20/10/2023

7300305158

SPECIFICATIONS



Food & Water Testing

AR-23-NC-028245-01

ANALYTICAL REPORT

REPORT DATE

Purchase Order Number:

LOQ

Veolia Water Services (ANZ) Pty Ltd Attention

NZ Queenstown Lab Results

74 Glenda Drive

Frankton

9300 Queenstown

NEW ZEALAND

Phone 03 450 9240

REPORT CODE

Email nz.queenstown.lab-results.all.groups@veolia.com

Contact for your orders: James Thornton Order code: EUNZCH-00152486

Contract: **Drinking Water**

817-2023-00107885 SAMPLE CODE

Product: Raw water

Q_UWI_ARTHURS_RAW Sampling Point name: Arthurs Point Source, S478 Sampling Point code:

04/10/2023 11:58 Reception temperature: 5.9 Reception Date & Time: 14/10/2023

Analysis Start Date & Time: 04/10/2023 11:58 **Analysis Ending Date:**

RESULTS (UNCERTAINTY)

Sampled Date & Time 04/10/2023 10:10 Francisco Cabanas Francisco Sampler(s)

Sampling Purpose Sampled By Eurofins Monitoring

			•	,,	
②NW007	Chloride Chloride (Cl)	1.10	(± 0.11) mg/l	0.02	
②NW011	Sulphate Sulphate	18.0	(± 0.90) mg/l	0.02	
②NW003	Total Alkalinity Alkalinity total	104	(± 10) mg CaCO3/I	1	
②NW148	Total Antimony Antimony (Sb)	<0.002	mg/l	0.002	50% MAV 0.01 mg/l ✓ Client Specification
②NW149	Total Arsenic Arsenic (As)	<0.002	mg/l	0.002	50% MAV 0.005 mg/l ✓ Client Specification
②NW150	Total Barium Barium (Ba)	<0.005	mg/l	0.005	50% MAV 0.75 mg/l ✓ Client Specification
②NW154	Total Cadmium Cadmium (Cd)	<0.001	mg/l	0.001	50% MAV 0.002 mg/l ✓ Client Specification
②NW156	Total Calcium Calcium (Ca)	32.5	mg/l	0.1	
②NW157	Total Chromium Chromium (Cr)	<0.001	mg/l	0.001	50% MAV 0.025 mg/l ✓ Client Specification
②NW159	Total Copper Copper (Cu)	<0.002	mg/l	0.002	50% MAV 1.0 mg/l ✓ Client Specification
②NW161	Total Lead Lead (Pb)	<0.001	mg/l	0.001	50% MAV 0.005 mg/l ✓ Client Specification
②NW163	Total Magnesium Magnesium (Mg)	2.6	mg/l	0.1	
②NW165	Total Mercury Mercury (Hg)	<0.001	mg/l	0.001	50% MAV 0.0035 mg/l ✓ Client Specification



		RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
②NW167	Total Nickel Nickel (Ni)	<0.001	mg/l	0.001	50% MAV 0.04 mg/l ✓ Client Specification
②NW171	Total Sodium Sodium (Na)	2.2	mg/l	0.1	

SAMPLE CODE **817-2023-00107886**

Product: Raw water

Sampling Point code: ATH_GLENORCHY_RAW Sampling Point name: Glenorchy Source, S477

Reception Date & Time: 04/10/2023 11:58 Reception temperature: 5.9

Analysis Start Date & Time: 04/10/2023 11:58

Analysis Ending Date: 19/10/2023

Sampled Date & Time 04/10/2023 08:34

Sampler(s) Francisco Cabanas Francisco

Sampling Purpose Monitoring Sampled By Eurofins Yes

		RESULT	S (UNCERTAINTY)	LOQ	SPECIFICATIONS
)NW007	Chloride Chloride (CI)	0.91	(± 0.18) mg/l	0.02	
NW011	Sulphate Sulphate	5.64	(± 0.56) mg/l	0.02	
NW003	Total Alkalinity Alkalinity total	54	(± 5) mg CaCO3/I	1	
NW148	Total Antimony Antimony (Sb)	0.005	mg/l	0.002	50% MAV 0.01 mg/l ✓ Client Specification
NW149	Total Arsenic Arsenic (As)	0.004	mg/l	0.002	50% MAV 0.005 mg/l ✓ Client Specification
NW150	Total Barium Barium (Ba)	<0.005	mg/l	0.005	50% MAV 0.75 mg/l ✓ Client Specification
NW154	Total Cadmium Cadmium (Cd)	<0.001	mg/l	0.001	50% MAV 0.002 mg/l ✓ Client Specification
NW156	Total Calcium Calcium (Ca)	16.8	mg/l	0.1	
NW157	Total Chromium Chromium (Cr)	<0.001	mg/l	0.001	50% MAV 0.025 mg/l ✓ Client Specification
NW159	Total Copper Copper (Cu)	0.005	mg/l	0.002	50% MAV 1.0 mg/l ✓ Client Specification
NW161	Total Lead Lead (Pb)	<0.001	mg/l	0.001	50% MAV 0.005 mg/l ✓ Client Specification
NW163	Total Magnesium Magnesium (Mg)	0.7	mg/l	0.1	
NW165	Total Mercury Mercury (Hg)	<0.001	mg/l	0.001	50% MAV 0.0035 mg/l ✓ Client Specification
NW167	Total Nickel Nickel (Ni)	<0.001	mg/l	0.001	50% MAV 0.04 mg/l ✓ Client Specification
NW171	Total Sodium Sodium (Na)	0.9	mg/l	0.1	



SAMPLE CODE **817-2023-00107892**

Product: Raw water

Sampling Point code: Q_UWI_ARROWTOWN_RAW Sampling Point name: Arrowtown Source, S3

Reception Date & Time: 04/10/2023 12:04 Reception temperature: 5.9

Analysis Start Date & Time: 04/10/2023 12:04 Analysis Ending Date: 14/10/2023

Sampled Date & Time 04/10/2023 11:08 Sampler(s) Francisco Cabanas Francisco

Sampling Purpose Monitoring Sampled By Eurofins Yes

		RESULTS	(UNCERTAINTY)	LOQ	SPECIFICATIONS	
②NW007	Chloride Chloride (CI)	3.23	(± 0.32) mg/l	0.02		
②NW011	Sulphate Sulphate	10.5	(± 0.53) mg/l	0.02		
②NW003	Total Alkalinity Alkalinity total	96	(± 10) mg CaCO3/l	1		
②NW148	Total Antimony Antimony (Sb)	<0.002	mg/l	0.002	50% MAV 0.01 mg/l ✓	Client Specification
②NW149	Total Arsenic Arsenic (As)	<0.002	mg/l	0.002	50% MAV 0.005 mg/l ✓	Client Specification
②NW150	Total Barium Barium (Ba)	0.009	mg/l	0.005	50% MAV 0.75 mg/l ✓	Client Specification
②NW154	Total Cadmium Cadmium (Cd)	<0.001	mg/l	0.001	50% MAV 0.002 mg/l ✓	Client Specification
②NW156	Total Calcium Calcium (Ca)	28.1	mg/l	0.1		
②NW157	Total Chromium Chromium (Cr)	<0.001	mg/l	0.001	50% MAV 0.025 mg/l ✓	Client Specification
②NW159	Total Copper Copper (Cu)	0.014	mg/l	0.002	50% MAV 1.0 mg/l ✓	Client Specification
②NW161	Total Lead Lead (Pb)	<0.001	mg/l	0.001	50% MAV 0.005 mg/l ✓	Client Specification
②NW163	Total Magnesium Magnesium (Mg)	4.4	mg/l	0.1		
②NW165	Total Mercury Mercury (Hg)	<0.001	mg/l	0.001	50% MAV 0.0035 mg/l ✓	Client Specification
②NW167	Total Nickel Nickel (Ni)	<0.001	mg/l	0.001	50% MAV 0.04 mg/l ✓	Client Specification
②NW171	Total Sodium Sodium (Na)	2.5	mg/l	0.1		

SAMPLE CODE **817-2023-00107977**

Product: Raw water

Sampling Point code: UWI_QT_KEL_RAW Sampling Point name: Kelvin Heights Source, S95

Reception Date & Time: 04/10/2023 13:56 Reception temperature: 5.9

Analysis Start Date & Time: 04/10/2023 13:56 Analysis Ending Date: 14/10/2023

Sampled Date & Time 04/10/2023 12:19 Sampler(s) Francisco Cabanas Francisco

Sampling Purpose Monitoring Sampled By Eurofins Ye

RESULTS (UNCERTAINTY) LOQ SPECIFICATIONS

②NW007 Chloride

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		RESULTS	(UNCERTAINTY)	LOQ	SPECIFICATIONS
②NW007	Chloride Chloride (CI)	0.73	(± 0.15) mg/l	0.02	
②NW011	Sulphate Sulphate	4.87	(± 0.49) mg/l	0.02	
②NW003	Total Alkalinity Alkalinity total	21	(± 2) mg CaCO3/I	1	
②NW148	Total Antimony Antimony (Sb)	<0.002	mg/l	0.002	50% MAV 0.01 mg/l ✓ Client Specification
②NW149	Total Arsenic Arsenic (As)	<0.002	mg/l	0.002	50% MAV 0.005 mg/l ✓ Client Specification
②NW150	Total Barium Barium (Ba)	<0.005	mg/l	0.005	50% MAV 0.75 mg/l ✓ Client Specification
②NW154	Total Cadmium Cadmium (Cd)	<0.001	mg/l	0.001	50% MAV 0.002 mg/l ✓ Client Specification
②NW156	Total Calcium Calcium (Ca)	7.6	mg/l	0.1	
②NW157	Total Chromium Chromium (Cr)	<0.001	mg/l	0.001	50% MAV 0.025 mg/l ✓ Client Specification
②NW159	Total Copper Copper (Cu)	0.002	mg/l	0.002	50% MAV 1.0 mg/l ✓ Client Specification
②NW161	Total Lead Lead (Pb)	<0.001	mg/l	0.001	50% MAV 0.005 mg/l ✓ Client Specification
②NW163	Total Magnesium Magnesium (Mg)	0.5	mg/l	0.1	
②NW165	Total Mercury Mercury (Hg)	<0.001	mg/l	0.001	50% MAV 0.0035 mg/l ✓ Client Specification
②NW167	Total Nickel Nickel (Ni)	<0.001	mg/l	0.001	50% MAV 0.04 mg/l ✓ Client Specification
@NW171	Total Sodium Sodium (Na)	0.9	mg/l	0.1	

SAMPLE CODE	817-2023-00108177
	017 2020 00100177

Product: Raw water

Sampling Point code: UWI_LUGGATE_RAW Sampling Point name: Luggate Source, S2228

Reception Date & Time: 04/10/2023 16:41

Analysis Start Date & Time: 04/10/2023 16:41

Analysis Ending Date: 17/10/2023

Sampled Date & Time 04/10/2023 11:34 Sampler(s) Tomas Hais

Sampling Purpose Monitoring Sampled By Eurofins Yes

Camping rurpose		Monitoring	Campled by Edicinis 103				
		RESULTS	S (UNCERTAINTY)	LOQ	SPECIFICATIONS		
②NW007	Chloride Chloride (Cl)	2.71	(± 0.27) mg/l	0.02			
②NW011	Sulphate Sulphate	3.61	(± 0.36) mg/l	0.02			
@NW003	Total Alkalinity Alkalinity total	89	(± 9) mg CaCO3/I	1			
②NW148	Total Antimony Antimony (Sb)	<0.002	mg/l	0.002	50% MAV 0.01 mg/l ✓ Client	Specification	

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Hawea Source, S3230



Food & Water Testing

		RESULT	S (UNCERTAINTY)	LOQ	SPECIFICATIONS	
②NW149	Total Arsenic Arsenic (As)	<0.002	mg/l	0.002	50% MAV 0.005 mg/l ✓ Client S	Specification
②NW150	Total Barium Barium (Ba)	0.005	mg/l	0.005	50% MAV 0.75 mg/l ✓ Client S	Specification
②NW154	Total Cadmium Cadmium (Cd)	<0.001	mg/l	0.001	50% MAV 0.002 mg/l ✓ Client S	Specification
②NW156	Total Calcium Calcium (Ca)	10.2	mg/l	0.1		
②NW157	Total Chromium Chromium (Cr)	<0.001	mg/l	0.001	50% MAV 0.025 mg/l ✓ Client S	Specification
②NW159	Total Copper Copper (Cu)	<0.002	mg/l	0.002	50% MAV 1.0 mg/l ✓ Client S	Specification
②NW161	Total Lead Lead (Pb)	<0.001	mg/l	0.001	50% MAV 0.005 mg/l ✓ Client S	Specification
②NW163	Total Magnesium Magnesium (Mg)	1.9	mg/l	0.1		
②NW165	Total Mercury Mercury (Hg)	<0.001	mg/l	0.001	50% MAV 0.0035 mg/l ✓ Client S	Specification
②NW167	Total Nickel Nickel (Ni)	<0.001	mg/l	0.001	50% MAV 0.04 mg/l ✓ Client S	Specification
②NW171	Total Sodium Sodium (Na)	19.7	mg/l	0.1		

Product: Raw water

Sampling Point code: Q_UWI_HAWEA_RAW

Reception Date & Time: 04/10/2023 16:43 **Analysis Start Date & Time:** 04/10/2023 16:43

Analysis Start Date & Time: 04/10/2023 16:43 **Sampled Date & Time** 04/10/2023 12:20

Sampling Purpose Monitoring

Sampling Point name:

Reception temperature: 5.9

Analysis Ending Date: 20/10/2023 Sampler(s) Tomas Hais

Sampled By Eurofins Yes

		RESULT	S (UNCERTAINTY)	LOQ	SPECIFICATIONS
NW007	Chloride Chloride (CI)	0.09	(± 0.02) mg/l	0.02	
NW011	Sulphate Sulphate	3.81	(± 0.38) mg/l	0.02	
NW003	Total Alkalinity Alkalinity total	27	(± 3) mg CaCO3/I	1	
NW148	Total Antimony Antimony (Sb)	<0.002	mg/l	0.002	50% MAV 0.01 mg/l ✓ Client Specification
NW149	Total Arsenic Arsenic (As)	<0.002	mg/l	0.002	50% MAV 0.005 mg/l ✓ Client Specification
NW150	Total Barium Barium (Ba)	<0.005	mg/l	0.005	50% MAV 0.75 mg/l ✓ Client Specification
NW154	Total Cadmium Cadmium (Cd)	<0.001	mg/l	0.001	50% MAV 0.002 mg/l ✓ Client Specification
NW156	Total Calcium Calcium (Ca)	8.7	mg/l	0.1	

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		RESULTS	(UNCERTAINTY)	LOQ	SPECIFICATIONS	
②NW157	Total Chromium Chromium (Cr)	<0.001	mg/l	0.001	50% MAV 0.025 mg/l	✓ Client Specification
②NW159	Total Copper Copper (Cu)	<0.002	mg/l	0.002	50% MAV 1.0 mg/l	✓ Client Specification
@NW161	Total Lead Lead (Pb)	<0.001	mg/l	0.001	50% MAV 0.005 mg/l	✓ Client Specification
②NW163	Total Magnesium Magnesium (Mg)	0.6	mg/l	0.1		
②NW165	Total Mercury Mercury (Hg)	<0.001	mg/l	0.001	50% MAV 0.0035 mg/l	✓ Client Specification
②NW167	Total Nickel Nickel (Ni)	<0.001	mg/l	0.001	50% MAV 0.04 mg/l	✓ Client Specification
@NW171	Total Sodium Sodium (Na)	1.1	mg/l	0.1		

SAMPLE CODE **817-2023-00108251**

Product: Raw water

Sampling Point code: Q_UWI_GLENDU_RAW Sampling Point name: Glendhu Bay Source, S2050

Reception Date & Time: 04/10/2023 16:44 Reception temperature: 5.9

 Analysis Start Date & Time: 04/10/2023 16:44
 Analysis Ending Date: 20/10/2023
 20/10/2023

 Sampled Date & Time
 04/10/2023 08:43
 Sampler(s)
 Tomas Hais

Sampling Purpose Monitoring Sampled By Eurofins Yes

		RESULTS	(UNCERTAINTY)	LOQ	SPECIFICATIONS
②NW007	Chloride Chloride (Cl)	0.24	(± 0.05) mg/l	0.02	
②NW011	Sulphate Sulphate	3.77	(± 0.38) mg/l	0.02	
②NW003	Total Alkalinity Alkalinity total	30	(± 3) mg CaCO3/I	1	
②NW148	Total Antimony Antimony (Sb)	<0.002	mg/l	0.002	50% MAV 0.01 mg/l ✓ Client Specification
②NW149	Total Arsenic Arsenic (As)	<0.002	mg/l	0.002	50% MAV 0.005 mg/l ✓ Client Specification
②NW150	Total Barium Barium (Ba)	<0.005	mg/l	0.005	50% MAV 0.75 mg/l ✓ Client Specification
②NW154	Total Cadmium Cadmium (Cd)	<0.001	mg/l	0.001	50% MAV 0.002 mg/l ✓ Client Specification
②NW156	Total Calcium Calcium (Ca)	9.6	mg/l	0.1	
②NW157	Total Chromium Chromium (Cr)	<0.001	mg/l	0.001	50% MAV 0.025 mg/l ✓ Client Specification
②NW159	Total Copper Copper (Cu)	<0.002	mg/l	0.002	50% MAV 1.0 mg/l ✓ Client Specification
②NW161	Total Lead Lead (Pb)	<0.001	mg/l	0.001	50% MAV 0.005 mg/l ✓ Client Specification
@NW163	Total Magnesium Magnesium (Mg)	0.5	mg/l	0.1	



		RESULT	S (UNCERTAINT)	() LOQ	SPECIFICATIONS	
2NW165	Total Mercury Mercury (Hg)	<0.001	mg/l	0.001	50% MAV 0.0035 mg/l ✓ Client Specification	
2NW167	Total Nickel Nickel (Ni)	<0.001	mg/l	0.001	50% MAV 0.04 mg/l ✓ Client Specification	
②NW171	Total Sodium Sodium (Na)	1.5	mg/l	0.1		
LIST OF	METHODS					
NW003	Total Alkalinity: APHA Online Edition 2320 B		N'	W007 Chloride: APHA Online Edition 4110 B		
NW011	Sulphate: APHA Online Edition 4110 B		W148 Total Ant	48 Total Antimony: APHA Online Edition 3125 B mod.		
NW149	Total Arsenic: APHA Online Edition 3125 B mod.			W150 Total Bar	Total Barium: APHA Online Edition 3125 B mod.	
NW154	Total Cadmium: APHA Online Edition 3125 B mod.			W156 Total Cal	Total Calcium: APHA Online Edition 3125 B mod.	
NW157	Total Chromium: APHA Online Edition 3125 B mod.			W159 Total Cop	Total Copper: APHA Online Edition 3125 B mod.	
NW161	Total Lead: APHA Online Edition 3125 B mod.			W163 Total Mag	Total Magnesium: APHA Online Edition 3125 B mod.	

Signature



David Hoekendijk Team Lead KTP

EXPLANATORY NOTE

NW171

- Test is not accredited
- ②Test is subcontracted within Eurofins group and is accredited

NW165 Total Mercury: APHA Online Edition 3125 B mod.

Total Sodium: APHA Online Edition 3125 B mod.

- Test is subcontracted within Eurofins group and is not accredited
- Test is subcontracted outside Eurofins group and is accredited
- Test is subcontracted outside Eurofins group and is not accredited
- **®** Test result is provided by the customer and is not accredited
- Tested at the sampling point by Eurofins and is not accredited
- ® Tested at the sampling point by Eurofins and is accredited
- Test is RLP accredited
- Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

NW167 Total Nickel: APHA Online Edition 3125 B mod.

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit



The test result(s) in this report apply only to the sample as received.

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The tests are identified by a five-digit code, their description is available on request.

Accreditation does not apply to comments or graphical representations.

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END OF REPORT