

Certificate of Analysis E25-00-0147

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	RVC Raw & Finished Monthly	Request ID:	EAL/E25-00-0147
Number of samples:	2	Report ID:	E25-00-0147_EALP3_1
Date samples received:	08 January 2025	Issue date:	31 January 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.

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				Client Sample ID:	RVC Finished	RVC Raw
				Sample Date:	7 January 2025	7 January 2025
				Sample Time:	10:30	10:00
				Sampled By:	AH	AH
				EAL Sample ID:	E25-00-0147-0001	E25-00-0147-0002
Parameter	Unit	Method Reference	LOR	---	---	---
pH	---	APHA 4500-H+ B	---	7.28	7.52	---
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.297	0.233	---
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	202	158	---
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	< 1	31	---
Turbidity	NTU	APHA 2130	<1	< 1	35	---
True Colour	PtCo	** APHA 2120	<5	< 5	29	---
Apparent Colour	PtCo	** APHA 2120	<5	< 5	260	---
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	98	106	---
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	102	104	---
Total Plate Count	cfu/ml	** Inhouse	<1	< 1	---	---
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	5900	---
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	140	---
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	1.44	3.17	---
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	20.5	20.8	---
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	12.3	12.6	---
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.039	0.036	---
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.009	0.095	---
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	0.002	---
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.027	0.270	---
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	< 0.005	0.686	---
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	< 0.001	0.150	---
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	1.44	3.17	---
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.020	0.162	---
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.009	< 0.005	---
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	< 0.005	< 0.005	---
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE276529	---	---
Chloroform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	5.6	---	---
Bromodichloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	7.4	---	---
Dibromochloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	5.6	---	---
Bromoform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	0.8	---	---
Total THM	µg/L	** Subcontracted SGS Laboratories Australia	<2	19	---	---

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 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm