

Water - Certificate of Analysis - E25-00-4170

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	RVC Raw & Finished Monthly	Request ID:	EAL/E25-00-4170
Number of samples:	2	Report ID:	E25-00-4170_EALP3_1
Date samples received:	16 April 2025	Issue date:	12 May 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:				15 April 2025	---
EAL Sample ID:				E25-00-4170-0001	E25-00-4170-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	6.55	7.07
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.334	0.231
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	227	157
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	< 1	4
Turbidity	NTU	APHA 2130	<1	< 1	84
True Colour	PtCo	** APHA 2120	<5	< 5	69
Apparent Colour	PtCo	** APHA 2120	<5	< 5	550
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	90	92
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	86	91
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	11500
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	310
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	2.66	5.41
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	18.4	17.8
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	10.2	10.1
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.019	0.305
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	< 0.005	0.451
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	0.671
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	< 0.005	1.00
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	< 0.001	0.064
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	1.87	5.38
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.015	0.232
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.100	0.070
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	< 0.005	0.009
Total Plate Count	cfu/ml	** Inhouse	<1	1	---
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE281614	---
Chloroform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	46	---
Bromodichloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	23	---
Dibromochloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	5.2	---
Bromoform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	---
Total THM	µg/L	** Subcontracted SGS Laboratories Australia	<2	74	---
EnviroLab Report No.	---	** Subcontracted EnviroLab	---	---	PGD1389
Geosmin	ng/L	** Subcontracted EnviroLab	---	---	<2.0
2-Methylisoborneol	ng/L	** Subcontracted EnviroLab	---	---	<2.0

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.

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- 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 $1 \text{ dS/m} = 1 \text{ mS/cm} = 1000 \text{ }\mu\text{S/cm}$.
- $\text{mg/L} = \text{ppm}$