

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE

AR-25-NC-008606-01

REPORT DATE

26/03/2025

Attention Otago Regional Council

Private Bag 1954
9054 DUNEDIN
NEW ZEALAND

Phone

Email

Copy to: compliance, regulatory

Contact for your orders:

Contract: Incident Response

Submission Reference: Shotover WWTP IN24.0004

Order code:

EUNZCH-00211673

Purchase Order Number:

SAMPLE CODE

817-2025-00029439

Sample Name Shotover WWTP Discharge from Disposal Field

Sample Reference IN24.0004A - Shotover WWTP Discharge from disposal Field

Reception Date & Time: 20/03/2025 12:46

Reception temperature: 15.8 °C

Analysis Started on: 21/03/2025

Analysis Ending Date: 26/03/2025

Product Type Surface Water

Sampled Date & Time 20/03/2025 10:46

Sampler(s)

Sampling Purpose Monitoring

RESULTS

LOQ

*ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli 1100 cfu/100 ml 1

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

pH 7.6 0.1

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

Biochemical oxygen demand (BOD) 6 mg/l 2

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

Total Nitrogen (N) 14.4 mg/l 0.01

*NC0AE Total Suspended Solids in Water by Gravimetry

Suspended Solids 8.9 mg/l 2.5

SAMPLE CODE

817-2025-00029440

Sample Name Bike Path

Sample Reference IN24.0004K - Shotover WWTP ponding by gate path

Reception Date & Time: 20/03/2025 12:46

Reception temperature: 15.8 °C

Analysis Started on: 21/03/2025

Analysis Ending Date: 26/03/2025

Product Type Surface Water

Sampled Date & Time 20/03/2025 11:14

Sampler(s)

Sampling Purpose Monitoring

RESULTS

LOQ

*ZMJU7 Enumeration of Escherichia coli by Membrane Filtration

Escherichia coli >8000 cfu/100 ml 1

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

pH 6.9 0.1

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

Biochemical oxygen demand (BOD) 75 mg/l 2

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

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RESULTS	LOQ
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*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	12.3	mg/l
			0.01
*NCOAE	Total Suspended Solids in Water by Gravimetry		
	Suspended Solids	131	mg/l
			2.5

SAMPLE CODE	817-2025-00029444
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Sample Name	Final Effluent Post UV Shotover WWTP		
Sample Reference	IN24.0004J - Final Effluent Post UV Shotover WWTP		
Reception Date & Time:	20/03/2025 12:46	Reception temperature:	15.8 °C
Analysis Started on:	21/03/2025	Analysis Ending Date:	26/03/2025
Product Type	effluent	Sampled Date & Time	20/03/2025 12:01
Sampler(s)		Sampling Purpose	Monitoring

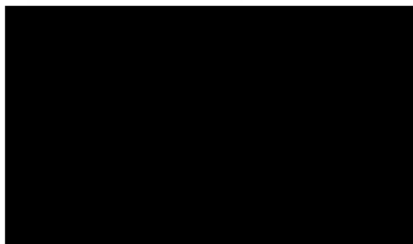
RESULTS	LOQ
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*ZMJU7	Enumeration of Escherichia coli by Membrane Filtration		
	Escherichia coli	11	cfu/100 ml
			1
*NCOAF	pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time)		
	pH	7.5	
			0.1
*NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode		
	Biochemical oxygen demand (BOD)	15	mg/l
			2
*NC03M	Total Nitrogen in Water by Discrete Analyser (Trace)		
	Total Nitrogen (N)	24.4	mg/l
			0.01
*NCOAE	Total Suspended Solids in Water by Gravimetry		
	Suspended Solids	28.0	mg/l
			2.5

LIST OF METHODS

NC03M	Total Nitrogen in Water by Discrete Analyser (Trace): APHA Online Edition 4500-P J/4500-NH	NC05B	Total Biochemical Oxygen Demand (TBOD 5 Days) by Electrode: APHA Online Edition 5210 B
NCOAE	Total Suspended Solids in Water by Gravimetry: APHA Online Edition 2540 D	NCOAF	pH in Water by Manual Electrode (Tested beyond 15 minute APHA holding time): APHA 24th Edition 4500-H B
ZMJU7	Escherichia coli E (Water) [NZ Water] <1 >8 000 /100 ml (0) mTEC Agar-F: US-EPA 1603:2014		

Signature



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
- *Test was performed at Eurofins ELS Limited, 142 Esk Street, Invercargill

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.

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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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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.

The Eurofins water sampling service follows methodology based on AS/NZS 5667 and / or best practice to collect and transport samples that are fit for the purpose of analytical testing. The laboratory is not responsible for sampling activities unless explicitly indicated by the statement "Sampled by Eurofins" on the report for water samples.

The Customer acknowledges that the Services are provided using the current state of technology and methods developed and generally applied by Eurofins and involve analysis, interpretations, consulting work and conclusions. Eurofins shall use commercially reasonable degree of care in providing the Services.

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END OF REPORT