Water - Certificate of Analysis - E25-00-4348

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	RVC Raw & Finished Weekly 22/4	Request ID:	EAL /E25-00-4348
Number of samples:	2	Report ID:	E25-00-4348_EALP3_2
Date samples received:	22 April 2025	Issue date:	27 May 2025

Authorised by:	Alex Smith
Position:	Senior Technical Officer

NATA
Accreditation No. 14960

Comments: EAL is a NATA accredited laboratory (14960), accredited for compliance with ISO/IEC 17025 - Testing.

Certificate of Analysis

Request ID: EAL/E25-00-4348 Report ID: E25-00-4348_EALP3_2 Issue date: 27 May 2025

			Client Sample ID:	RVC Finished	RVC Raw
			Sample Date:	22 April 2025	22 April 2025
			Sample Time:	10:15	8:50
			Sampled By:	AH	CC
			Your Client:	Richmond Valley Council	Richmond Valley Council
			EAL Sample ID:	E25-00-4348-0001	E25-00-4348-0002
Parameter	**Unit**	**Method Reference**	**LOR**	---	---
pH	---	APHA 4500-H+ B	---	7.27	7.53
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.335	0.271
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	228	184
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	< 1	49
Turbidity	NTU	APHA 2130	<1	< 1	48
True Colour	PtCo	** APHA 2120	<5	< 5	29
Apparent Colour	PtCo	** APHA 2120	<5	< 5	277
Total Alkalinity	mg CaCO3/L	** APHA 2320	<1	96	107
Water Hardness	mg/L CaCO3 equivalent	** Calculation using Ca and Mg	<1	98	102
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	7700
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	400
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	1.57	3.32
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	22.1	21.6
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	12.4	12.3
Chloride/Sulfate Ratio	---	Dissolved - APHA 3125 ICPMS	---	1.0	n.a.
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.018	0.105
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	< 0.005	0.249
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	0.005
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.023	1.12
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	< 0.005	1.30
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	< 0.001	0.052
Total Plate Count	cfu/ml	** Inhouse	<1	< 1	---

Notes:

- ** denotes NATA accreditation does not cover the performance of this service.
- .. denotes not requested, no data/information or no guidelines available.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm