

Watercare Services Limited

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01-Feb-2023

Certificate of Analysis Laboratory Reference:230123-033

Attention: Nz Queenstown Lab Results

7300228298

Client: VEOLIA WATER

Address:

Client Reference:

Purchase Order:

74 Glenda Drive, Frankton, Queenstown, 9300

Sampled By:

Final Report:

494815-0

Report Issue Date: 03-Feb-2023 Received Date: 23-Jan-2023

DH + TH

Laboratory Activity Dates: 23-Jan-2023

Quote Reference:

Sample Details		WATERS	WATERS	WATERS
Lab Sample ID:		230123-033-1	230123-033-2	230123-033-3
Client Sample ID:		S94	QUE001QU	QUE001QU
Sample Date/Time		23/01/2023 08:15	23/01/2023 08:05	23/01/2023 10:20
Description:		Two Mile Source	QUE001QU Fernhill Rd	QUE001QU Manchester Place
Micro Summary View				
Escherichia coli	MPN/100mL	<1.0	-	<1.0
Total Coliforms	MPN/100mL	<1.0	-	<1.0
Chemistry Detailed				
Anions				
Chloride	mg/L	66.2 ± 3.3	-	-
Sulphate	mg/L	2.3 ± 0.27	-	-
Sample Parameters and Field Testin	ıg			
Residual Free Chlorine (as Cl2)	mg/L	-	0.82 ± 0.041	-
Sampled by Watercare Laboratory Services		Yes	Yes	Yes
General Testing				
Total Alkalinity (as CaCO3)	mg/L	<1.0	-	-
Metals				
Total Metals by ICP-MS—Trace (Default	Digest)			
Antimony (Total)	mg/L	<0.001	-	-
Arsenic (Total)	mg/L	0.0012 ± 0.00024	-	-
Barium (Total)	mg/L	0.0019 ± 0.00031	-	-
Cadmium (Total)	mg/L	<0.00005	-	-
Calcium (Total)	mg/L	8.5 ± 1.4	-	-
Chromium (Total)	mg/L	0.001 ± 0.00017	-	-
Copper (Total)	mg/L	0.61 ± 0.11	-	-
Lead (Total)	mg/L	0.014 ± 0.0023	-	-
Magnesium (Total)	mg/L	0.54 ± 0.12	-	-
Mercury (Total)	mg/L	<0.00005	-	-
Nickel (Total)	mg/L	0.025 ± 0.0045	-	-
Sodium (Total)	mg/L	1.1 ± 0.23	-	-

Results marked with * are not accredited to International Accreditation New Zealand. A dash indicates no test performed.

Where samples have been supplied by the client, they are tested as received.

The results of analysis contained in this report relate only to the sample(s) tested. Where sample collection was performed by the laboratory, the results of analysis contained in this report relate only to the sample(s) collected.

Reference Methods

The sample(s) referred to in this report were analysed by	ine following method(s)			
Analyte	Method Reference	MDL	Samples	Location
Micro Summary View				
Escherichia coli	APHA (online edition) 9223 B	1 MPN/100mL	1	Queenstown
Escherichia coli	APHA (online edition) 9223 B	1 MPN/100mL	3	Queenstown
Total Coliforms	APHA (online edition) 9223 B	1 MPN/100mL	1	Queenstown



Queenstown

74 Glenda Drive, Frankton, Queenstown, 9300 T: (03) 409 0559

Invercargill

142 Esk Street, Invercargill, 9810 T: (03) 214 4040

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otal Coliforms	APHA (online edition) 9223 B	1 MPN/100mL	3	Queenstow
Chemistry Detailed				
Anions				
Chloride	APHA (online edition) 4110 B	0.02 mg/L	1	Auckland
Sulphate	APHA (online edition) 4110 B	0.02 mg/L	1	Auckland
Sample Parameters and Field Testing				
Residual Free Chlorine (as Cl2)	APHA (online edition) 4500-CI G	0.02 mg/L	2	At site
Sampled by Watercare Laboratory Services	AS/NZS 5667 Part 4 (Lakes), Part 5 (Drinking Water), Part 6 (Rivers/Streams), Part 7 (Boiler s), Part 9 (Marine), Part 10 (Waste Waters), Part 11 (Groundwaters) and In-House Methods	·	All	At site
General Testing				
Total Alkalinity (as CaCO3) by Titration	APHA (online edition) 2320 B	1 mg/L	1	Auckland
Metals				
Total Metals by ICP-MS—Trace (Default Digest)				
Antimony (Total)	APHA (online edition) 3125 B by ICPMS	0.001 mg/L	1	Auckland
Arsenic (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	1	Auckland
Barium (Total)	APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	1	Auckland
Cadmium (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	1	Auckland
Calcium (Total)	APHA (online edition) 3125 B by ICPMS	0.01 mg/L	1	Auckland
Chromium (Total)	APHA (online edition) 3125 B by ICPMS	0.0005 mg/L	1	Auckland
Copper (Total)	APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	1	Auckland
ead (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	1	Auckland
Magnesium (Total)	APHA (online edition) 3125 B by ICPMS	0.001 mg/L	1	Auckland
Mercury (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	1	Auckland
Nickel (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	1	Auckland
Sodium (Total)	APHA (online edition) 3125 B by ICPMS	0.1 mg/L	1	Auckland
Preparations				
Digest for Total Metals in Liquids	APHA 3030E Modified (4:1 Nitric:Hydrochloric Acid: 95°C 2 hours)		1	Auckland
Membrane Filtration (0.45 μm)	APHA (online edition) 4500-P B (preliminary filtration)		1	Auckland

Samples, with suitable preservation and stability of analytes, will be held by the laboratory for a period of two weeks after results have been reported, unless otherwise advised by the submitter.

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David Hoekendijk

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KTP Signatory

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