

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE **AR-25-NC-026842-02 #** REPORT DATE **17/09/2025**

This amended report supersedes Analytical Report number AR-25-NC-026842-01, dated 16/09/2025.

Attention Veolia Water Services (ANZ) Pty Ltd
NZ Queenstown Lab Results
74 Glenda Drive
Frankton
9300 Queenstown
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), [REDACTED]

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

Order code: EUNZCH-00228969

Purchase Order Number: 7300501957

Order Comment: Bore 2 and Bore 5 filled in/ Dry
Comments: sample point name amended from Shotover WWTP - Final Effluent to WW-Shotover_Final Effluent (RM13.215.04) as per customer request

SAMPLE CODE **817-2025-00087322**

Sampling Point code: NC0001572018

Sampling Point name: WW-Shotover_Final Effluent (RM13.215.04)

Reception Date & Time: 04/09/2025 14:00

Reception temperature: 10.1 °C

Analysis Started on: 05/09/2025

Analysis Ending Date: 16/09/2025

Sampled Date & Time 04/09/2025 10:20

Sampler(s) [REDACTED]

Sampling Purpose Monitoring

RESULTS

LOQ

SPECIFICATIONS

NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Parameter	Result	Unit	LOQ	Specification
Total Nitrogen (N)	4.86	mg/l	0.01	consent limit of 23 mg/l ✓ Client Specification

NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter

Parameter	Result	Unit	LOQ	Specification
Carbonaceous Biochemical Oxygen Demand	<6	mg/l	2	consent limit of 30 mg/l ✓ Client Specification

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

Parameter	Result	Unit	LOQ
Nitrate nitrogen	2.79	mg/l	0.01

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

Parameter	Result	Unit	LOQ
Biochemical oxygen demand (BOD)	<6	mg/l	2

NC0AE Total Suspended Solids in Water by Gravimetry

Parameter	Result	Unit	LOQ	Specification
Suspended Solids	12.2	mg/l	2.5	consent limit of 30 mg/l ✓ Client Specification

©NC0AK Ammoniacal Nitrogen by Discrete Analyser

Parameter	Result	Unit	LOQ
Ammonia nitrogen	0.10	mg/l	0.01

NC76G Total Phosphorus in Water by Discrete Analyser (Trace)

Parameter	Result	Unit	LOQ
Total phosphorus	0.82	mg/l	0.01

ZMJU9 Enumeration of Escherichia coli by Membrane Filtration

Parameter	Result	Unit	LOQ	Specification
Escherichia coli	100	cfu/100 ml	10	consent limit of 260 cfu/100 ml ✓ Client Specification

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SAMPLE CODE		817-2025-00087323	
Sample Reference	Bore 1		
Sampling Point code:	NC0001572019	Sampling Point name:	WW-Shotover_Bore 1 (RM13.215.04)
Reception Date & Time:	04/09/2025 14:00	Reception temperature:	10.1 °C
Analysis Started on:	05/09/2025	Analysis Ending Date:	16/09/2025
Sampled Date & Time	04/09/2025 10:45	Sampler(s)	
Sampling Purpose	Monitoring		
RESULTS		LOQ	
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	2.03	mg/l 0.01
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	1.96	mg/l 0.01
⑦ NC04Q	Piezometer Level		
	Water Level	3.63	m 0.005
⑨ NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	0.01	mg/l 0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.33	mg/l 0.01
ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1	cfu/100 ml 1

SAMPLE CODE		817-2025-00087325	
Sample Reference	Bore 3		
Sampling Point code:	NC0001572021	Sampling Point name:	WW-Shotover_Bore 3 (RM13.215.04)
Reception Date & Time:	04/09/2025 14:00	Reception temperature:	10.1 °C
Analysis Started on:	05/09/2025	Analysis Ending Date:	16/09/2025
Sampled Date & Time	04/09/2025 10:45	Sampler(s)	
Sampling Purpose	Monitoring		
RESULTS		LOQ	
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	16.6	mg/l 0.01
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	5.67	mg/l 0.01
©NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	9.28	mg/l 0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	1.69	mg/l 0.01
ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	>80	cfu/100 ml 1

SAMPLE CODE		817-2025-00087326	
Sample Reference	Bore 4		
Sampling Point code:	NC0001572022	Sampling Point name:	WW-Shotover_Bore 4 (RM13.215.04)
Reception Date & Time:	04/09/2025 14:00	Reception temperature:	10.1 °C
Analysis Started on:	05/09/2025	Analysis Ending Date:	16/09/2025
Sampled Date & Time	04/09/2025 10:45	Sampler(s)	
Sampling Purpose	Monitoring		
RESULTS		LOQ	
NC03M Total Nitrogen in Water by Discrete Analyser (Trace)			

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RESULTS			LOQ
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	5.27 mg/l	0.01
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	0.33 mg/l	0.01
@NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	4.67 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.47 mg/l	0.01
ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1 cfu/100 ml	1

SAMPLE CODE	817-2025-00087328		
Sample Reference	Bore 6		
Sampling Point code:	NC0001572024	Sampling Point name:	WW-Shotover_Bore 6 (RM13.215.04)
Reception Date & Time:	04/09/2025 14:00	Reception temperature:	10.1 °C
Analysis Started on:	05/09/2025	Analysis Ending Date:	16/09/2025
Sampled Date & Time	04/09/2025 10:45	Sampler(s)	
Sampling Purpose	Monitoring		

RESULTS			LOQ
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	5.58 mg/l	0.01
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	5.49 mg/l	0.01
@NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	0.01 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	1.06 mg/l	0.01
ZMJGR	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	<1 cfu/100 ml	1

SAMPLE CODE	817-2025-00087329		
Sample Reference	Bore 7		
Sampling Point code:	NC0001572025	Sampling Point name:	WW-Shotover_Bore 7 (RM13.215.04)
Reception Date & Time:	04/09/2025 14:00	Reception temperature:	10.1 °C
Analysis Started on:	05/09/2025	Analysis Ending Date:	16/09/2025
Sampled Date & Time	04/09/2025 10:45	Sampler(s)	
Sampling Purpose	Monitoring		

RESULTS			LOQ
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	9.70 mg/l	0.01
NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)		
	Nitrate nitrogen	1.40 mg/l	0.01
@NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	8.09 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	1.48 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

SAMPLE CODE 817-2025-00087330

Sample Reference	Bore 8	Sampling Point name:	WW-Shotover_Bore 8 (RM13.215.04)
Sampling Point code:	NC0001572026	Reception temperature:	10.1 °C
Reception Date & Time:	04/09/2025 14:00	Analysis Ending Date:	16/09/2025
Analysis Started on:	05/09/2025	Sampler(s)	
Sampled Date & Time	04/09/2025 10:45		
Sampling Purpose	Monitoring		

RESULTS

LOQ

NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N)	21.7	mg/l	0.01
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NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)

Nitrate nitrogen	19.8	mg/l	0.01
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⑦ NC04Q Piezometer Level

Water Level	3.80	m	0.005
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⑨ NC0AK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen	1.42	mg/l	0.01
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NC76G Total Phosphorus in Water by Discrete Analyser (Trace)

Total phosphorus	0.22	mg/l	0.01
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ZMJGR Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli	<1	cfu/100 ml	1
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LIST OF METHODS

NC03M Total Nitrogen in Water by Discrete Analyser (Trace):
 APHA Online Edition 4500-P J/4500-NH
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

NC03R Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace): Calculated, Calculation [(Nitrate-N + Nitrite-N) - Nitrite-N]
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode: APHA Online Edition 5210 B
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

NC0AK Ammoniacal Nitrogen by Discrete Analyser: ISBN 0117516139 mod.
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

ZMJGR Escherichia coli E [IVC] <1 >80 cfu/100 ml (0) mTEC Agar-F: US-EPA 1603:2014
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter: APHA Online Edition 5210 B
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

NC04Q Piezometer Level: Internal Method, Performance test

NC0AE Total Suspended Solids in Water by Gravimetry: APHA Online Edition 2540 D
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

NC76G Total Phosphorus in Water by Discrete Analyser (Trace): APHA Online Edition 4500-P B/J mod.
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

ZMJU9 Escherichia coli E [IVC] <10 >80 000 cfu/100 ml (0-1) mTEC Agar-F: US-EPA 1603:2014
 * Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

Signature

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David Hoekendijk Team Lead Eurofins ELS
Limited

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

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.

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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.

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END OF REPORT

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