Watercare Laboratory Services

Watercare Services Limited

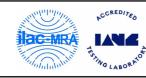
52 Aintree Ave, Māngere, Auckland, 2022 PO Box 107028, Auckland, 2150 T: 0800 522 365 clientsupport@water.co.nz www.watercarelabs.co.nz

Certificate of Analysis									
Attention: Client: Address:	Laboratory Refere Nz Queenstown Lab Results VEOLIA WATER 74 Glenda Drive, Frankton, Queenstown, 9300		Final Report: Report Issue Date: Received Date: Sampled By:	496596-0 15-Feb-2023 17-Jan-2023 DH	Replaces Report	493897-0			
Client Reference: Purchase Order:	7300228298	Laboratory Activity Dates: Quote Reference :	17-Jan-2023 48	- 28-Jan-2023					
Amended report: F	Please note added metal results	for sample 230117-034	I-2.						
Sample Details		WATERS	WATERS						
Lab Sample ID: Client Sample ID: Sample Date/Time Description:		230117-034-1 GLE003GL 17/01/2023 08:50 GLE003GL Mull St	230117-034-2 S477 17/01/2023 08:40 Glenorchy Source						
Micro Summary Vi	iew		,						
Escherichia coli Total Coliforms	MPN/100mL MPN/100mL	<1.0 <1.0	<1.0 <1.0						
Chemistry Detailed	d								
Anions									
Chloride	mg/L	-	1.07 ± 0.053						
Nitrate (as N)	mg/L mg/L	-	0.341 ± 0.024						
Sulphate	-	-	4.9 ± 0.59						
Oxygenated Halides	s/Bromide mg/L	.0.005							
Bromate Bromide	mg/L	<0.005 <0.005	-						
Chlorate	mg/L	< 0.005	-						
Chlorite	mg/L	<0.005	-						
Perchlorate	mg/L	<0.005	-						
	rs and Field Testing								
Sampled by Waterca Services	<u> </u>	Yes	Yes						
General Testing									
Total Alkalinity (as C	aCO3) mg/L	-	75						
True Colour (Dissolv		-	<5.0 *						
Metals									

Total Metals by ICP-MS—Trace (Default Digest) Antimony (Total)

Antimony (Total)	mg/L _	<0.001
Arsenic (Total)	mg/L _	0.0055 ± 0.0011
Barium (Total)	mg/L _	0.0031 ± 0.00051
Cadmium (Total)	mg/L _	<0.00005
Calcium (Total)	mg/L _	29 ± 4.6
Chromium (Total)	mg/L _	0.00062 ± 0.0001
Copper (Total)	mg/L _	0.0059 ± 0.0011
Iron (Total)	mg/L _	<0.002
Lead (Total)	mg/L _	0.00065 ± 0.00011
Magnesium (Total)	mg/L _	1.1 ± 0.25
Manganese (Total)	mg/L _	<0.0005
Mercury (Total)	mg/L _	<0.00005
Nickel (Total)	mg/L _	0.00013 ± 0.000023
Sodium (Total)	mg/L _	1.6 ± 0.33

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



74 Glenda Drive, Frankton, Queenstown, 9300 T: (03) 409 0559 Invercargill 142 Esk Street, Invercargill, 9810 T: (03) 214 4040 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.

Analyst's Notes				
The Nitrate (as N) analysis for sample Glenorchy Source	commenced beyond the holding time of 2 Days			
Reference Methods				
The sample(s) referred to in this report were analys	ed by the following method(s)			
Analyte	Method Reference	MDL	Samples	Location
Micro Summary View				
Escherichia coli	APHA (online edition) 9223 B	1 MPN/100mL	2	Queenstown
Escherichia coli	APHA (online edition) 9223 B	1 MPN/100mL	1	Queenstown
Total Coliforms	APHA (online edition) 9223 B	1 MPN/100mL	2	Queenstow
Total Coliforms	APHA (online edition) 9223 B	1 MPN/100mL	1	Queenstown
Chemistry Detailed				
Anions				
Chloride	APHA (online edition) 4110 B	0.02 mg/L	2	Auckland
Nitrate (as N)	APHA (online edition) 4110 B	0.002 mg/L	2	Auckland
Sulphate	APHA (online edition) 4110 B	0.02 mg/L	2	Auckland
Dxygenated Halides/Bromide	· ·	-		
Bromate	USEPA 300.0 (modified)	0.005 mg/L	1	Auckland
Bromide	USEPA 300.0 (modified)	0.005 mg/L	1	Auckland
Chlorate	USEPA 300.0 (modified)	0.01 mg/L	1	Auckland
Chlorite	USEPA 300.0 (modified)	0.005 mg/L	1	Auckland
Perchlorate	USEPA 300.0 (modified)	0.005 mg/L	1	Auckland
Sample Parameters and Field Testing				
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				
Fotal Alkalinity (as CaCO3) by Titration	APHA (online edition) 2320 B	1 mg/L	2	Auckland
Frue Colour (Dissolved) by Colour Comparator	APHA (online edition) 2120 B	5 Hazen Units	2	Auckland
Metals				
otal Metals by ICP-MS—Trace (Default Digest)				
Antimony (Total)	APHA (online edition) 3125 B by ICPMS	0.001 mg/L	2	Auckland
Arsenic (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	2	Auckland
Barium (Total)	APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	2	Auckland
Cadmium (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	2	Auckland
Calcium (Total)	APHA (online edition) 3125 B by ICPMS	0.01 mg/L	2	Auckland
Chromium (Total)	APHA (online edition) 3125 B by ICPMS	0.0005 mg/L	2	Auckland
Copper (Total)	APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	2	Auckland
ron (Total)	APHA (online edition) 3125 B by ICPMS	0.002 mg/L	2	Auckland
_ead (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	2	Auckland
Magnesium (Total)	APHA (online edition) 3125 B by ICPMS	0.001 mg/L	2	Auckland
Manganese (Total)	APHA (online edition) 3125 B by ICPMS	0.0005 mg/L	2	Auckland
Nercury (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	2	Auckland
lickel (Total)	APHA (online edition) 3125 B by ICPMS	0.0001 mg/L	2	Auckland
Sodium (Total)	APHA (online edition) 3125 B by ICPMS	0.1 mg/L	2	Auckland
Preparations				
Digest for Total Metals in Liquids	APHA 3030E Modified (4:1 Nitric:Hydrochloric Acid: 95°C 2 hours)		2	Auckland
Membrane Filtration (0.45 μm)	APHA (online edition) 4500-P B (preliminary filtration)		2	Auckland

The method detection limit (MDL) listed is the limit attainable in a relatively clean matrix. If dilutions are required for analysis the detection limit may be higher. For more information please contact the Compliance and Projects Manager.



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

Zum Nguyen KTP Signatory

Anel Du Preez KTP Signatory



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