

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-25-NC-031120-01** REPORT DATE **22/10/2025**

Attention Apex Water Limited
Tessa Wright
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NEW ZEALAND

Phone
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Copy to: Godwin-Mathewson (Joshua.GM@apexwater.co.nz)

Contact for your orders: James Thornton
Contract: Cardrona Valley WTP
Submission Reference: Final Effluent
Order code: EUNZCH-00233246
Purchase Order Number: 7025

SAMPLE CODE **817-2025-00103287**

Product: Surface water, raw water
Sampling Point code: NC0001259013
Reception Date & Time: 16/10/2025 15:22
Analysis Started on: 16/10/2025
Product Type Surface water, raw water
Sampler(s) Tomas Hais
Sampled By Eurofins Yes
Sampling Point name: Cardrona River Intake Raw Water
Reception temperature: 3 °C
Analysis Ending Date: 22/10/2025
Sampled Date & Time 16/10/2025 13:44
Sampling Purpose Monitoring

	RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
②NW003 Total Alkalinity			
Alkalinity total	33 (± 3) mg CaCO ₃ /l	1	
②NW007 Chloride			
Chloride (Cl)	0.66 (± 0.07) mg/l	0.02	
②NW010 Nitrate-N			
Nitrate-N	0.01 (± 0.00) mg/l	0.01	
②NW011 Sulphate			
Sulphate	2.34 (± 0.23) mg/l	0.02	
②NW030 Total Hardness			
Hardness	32 (± 3) mg CaCO ₃ /l	1	
②NW148 Total Antimony			
Antimony (Sb)	<0.002 (± 0.003) mg/l	0.002	50% MAV 0.01 mg/l ✓ Client Specification
②NW149 Total Arsenic			
Arsenic (As)	<0.002 (± 0.003) mg/l	0.002	50% MAV 0.005 mg/l ✓ Client Specification
②NW150 Total Barium			
Barium (Ba)	0.010 (± 0.003) 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)	11.2 (± 1.1) mg/l	0.1	
②NW157 Total Chromium			
Chromium (Cr)	<0.001 (± 0.003) mg/l	0.001	50% MAV 0.025 mg/l ✓ Client Specification
②NW159 Total Copper			
Copper (Cu)	<0.002 (± 0.003) mg/l	0.002	50% MAV 1.0 mg/l ✓ Client Specification
②NW160 Total Iron			

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	RESULTS (UNCERTAINTY)	LOQ	SPECIFICATIONS
②NW160 Total Iron			
Iron (Fe)	0.4 (± 0.0) mg/l	0.1	
②NW161 Total Lead			
Lead (Pb)	<0.001 (± 0.003) mg/l	0.001	50% MAV 0.005 mg/l ✓ Client Specification
②NW163 Total Magnesium			
Magnesium (Mg)	1.1 (± 0.1) mg/l	0.1	
②NW164 Total Manganese			
Manganese (Mn)	0.023 (± 0.004) mg/l	0.001	
②NW165 Total Mercury			
Mercury (Hg)	<0.001 (± 0.003) mg/l	0.001	50% MAV 0.0035 mg/l ✓ Client Specification
②NW167 Total Nickel			
Nickel (Ni)	<0.001 (± 0.003) mg/l	0.001	50% MAV 0.04 mg/l ✓ Client Specification
②NW171 Total Sodium			
Sodium (Na)	1.3 (± 0.1) mg/l	0.1	
②NW331 Colour			
Colour	5 Colour unit	5	
ZM12D Enumeration (Colilert-18 97-Well) of Total Coliforms using Quanti-Tray2000			
Total Coliforms	235.9 MPN/100 ml	1	
ZM2LF Enumeration (Colilert-18 97-Well) of Escherichia coli using Quanti-Tray2000			
Escherichia coli	6.3 MPN/100 ml	1	

LIST OF METHODS

NW003 Total Alkalinity: APHA 24th Edition 2320 B	NW007 Chloride: APHA 24th Edition 4110 B
NW010 Nitrate-N: APHA 24th Edition 4110 B	NW011 Sulphate: APHA 24th Edition 4110 B
NW030 Total Hardness: APHA 24th Edition 2340 B	NW148 Total Antimony: APHA 24th Edition 3125 B mod.
NW149 Total Arsenic: APHA 24th Edition 3125 B mod.	NW150 Total Barium: APHA 24th Edition 3125 B mod.
NW154 Total Cadmium: APHA 24th Edition 3125 B mod.	NW156 Total Calcium: APHA 24th Edition 3125 B mod.
NW157 Total Chromium: APHA 24th Edition 3125 B mod.	NW159 Total Copper: APHA 24th Edition 3125 B mod.
NW160 Total Iron: APHA 24th Edition 3125 B mod.	NW161 Total Lead: APHA 24th Edition 3125 B mod.
NW163 Total Magnesium: APHA 24th Edition 3125 B mod.	NW164 Total Manganese: APHA 24th Edition 3125 B mod.
NW165 Total Mercury: APHA 24th Edition 3125 B mod.	NW167 Total Nickel: APHA 24th Edition 3125 B mod.
NW171 Total Sodium: APHA 24th Edition 3125 B mod.	NW331 Colour: APHA 24th Edition 2120 C
ZM12D Total Coliforms E [QNT] <1 >2 420 MPN/100 ml (0) Colilert-18-Q: SMEWW 9223B; APHA 24th Edition	ZM2LF Escherichia coli E [QNT] <1 >2 420 MPN/100 ml (0) Colilert-18-Q: SMEWW 9223B; APHA 24th Edition

Signature



Tomas Hais

Field Technician Eurofins
ELS Limited



David Hoekendijk

Team Lead Eurofins ELS
Limited

EXPLANATORY NOTE

Food & Water Testing

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
- ④ Test is subcontracted outside Eurofins group and is accredited
- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited
- ⑨ Test is RLP accredited
- ⑩ 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)

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

✗ (Unsatisfactory) means does not meet the specification

✓ (Satisfactory) means meets the specification

MAV means Maximum Allowable Value

The Customer acknowledges and accepts that: (a) where Eurofins is not responsible for sampling, the test result(s) in this report apply only to the sample as received. Customer is solely responsible for the sampling process and warrants that the sample provided to Eurofins is representative of the lot / batch from which the samples were drawn; and (b) Eurofins expresses no opinion and accepts no liability in respect of the Customer's production process or homogeneity of the product.

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

Accreditation does not apply to comments or graphical representations.

Unless otherwise stated, all tests in this analytical report (except for subcontracted tests) are performed at Eurofins ELS Limited, Unit 1/74 Glenda Drive, Frankton, Queenstown.

The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.

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All samples become the property of Eurofins to the extent necessary for the performance of the Services.

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If the Customer pays for storage of the samples Eurofins will take commercially reasonable steps to store the samples for the agreed period in terms of industry practice.

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