

ANALYTICAL REPORT

REPORT CODE

AR-26-NC-024775-01

REPORT DATE

23/07/2026

Attention Otago Regional Council

Copy to:

Contact for your orders:

Shotover

Order code:

EUNZCH-00261860

Contract:

July Shotover WWTP

Submission Reference:

SAMPLE CODE

817-2026-00065413

Sample Name

GT7800RC

Reception Date & Time:

18/07/2026 10:10

Reception temperature:

5.5 °C

Analysis Started on:

18/07/2026

Analysis Ending Date:

23/07/2026

Product Type

Surface Water

Sampler(s)

Sampled Date & Time

17/07/2026 10:57

RESULTS

LOQ

① NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 0.08 mg/l 0.01

① NC04C Total Oxidised Nitrogen in Water by Discrete Analyser

Total Oxidised Nitrogen 0.03 mg/l 0.01

① NC05B Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode

Biochemical oxygen demand (BOD) <2 mg/l 2

① NC0AE Total Suspended Solids in Water by Gravimetry

Suspended Solids 75.6 mg/l 2.5

① NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)

pH 7.7 0.1

① NC0AK Ammoniacal Nitrogen by Discrete Analyser

Ammonia nitrogen <0.01 mg/l 0.01

① NC76G Total Phosphorus in Water by Discrete Analyser (Trace)

Total phosphorus 0.04 mg/l 0.01

① ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli <1 cfu/100 ml 1

SAMPLE CODE

817-2026-00065414

Sample Name

GT77900RC

Reception Date & Time:

18/07/2026 10:10

Reception temperature:

5.5 °C

Analysis Started on:

18/07/2026

Analysis Ending Date:

23/07/2026

Product Type

Effluent

Sampler(s)

Sampled Date & Time

17/07/2026 11:50

RESULTS

LOQ

① NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 3.59 mg/l 0.01

① NC04C Total Oxidised Nitrogen in Water by Discrete Analyser

RESULTS			LOQ
① NC04C	Total Oxidised Nitrogen in Water by Discrete Analyser		
	Total Oxidised Nitrogen	2.2	mg/l
			0.01
① NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
	Biochemical oxygen demand (BOD)	3	mg/l
			2
① NC0AE	Total Suspended Solids in Water by Gravimetry		
	Suspended Solids	4.2	mg/l
			2.5
① NC0AF	pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
	pH	7.1	
			0.1
① NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	0.16	mg/l
			0.01
① NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.22	mg/l
			0.01
① ZMJU7	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	5	cfu/100 ml
			1

SAMPLE CODE		817-2026-00065415	
Sample Name	GT7810RC		
Reception Date & Time:	18/07/2026 10:10	Reception temperature:	5.5 °C
Analysis Started on:	18/07/2026	Analysis Ending Date:	23/07/2026
Product Type	Surface Water	Sampler(s)	
Sampled Date & Time	17/07/2026 11:33		

RESULTS			LOQ
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	4.10	mg/l
			0.01
NC04C	Total Oxidised Nitrogen in Water by Discrete Analyser		
	Total Oxidised Nitrogen	2.5	mg/l
			0.01
NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
	Biochemical oxygen demand (BOD)	4	mg/l
			2
NC0AE	Total Suspended Solids in Water by Gravimetry		
	Suspended Solids	8.9	mg/l
			2.5
NC0AF	pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
	pH	7.2	
			0.1
NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	0.16	mg/l
			0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.21	mg/l
			0.01
ZMJU7	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	29	cfu/100 ml
			1

SAMPLE CODE		817-2026-00065416	
Sample Name	GT7820RC		
Reception Date & Time:	18/07/2026 10:10	Reception temperature:	5.5 °C
Analysis Started on:	18/07/2026	Analysis Ending Date:	23/07/2026
Product Type	Surface Water	Sampler(s)	
Sampled Date & Time	17/07/2026 11:30		

RESULTS			LOQ
---------	--	--	-----

RESULTS			LOQ
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	0.32 mg/l	0.01
NC04C	Total Oxidised Nitrogen in Water by Discrete Analyser		
	Total Oxidised Nitrogen	0.20 mg/l	0.01
NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
	Biochemical oxygen demand (BOD)	<2 mg/l	2
NC0AE	Total Suspended Solids in Water by Gravimetry		
	Suspended Solids	50.8 mg/l	2.5
NC0AF	pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
	pH	7.6	0.1
NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	0.02 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	0.07 mg/l	0.01
ZMJU7	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	11 cfu/100 ml	1

SAMPLE CODE	817-2026-00065417		
Sample Name	GT7840RC		
Reception Date & Time:	18/07/2026 10:10	Reception temperature:	5.5 °C
Analysis Started on:	18/07/2026	Analysis Ending Date:	23/07/2026
Product Type	Surface Water	Sampler(s)	
Sampled Date & Time	17/07/2026 11:08		

RESULTS			LOQ
NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	0.10 mg/l	0.01
NC04C	Total Oxidised Nitrogen in Water by Discrete Analyser		
	Total Oxidised Nitrogen	0.06 mg/l	0.01
NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
	Biochemical oxygen demand (BOD)	<2 mg/l	2
NC0AE	Total Suspended Solids in Water by Gravimetry		
	Suspended Solids	4.4 mg/l	2.5
NC0AF	pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
	pH	7.5	0.1
NC0AK	Ammoniacal Nitrogen by Discrete Analyser		
	Ammonia nitrogen	0.02 mg/l	0.01
NC76G	Total Phosphorus in Water by Discrete Analyser (Trace)		
	Total phosphorus	<0.01 mg/l	0.01
ZMJU7	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	1 cfu/100 ml	1

SAMPLE CODE 817-2026-00065418

Sample Name GT785ORC

Reception Date & Time: 18/07/2026 10:10

Reception temperature: 5.5 °C

Analysis Started on: 18/07/2026

Analysis Ending Date: 23/07/2026

Product Type Surface Water

Sampler(s)

Sampled Date & Time 17/07/2026 10:45

RESULTS

LOQ

NC03M Total Nitrogen in Water by Discrete Analyser (Trace)

Total Nitrogen (N) 0.15 mg/l 0.01

NC04C Total Oxidised Nitrogen in Water by Discrete Analyser

Total Oxidised Nitrogen 0.12 mg/l 0.01

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

Biochemical oxygen demand (BOD) <2 mg/l 2

NC0AE Total Suspended Solids in Water by Gravimetry

Suspended Solids 57.5 mg/l 2.5

NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)

pH 7.8 0.1

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 <0.01 mg/l 0.01

ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli 2 cfu/100 ml 1

LIST OF METHODS

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

APHA 24th Edition 4500 P J/4500 NH

NC04C Total Oxidised Nitrogen in Water by Discrete Analyser:

APHA 24th Edition 4500 NO3 H

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

APHA 24th Edition 5210 B

NC0AE Total Suspended Solids in Water by Gravimetry: APHA

24th Edition 2540 D

NC0AF pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time):

APHA 24th Edition 4500 H B

NC0AK Ammoniacal Nitrogen by Discrete Analyser: ISBN

0117516139 mod

NC76G Total Phosphorus in Water by Discrete Analyser

(Trace): APHA 24th Edition 4500-P B/J mod.

ZMJU7 Escherichia coli E [IVC] <1 >8 000 cfu/100 ml (0) mTEC

Agar-F: US-EPA 1603:2014

Signature

[Redacted Signature]

[Redacted 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

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

This report applies exclusively to the samples provided by the Customer and does not represent the entire lot or batch from which the samples were drawn.

This document may only be reproduced in full. Partial reproduction is not permitted without prior written approval from Eurofins.

Tests are identified by a unique five-digit code; detailed descriptions are available upon request. Accreditation applies only to the specific tests listed in this report and does not extend to comments, interpretations, or graphical representations.

Eurofins may subcontract part or all of the services to an approved third party. The Customer authorises the release of all necessary information for this purpose.

All samples become the property of Eurofins to the extent necessary for service delivery. Eurofins is not obliged to store samples and may dispose of them after analysis unless storage has been agreed upon in writing. If storage is arranged, Eurofins will take commercially reasonable steps to maintain samples for the agreed period.

The Customer is solely responsible for the sampling process and warrants that samples provided are representative of the lot or batch. Eurofins accepts no liability regarding the Customer's production process or sample homogeneity. Where Eurofins provides sampling services, IANZ-approved methodologies and/or best practices are used; however, Eurofins shall not be liable if the collected sample is not representative of the source or if the Customer's instructions to Eurofins are followed and require testing of part of the sample only or testing of a certain type.

Services are provided using current technology and standard methods applied by Eurofins. Eurofins exercises reasonable care in performing services but does not guarantee fitness for any specific purpose.

This report is based on information, documents, and/or samples provided by or on behalf of the Customer and is intended solely for the Customer's use. It is the responsibility of the Customer to advise any person to whom the Customer provides this report that Eurofins has no liability to that person for their reliance on this report. Eurofins, its employees, agents, or subcontractors shall not be liable for actions taken based on this report or for incorrect results arising from unclear, erroneous, incomplete, or misleading information provided by the Customer. Eurofins shall have no liability for indirect or consequential losses, including but not limited to loss of production, contracts, profits, business interruption, goodwill, or product recall costs. Eurofins General Terms and Conditions apply.

Unless otherwise stated, all tests (except subcontracted tests) are performed at 142 Esk Street, Invercargill.

END OF REPORT