

Water - Certificate of Analysis - E25-00-3790

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
Contact:	Lab Results	Contact:	EAL Customer Service Team
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Customer reference:	RVC Raw & Finished Weekly	Request ID:	EAL/E25-00-3790
Number of samples:	2	Report ID:	E25-00-3790_EALP1_1
Date samples received:	08 April 2025	Issue date:	22 April 2025

Authorised by:	Matt Pocock
Position:	Technical Team Leader



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

Certificate of Analysis

Request ID: EAL/E25-00-3790 Report ID: E25-00-3790_EALP1_1 Issue date: 22 April 2025

Client Sample ID:				RVC Finished	RVC Raw
Sample Date:				8 April 2025	8 April 2025
Sample Time:				11:00	9:40
Sampled By:				RG	CC
EAL Sample ID:				E25-00-3790-0001	E25-00-3790-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	7.06	7.15
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.439	0.208
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	299	141
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	< 1	85
Turbidity	NTU	APHA 2130	<1	< 1	110
True Colour	PtCo	** APHA 2120	<5	5	55
Apparent Colour	PtCo	** APHA 2120	<5	5	770
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	99	81
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	67	77
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	29600
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	200
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	1.90	6.59
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	13.1	15.6
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	7.27	8.53
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.013	0.353
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	< 0.005	0.577
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	0.001	0.003
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.015	0.568
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	< 0.005	1.36
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.002	0.074

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