

Watercare Services Limited

52 Aintree Ave, Mangere, Auckland, 2022 PO Box 107028, Auckland, 2150 T: 0800 522 365 clientsupport@water.co.nz www.watercarelabs.co.nz

Certificate of Analysis Laboratory Reference:230125-031

Attention: Nz Queenstown Lab Results Client:

VEOLIA WATER Address:

74 Glenda Drive, Frankton, Queenstown, 9300

Sampled By:

Final Report:

Report Issue Date:

Received Date:

Client Reference:

Laboratory Activity Dates:

Quote Reference: 48

25-Jan-2023 10-Feb-2023

496081-0

DН

13-Feb-2023

25-Jan-2023

Purchase Order: 7300228298

Sample Details		WATERS	WATERS
Lab Sample ID:		230125-031-1	230125-031-2
Client Sample ID:		S95	QUE001QU
Sample Date/Time		25/01/2023 08:30	25/01/2023 09:25
Description:		Kelvin Heights Source	QUE001QU Gorge Rd
Micro Summary View	I		
Escherichia coli	MPN/100mL	<1.0	-
Total Coliforms	MPN/100mL	5.2	-
Chemistry Detailed			
Anions			
Chloride	mg/L	0.649 ± 0.045	-
Sulphate	mg/L	4.6 ± 0.55	-
Sample Parameters and Field Testin	ng		
Residual Free Chlorine (as Cl2)	mg/L	-	0.99 ± 0.05
Sampled by Watercare Laboratory		Yes	Yes
Services			
General Testing			
Total Alkalinity (as CaCO3)	mg/L	22	-
Metals			
Total Metals by ICP-MS—Trace (Defaul	t Digest)		
Antimony (Total)	mg/L	<0.001	-
Arsenic (Total)	mg/L	0.0012 ± 0.00025	-
Barium (Total)	mg/L	0.002 ± 0.00033	-
Cadmium (Total)	mg/L	<0.00005	-
Calcium (Total)	mg/L	8.5 ± 1.4	-
Chromium (Total)	mg/L	0.00058 ± 0.000094	-
Copper (Total)	mg/L	0.0021 ± 0.0004	-
Lead (Total)	mg/L	0.00033 ± 0.000055	-
Magnesium (Total)	mg/L	0.53 ± 0.12	-
Mercury (Total)	mg/L	<0.00005	-
Nickel (Total)	mg/L	0.00032 ± 0.000056	-
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 the following method(s)						
Analyte	Method Reference	MDL	Samples	Location		
Micro Summary View						
Escherichia coli	APHA (online edition) 9223 B	1 MPN/100mL	1	Queenstown		
Total Coliforms	APHA (online edition) 9223 B	1 MPN/100mL	1	Queenstown		
Chemistry Detailed						



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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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
Lead (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
	limit attainable in a relatively clean matrix. If dilutions are requione information please contact the Compliance and Projects in		ection limit may	be higher.

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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Chandra Sharma

KTP Signatory

Chemistry Detailed

Anel Du Preez

KTP Signatory

David Hoekendijk

and Hockerduk

KTP Signatory



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