

CHEMICAL ANALYSIS REPORT

April 2023

				S00580
Determinents	Units	Guideline Value	Maximum Acceptable Value	Acheron Source
Total Antimony	(g/m ³)	-	0.02	< 0.00021 ± 0.00014
Total Barium	(g/m ³)	-	0.7	< 0.0053 ± 0.00045
Total Cadmium	(g/m ³)	-	0.004	< 0.000053 ± 0.000036
Total Chromium	(g/m ³)	-	0.05	< 0.00053 ± 0.00036
Total Mercury	(g/m ³)	-	0.007	< 0.00008 ± 0.00053
Total Nickel	(g/m ³)	-	0.08	< 0.00053 ± 0.00036
Total Selenium	(g/m ³)	-	0.01	< 0.0011 ± 0.00074
Bromide	(g/m ³)	-	-	< 0.05 ± 0.041
Bromate	(g/m ³)	-	0.01	< 0.005 ± 0.0034
Chlorate	(g/m ³)	-	0.8	< 0.005 ± 0.0034
Fluoride	(g/m ³)		1.5	0.064 ± 0.041
Nitrite-N	(g/m ³)	-	0.06 0.91 (short term)	< 0.002 ± 0.0014
Nitrite	(g/m ³)	-	0.2 3 (short term)	< 0.007 ± 0.0045
Nitrate	(g/m ³)	-	50	0.25 ± 0.15
Total Organic Carbon	(g/m ³)	-	-	1.1 ± 2.0
Absorbance at 254 nm	AU cm ⁻¹			0.0056 ± 0.0021
Transmittance at 254 nm	%T, 1 cm cell		80	98.7
Turbidity	NTU	2	5	0.962 ± 0.091
pH	pH units	7.0 - 8.5	-	7.7 ± 0.2
Total Alkalinity	(g/m ³ as CaCO ₃)	-	-	35.1 ± 1.6
Free Carbon Dioxide	(g/m ³ at 25°C)	-	-	1.28 ± 0.60
Total Hardness	(g/m ³ as CaCO ₃)	<200	-	32.4 ± 1.2
Electrical Conductivity	(mS/m)	-	-	7.4 ± 0.2
Electrical Conductivity	(µS/cm)	-	-	74 ± 2
Approx Total Dissolved Salts	(g/m ³)	<1000	-	49.6 ± 1.1
Total Arsenic	(g/m ³)	-	0.01	< 0.0011 ± 0.00074
Total Boron	(g/m ³)	-	1.4	0.0076 ± 0.0037
Total Calcium	(g/m ³)	-	-	10.97 ± 0.45
Total Copper	(g/m ³)	<1	2	< 0.00053 ± 0.00036
Total Iron	(g/m ³)	<0.3	-	0.025 ± 0.015
Total Lead	(g/m ³)	-	0.01	< 0.00011 ± 0.000074
Total Magnesium	(g/m ³)	200.00	-	1.215 ± 0.099
Total Manganese	(g/m ³)	<0.04 (staining) <0.10 (taste)	0.4	0.00063 ± 0.00036
Total Potassium	(g/m ³)	-	-	0.256 ± 0.039
Total Sodium	(g/m ³)	<200	-	2.05 ± 0.13
Total Zinc	(g/m ³)	<1.5	-	0.00127 ± 0.00074
Chloride	(g/m ³)	<250	-	1.01 ± 0.34
Nitrate-N	(g/m ³)	-	11.3	0.057 ± 0.034
Sulphate	(g/m ³)	<250	-	2.31 ± 0.37

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	S00577	S00579	G01673	S00827
Determinents	Arthurs Pass Source	Castle Hill Source	Claremont Bore	Dalethorpe Source
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Mercury	< 0.00008 ± 0.000053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	< 0.05 ± 0.041	0.077 ± 0.042	0.052 ± 0.041	0.145 ± 0.044
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	< 0.3 ± 0.15	0.46 ± 0.16	5.21 ± 0.43	3.67 ± 0.32
Total Organic Carbon	1.3 ± 2.0	< 0.5 ± 1.1	0.7 ± 1.9	1.8 ± 2.2
Absorbance at 254 nm	0.0132 ± 0.0024	0.0076 ± 0.0022	0.0120 ± 0.0024	0.0384 ± 0.0044
Transmittance at 254 nm	97	98.3	97.3	91.5
Turbidity	0.062 ± 0.034	0.604 ± 0.063	0.059 ± 0.034	0.064 ± 0.034
pH	7.8 ± 0.2	7.5 ± 0.2	7.8 ± 0.2	7.5 ± 0.2
Total Alkalinity	37.1 ± 1.7	22.9 ± 1.2	38.7 ± 1.7	42.4 ± 1.9
Free Carbon Dioxide	1.31 ± 0.61	1.38 ± 0.65	1.25 ± 0.58	2.7 ± 1.3
Total Hardness	38.6 ± 1.5	20.15 ± 0.74	39.1 ± 1.5	40.5 ± 1.6
Electrical Conductivity	8.8 ± 0.2	5.2 ± 0.2	10.8 ± 0.3	10.8 ± 0.3
Electrical Conductivity	88 ± 2	52 ± 2	108 ± 3	108 ± 3
Approx Total Dissolved Salts	59.0 ± 1.3	35.18 ± 0.84	72.2 ± 1.6	72.7 ± 1.6
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	< 0.0053 ± 0.0036	0.0085 ± 0.0037	0.0194 ± 0.0044	0.0226 ± 0.0047
Total Calcium	14.44 ± 0.58	6.87 ± 0.28	13.54 ± 0.55	10.69 ± 0.43
Total Copper	0.00400 ± 0.00054	0.00229 ± 0.00042	0.00100 ± 0.00037	0.00210 ± 0.00041
Total Iron	< 0.021 ± 0.014	0.029 ± 0.015	< 0.021 ± 0.014	< 0.021 ± 0.014
Total Lead	0.000393 ± 0.000077	0.000335 ± 0.000076	0.000301 ± 0.000076	0.000166 ± 0.000074
Total Magnesium	0.619 ± 0.052	0.731 ± 0.061	1.29 ± 0.11	3.34 ± 0.27
Total Manganese	0.00077 ± 0.00036	0.00074 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Potassium	0.319 ± 0.041	0.355 ± 0.042	0.848 ± 0.062	0.590 ± 0.050
Total Sodium	1.81 ± 0.11	2.21 ± 0.14	5.75 ± 0.35	5.97 ± 0.36
Total Zinc	0.0094 ± 0.0011	0.00686 ± 0.00092	0.0098 ± 0.0011	0.00575 ± 0.00087
Chloride	< 0.5 ± 0.34	< 0.5 ± 0.34	3.84 ± 0.38	2.82 ± 0.36
Nitrate-N	< 0.05 ± 0.034	0.104 ± 0.035	1.176 ± 0.096	0.829 ± 0.072
Sulphate	4.32 ± 0.44	2.78 ± 0.38	3.29 ± 0.40	2.03 ± 0.36

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	G01961	G01961	G00726	G02166
Determinents	Darfield - Bore 1	Darfield - Bore 2	Dunsandel Bore	Edendale Bore
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	0.00057 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	0.0058 ± 0.0035	0.0059 ± 0.0035	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	0.052 ± 0.041	0.055 ± 0.041	0.102 ± 0.042	< 0.05 ± 0.041
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	24.8	23.1	11.9	9.4
Total Organic Carbon	0.8 ± 2.3	1.0 ± 2.6	0.6 ± 2.6	< 0.5 ± 2.2
Absorbance at 254 nm	0.0067 ± 0.0022	0.0043 ± 0.0021	0.0030 ± 0.0021	0.0028 ± 0.0021
Transmittance at 254 nm	98.5	99	99.3	99.4
Turbidity	< 0.05 ± 0.034	0.234 ± 0.039	0.061 ± 0.034	< 0.05 ± 0.034
pH	7.8 ± 0.2	7.7 ± 0.2	7.5 ± 0.2	7.8 ± 0.2
Total Alkalinity	47.7 ± 2.1	45.6 ± 2.0	46.7 ± 2.0	43.4 ± 1.9
Free Carbon Dioxide	1.68 ± 0.78	1.70 ± 0.79	3.1 ± 1.5	1.26 ± 0.59
Total Hardness	59.2 ± 2.2	55.9 ± 2.1	59.1 ± 2.3	49.3 ± 1.8
Electrical Conductivity	16.7 ± 0.4	16.1 ± 0.4	17.4 ± 0.4	13.8 ± 0.3
Electrical Conductivity	167 ± 4	161 ± 4	174 ± 4	138 ± 3
Approx Total Dissolved Salts	112.0 ± 2.3	108.1 ± 2.3	116.4 ± 2.4	92.8 ± 2.0
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0212 ± 0.0046	0.0208 ± 0.0046	0.0242 ± 0.0049	0.0215 ± 0.0046
Total Calcium	20.27 ± 0.82	19.14 ± 0.77	15.71 ± 0.63	17.08 ± 0.69
Total Copper	0.00248 ± 0.00043	0.00173 ± 0.00039	0.00210 ± 0.00041	0.00159 ± 0.00039
Total Iron	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014
Total Lead	0.000425 ± 0.000078	0.00119 ± 0.00011	0.000563 ± 0.000081	0.000473 ± 0.000079
Total Magnesium	2.08 ± 0.17	1.98 ± 0.16	4.83 ± 0.39	1.62 ± 0.14
Total Manganese	< 0.00053 ± 0.00036	0.00151 ± 0.00039	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Potassium	0.934 ± 0.067	0.904 ± 0.065	1.072 ± 0.074	0.954 ± 0.068
Total Sodium	9.45 ± 0.57	9.17 ± 0.56	9.08 ± 0.55	7.69 ± 0.47
Total Zinc	0.0100 ± 0.0011	0.0196 ± 0.0018	0.0148 ± 0.0014	0.0187 ± 0.0017
Chloride	7.82 ± 0.51	7.61 ± 0.50	6.67 ± 0.47	7.33 ± 0.49
Nitrate-N	5.37 ± 0.41	5.22 ± 0.40	3.43 ± 0.27	2.51 ± 0.20
Sulphate	1.25 ± 0.35	1.14 ± 0.35	5.58 ± 0.50	2.74 ± 0.38

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	S00828	G00822	G00671	G00725
Determinents	Hartleys Rd Source	Hororata Source	Jowers Rd Bore	Kirwee Bore
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	0.00678 ± 0.00056	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	0.107 ± 0.043	0.114 ± 0.043	0.056 ± 0.041	0.062 ± 0.041
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	2.19	1.19	12.48 ± 0.96	22.6
Total Organic Carbon	1.5 ± 2.7	1.3 ± 2.2	0.8 ± 3.4	< 0.5 ± 2.1
Absorbance at 254 nm	0.0092 ± 0.0023	0.0376 ± 0.0043	< 0.002 ± 0.0021	0.0024 ± 0.0021
Transmittance at 254 nm	97.9	91.7	> 99.5	99.5
Turbidity	< 0.05 ± 0.034	0.188 ± 0.037	0.742 ± 0.073	0.110 ± 0.035
pH	7.3 ± 0.2	7.5 ± 0.2	7.7 ± 0.2	7.8 ± 0.2
Total Alkalinity	49.8 ± 2.1	43.9 ± 1.9	58.5 ± 2.5	42.8 ± 1.9
Free Carbon Dioxide	5.2 ± 2.5	2.5 ± 1.2	2.4 ± 1.2	1.40 ± 0.65
Total Hardness	48.0 ± 1.8	39.6 ± 1.5	67.3 ± 2.5	57.6 ± 2.1
Electrical Conductivity	11.8 ± 0.3	10.5 ± 0.3	17.5 ± 0.4	16.5 ± 0.4
Electrical Conductivity	118 ± 3	105 ± 3	175 ± 4	165 ± 4
Approx Total Dissolved Salts	79.2 ± 1.7	70.4 ± 1.5	117.5 ± 2.4	110.6 ± 2.3
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0297 ± 0.0055	0.0261 ± 0.0051	0.0220 ± 0.0047	0.0200 ± 0.0045
Total Calcium	14.32 ± 0.58	11.73 ± 0.48	22.27 ± 0.90	19.97 ± 0.80
Total Copper	0.00113 ± 0.00037	0.00763 ± 0.00084	0.00333 ± 0.00049	0.00447 ± 0.00057
Total Iron	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014
Total Lead	< 0.00011 ± 0.000074	0.001052 ± 0.000097	0.00145 ± 0.00012	0.000744 ± 0.000086
Total Magnesium	2.99 ± 0.24	2.51 ± 0.21	2.84 ± 0.23	1.88 ± 0.16
Total Manganese	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Potassium	0.764 ± 0.058	0.780 ± 0.059	1.048 ± 0.073	1.178 ± 0.079
Total Sodium	5.40 ± 0.33	5.19 ± 0.32	6.53 ± 0.40	8.70 ± 0.53
Total Zinc	0.00298 ± 0.00077	0.00410 ± 0.00080	0.0840 ± 0.0068	0.00704 ± 0.00093
Chloride	2.39 ± 0.36	2.63 ± 0.36	6.41 ± 0.46	7.29 ± 0.49
Nitrate-N	0.477 ± 0.050	0.330 ± 0.042	2.82 ± 0.22	5.42 ± 0.42
Sulphate	2.81 ± 0.39	2.38 ± 0.37	6.48 ± 0.55	2.43 ± 0.37

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	S00578	G00501	G03119	G02129
Determinents	Lake Coleridge Source	Leeston - Gallipoli 1 Bore	Leeston - Leeston Dunsandel Rd Bore	Lincoln - Eastfield Dr Bore
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	< 0.00053 ± 0.00036	0.00076 ± 0.00036	0.00072 ± 0.00036	0.00064 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	< 0.05 ± 0.041	0.090 ± 0.042	0.090 ± 0.042	0.062 ± 0.041
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	< 0.3 ± 0.15	4.12	6.58	5.36
Total Organic Carbon	< 0.5 ± 1.5	1.4 ± 2.4	0.6 ± 2.5	< 0.5 ± 2.8
Absorbance at 254 nm	0.0136 ± 0.0025	< 0.002 ± 0.0021	< 0.002 ± 0.0021	0.0048 ± 0.0021
Transmittance at 254 nm	96.9	> 99.5	> 99.5	98.9
Turbidity	0.457 ± 0.052	0.111 ± 0.035	0.140 ± 0.036	0.477 ± 0.054
pH	7.6 ± 0.2	7.9 ± 0.2	7.9 ± 0.2	7.9 ± 0.2
Total Alkalinity	27.2 ± 1.3	42.4 ± 1.9	44.3 ± 1.9	53.2 ± 2.3
Free Carbon Dioxide	1.25 ± 0.58	1.16 ± 0.54	1.20 ± 0.56	1.22 ± 0.57
Total Hardness	26.16 ± 0.97	38.5 ± 1.4	43.1 ± 1.6	49.8 ± 1.8
Electrical Conductivity	6.4 ± 0.2	10.9 ± 0.3	12.1 ± 0.3	14.4 ± 0.3
Electrical Conductivity	64 ± 2	109 ± 3	121 ± 3	144 ± 3
Approx Total Dissolved Salts	43.01 ± 0.97	73.0 ± 1.6	80.8 ± 1.7	96.3 ± 2.0
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0193 ± 0.0044	0.0182 ± 0.0043	0.0191 ± 0.0044	0.0192 ± 0.0044
Total Calcium	9.25 ± 0.38	11.33 ± 0.46	12.45 ± 0.50	16.86 ± 0.68
Total Copper	0.00178 ± 0.00040	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Iron	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014	0.061 ± 0.017
Total Lead	0.000343 ± 0.000076	< 0.00011 ± 0.000074	< 0.00011 ± 0.000074	0.000130 ± 0.000074
Total Magnesium	0.740 ± 0.061	2.47 ± 0.20	2.91 ± 0.24	1.87 ± 0.16
Total Manganese	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	0.00094 ± 0.00037
Total Potassium	0.406 ± 0.043	0.841 ± 0.062	0.864 ± 0.063	0.920 ± 0.066
Total Sodium	2.11 ± 0.13	6.07 ± 0.37	6.72 ± 0.41	8.68 ± 0.53
Total Zinc	0.0146 ± 0.0014	0.00640 ± 0.00090	0.00278 ± 0.00077	0.00604 ± 0.00088
Chloride	0.89 ± 0.34	3.69 ± 0.38	4.48 ± 0.40	7.27 ± 0.49
Nitrate-N	< 0.05 ± 0.034	0.885 ± 0.075	1.42 ± 0.12	1.190 ± 0.097
Sulphate	3.95 ± 0.43	1.53 ± 0.35	1.49 ± 0.35	1.72 ± 0.36

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	G03127	G00163	G03115	G01608
Determinents	Lincoln - Kakahi St Bore	Lincoln - Kildare Tce	Lincoln - Veuve Drive Bore	Prebbleton - St Patricks Bore
Total Antimony	< 0.00021 ± 0.00014	-	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	-	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	-	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	0.00079 ± 0.00036	-	0.00074 ± 0.00036	0.00069 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	-	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	-	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	-	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	-	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	-	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	-	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	0.064 ± 0.041	-	0.061 ± 0.041	0.056 ± 0.041
Nitrite-N	< 0.002 ± 0.0014	-	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	-	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	7.69	-	5.28	2.72
Total Organic Carbon	< 0.5 ± 3.0	-	< 0.5 ± 2.9	< 0.5 ± 2.5
Absorbance at 254 nm	< 0.002 ± 0.0021	-	0.0038 ± 0.0021	0.0037 ± 0.0021
Transmittance at 254 nm	> 99.5	-	99.1	99.2
Turbidity	0.064 ± 0.034	-	< 0.05 ± 0.034	0.799 ± 0.078
pH	7.9 ± 0.2	-	7.9 ± 0.2	7.9 ± 0.2
Total Alkalinity	50.7 ± 2.2	-	50.3 ± 2.2	51.2 ± 2.2
Free Carbon Dioxide	1.24 ± 0.58	-	1.16 ± 0.54	1.28 ± 0.60
Total Hardness	49.5 ± 1.8	-	50.4 ± 1.9	47.4 ± 1.8
Electrical Conductivity	14.5 ± 0.3	-	14.2 ± 0.3	12.9 ± 0.3
Electrical Conductivity	145 ± 3	-	142 ± 3	129 ± 3
Approx Total Dissolved Salts	97.3 ± 2.0	-	95.0 ± 2.0	86.4 ± 1.8
Total Arsenic	< 0.0011 ± 0.00074	-	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0215 ± 0.0046	-	0.0193 ± 0.0044	0.0195 ± 0.0045
Total Calcium	16.59 ± 0.67	-	17.55 ± 0.71	15.96 ± 0.64
Total Copper	0.00102 ± 0.00037	-	< 0.00053 ± 0.00036	0.0107 ± 0.0012
Total Iron	< 0.021 ± 0.014	-	< 0.021 ± 0.014	0.048 ± 0.016
Total Lead	0.000251 ± 0.000075	-	< 0.00011 ± 0.000074	0.000592 ± 0.000082
Total Magnesium	1.97 ± 0.16	-	1.60 ± 0.13	1.83 ± 0.15
Total Manganese	< 0.00053 ± 0.00036	-	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Potassium	0.920 ± 0.066	-	0.902 ± 0.065	0.853 ± 0.063
Total Sodium	8.42 ± 0.51	-	8.16 ± 0.49	7.79 ± 0.47
Total Zinc	0.00662 ± 0.00091	-	0.00157 ± 0.00074	0.0115 ± 0.0012
Chloride	7.64 ± 0.50	-	7.11 ± 0.48	4.99 ± 0.41
Nitrate-N	1.79 ± 0.14	-	1.138 ± 0.093	0.557 ± 0.054
Sulphate	1.20 ± 0.35	-	1.88 ± 0.36	2.59 ± 0.38

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	G03114	G00165	G00668	G01314
Determinents	Prebbleton - Shands Rd	Prebbleton - Tosswill Well 1 Bore	Rakaia Huts Bore	Raven Drive Source
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	-
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	-
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	-
Total Chromium	0.00072 ± 0.00036	0.00070 ± 0.00036	< 0.00053 ± 0.00036	-
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	-
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	-
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	-
Bromide	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	-
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	-
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	-
Fluoride	0.057 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	-
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	-
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	-
Nitrate	2.25	3.2	3.06	-
Total Organic Carbon	< 0.5 ± 2.4	< 0.5 ± 2.4	< 0.5 ± 2.3	-
Absorbance at 254 nm	0.0027 ± 0.0021	< 0.002 ± 0.0021	< 0.002 ± 0.0021	-
Transmittance at 254 nm	99.4	> 99.5	> 99.5	-
Turbidity	0.179 ± 0.037	< 0.05 ± 0.034	0.057 ± 0.034	-
pH	7.9 ± 0.2	7.9 ± 0.2	7.7 ± 0.2	-
Total Alkalinity	52.2 ± 2.2	46.2 ± 2.0	40.7 ± 1.8	-
Free Carbon Dioxide	1.29 ± 0.60	1.25 ± 0.59	1.68 ± 0.78	-
Total Hardness	46.7 ± 1.7	43.5 ± 1.6	39.5 ± 1.5	-
Electrical Conductivity	12.8 ± 0.3	11.9 ± 0.3	10.0 ± 0.3	-
Electrical Conductivity	128 ± 3	119 ± 3	100 ± 3	-
Approx Total Dissolved Salts	86.1 ± 1.8	79.6 ± 1.7	67.2 ± 1.5	-
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	-
Total Boron	0.0198 ± 0.0045	0.0190 ± 0.0044	0.0213 ± 0.0046	-
Total Calcium	15.79 ± 0.64	14.64 ± 0.59	13.88 ± 0.56	-
Total Copper	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	0.00309 ± 0.00047	-
Total Iron	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014	-
Total Lead	0.000512 ± 0.000080	< 0.00011 ± 0.000074	0.000594 ± 0.000082	-
Total Magnesium	1.77 ± 0.15	1.69 ± 0.14	1.165 ± 0.095	-
Total Manganese	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	-
Total Potassium	0.874 ± 0.064	0.804 ± 0.060	0.910 ± 0.065	-
Total Sodium	8.08 ± 0.49	7.00 ± 0.42	3.92 ± 0.24	-
Total Zinc	0.00440 ± 0.00081	0.0175 ± 0.0016	0.0098 ± 0.0011	-
Chloride	4.70 ± 0.41	4.49 ± 0.40	1.94 ± 0.35	-
Nitrate-N	0.445 ± 0.048	0.657 ± 0.060	0.692 ± 0.063	-
Sulphate	2.50 ± 0.38	2.85 ± 0.39	3.73 ± 0.42	-

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	G03020	G02009	G01672	G00167
Determinents	Rolleston - Baltimore Bore	Rolleston - Illinois Dr Bore	Rolleston - Izone Dr Bore	Rolleston - Moore St - Bore 1
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	0.00072 ± 0.00036	< 0.00053 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	0.066 ± 0.042	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	0.050 ± 0.041
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	12.4	29.9	15	6.92
Total Organic Carbon	< 0.5 ± 2.2	< 0.5 ± 2.4	< 0.5 ± 2.1	< 0.5 ± 2.7
Absorbance at 254 nm	0.0022 ± 0.0021	0.0036 ± 0.0021	0.0026 ± 0.0021	< 0.002 ± 0.0021
Transmittance at 254 nm	99.5	99.2	99.4	> 99.5
Turbidity	0.539 ± 0.058	0.483 ± 0.054	0.218 ± 0.039	0.120 ± 0.035
pH	7.9 ± 0.2	7.8 ± 0.2	7.8 ± 0.2	7.9 ± 0.2
Total Alkalinity	45.0 ± 2.0	49.3 ± 2.1	45.5 ± 2.0	49.2 ± 2.1
Free Carbon Dioxide	1.22 ± 0.57	1.56 ± 0.73	1.28 ± 0.60	1.33 ± 0.62
Total Hardness	48.7 ± 1.8	72.9 ± 2.7	51.4 ± 1.9	48.3 ± 1.8
Electrical Conductivity	14.3 ± 0.3	23.4 ± 0.5	15.6 ± 0.4	13.4 ± 0.3
Electrical Conductivity	143 ± 3	234 ± 5	156 ± 4	134 ± 3
Approx Total Dissolved Salts	95.7 ± 2.0	156.8 ± 3.2	104.2 ± 2.2	89.9 ± 1.9
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0231 ± 0.0048	0.0227 ± 0.0047	0.0219 ± 0.0047	0.0243 ± 0.0049
Total Calcium	16.10 ± 0.65	21.36 ± 0.86	17.61 ± 0.71	15.64 ± 0.63
Total Copper	< 0.00053 ± 0.00036	0.00301 ± 0.00047	0.00071 ± 0.00036	< 0.00053 ± 0.00036
Total Iron	< 0.021 ± 0.014	0.042 ± 0.015	0.035 ± 0.015	< 0.021 ± 0.014
Total Lead	< 0.00011 ± 0.000074	0.000205 ± 0.000075	< 0.00011 ± 0.000074	< 0.00011 ± 0.000074
Total Magnesium	2.06 ± 0.17	4.75 ± 0.39	1.80 ± 0.15	2.25 ± 0.19
Total Manganese	< 0.00053 ± 0.00036	0.00188 ± 0.00040	0.00055 ± 0.00036	< 0.00053 ± 0.00036
Total Potassium	0.935 ± 0.067	1.352 ± 0.089	0.943 ± 0.067	0.895 ± 0.065
Total Sodium	8.17 ± 0.50	14.55 ± 0.88	9.37 ± 0.57	8.01 ± 0.49
Total Zinc	0.00223 ± 0.00075	0.0681 ± 0.0055	0.0108 ± 0.0012	0.00334 ± 0.00078
Chloride	7.26 ± 0.49	16.80 ± 0.87	8.78 ± 0.54	5.90 ± 0.44
Nitrate-N	2.94 ± 0.23	7.52 ± 0.58	3.16 ± 0.25	1.37 ± 0.11
Sulphate	0.93 ± 0.34	5.59 ± 0.50	1.16 ± 0.35	1.01 ± 0.34

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	G02191	G01113	G02192	G03084
Determinents	Rolleston - Moore St - Bore 2	Rolleston - Overbury Cres Bore	Rolleston - Helpet Bore 1	Rolleston - Helpet Bore 2
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	< 0.00053 ± 0.00036	0.00056 ± 0.00036	0.00074 ± 0.00036	< 0.00053 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	0.057 ± 0.042	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	0.050 ± 0.041
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	9.1	18.9	13.7	14.4
Total Organic Carbon	0.9 ± 2.1	1.8 ± 2.8	< 0.5 ± 2.7	< 0.5 ± 2.5
Absorbance at 254 nm	0.0030 ± 0.0021	0.0040 ± 0.0021	< 0.002 ± 0.0021	< 0.002 ± 0.0021
Transmittance at 254 nm	99.3	99.1	> 99.5	> 99.5
Turbidity	0.220 ± 0.039	0.090 ± 0.034	0.122 ± 0.035	0.075 ± 0.034
pH	7.8 ± 0.2	7.8 ± 0.2	7.9 ± 0.2	7.8 ± 0.2
Total Alkalinity	43.4 ± 1.9	46.9 ± 2.0	49.1 ± 2.1	45.0 ± 2.0
Free Carbon Dioxide	1.27 ± 0.59	1.32 ± 0.62	1.32 ± 0.62	1.28 ± 0.60
Total Hardness	50.6 ± 1.9	59.9 ± 2.2	52.4 ± 1.9	49.7 ± 1.8
Electrical Conductivity	14.9 ± 0.4	18.5 ± 0.4	15.6 ± 0.4	15.1 ± 0.4
Electrical Conductivity	149 ± 4	185 ± 4	156 ± 4	151 ± 4
Approx Total Dissolved Salts	99.6 ± 2.1	124.2 ± 2.6	104.8 ± 2.2	101.3 ± 2.1
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0216 ± 0.0046	0.0213 ± 0.0046	0.0212 ± 0.0046	0.0208 ± 0.0046
Total Calcium	17.13 ± 0.69	19.72 ± 0.79	17.25 ± 0.70	16.82 ± 0.68
Total Copper	< 0.00053 ± 0.00036	0.00102 ± 0.00037	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Iron	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014
Total Lead	0.000159 ± 0.000074	0.000125 ± 0.000074	< 0.00011 ± 0.000074	< 0.00011 ± 0.000074
Total Magnesium	1.91 ± 0.16	2.59 ± 0.21	2.27 ± 0.19	1.86 ± 0.15
Total Manganese	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Potassium	0.925 ± 0.066	1.016 ± 0.071	0.947 ± 0.067	0.896 ± 0.065
Total Sodium	8.73 ± 0.53	11.27 ± 0.68	9.54 ± 0.58	9.36 ± 0.57
Total Zinc	0.00798 ± 0.00097	0.00453 ± 0.00082	0.0093 ± 0.0011	0.00413 ± 0.00080
Chloride	8.20 ± 0.52	13.14 ± 0.71	8.20 ± 0.52	9.32 ± 0.56
Nitrate-N	3.47 ± 0.27	4.82 ± 0.37	2.58 ± 0.20	3.07 ± 0.24
Sulphate	1.06 ± 0.34	2.15 ± 0.37	1.51 ± 0.35	1.25 ± 0.35

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	G01874	G00820	G03053	G00675
Determinents	Rolleston - Westland PI Bore	Sheffield Source	Southbridge -St John St Bore	Springfield Source
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	0.00055 ± 0.00036	< 0.00053 ± 0.00036	0.00079 ± 0.00036	< 0.00053 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	< 0.05 ± 0.041	0.125 ± 0.043	< 0.05 ± 0.041	0.116 ± 0.043
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	14.2	7.35	12.6	6.7
Total Organic Carbon	< 0.5 ± 2.3	0.6 ± 2.2	1.0 ± 2.8	1.8 ± 2.2
Absorbance at 254 nm	0.0026 ± 0.0021	0.0166 ± 0.0026	< 0.002 ± 0.0021	0.0330 ± 0.0039
Transmittance at 254 nm	99.4	96.3	> 99.5	92.7
Turbidity	0.086 ± 0.034	0.140 ± 0.036	< 0.05 ± 0.034	0.594 ± 0.062
pH	7.9 ± 0.2	7.2 ± 0.2	7.9 ± 0.2	7.3 ± 0.2
Total Alkalinity	44.3 ± 1.9	40.8 ± 1.8	51.0 ± 2.2	42.1 ± 1.9
Free Carbon Dioxide	1.24 ± 0.58	5.3 ± 2.5	1.24 ± 0.58	4.5 ± 2.1
Total Hardness	51.5 ± 1.9	42.2 ± 1.6	58.2 ± 2.2	43.9 ± 1.7
Electrical Conductivity	15.6 ± 0.4	12.3 ± 0.3	15.3 ± 0.4	11.1 ± 0.3
Electrical Conductivity	156 ± 4	123 ± 3	153 ± 4	111 ± 3
Approx Total Dissolved Salts	104.6 ± 2.2	82.2 ± 1.8	102.2 ± 2.1	74.1 ± 1.6
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0211 ± 0.0046	0.0302 ± 0.0055	0.0205 ± 0.0045	0.0280 ± 0.0053
Total Calcium	17.51 ± 0.71	11.25 ± 0.46	20.13 ± 0.81	12.29 ± 0.50
Total Copper	< 0.00053 ± 0.00036	0.00760 ± 0.00084	0.00094 ± 0.00037	0.00131 ± 0.00038
Total Iron	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014	< 0.021 ± 0.014
Total Lead	0.000113 ± 0.000074	0.00225 ± 0.00016	0.000135 ± 0.000074	< 0.00011 ± 0.000074
Total Magnesium	1.88 ± 0.16	3.42 ± 0.28	1.93 ± 0.16	3.22 ± 0.26
Total Manganese	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	0.00071 ± 0.00036
Total Potassium	0.959 ± 0.068	1.014 ± 0.071	1.183 ± 0.080	0.989 ± 0.069
Total Sodium	9.37 ± 0.57	7.02 ± 0.43	6.68 ± 0.41	4.68 ± 0.29
Total Zinc	0.00794 ± 0.00097	0.0700 ± 0.0057	0.00359 ± 0.00079	0.00574 ± 0.00087
Chloride	9.19 ± 0.56	4.42 ± 0.40	4.64 ± 0.40	2.23 ± 0.35
Nitrate-N	3.70 ± 0.29	1.52 ± 0.13	3.03 ± 0.24	1.49 ± 0.12
Sulphate	1.15 ± 0.35	4.47 ± 0.45	3.53 ± 0.41	2.88 ± 0.39

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	G01794	G00675	G00680	G01169
Determinents	Springston Bore	Tai Tapu Bore	Taumutu Bore	Te Pirita Bore
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	0.00054 ± 0.00036	< 0.00053 ± 0.00036	0.00055 ± 0.00036	0.00054 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Fluoride	0.064 ± 0.041	0.076 ± 0.042	0.073 ± 0.041	0.059 ± 0.041
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	8.09	1.32	6.07	22.7
Total Organic Carbon	< 0.5 ± 2.9	1.9 ± 3.4	0.7 ± 1.7	0.6 ± 2.5
Absorbance at 254 nm	< 0.002 ± 0.0021	0.0030 ± 0.0021	0.0130 ± 0.0024	< 0.002 ± 0.0021
Transmittance at 254 nm	> 99.5	99.3	97.0	> 99.5
Turbidity	< 0.05 ± 0.034	< 0.05 ± 0.034	1.33 ± 0.13	0.053 ± 0.034
pH	7.9 ± 0.2	7.9 ± 0.2	7.8 ± 0.2	7.8 ± 0.2
Total Alkalinity	49.1 ± 2.1	60.8 ± 2.6	37.2 ± 1.7	44.9 ± 2.0
Free Carbon Dioxide	1.19 ± 0.56	1.64 ± 0.77	1.29 ± 0.61	1.28 ± 0.60
Total Hardness	49.5 ± 1.8	52.4 ± 1.9	38.4 ± 1.4	61.9 ± 2.3
Electrical Conductivity	14.7 ± 0.4	14.7 ± 0.4	10.7 ± 0.3	15.7 ± 0.4
Electrical Conductivity	147 ± 4	147 ± 4	107 ± 3	157 ± 4
Approx Total Dissolved Salts	98.8 ± 2.1	98.5 ± 2.1	71.9 ± 1.6	105.5 ± 2.2
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0211 ± 0.0046	0.0200 ± 0.0045	0.0186 ± 0.0044	0.0195 ± 0.0045
Total Calcium	16.58 ± 0.67	16.57 ± 0.67	11.94 ± 0.48	20.96 ± 0.84
Total Copper	0.00091 ± 0.00037	< 0.00053 ± 0.00036	0.00165 ± 0.00039	0.00084 ± 0.00036
Total Iron	< 0.021 ± 0.014	< 0.021 ± 0.014	0.173 ± 0.028	< 0.021 ± 0.014
Total Lead	0.000148 ± 0.000074	< 0.00011 ± 0.000074	0.000276 ± 0.000075	0.000233 ± 0.000075
Total Magnesium	1.96 ± 0.16	2.67 ± 0.22	2.08 ± 0.17	2.32 ± 0.19
Total Manganese	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	0.00087 ± 0.00037	< 0.00053 ± 0.00036
Total Potassium	0.892 ± 0.065	0.845 ± 0.062	0.892 ± 0.065	1.127 ± 0.077
Total Sodium	8.60 ± 0.52	9.26 ± 0.56	6.01 ± 0.37	5.21 ± 0.32
Total Zinc	0.00375 ± 0.00079	0.0160 ± 0.0015	0.00689 ± 0.00092	0.00517 ± 0.00084
Chloride	8.86 ± 0.54	6.27 ± 0.45	5.25 ± 0.42	6.14 ± 0.45
Nitrate-N	1.95 ± 0.16	0.291 ± 0.040	1.37 ± 0.11	5.13 ± 0.40
Sulphate	1.54 ± 0.35	2.11 ± 0.37	2.39 ± 0.37	3.06 ± 0.39

CHEMICAL ANALYSIS REPORT

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	G01315	G01957	G01958	G01775
Determinents	Upper Selwyn Huts Bore	West Melton - Elizabeth Allen Dr Bore	West Melton - Jacqueline Dr Bore	West Melton - Royston Common Bore
Total Antimony	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036	< 0.000053 ± 0.000036
Total Chromium	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036	0.00082 ± 0.00037	< 0.00053 ± 0.00036	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034	< 0.005 ± 0.0034	< 0.005 ± 0.0034	0.0070 ± 0.0037
Fluoride	0.076 ± 0.042	< 0.05 ± 0.041	< 0.05 ± 0.041	< 0.05 ± 0.041
Nitrite-N	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045	< 0.007 ± 0.0045
Nitrate	1.02	12.3	10.8	9.1
Total Organic Carbon	< 0.5 ± 3.9	< 0.5 ± 2.6	< 0.5 ± 2.4	1.3 ± 2.4
Absorbance at 254 nm	< 0.002 ± 0.0021	0.0068 ± 0.0022	0.0049 ± 0.0021	0.0071 ± 0.0022
Transmittance at 254 nm	> 99.5	98.4	98.9	98.4
Turbidity	0.059 ± 0.034	3.27 ± 0.29	0.650 ± 0.066	0.099 ± 0.035
pH	7.9 ± 0.2	7.5 ± 0.2	7.6 ± 0.2	7.6 ± 0.2
Total Alkalinity	77.8 ± 3.2	49.8 ± 2.1	48.3 ± 2.1	51.4 ± 2.2
Free Carbon Dioxide	1.93 ± 0.90	3.2 ± 1.5	2.5 ± 1.2	2.5 ± 1.2
Total Hardness	64.6 ± 2.4	60.3 ± 2.2	61.0 ± 2.2	67.4 ± 2.5
Electrical Conductivity	18.1 ± 0.4	15.7 ± 0.4	14.9 ± 0.4	16.5 ± 0.4
Electrical Conductivity	181 ± 4	157 ± 4	149 ± 4	165 ± 4
Approx Total Dissolved Salts	121.3 ± 2.5	104.9 ± 2.2	100.1 ± 2.1	110.6 ± 2.3
Total Arsenic	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074	< 0.0011 ± 0.00074
Total Boron	0.0203 ± 0.0045	0.0225 ± 0.0047	0.0222 ± 0.0047	0.0226 ± 0.0047
Total Calcium	19.67 ± 0.79	19.22 ± 0.77	19.94 ± 0.80	21.92 ± 0.88
Total Copper	0.00206 ± 0.00041	0.0203 ± 0.0021	< 0.00053 ± 0.00036	0.00057 ± 0.00036
Total Iron	< 0.021 ± 0.014	0.195 ± 0.031	0.074 ± 0.018	< 0.021 ± 0.014
Total Lead	0.000655 ± 0.000083	0.000683 ± 0.000084	< 0.00011 ± 0.000074	0.000118 ± 0.000074
Total Magnesium	3.75 ± 0.31	2.99 ± 0.24	2.72 ± 0.22	3.09 ± 0.25
Total Manganese	< 0.00053 ± 0.00036	0.00383 ± 0.00052	0.00161 ± 0.00039	< 0.00053 ± 0.00036
Total Potassium	1.049 ± 0.073	1.095 ± 0.075	1.010 ± 0.071	1.056 ± 0.073
Total Sodium	12.91 ± 0.78	6.82 ± 0.41	5.81 ± 0.35	6.82 ± 0.41
Total Zinc	0.0168 ± 0.0016	0.0710 ± 0.0058	0.0106 ± 0.0012	0.0116 ± 0.0012
Chloride	7.54 ± 0.49	4.77 ± 0.41	4.37 ± 0.40	6.36 ± 0.46
Nitrate-N	0.229 ± 0.038	2.84 ± 0.22	2.53 ± 0.20	3.01 ± 0.24
Sulphate	2.46 ± 0.38	7.27 ± 0.59	7.01 ± 0.58	6.96 ± 0.58

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	G03061
Determinents	West Melton - Ridgeland Way Bore
Total Antimony	< 0.00021 ± 0.00014
Total Barium	< 0.0053 ± 0.00045
Total Cadmium	< 0.000053 ± 0.000036
Total Chromium	< 0.00053 ± 0.00036
Total Mercury	< 0.00008 ± 0.00053
Total Nickel	< 0.00053 ± 0.00036
Total Selenium	< 0.0011 ± 0.00074
Bromide	< 0.05 ± 0.041
Bromate	< 0.005 ± 0.0034
Chlorate	< 0.005 ± 0.0034
Fluoride	< 0.05 ± 0.041
Nitrite-N	< 0.002 ± 0.0014
Nitrite	< 0.007 ± 0.0045
Nitrate	13.2
Total Organic Carbon	< 0.5 ± 1.9
Absorbance at 254 nm	0.0037 ± 0.0021
Transmittance at 254 nm	99.2
Turbidity	0.297 ± 0.043
pH	7.7 ± 0.2
Total Alkalinity	40.1 ± 1.8
Free Carbon Dioxide	1.51 ± 0.71
Total Hardness	45.4 ± 1.7
Electrical Conductivity	12.3 ± 0.3
Electrical Conductivity	123 ± 3
Approx Total Dissolved Salts	82.3 ± 1.8
Total Arsenic	< 0.0011 ± 0.00074
Total Boron	0.0207 ± 0.0046
Total Calcium	15.17 ± 0.61
Total Copper	< 0.00053 ± 0.00036
Total Iron	0.028 ± 0.015
Total Lead	< 0.00011 ± 0.000074
Total Magnesium	1.81 ± 0.15
Total Manganese	0.00134 ± 0.00038
Total Potassium	0.907 ± 0.065
Total Sodium	5.69 ± 0.35
Total Zinc	0.0264 ± 0.0023
Chloride	4.41 ± 0.40
Nitrate-N	2.23 ± 0.18
Sulphate	3.73 ± 0.42