Tweed Laboratory Centre

TWEED
SHIRE COUNCIL

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FINAL CERTIFICATE OF ANALYSIS

Page No: 1 of 4 **Report:** MICRO/CHEM **Lims1 Report No:** **252910 / 00**

Client: Richmond Valley Council
Job Description: Raw & Finished - Weekly
Client Reference: PU093817
Date of Report: 5/08/2025

Attention: Lab Results
Copy To:
Address: Locked Bag 10

CASINO
NSW 2470

Sampled by: M.MacRoe **Sampled:** 28/07/2025 **No of Samples:** 2
Received: 29/07/2025 **Testing Commenced:** 29/07/2025 **Testing Completed:** 5/08/2025

LIMS No.	Sample/Site Identification	Sample/Site Description	Sample Matrix
252910-1	Raw at river intake	1	Water
252910-2	Finished	2	Water

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - testing

Accreditation No: 12754

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REPORT: MICRO/CHEM

REPORT COMMENTS

Additional information relevant to this report can be found in the Sample Receipt Notice and Chain of Custody.
Measurement Uncertainty available upon request.
Sample(s) were not received within appropriate technical holding times or suitably preserved. Results apply to the samples as received at the laboratory and may not reflect those at the time of sampling.

Key:
- LOR = Limit of reporting
- ^ = NATA accreditation does not cover the performance of this service
- * = Value is considered an estimate
- NP = Not present
- ND = Not detected
- < = Less than
- > = Greater than
- SS = Sample Surrogate (Quality Control Compound)

ANALYSIS RESULTS

Sample Identification: Date Taken: Test	Method	Units	LOR	Raw at river intake 28/07/2025 12:00 AM 252910-1	Finished 28/07/2025 12:00 AM 252910-2
Microbiology					
E. coli colilert	B12	MPN/100mL	1	9,208	---
E. coli MI Agar	B19	cfu/100mL	1	---	<1
Total coliforms MI Agar	B19	cfu/100mL	1	---	<1
Heterotrophic Plate Count	B23	cfu/mL	1	---	<1
Raw - Weekly					
Alkalinity as $CaCO_3$	C10	mg/L	1	76	---
Aluminium (Soluble)	M8	mg/L	0.01	0.97	---
Iron (Soluble)	M8	mg/L	0.01	0.89	---
Manganese (Soluble)	M8	mg/L	0.001	0.005	---
Colour True	P10	Colour Units	1	57	---
Conductivity	P2	μScm^{-1}	1	217	---
TDS by Calculation	P17	mg/L	1	135	---
Aluminium (Total)	M16	mg/L	0.01	15.3	---
Iron (Total)	M16	mg/L	0.01	17.1	---
Manganese (Total)	M16	mg/L	0.001	0.281	---
pH	P1	pH units	0.1	7.8	---
Suspended Solids	P4	mg/L	1.0	190	---
TOC	ORG10	mg/L	0.5	6.0	---

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Sample Identification: Date Taken: Test	Method	Units	LOR	Raw at river intake 28/07/2025 12:00 AM 252910-1	Finished 28/07/2025 12:00 AM 252910-2
Turbidity	P8	NTU	0.1	199	---
Finished - Weekly					
Colour True	P10	Colour Units	1	---	2
Colour Apparent	P10	Colour Units	1	---	2
Aluminium (Soluble)	M8	mg/L	0.01	---	<0.01
Iron (Soluble)	M8	mg/L	0.01	---	<0.01
Manganese (Soluble)	M8	mg/L	0.001	---	0.002
pH	P1	pH units	0.1	---	7.3
Turbidity	P8	NTU	0.1	---	0.1
Alkalinity as $CaCO_3$	C10	mg/L	1	---	76
TOC	ORG10	mg/L	0.5	---	2.4

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Method ID	Method Description
Microbiology	
B12	Total Coliforms & E.*Coli* (MPN) by Colilert
B19	Total Coliforms & E.*Coli* by membrane filtration on MI Agar.
B23	Heterotrophic Plate Count (cfu) by Idexx EasyDisc plates
Raw - Weekly	
C10	Titration with H_2SO_4 to pH 4.5 (Total Alkalinity) or pH 8.3 (phenolphthalein alkalinity).
M8	Analysis by ICP-AES. Soluble filtered through 0.45um filter and total determined from nitric acid and HCl acid digest.
P10	
P2	Conductivity probe with temperature compensation (specific conductivity)
P17	Total dissolved solids calculated using conductivity
M16	Metals in water by ICP-MS. Soluble filtered through 0.45um filter and total determined from nitric acid and HCl acid digest.
P1	pH electrode with temperature compensation
P4	Total Suspended Solids determined gravimetrically from dried filter at 104^{o}C
ORG10	NPOC instrument
P8	Turbidity - Nephelometric Method
Finished - Weekly	