	<0.01	0.07	0	<0.01	<0.01	0.005	<0.01	0.012	<0.02	0.02	0.043	0.42	0.013	0.01	0.019	0.019
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		<0.001		0.001		0		0.002		<0.001		0.001		<0.001		<0.001		<0.001	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		0		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		90		87		100		110		98		0		31		28		42		60		64		74	
Chloride	mg/l	Yearly		1000		990		1000		990		1100		0		350		390		530		720		770		990	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		<0.1		<0.1		0		0.12		<0.1		<0.1		<0.1		<0.1		<0.1	
Iron	mg/l	Yearly		0.03		0.2		0.09		0.49		1.2		0		0.08		0.03		0.04		0.01		<0.01		0.05	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		<0.01		0		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		140		130		130		130		140		0		38		40		61		87		96		120	
Manganese	mg/l	Yearly		0.76		0.87		0.81		1.2		1.1		0		0.39		<0.01		<0.01		0.018		0.007		0.012	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		0		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	0	<0.01	0.06	0.077	0.11	0.088	0.12	0.083	0.13	0.12	0.13	0.087	0.12	0.26
pH	pH	Every 6 months	6.1	6	6.1	5.9	6.2	5.9	5.9	5.9	5.9	5.9	5.9	0	6.1	6.0	5.7	6.2	5.6	5.9	5.6	5.9	5.6	5.8	5.5	5.8	5.38
Potassium	mg/l	Yearly	22	14	14	14	15	14	13	13	12	14	12	0	4.6	3.9	6.6	4.3	9.1	5.5	11	6.6	11	5.9	11	6.7	14
Sodium	mg/l	Yearly		460		480		460		430		460		0		160		190		240		300		340		380	
Standing Water Level	metres	Every 6 months	82.33	82.28	82.15	82.27	82.01	82.195	81.955	81.975	81.865	82.04	81.925	81.98	81.88	81.895	81.770	81.775	81.655	81.710	81.610	81.625	81.520	81.560	81.795	81.890	82.230
Sulphate	mg/l	Yearly		160		140		140		140		160		0	160	41		64		93		140		140		180	
Total Dissolved Solids	us/cm	Every 6 months	2400	2500	2900	2400	2200	2200	2400	2400	2400	2700	2300	0	1500	880	2300	890	3700	1400	5100	1900	5000	1900	6000	2200	6600
Total organic Carbon	mg/l	Yearly						9.5		9.4		40		0		0.6		0.7		0.6		1.9		0.7		1.1	
E.coli	per100ml	Every 6 months									<1	1	<1	0	<1	<1	<1	<1	<1	1	1	<1	<1	<1	<1	<1	<1

Monitoring Point 2
Location: Bore 5197

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 29 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
												5197															
Alkalinity	mg/l	Yearly		93		120		260		170		300		360		470		450		410		370		420		320	NO
Ammonia	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	0.18	0.08	0.17	0.03	0.21	0.48	1.6	0.91	5.8	6	7	6.3	7	5.9	8.6	8.8	11	4.1	7.7	6.9	SAMPLES
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		0.001		<0.001		<0.001		0.001		<0.001		<0.001		<0.001		<0.001		<0.001	TAKEN
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	FOR
Calcium	mg/l	Yearly		51		58		63		52		62		100		150		180		190		260		260		200	BORE
Chloride	mg/l	Yearly		550		520		560		460		560		700		1000		1200		1400		1800		1900		1700	5197
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	IN
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		<0.1		<0.1		0.17		0.17		<0.1		0.12		0.11		0.15		0.1	Mar-24
Iron	mg/l	Yearly		0.02		32		0.41		2.7		1.3		1.4		0.15		0.09		0.55		0.94		0.25		0.04	DUE
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	TO NO
Magnesium	mg/l	Yearly		67		65		69		59		75		100		150		160		190		240		270		220	ACCESS
Manganese	mg/l	Yearly		0.26		0.23		0.24		0.18		0.29		0.5		0.61		0.59		0.63		0.89		0.98		0.94	TO BORE
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	SITE
Nitrate	mg/l	Every 6 months	0.13	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	0.007	0.013	0.011	<0.005	0.011	<0.005	0.042	2.6	BECAUSE
pH	pH	Every 6 months	6.4	7	6.3	6.2	6.3	6.1	6.3	6.1	6.1	6.4	6.2	6.2	6.2	6.4	6.2	6.3	6.4	6.3	6.4	6.4	6.3	6.3	6.4	6.3	OF
Potassium	mg/l	Every 6 months	17	11	11	12	11	11	12	12	13	12	14	13	17	18	19	20	19	21	23	23	25	26	20	22	WASHOUTS
Sodium	mg/l	Yearly		250		260		300		240		320		340		480		540		590		780		750		660	TO
Standing Water Level	metres	Every 6 months	82.33	82.26	82.14	82.26	82.01	82.035	81.965	81.975	81.865	82.07	81.940	81.970	81.860	81.840	81.730	81.740	82.220	81.740	82.210	81.620	82.145	81.550	81.835	81.830	ACCESS
Sulphate	mg/l	Yearly		95		96		95		100		98		130		180		200		230		320		370		310	TRACK
Total Dissolved Solids	us/cm	Every 6 months	1100	1400	1500	1300	1200	1400	1400	1100	1300	1400	2100	1800	2700	2700	2900	2900	3500	3900	4800	4600	5200	4900	4800	4100	AFTER
Total organic Carbon	mg/l	Yearly						5.9		4.3		38		9.1		11		12		11		9.9		12		8.9	Nov-23
E.coli	per100ml	Every 6 months									<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	2	<1	RAIN EVENT

Monitoring Point 3
Location: Bore 5198

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
												5198															
Alkalinity	mg/l	Yearly		13		14		35		22		13		11		10		14		19		18		22		57	
Ammonia	mg/l	Every 6 months	<0.01	0.11	0.24	0.36	0.42	0.3	0.16	<0.01	0.3	0.13	0.01	0.4	0.41	0.19	0.13	0.063	<0.012	0.054	0.027	0.048	0.033	0.02	0.034	0.024	0.02
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		0.003		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		0.001		<0.001	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		300		360		350		110		280		180		270		260		220		200		170		40	
Chloride	mg/l	Yearly		2600		2800		2800		890		2400		1600		2200		2200		2000		1800		1700		510	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		0.4		<0.1		0.13		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Iron	mg/l	Yearly		0.01		0.17		0.05		3.8		0.21		11		0.17		0.16		0.51		0.33		1.7		1.2	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		<0.01		0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		370		380		340		120		300		170		270		250		220		200		190		48	
Manganese	mg/l	Yearly		0.53		0.62		0.7		0.55		0.62		0.44		0.5		0.56		0.43		0.29		0.14		0.17	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	0.14	<0.01	0.06	<0.01	0.05	<0.01	0.03	0.07	0.03	0.03	0.06	0.03	0.03	<0.01	0.009	0.007	0.014	0.021	0.087	0.048	0.069	0.03	<0.005	0.006	0.025
pH	pH	Every 6 months	6.3	6.2	5.9	6.2	6	5.8	5.7	6.4	5.5	5.8	5.9	5.7	5.5	5.5	5.8	5.9	5.7	5.8	5.7	5.6	5.8	5.5	6.1	6.1	6.01
Potassium	mg/l	Every 6 months	22	21	22	24	24	23	24	10	23	23	19	18	21	23	27	24	22	23	22	21	24	24	7.4	8.8	4.3
Sodium	mg/l	Yearly		700		780		790		280		750		480		690		810		740		710		640		230	
Standing Water Level	metres	Every 6 months	82.37	82.26	82.15	82.24	82.03	82.23	81.975	81.995	81.885	82.090	81.940	81.995	81.965	81.845	81.740	81.745	82.080	81.740	81.970	81.620	81.875	81.565	81.810	81.880	82.230
Sulphate	mg/l	Yearly		240		270		240		120		230		190		240		220		200		200		180		77	
Total Dissolved Solids	us/cm	Every 6 months	3200	6100	7100	6300	5400	5400	6400	2300	6000	6400	3900	3900	4200	5100	4800	5200	5000	5000	4600	4300	4000	4200	1400	1100	280
Total organic Carbon	mg/l	Yearly						1.1		1.8		3.8		2.3		1.4		1.6		1.6		1.5		2.5		2.2	
E.coli	per100ml	Every 6 months									<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1

Monitoring Point 4
Location: Bore 5204

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
												5204															

Alkalinity	mg/l	Yearly		770		630		610		160		520		400		400		460		390		430		460		380	
Ammonia	mg/l	Every 6 months	15	18	19	20	14	15	15	3.5	16	20	17	16	17	15	15	17	11	18	20	21	18	20	18	19	12
Arsenic	mg/l	Yearly		<0.001		0.001		0.002		0.002		0.002		0.001		0.002		0.002		0.004		0.002		0.002		0.009	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		140		140		140		46		160		220		240		240		260		310		310		170	
Chloride	mg/l	Yearly		840		820		970		290		1200		1500		1700		1900		2200		2200		2400		1600	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		0.74		0.14		0.1		0.14		<0.1		<0.1		<0.1		0.12		0.1	
Iron	mg/l	Yearly		0.17		0.33		0.33		1.1		1.3		15		0.92		1.3		1.9		2		2.6		4.5	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		140		130		130		41		170		200		230		240		270		290		300		210	
Manganese	mg/l	Yearly		0.82		0.81		0.74		0.93		1.0		1.1		1.1		1.2		1.3		1.6		1.6		1.2	
Mercury	mg/l	Yearly		<0.0001		<0.0001		0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	<0.01	0.02	0.05	<0.01	0.06	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.005	0.14	<0.005	0.047	0.041	<0.005	0.02	<0.005	<0.005	<0.005	<0.005
pH	pH	Every 6 months	6.4	6.5	6.8	6.5	6.6	6.5	6.5	6.6	6.4	6.4	6.3	6.2	6.3	6.5	6.2	6.3	6.5	6.4	6.5	6.4	6.6	6.4	6.6	6.4	6.48
Potassium	mg/l	Every 6 months	39	23	22	25	22	21	20	6.9	22	21	22	23	23	23	25	26	27	26	25	24	25	28	19	24	17
Sodium	mg/l	Yearly		480		500		510		160		600		610		710		780		1000		990		1000		730	
Standing Water Level	metres	Every 6 months	82.36	82.2	82.18	82.29	82.11	82.145	82.195	82.205	82.03	82.285	82.090	82.060	81.995	81.94	81.860	81.845	81.710	81.815	81.700	81.720	81.635	81.610	81.930	81.915	82.390
Sulphate	mg/l	Yearly		110		130		160		75		230		330		360		400		510		420		450		330	
Total Dissolved Solids	us/cm	Every 6 months	2400	2300	2400	2200	2200	2400	2500	750	3000	3300	3600	3900	4100	4500	4500	4600	4800	5900	5200	5800	6400	5900	3000	3900	1400
Total organic Carbon	mg/l	Yearly						17		6		54		14		13		18		14		14		17		14	
E.coli	per100ml	Every 6 months									<1	<1	<1	<1	<1	<1	<1	<1	370	<1	1	<1	<1	<1	<1	<1	<1

Monitoring Point 5

Location: Bore 5200

5200

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly		80		87		120		100		110		110		130		140		160		180		190		220	
Ammonia	mg/l	Every 6 months	0.02	0.38	0.38	<0.01	0.42	0.37	0.65	0.3	0.25	<0.02	0.25	0.02	<0.01	0.21	0.24	0.4	<0.012	<0.02	0.029	<0.02	<0.02	<0.01	<0.01	0.072	0.017
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		0.002		0.002		<0.001		0.006		<0.001		<0.001		<0.001		0.001		0.002	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		210		220		260		290		280		250		310		320		340		320		410		310	
Chloride	mg/l	Yearly		4200		4800		5400		6000		6300		5900		7100		7400		7500		7500		7500		7800	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		<0.1		<0.1		0.18		<0.1		<0.1		<0.1		<0.1		<0.1		0.17	
Iron	mg/l	Yearly		<0.01		0.23		0.13		1		0.693		31		2.9		0.11		0.61		0.16		0.57		1.7	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		<0.01		0.02		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		490		540		610		700		710		580		790		790		780		790		850		830	
Manganese	mg/l	Yearly		0.02		0.03		0.04		0.07		0.04		0.12		0.06		0.07		0.08		0.074		0.08		0.07	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		0.0004		<0.0001		<0.0001		<0.0001		0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	0.57	0.49	0.4	0.29	0.31	0.24	0.3	0.17	0.21	0.12	0.17	0.03	0.06	0.02	0.020	0.005	<0.005	0.009	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pH	pH	Every 6 months	6.3	6.1	6.4	6	6	6.1	6.0	5.9	6.1	6.0	6.0	5.9	5.8	6.1	5.8	5.9	6.1	6	6	6.1	6.2	6	6.1	6.1	5.91
Potassium	mg/l	Every 6 months	23	15	15	15	15	14	15	14	12	13	14	12	12	12	13	13	12	13	13	12	12	12	11	11	13
Sodium	mg/l	Yearly		2100		2300		2700		3000		3200		3200		3400		3800		4100		3700		4000		3700	
Standing Water Level	metres	Every 6 months	82.49	82.44	82.31	82.45	82.16	82.045	82.155	82.165	82.05	82.250	82.135	82.170	82.040	82.025	81.930	81.945	81.855	81.945	81.795	81.815	81.720	81.760	81.965	81.985	82.240
Sulphate	mg/l	Yearly		1000		1000		1300		1300		1600		1300		1700		1800		1700		1700		1700		1800	
Total Dissolved Solids	us/cm	Every 6 months	9400	9300	11000	10000	10000	11000	12000	13000	10000	14000	13000	12000	15000	16000	15000	16000	17000	17000	16000	16000	16000	16000	17000	16000	18000
Total organic Carbon	mg/l	Yearly						2.2		2.3		16		2.9		2.6		3		3.1		3.2		3.4		3.2	
E.coli	per100ml	Every 6 months									<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1

Monitoring Point 6

Location: Bore 5201

5201

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly		230		180		220		140		1.8		40		150		130		130		130		140		190	
Ammonia	mg/l	Every 6 months	0.2	0.1	0.12	0.21	0.47	0.13	0	0.56	0.38	<0.02	0.7	<0.01	0.02	0.29	0.59	0.55	<0.012	<0.02	0.055	<0.02	<0.02	<0.01	0.037	0.022	0.039
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		0.011		0.007		<0.001		0.001		0.003		<0.001		0.003		0.002		0.004	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		0.001		<0.001	
Calcium	mg/l	Yearly		95		170		380		370		390		28		480		470		520		550		480		39	
Chloride	mg/l	Yearly		1100		1700		3200		3000		3400		180		4200		3900		4400		4900		5100		510	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.05	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		0.17		0.17		0.96		0.23		<0.1		<0.1		<0.1		<0.1		0.13	
Iron	mg/l	Yearly		0.09		0.69		0.23		14		16		36		2		5.3		3.8		4.4		5.4		1.6	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		0.07		0.06		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		97		160		310		340		380		20		510		490		570		660		690		39	
Manganese	mg/l	Yearly		0.23		0.45		0.23		1.2		0.41		0.42		0.34		0.27		0.31		0.22		0.091		0.03	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	<0.01	0.01	<0.01	<0.01	<0.01	0.05	0	0.03	<0.01	<0.01	<0.01	<0.01	0.51	<0.01	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.01	0.006	<0.005
pH	pH	Every 6 months	6.8	6.7	6.7	6.5	6.6	6.7	0	6.4	6.4	6.4	6.2	7	6.3	6.5	6	6.1	6.3	6.2	6.3	6.3	6.5	6.2	6.7	6.8	6.54
Potassium	mg/l	Every 6 months	16	12	17	15	22	21	0	18	29	22	25	14	7.3	28	20	23	22	24	25	24	32	27	7.2	5.7	5.8
Sodium	mg/l	Yearly		610		800		1300		1200		1400		93		1600		1400		2000		1900		2100		460	
Standing Water Level	metres	Every 6 months	82.52	82.47	82.35	82.44	82.2	82.03	0	82.165	82.045	82.300	82.095	82.130	82.030	81.98	82.015	82.010	81.930	81.995	81.875	81.870	81.810	81.835	82.090	81.990	82.405
Sulphate	mg/l	Yearly		200		270		580		730		680		73		960		950		1100		1200		1200		150	
Total Dissolved Solids	us/cm	Every 6 months	2300	2500	4900	3900	6400	6600	0	7300	6000	9000	9600	540	1700	10000	8800	9200	9700	11000	12000	12000	12000	12000	2600	1200	1400
Total organic Carbon	mg/l	Yearly						5.5		3.8		15		4.5		4.1		3.4		3.6		3.8		4.4		3.5	
E.coli	per100ml	Every 6 months									200	6	<1	<1	9	<1	<1	<1	2	<1	1	<1	<1	<1	<1	<1	<1

Monitoring Point 7

Location: Bore 5202

5202

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly		140		130		190		300		450		700		640		620		590		580		490		470	
Ammonia	mg/l	Every 6 months	0.04	0.12	0.14	0.08	0.11	0.06	0	0.21	0.06	0.1	0.08	14	5.8	12	2.1	9.1	8.6	5.5	10	14	9.4	9.9	21	11	5.4
Arsenic	mg/l	Yearly		0.002		0.002		0.012		0.007		0.002		<0.001		<0.001		0.01		0.004		0.002		<0.001		0.001	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		44		53		53		70		70		140		140		140		140		180		170		160	
Chloride	mg/l	Yearly		490		560		590		550		640		780		940		930		970		1200		1200		1400	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		0.18		0.14		0.18		0.2		0.14		0.14		0.14		0.17		0.13	
Iron	mg/l	Yearly		0.55		1.5		1.2		8		1.3		0.94		0.42		1.8		0.98		1.6		0.31		0.58	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		63		70		62		79		96		130		150		140		150		180		170		190	
Manganese	mg/l	Yearly		0.27		0.23		0.2		0.37		0.31		0.41		0.46		1.4		1.3		1.5		1.3		1.2	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	0.012	<0.005	0.005	0.009	0.075	<0.005	<0.005	0.073	<0.005
pH	pH	Every 6 months	6.4	6.4	6.6	6.5	6.5	6.4	0	6.3	6.4	6.2	6.4	6.4	6.3	6.6	6.3	6.4	6.6	6.5	6.5	6.4	6.6	6.3	6.4	6.3	6.05
Potassium	mg/l	Every 6 months	16	9.9	11	12	11	10	0	10	14	11	12	19	14	20	12	19	20	19	24	24	22	22	23	23	17
Sodium	mg/l	Yearly		280		320		330		320		390		400		420		490		500		520		500		590	
Standing Water Level	metres	Every 6 months	82.44	82.24	82.28	82.27	82.24	82.055	82.15	82.165	82.11	82.265	82.120	82.150	82.055	81.99	81.975	81.970	81.870	81.955	81.820	81.820	81.745	81.765	82.050	82.025	82.455
Sulphate	mg/l	Yearly		140		130		130		140		120		86		120		120		140		180		150		220	
Total Dissolved Solids	us/cm	Every 6 months	1300	1200	1200	1400	1300	1300	0	1400	1900	1700	1600	2200	1900	2600	2200	2500	2900	2800	2800	3200	2900	2900	3700	3400	3200
Total organic Carbon	mg/l	Yearly						2.9		7.4		52		21		18		19		18		15		14		15	
E.coli	per100ml	Every 6 months									<1	<1	<1	<1	<1	<1	210	1	<1	<1	1	<1	<1	<1	<1	<1	<1

Monitoring Point 8

Location: Bore 2026

2026

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly		79		76		110		84		91		27		96		96		110		110		110		96	
Ammonia	mg/l	Every 6 months	<0.01	0.06	0.19	0.1	0.15	0.21	0.1	0.46	0.4	0.02	0.53	<0.01	0.09	0.28	0.33	0.029	<0.012	<0.02	0.051	<0.02	<0.02	<0.01	<0.01	0.04	0.15
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		170		200		280		230		220		6.1		280		260		260		260		260		260	
Chloride	mg/l	Yearly		2000		2400		3200		3100		3700		30		4700		4900		5100		5100		5300		5600	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		<0.1		<0.1		0.87		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Iron	mg/l	Yearly		0.14		0.45		0.29		1.2		0.51		0.18		0.26		0.55		0.39		0.17		0.07		0.27	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		260		290		340		340		380		4.2		540		500		560		600		680		630	
Manganese	mg/l	Yearly		0.69		0.89		0.42		0.81		0.9		0.02		0.26		0.33		0.2		0.13		0.098		0.28	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	0.21	0.38	0.17	0.23	0.51	0.55	0.02	0.01	0.02	0.02	<0.01	0.02	<0.01	0.17	0.12	0.04	0.055	0.17	0.18	0.21	0.2	0.23	<0.005	<0.005	<0.005
pH	pH	Every 6 months	6.2	6.2	6.1	6.1	6.3	6.1	6.1	5.9	6	6.2	6.1	7	5.8	6.0	6.1	6.3	6.0	6.1	6.1	6.0	6.0	6.0	6.0	6.0	5.8
Potassium	mg/l	Every 6 months	20	13	14	16	16	16	16	17	15	17	18	1.3	19	19	20	18	16	16	16	15	15	14	17	17	18
Sodium	mg/l	Yearly		830		1100		1600		1500		1700		23		2200		2400		2600		2600		2800		2300	
Standing Water Level	metres	Every 6 months	82.52	82.5	82.38	82.44	82.26	82.25	82.22	82.22	82.14	82.355	82.210	82.250	82.030	82.075	81.980	81.985	81.855	82.010	81.840	81.775	81.770	81.815	82.070	82.000	82.375
Sulphate	mg/l	Yearly		460		580		820		820		950		12		1200		1300		1300		1400		1300		1300	
Total Dissolved Solids	us/cm	Every 6 months	3900	4500	5900	5400	6200	6500	6700	7200	6400	8600	8000	120	9000	11000	11000	11000	11000	12000	12000	12000	12000	12000	12000	12000	11000
Total organic Carbon	mg/l	Yearly						1.9		2.1		14		2.1		2.3		2.1		2.2		2.1		2.3		2.6	
E.coli	per100ml	Every 6 months									<1	1	<1	<1	<1	<1	<1	<1	3	<1	1	<1	<1	<1	<1	<1	<1

Monitoring Point 9

Location: Bore 2027

2027

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly		29		31		58		42		42		28		47		53		57		64		68		72	
Ammonia	mg/l	Every 6 months	0.13	0.14	0.29	0.08	0.37	0.44	0.21	0.58	0.41	0.41	0.45	<0.01	0.07	2	0.36	0.038	<0.012	<0.02	0.02	<0.02	<0.02	0.012	<0.01	0.046	0.059
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		0.002		<0.001		<0.001		<0.001		<0.001		<0.001	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		280		260		280		290		270		21		330		330		330		350		430		330	
Chloride	mg/l	Yearly		2700		3300		3800		4100		4500		250		5600		6000		6300		6400		6900		6900	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		<0.1		<0.1		0.83		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Iron	mg/l	Yearly		0.2		0.18		0.12		0.15		0.11		0.04		0.13		0.1		0.01		0.14		0.08		0.08	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		<0.01		0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		1.4		330		380		440		480		41		660		690		690		750		860		770	
Manganese	mg/l	Yearly		340		1.2		0.83		1		0.72		0.11		0.55		0.44		0.09		0.28		0.22		0.34	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	0.07	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	0.08	<0.01	0.02	0.03	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
pH	pH	Every 6 months	5.7	5.5	5.5	5.5	5.5	5.6	5.6	5.5	5.7	5.6	5.6	6.6	5.5	5.6	5.6	5.8	5.7	5.6	5.8	5.6	5.6	5.6	5.7	5.7	5.33
Potassium	mg/l	Every 6 months	40	27	26	28	27	28	25	27	23	26	25	3	25	26	26	25	23	24	24	24	23	24	22	22	19
Sodium	mg/l	Yearly		1100		1600		1700		2100		2200		110		2700		2900		3200		3000		3400		3100	
Standing Water Level	metres	Every 6 months	82.45	82.39	82.28	82.36	82.16	82.295	82.12	82.12	82.04	82.215	82.100	82.120	82.020	81.995	81.900	81.890	81.805	81.740	81.760	81.775	81.685	81.710	81.935	81.930	82.305
Sulphate	mg/l	Yearly		660		770		820		1000		1200		76		1400		1600		1600		1600		1600		1600	
Total Dissolved Solids	us/cm	Every 6 months	6600	6200	7500	7400	7200	8000	8900	9200	8300	10000	9800	610	12000	13000	13000	13000	14000	14000	14000	14000	15000	15000	15000	14000	14000
Total organic Carbon	mg/l	Yearly						2.1		2		12		1.7		2		2.4		2.6		2.6		2.9		2.6	
E.coli	per100ml	Every 6 months									1	<1	<1	<1	1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	4	<1

Monitoring Point 10

Location: Bore 5203

5203

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly		10		17		20		22		76		130		220		320		420		430		420		380	
Ammonia	mg/l	Every 6 months	0.47	0.78	0.83	0.71	0.69	0.52	0.46	0.37	0.41	0.28	0.27	0.25	0.29	0.26	0.23	0.26	0.26	0.26	0.34	0.26	0.6	0.61	2.3	1.1	2
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		0.002		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		290		280		260		200		130		130		110		68		120		140		170		180	
Chloride	mg/l	Yearly		3200		2900		2700		2200		1500		1300		1100		1100		1100		1300		1400		1800	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Iron	mg/l	Yearly		1.5		1.3		0.93		9.4		0.75		2.3		0.3		0.26		0.18		0.21		0.18		0.17	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		0.02		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		440		380		380		280		180		150		140		140		170		210		240		270	
Manganese	mg/l	Yearly		2.7		2.4		1.9		1.8		1.0		1.0		0.73		0.83		0.88		0.96		1.1		1.2	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
pH	pH	Every 6 months	5.5	5.5	5.7	5.5	5.6	5.4	5.4	5.5	5.5	5.7	5.7	5.7	5.9	6.0	6.0	6.2	6.3	6.2	6.2	6.5	6.3	6.2	6.3	6.3	6.0
Potassium	mg/l	Every 6 months	36	21	20	23	21	17	19	18	16	14	15	13	14	13	13	13	13	15	16	16	17	16	18	18	17
Sodium	mg/l	Yearly		1000		920		850		720		570		490		430		480		530		570		620		730	
Standing Water Level	metres	Every 6 months	82.31	82.24	82.12	82.22	82.13	82.03	81.98	82.165	81.885	82.090	81.940	82.000	81.885	81.86	81.795	81.770	81.435	81.740	81.355	81.610	81.280	81.485	81.760	81.840	82.310
Sulphate	mg/l	Yearly		220		200		180		160		160		140		160		160		190		240		270		320	
Total Dissolved Solids	us/cm	Every 6 months	9700	7400	7500	6400	5500	5200	5900	5200	4300	4000	3500	3200	3200	2700	2500	2500	2700	3000	3400	3600	3700	3900	4900	4300	3900
Total organic Carbon	mg/l	Yearly						2.1		2.4		22		7.7		9.1		13		14		13		13		11	
E.coli	per100ml	Every 6 months									<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1

Monitoring Point 11

Location: Bore 2029

2029

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly		15		17		32		17		37		24		16		17		16		15		39		17	
Ammonia	mg/l	Every 6 months	0.02	0.46	0.62	0.03	0.28	0.25	0.5	0.28	0.2	1.5	0.27	<0.01	<0.01	0.21	0.26	<0.01	<0.012	0.4	0.02	<0.02	1.5	2.2	0.12	0.013	0.034
Arsenic	mg/l	Yearly		<0.001		<0.001		<0.001		0.004		0.004		<0.001		<0.001		<0.001		<0.001		<0.001		<0.001		0.001	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		350		360		400		390		350		4.8		450		460		490		480		420		410	
Chloride	mg/l	Yearly		3800		3900		4000		4000		4000		12		4600		4700		4600		4600		4500		4500	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		<0.1		<0.1		0.83		<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Iron	mg/l	Yearly		0.03		0.07		0.11		<0.05		1.7		0.11		0.05		0.03		0.01		0.1		0.39		0.2	
Lead	mg/l	Yearly		<0.05		<0.05		<0.05		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		520		500		560		540		540		1.9		620		590		630		670		660		860	
Manganese	mg/l	Yearly		0.01		0.03		0.06		<0.05		0.05		0.01		0.02		0.03		0.09		0.045		0.62		0.27	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	0.51	0.49	0.51	0.53	0.55	0.64	0.74	0.72	0.8	<0.01	0.26	0.01	0.77	0.48	0.46	0.57	0.66	0.56	0.86	0.96	<0.005	<0.005	<0.005	0.17	0.052
pH	pH	Every 6 months	5.8	5.6	6.1	5.6	5.7	5.6	5.6	5.5	5.5	5.9	5.5	7	5.5	5.5	5.6	5.7	5.6	5.5	5.6	5.5	5.9	6	5.8	5.6	5.29
Potassium	mg/l	Every 6 months	31	22	23	25	25	25	23	24	24	24	27	1.2	25	27	27	29	28	28	29	28	28	29	26	26	23
Sodium	mg/l	Yearly		1200		1400		1300		1400		1300		15		1400		1600		1600		1500		1500		1400	
Standing Water Level	metres	Every 6 months	82.33	82.33	82.17	82.19	81.91	82.235	82.0	82.02	81.925	82.095	81.970	82.005	81.890	81.86	81.770	81.770	81.215	81.740	81.140	81.630	81.075	81.570	81.810	81.825	82.230
Sulphate	mg/l	Yearly		520		510		540		570		490		15		580		720		650		700		580		460	
Total Dissolved Solids	us/cm	Every 6 months	8900	8800	9400	8600	7800	8100	9000	9000	8600	9900	9600	65	9500	11000	9400	10000	11000	11000	11000	10000	10000	9900	11000	9200	7800
Total organic Carbon	mg/l	Yearly						0.9		0.9		8.8		1.2		0.7		1		0.9		0.9		3.1		0.7	
E.coli	per100ml	Every 6 months									<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	3

Monitoring Point 12

Location: Bore 9423

9423

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly		780		680		670		530		440		25		280		260		210		190		180		380	
Ammonia	mg/l	Every 6 months	7.3	6.7	8.4	8.7	6.9	7	7.9	5.1	6.9	8.9	7	0.06	6.9	6.5	6.6	7.1	5.2	7.8	8.2	9.2	9.2	8.5	13	7.9	4.1
Arsenic	mg/l	Yearly		0.001		<0.001		0.002		0.004		<0.001		<0.001		<0.002		<0.001		0.002		0.001		0.001		<0.001	
Cadmium	mg/l	Yearly		<0.01		<0.01		<0.01		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.001		<0.001		<0.001	
Calcium	mg/l	Yearly		140		150		150		150		160		6		260		290		350		380		410		290	
Chloride	mg/l	Yearly		820		820		920		930		1200		19		1800		2100		2600		2900		3300		2400	
Chromium	mg/l	Every 6 months	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/l	Yearly		<0.1		<0.1		<0.1		0.15		0.12		0.9		0.11		<0.1		<0.1		<0.1		<0.1		<0.1	
Iron	mg/l	Yearly		0.39		0.71		0.47		0.33		0.42		0.18		0.82		0.82		0.81		0.75		0.66		0.19	
Lead	mg/l	Yearly		<0.05		<0.01		<0.05		<0.05		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Magnesium	mg/l	Yearly		140		140		130		140		170		2.8		230		260		320		370		400		320	
Manganese	mg/l	Yearly		0.75		0.83		0.67		0.84		0.98		<0.01		1.2		1.6		1.7		2		1.8		1.5	
Mercury	mg/l	Yearly		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Nitrate	mg/l	Every 6 months	0.02	0.01	0.01	<0.01	0.01	<0.01	<0.01	0.02	0.19	0.02	<0.01	0.04	<0.01	<0.01	0.048	0.008	0.076	0.027	0.005	0.007	<0.005	<0.005	13	3.9	<0.005

pH	pH	Every 6 months	6.4	6.5	6.7	6.4	6.5	6.4	6.4	6.6	6.3	6.3	6.2	6.7	6.2	6.2	6.2	6.3	6.2	6.1	6.2	6.2	6.4	6	6.4	6.4	6.61
Potassium	mg/l	Every 6 months	35	20	20	23	21	19	21	19	21	21	21	1.4	23	24	24	25	27	28	28	27	15	29	21	25	17
Sodium	mg/l	Yearly		490		500		500		470		570		18		680		770		1100		1100		1400		1000	
Standing Water Level	metres	Every 6 months	82.35	80.06	81.95	82.05	81.71	81.795	82.07	82.13	82.03	82.255	82.100	82.145	82.020	81.995	81.890	81.905	81.825	81.885	81.775	81.785	81.690	81.720	81.980	81.955	82.440
Sulphate	mg/l	Yearly		91		100		120		150		230		17		370		380		580		600		600		500	
Total Dissolved Solids	us/cm	Every 6 months	2300	2400	2400	2300	2200	2400	2500	2400	2900	3400	3500	97	4300	4800	4800	5200	5700	6900	7200	7100	7300	8200	4900	5800	250
Total organic Carbon	mg/l	Yearly						16		17		56		1.5		8.2		8.4		6.4		5.8		6		13	
E.coli	per100ml	Every 6 months									<1	<1	<1	<1	<1	<1	<1	<1	<1	1	20	<1	<1	<1	<1	<1	13

Monitoring Point 4
Location: Bore 5199
This bore is no longer active. A request has been submitted to NSW Office of Environment and Heritage to delete this monitoring point from the Licence and to add 2 new monitoring points, being bores 5204 and 9423. Results for the 2 new bores are included with this data.

5199

Pollutant	Unit	Monitoring frequency required by licence	Measurement 26 March 2012	Measurement 17 Sept 2012	Measurement 8th April 2013	Measurement 26 Sep 2013	Measurement 31 March 2014	Measurement 20 October 2014	Measurement 31 March 2015	Measurement 9 October 2015	Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober 2018	Measurement 25th March 2019	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September 2021	Measurement 22 March 2022	Measurement 12 October 2022	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NO
Ammonia	mg/l	Every 6 months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LONGER
Arsenic	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TAKING
Cadmium	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SAMPLES
Calcium	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FROM
Chloride	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BORE
Chromium	mg/l	Every 6 months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5199
Fluoride	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	DUE
Iron	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TO
Lead	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BORE
Magnesium	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BEING
Manganese	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	INACTIVE
Mercury	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BORE
Nitrate	mg/l	Every 6 months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	DELETED
pH	pH	Every 6 months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FROM
Potassium	mg/l	Every 6 months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EPA LICENCE
Sodium	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Standing Water Level	metres	Every 6 months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sulphate	mg/l	Yearly	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Dissolved Solids	us/cm	Every 6 months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E.coli	per100ml	Every 6 months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

BROWN PARK
Above Filter

above filter

Pollutant	Unit	Monitoring frequency required by licence									Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober	Measurement 25th March	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September	Measurement 22 March 2022	Measurement 12 October	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l																										
Ammonia	mg/l																										
Arsenic	mg/l																										
Cadmium	mg/l																										
Calcium	mg/l																										
Chloride	mg/l																										
Chromium	mg/l																										
Conductivity at 25C	uS/cm	Every 6 months									160	140	120	77	130	100	140	92	81	110	86	87	110	63	86	100	
Fluoride	mg/l																										
Iron	mg/l																										NO
Lead	mg/l																										LONGER
Magnesium	mg/l																										TAKING
Manganese	mg/l																										SAMPLES
Mercury	mg/l																										FROM
Nitrate	mg/l	Every 6 months									0.025	0.03	<0.01	<0.01	<0.01	0.18	0.025	0.084	0.2	0.1	0.0	<0.005	<0.005	0.22	0.062	<0.005	LAGOON
Nitrogen as N	mg/l	Every 6 months									1.1	0.98	1	0.84	0.69	0.76	0.96	0.7	0.41	0.8	0.62	0.84	0.69	0.74	0.72	0.70	
pH	pH																										
Phosphorous as P	mg/l	Every 6 months									0.12	0.27	0.11	0.15	0.074	0.14	0.061	0.11	0.11	0.13	0.16	0.095	0.110	0.140	14.000	0.088	
Potassium	mg/l																										
Sodium	mg/l																										
Sulphate	mg/l																										
Total Dissolved Solids	us/cm	Every 6 months									99	85	73	46	80	61	82	55	49	64	51	52	64	38	51	60	
Turbidity	NTU	Every 6 months									70	100	16	45	35	87	57	96	50	64	60	58	37	74	38	47	
E.coli	per100ml	Every 6 months									190	770	1200	63	5	37	2700	110	63	470	220	52	27	76	63	63	

BROWN PARK
Below Filter

below filter

Pollutant	Unit	Monitoring frequency required by licence									Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober	Measurement 25th March	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September	Measurement 22 March 2022	Measurement 12 October	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l																										
Ammonia	mg/l																										
Arsenic	mg/l																										
Cadmium	mg/l																										
Calcium	mg/l																										
Chloride	mg/l																										
Chromium	mg/l																										
Conductivity at 25C	uS/cm	Every 6 months									1200	140	120	290	110	120	140	110	93	120	120	480	110	66	91	210	
Fluoride	mg/l																										NO
Iron	mg/l																										LONGER
Lead	mg/l																										TAKING
Magnesium	mg/l																										SAMPLES
Manganese	mg/l																										FROM
Mercury	mg/l																										GROSS
Nitrate	mg/l	Every 6 months									0.21	0.04	<0.01	0.12	0.03	0.08	0.009	0.084	0.2	0.037	0.005	<0.005	<0.005	0.23	0.056	0.028	POLLUTANT
Nitrogen as N	mg/l	Every 6 months									4.4	0.97	0.84	2.2	0.34	0.59	1.10	0.72	0.33	0.76	0.83	2.5	0.73	0.64	1.20	1.50	FILTER
pH	pH																										
Phosphorous as P	mg/l	Every 6 months									0.094	0.27	0.12	0.79	0.12	0.12	0.17	0.11	0.13	0.16	0.047	0.660	0.110	0.100	0.180	0.056	
Potassium	mg/l																										
Sodium	mg/l																										
Sulphate	mg/l																										
Total Dissolved Solids	us/cm	Every 6 months									720	83	73	180	68	72	85	65	56	75	69	290	68	39	54	120	
Turbidity	NTU	Every 6 months									18	91	13	19	25	56	45	71	44	34	19	30	18	55	37	48	
E.coli	per100ml	Every 6 months									20	590	250	300	6	26	>24000	70	290	110	31	490	160	120	31	67	

WETLANDS
Harfleur St

wetlands

Pollutant	Unit	Monitoring frequency required by licence									Measurement 11th April 2016	Measurement 14th Nov 2016	Measurement 12th April 2017	Measurement 9th Sep 2017	Measurement 28th April 2018	Measurement 31stOctober	Measurement 25th March	Measurement 9 Sept 2019	Measurement 6 April 2020	Measurement 13 October 2020	Measurement 13 April 2021	Measurement 28 September	Measurement 22 March 2022	Measurement 12 October	Measurement 18 April 2023	Measurement 26 Sep 2023	Measurement 12 Mar 2024
Alkalinity	mg/l																										
Ammonia	mg/l																										
Arsenic	mg/l																										
Cadmium	mg/l																										
Calcium	mg/l																										
Chloride	mg/l																										NO
Chromium	mg/l																										LONGER
Conductivity at 25C	uS/cm	Every 6 months									280	150	130	250	400	97	270	110	87	98	110	120	160	81	87	110	TAKING
Fluoride	mg/l																										SAMPLES
Iron	mg/l																										FROM
Lead	mg/l																										WETLANDS
Magnesium	mg/l																										DUE
Manganese	mg/l																										TO
Mercury	mg/l																										WETLANDS

Nitrate	mg/l	Every 6 months									0.031	<0.01	<0.01	<0.01	<0.01	0.02	0.089	<0.005	0.14	0.033	0.005	<0.005	<0.005	0.14	0.071	0.018	BEING
Nitrogen as N	mg/l	Every 6 months									16	1.1	1.2	0.98	1.5	1.3	0.98	0.70	0.33	0.56	0.48	0.79	0.75	0.79	1.10	0.69	RECONSTRUCTED
pH	pH																										AFTER NOV 23
Phosphorous as P	mg/l	Every 6 months									3.4	0.46	0.18	0.17	0.17	0.19	0.26	0.12	0.12	0.16	0.16	0.085	0.006	0.100	0.160	0.021	RAIN
Potassium	mg/l																										EVENT
Sodium	mg/l																										
Sulphate	mg/l																										
Total Dissolved Solids	us/cm	Every 6 months									170	89	76	150	240	58	160	65	52	58	64	70	99	48	52	68	
Turbidity	NTU	Every 6 months									500	95	40	49	120	110	240	100	74	89	180	96	33	80	40	27	
E.coli	per100ml	Every 6 months									530	910	120	<10	99	39	540	160	75	<10	160	10	36	62	30	34	

.... End of report ....