

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE

AR-25-NC-020003-01

REPORT DATE

14/07/2025

Attention Veolia Water Services (ANZ) Pty Ltd
NZ Queenstown Lab Results
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Frankton
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NEW ZEALAND

Phone 03 450 9240

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

Copy to: QLDC Lab Results (lab.results@qldc.govt.nz), Lado

Contact for your orders: James Thornton
Contract: Shotover WWTP Monthly + Bores
Submission Reference: Shotover Bores + WWTP

Order code: EUNZCH-00222872

Purchase Order Number: 7300473792

SAMPLE CODE 817-2025-00067186

Sampling Point code: NC0001572018

Reception Date & Time: 07/07/2025 14:08

Analysis Started on: 08/07/2025

Sampled Date & Time 07/07/2025 13:35

Sampling Purpose Monitoring

Sampling Point name: Shotover WWTP Effluent + Grab

Reception temperature: 3.5 °C

Analysis Ending Date: 14/07/2025

Sampler(s)

RESULTS

LOQ

SPECIFICATIONS

⑩*NC0AK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen 6.61 mg/l 0.01

*NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter

Carbonaceous Biochemical Oxygen Demand 19.3 mg/l 2 consent limit of 30 mg/l ✓ Client Specification

*ZMJU9 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli 100 cfu/100 ml 10 consent limit of 260 cfu/100 ml ✓ Client Specification

*NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)

Nitrate nitrogen 4.13 mg/l 0.01

*NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode

Biochemical oxygen demand (BOD) 22 mg/l 2

*NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 16.9 mg/l 0.01 consent limit of 23 mg/l ✓ Client Specification

*NC76G Total Phosphorus in Water by Discrete Analyser (Trace)

Total phosphorus 2.48 mg/l 0.01

*NC0AE Total Suspended Solids in Water by Gravimetry

Suspended Solids 49.5 mg/l 2.5 consent limit of 30 mg/l ✗ Client Specification

SAMPLE CODE 817-2025-00067187

Sampling Point code: NC0001572019

Reception Date & Time: 07/07/2025 14:08

Analysis Started on: 08/07/2025

Sampled Date & Time 07/07/2025 13:00

Sampling Purpose Monitoring

Sampling Point name: Shotover WWTP Bore 1

Reception temperature: 3.5 °C

Analysis Ending Date: 10/07/2025

Sampler(s)

RESULTS

LOQ

⑩*NC0AK Ammoniacal Nitrogen by Discrete Analyser

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RESULTS			LOQ
☉*NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	0.04 mg/l	0.01
*ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1 cfu/100 ml	1
*NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	0.89 mg/l	0.01
⊙NC04Q	Piezometer Level		
	Water Level	3.63 m	0.005
*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	1.19 mg/l	0.01
*NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.16 mg/l	0.01

SAMPLE CODE		817-2025-00067189	
Sampling Point code:	NC0001572021	Sampling Point name:	Shotover WWTP Bore 3
Reception Date & Time:	07/07/2025 14:08	Reception temperature:	3.5 °C
Analysis Started on:	08/07/2025	Analysis Ending Date:	10/07/2025
Sampled Date & Time	07/07/2025 12:50	Sampler(s)	
Sampling Purpose	Monitoring		

RESULTS			LOQ
☉*NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	5.30 mg/l	0.01
*ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1 cfu/100 ml	1
*NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	8.01 mg/l	0.01
*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	14.3 mg/l	0.01
*NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.80 mg/l	0.01

SAMPLE CODE		817-2025-00067190	
Sampling Point code:	NC0001572022	Sampling Point name:	Shotover WWTP Bore 4
Reception Date & Time:	07/07/2025 14:08	Reception temperature:	3.5 °C
Analysis Started on:	08/07/2025	Analysis Ending Date:	10/07/2025
Sampled Date & Time	07/07/2025 12:30	Sampler(s)	
Sampling Purpose	Monitoring		

RESULTS			LOQ
☉*NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	3.18 mg/l	0.01
*ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1 cfu/100 ml	1
*NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	2.57 mg/l	0.01
*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	8.31 mg/l	0.01
*NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	1.11 mg/l	0.01

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RESULTS

LOQ

SAMPLE CODE 817-2025-00067192

Sampling Point code: NC0001572024
Reception Date & Time: 07/07/2025 14:08
Analysis Started on: 08/07/2025
Sampled Date & Time 07/07/2025 11:45
Sampling Purpose Monitoring

Sampling Point name: Shotover WWTP Bore 6
Reception temperature: 3.5 °C
Analysis Ending Date: 10/07/2025
Sampler(s) [REDACTED]

RESULTS

LOQ

*NCOAK Ammoniacal Nitrogen by Discrete Analyser			
Ammonia nitrogen	0.07	mg/l	0.01
*ZMJGR Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1
*NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)			
Nitrate nitrogen	6.64	mg/l	0.01
*NC03M Total Nitrogen in Water by Discrete Analyser (Trace)			
Total Nitrogen (N)	7.55	mg/l	0.01
*NC76G Total Phosphorus in Water by Discrete Analyser (Trace)			
Total phosphorus	1.41	mg/l	0.01

SAMPLE CODE 817-2025-00067193

Sampling Point code: NC0001572025
Reception Date & Time: 07/07/2025 14:08
Analysis Started on: 08/07/2025
Sampled Date & Time 07/07/2025 12:00
Sampling Purpose Monitoring

Sampling Point name: Shotover WWTP Bore 7
Reception temperature: 3.5 °C
Analysis Ending Date: 10/07/2025
Sampler(s) [REDACTED]

RESULTS

LOQ

*NCOAK Ammoniacal Nitrogen by Discrete Analyser			
Ammonia nitrogen	8.14	mg/l	0.01
*ZMJGR Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1
*NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)			
Nitrate nitrogen	1.21	mg/l	0.01
*NC03M Total Nitrogen in Water by Discrete Analyser (Trace)			
Total Nitrogen (N)	11.7	mg/l	0.01
*NC76G Total Phosphorus in Water by Discrete Analyser (Trace)			
Total phosphorus	1.49	mg/l	0.01

SAMPLE CODE 817-2025-00067194

Sampling Point code: NC0001572026
Reception Date & Time: 07/07/2025 14:08
Analysis Started on: 08/07/2025
Sampled Date & Time 07/07/2025 12:15
Sampling Purpose Monitoring

Sampling Point name: Shotover WWTP Bore 8
Reception temperature: 3.5 °C
Analysis Ending Date: 10/07/2025
Sampler(s) [REDACTED]

RESULTS

LOQ

*NCOAK Ammoniacal Nitrogen by Discrete Analyser			
Ammonia nitrogen	4.85	mg/l	0.01
*ZMJGR Enumeration of Escherichia coli by Membrane Filtration			
Escherichia coli	<1	cfu/100 ml	1

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	RESULTS		LOQ
*NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	7.46	mg/l
			0.01
⑦ NC04Q	Piezometer Level		
	Water Level	3.78	m
			0.005
*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	14.4	mg/l
			0.01
*NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.31	mg/l
			0.01

LIST OF METHODS

NC03M	Total Nitrogen in Water by Discrete Analyser (Trace): APHA Online Edition 4500-P J/4500-NH	NC03N	Carbonaceous Biochemical Oxygen Demand in Water by DO Meter: APHA Online Edition 5210 B
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace): Calculated, Calculation [(Nitrate N + Nitrite N) Nitrite N]	NC04Q	Piezometer Level: Internal Method, Performance test
NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode: APHA Online Edition 5210 B	NC0AE	Total Suspended Solids in Water by Gravimetry: APHA Online Edition 2540 D
NC0AK	Ammoniacal Nitrogen by Discrete Analyser: ISBN 0117516139 mod	NC76G	Total Phosphorus in Water by Discrete Analyser (Trace): APHA Online Edition 4500 P B/J mod
ZMJGR	Escherichia coli E [IVC] <1 >80 cfu/100 ml (0) mTEC Agar-F: US-EPA 1603:2014	ZMJU9	Escherichia coli E [IVC] <10 >80 000 cfu/100 ml (0-1) mTEC Agar-F: US-EPA 1603:2014

Signature

EXPLANATORY NOTE

- 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

*Test was performed at Eurofins ELS Limited, Unit 1/74 Glenda Drive, Frankton, Queenstown

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

Food & Water Testing

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 43 Detroit Drive, Rolleston, Christchurch, NEW ZEALAND.

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END OF REPORT

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