

ANALYTICAL REPORT

REPORT CODE AR-25-NC-010135-02 REPORT DATE 11/04/2025
This amended report supersedes Analytical Report number AR-25-NC-010135-01, dated 09/04/2025.

Attention Veolia Water Services (ANZ) Pty Ltd

NZ Queenstown Lab Results

74 Glenda Drive

Frankton

9300 Queenstown NEW ZEALAND

Phone 03 450 9240 Copy to: QLDC Lab Results (lab.results@gldc.govt.nz), Lado

Email

Contact for your orders: James Thornton Order code: EUNZCH-00213069

Contract:

Shotover WWTP Monthly + Bores

Submission Reference: Shotover WWTP April 2025 Purchase Order Number: 7300456370

Comments: Time of 817-2025-00034054 corrected

SAMPLE CODE **817-2025-00034053**

Sampling Point code: NC0001572018 Sampling Point name: Shotover WWTP Effluent + Grab

Reception Date & Time:03/04/202514:02Reception temperature:7.1 °CAnalysis Started on:04/04/2025Analysis Ending Date:09/04/2025

Sampled Date & Time 03/04/2025 11:30 Sampler(s)
Sampling Purpose Monitoring

RESULTS LOQ SPECIFICATIONS

® NC0AK Ammoniacal Nitrogen by Discrete Analyser

*NC03N Ammonia nitrogen 1.81 mg/l 0.01
*NC03N Carbonaceous Biochemical Oxygen Demand in Water by DO Meter

| Carbonaceous Biochemical Oxygen Demand in Water by DO Meter

Carbonaceous Biochemical 7.00 mg/l 2 MAV of 30 mg/l ✓ Client Specification

Oxygen Demand

*ZMJU9 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli <10 cfu/100 ml 10 MAV of 260 cfu/100 ml ✓ Client Specification

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

Nitrate nitrogen 6.82 mg/l 0.01

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

Biochemical oxygen demand 7 mg/l 2

(BOD)

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

Total Nitrogen (N) 10.7 mg/l 0.01 MAV of 23 mg/l ✓ Client Specification

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

Total phosphorus 1.82 mg/l 0.01

*NC0AE Total Suspended Solids in Water by Gravimetry

Suspended Solids 11.7 mg/l 2.5 MAV of 30 mg/l ✓ Client Specification

SAMPLE CODE **817-2025-00034054**

Sampling Point code: NC0001572019 Sampling Point name: Shotover WWTP Bore 1

Reception Date & Time: 03/04/2025 14:02 Reception temperature: 7.1 °C

Analysis Started on: 03/04/2025 Analysis Ending Date: 08/04/2025

Sampled Date & Time 03/04/2025 13:15 Sampler(s)

RESULTS LOQ

Monitoring

Eurofins ELS Limited 43 Detroit Drive Rolleston Christchurch 7614 NEW ZEALAND

Sampling Purpose

Eurofins ELS Limited Unit 1/74 Glenda Drive Frankton Queenstown 9300 NEW ZEALAND







		RESULTS		LOQ
®NC0AK	Ammoniacal Nitroge	n by Discrete Analyse	r	
	Ammonia nitrogen	0.43	mg/l	0.01
*ZMJU7	Enumeration of Esch	nerichia coli by Membi	rane Filtration	
	Escherichia coli	1	cfu/100 ml	1
*NC03R	Nitrate-Nitrogen in W	later by Discrete Analy	yser Calculatio	n (Trace)
	Nitrate nitrogen	<0.01	mg/l	0.01
⊘NC04Q	Piezometer Level			
	Water Level	3.51	m	0.005
*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)			
	Total Nitrogen (N)	0.88	mg/l	0.01
*NC76G	Total Phosphorus in	Water by Discrete Ana	alyser (Trace)	
	Total phosphorus	0.19	mg/l	0.01

SAMPLE CODE	817-2025-00034056					
Sampling Point code:	NC0001572021		Sampling Point name:	Shotover WWTP Bore 3		
Reception Date & Time:	03/04/2025 14:02		Reception temperature:	7.1 °C		
Analysis Started on:	04/04/2025		Analysis Ending Date:	08/04/2025		
Sampled Date & Time	03/04/2025 12:55		Sampler(s)			
Sampling Purpose	Monitoring					
	RESULTS		LOQ			
®NC0AK Ammoniacal Nitr	rogen by Discrete Analys	er				
Ammonia nitrogen	10.9	mg/l	0.01			
*ZMJU7 Enumeration of I	7 Enumeration of Escherichia coli by Membrane Filtration					

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	Ammonia nitrogen	10.9	mg/l	0.01				
*ZMJU7	Enumeration of Escherichia coli by Membrane Filtration							
	Escherichia coli	19	cfu/100 ml	1				
*NC03R	Nitrate-Nitrogen in W	ater by Discrete A	nalyser Calculation	(Trace)				
	Nitrate nitrogen	0.03	mg/l	0.01				
*NC03M	M Total Nitrogen in Water by Discrete Analyser (Trace)							
	Total Nitrogen (N)	11.3	mg/l	0.01				
*NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)							
	Total phosphorus	2.66	mg/l	0.01				

SAMPLE CODE	817-2025-00034057		
Sampling Point code:	NC0001572022	Sampling Point name:	Shotover WWTP Bore 4
Reception Date & Time:	03/04/2025 14:02	Reception temperature:	7.1 °C
Analysis Started on:	04/04/2025	Analysis Ending Date:	08/04/2025
Sampled Date & Time	03/04/2025 12:45	Sampler(s)	
Sampling Purpose	Monitoring	,	
	DECILITO	100	

Samplir	ng Purpose	Monitoring						
		RESUL	TS	LOQ				
®NCOAK	Ammoniacal Nitrogen by Discrete Analyser							
	Ammonia nitrogen	5.13	mg/l	0.01				
*ZMJU7	Enumeration of Es	scherichia coli by Me	1					
	Escherichia coli	2	cfu/100 ml	1				
*NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)							
	Nitrate nitrogen	3.18	mg/l	0.01				
*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)							
	Total Nitrogen (N)	8.82	mg/l	0.01				
*NC76G	Total Phosphorus	in Water by Discrete	Analyser (Trace)					
	Total phosphorus	1.96	mg/l	0.01				
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Eurofins ELS Limited 43 Detroit Drive Rolleston Christchurch 7614 NEW ZEALAND Eurofins ELS Limited Unit 1/74 Glenda Drive Frankton Queenstown 9300 NEW ZEALAND







RESULTS LOQ

817-2025-00034058 SAMPLE CODE

NC0001572023 Sampling Point name: Sampling Point code:

Shotover WWTP Bore 5 03/04/2025 14:02 Reception temperature: 7.1 °C Reception Date & Time:

Analysis Started on: Analysis Ending Date: 08/04/2025 04/04/2025 Sampled Date & Time 03/04/2025 12:00 Sampler(s)

Sampling Purpose Monitoring

RESULTS LOQ

©NCOAK Ammoniacal Nitrogen by Discrete Analyser Ammonia nitrogen

0.01 *ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli cfu/100 ml

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

Nitrate nitrogen 0.06 mg/l

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

Total Nitrogen (N) 15.6 0.01

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

Total phosphorus 2 61 0.01

817-2025-00034059 SAMPLE CODE

Sampling Point code: NC0001572024 **Sampling Point name:** Shotover WWTP Bore 6

03/04/2025 14:02 Reception temperature: 7.1 °C Reception Date & Time: **Analysis Ending Date:** 08/04/2025 Analysis Started on: 04/04/2025

03/04/2025 12:10 Sampled Date & Time Sampler(s)

Sampling Purpose Monitoring

RESULTS LOQ

©NCOAK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen 10.3 0.01

*ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli cfu/100 ml

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

Nitrate nitrogen

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

Total Nitrogen (N) 12.3 0.01

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

Total phosphorus 2.41 mg/l 0.01

817-2025-00034060 SAMPLE CODE

NC0001572025 Shotover WWTP Bore 7 Sampling Point code: Sampling Point name:

03/04/2025 14:02 Reception temperature: 7.1 °C **Reception Date & Time:** 08/04/2025 **Analysis Started on:** 04/04/2025 **Analysis Ending Date:**

03/04/2025 12:20 Sampled Date & Time Sampler(s) Sampling Purpose Monitoring

RESULTS LOQ

©NCOAK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen mg/l 0.01

*ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli cfu/100 ml

Eurofins ELS Limited Eurofins ELS Limited 43 Detroit Drive Unit 1/74 Glenda Drive Rolleston Frankton Christchurch 7614 Queenstown 9300 **NEW ZEALAND NEW ZEALAND**







SAMPLE CODE

Food & Water Testing

817-2025-00034061

6.33

2.64

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

		RESUL	TS	LOQ	
*NC03R	Nitrate-Nitrogen in Wa	gen in Water by Discrete Analyser Calculation (Trace)			
	Nitrate nitrogen	0.89	mg/l	0.01	
*NC03M	Total Nitrogen in Wate	er by Discrete An	by Discrete Analyser (Trace)		
	Total Nitrogen (N)	12.2	mg/l	0.01	
*NC76G	Total Phosphorus in \	otal Phosphorus in Water by Discrete Analyser (Trace)			
	Total phosphorus	2.14	mg/l	0.01	

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Samplir	ng Point code:	NC000157202	26		Sampling Point name:	Shotover WWTP Bore 8	
Recepti	on Date & Time:	03/04/2025 1	4:02		Reception temperature:	7.1 °C	
Analysi	s Started on:	03/04/2025			Analysis Ending Date:	08/04/2025	
Sample	d Date & Time	03/04/2025 1	2:25		Sampler(s)		
Samplir	ng Purpose	Monitoring					
		F	RESULTS		LOQ		
®NC0AK	Ammoniacal Nitr	ogen by Discre	te Analyse	r			
	Ammonia nitrogen	5.39	9	mg/l	0.01		
*ZMJU7	Enumeration of E	scherichia coli	i by Membr	ane Filtration	า		
	Escherichia coli	<1		cfu/100 ml	1		
*NC03R	Nitrate-Nitrogen in Water by Discrete Analyser Calculation (Trace)						
	Nitrate nitrogen	0.02	2	mg/l	0.01		
⊘NC04Q	Piezometer Leve	I					
	Water Level	3.76	3	m	0.005		
*NC03M	Total Nitrogen in	Water by Discr	ete Analys	er (Trace)			

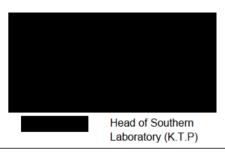
mg/l

mg/l

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.				
ZMJU7	Escherichia coli E (Water) [NZ Water] <1 >8 000 /100 ml (0) mTEC Agar-F: US-EPA 1603:2014	ZMJU9	Escherichia coli E (Water) [NZ Water] <10 >80 000 /100 ml (0-1) mTEC Agar-F: US-EPA 1603:2014				

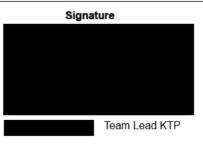
0.01

0.01



Total Nitrogen (N)

Total phosphorus



EXPLANATORY NOTE

Eurofins ELS Limited 43 Detroit Drive Rolleston Christchurch 7614 NEW ZEALAND Eurofins ELS Limited Unit 1/74 Glenda Drive Frankton Queenstown 9300 NEW ZEALAND







- 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
- 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
- **9**Test is RLP accredited
- Test is subcontracted within Eurofins group and is RLP accredited
- *Test was performed at Eurofins ELS Limited, Unit 1/74 Glenda Drive, Frankton, Queenstown

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.

N/A means Not Applicable

Quantification (LOQ)

the result unit

Not Detected means not detected at or above the Limit of

x (Unsatisfactory) means does not meet the specification

✓ (Satisfactory) means meets the specification

MAV means Maximum Allowable Value

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

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.

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.

Eurofins may subcontract the performance of part or all of the Services to a third party and the Customer authorises the release of all information necessary to the third party for the provision of the Services.

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

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END OF REPORT

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