

Certificate of Analysis E25-00-2742

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	RVC Raw & Finished Weekly	Request ID:	EAL /E25-00-2742
Number of samples:	2	Report ID:	E25-00-2742_EALP3_1
Date samples received:	13 March 2025	Issue date:	01 April 2025

Authorised by:	Alex Smith
Position:	Senior Technical Officer



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

Certificate of Analysis

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Client Sample ID:				RVC Finished	RVC Raw
Sample Date:				13 March 2025	13 March 2025
Sample Time:				11:20am	11:18am
Sampled By:				MM	MM
EAL Sample ID:				E25-00-2742-0001	E25-00-2742-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	6.98	6.89
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.370	0.142
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	252	97
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	< 1	193
Turbidity	NTU	APHA 2130	<1	< 1	220
True Colour	PtCo	** APHA 2120	<5	8	80
Apparent Colour	PtCo	** APHA 2120	<5	16	1540
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	75	53
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	50	52
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	113000
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	<100
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	2.07	6.27
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	10.2	10.3
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	5.68	5.72
Chloride/Sulfate Ratio	---	Dissolved - APHA 3125 ICPMS	---	0.2	n.a.
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.014	0.570
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.022	0.709
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	0.005
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.022	0.817
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.018	1.50
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.001	0.151

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