Water - Certificate of Analysis - E25-00-4819

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
Contact:	Lab Results	Contact:	EAL Customer Service Team
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Telephone:	02 6660 0341	Telephone:	(02) 6620 3678
Email:	rwlresults@richmondvalley.nsw.gov.au	Email:	eal@scu.edu.au

Customer reference:	RVC Raw & Finished Monthly 06/05/25	Request ID:	EAL /E25-00-4819
Number of samples:	2	Report ID:	E25-00-4819_EALP3_1
Date samples received:	06 May 2025	Issue date:	16 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

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				Client Sample ID:	RVC Finished	RVC Raw
				Sample Date:	6 May 2025	6 May 2025
				Sample Time:	11:15 am	10:30 am
				Sampled By:	MM	CC
				EAL Sample ID:	E25-00-4819-0001	E25-00-4819-0002
Parameter	**Unit**	**Method Reference**	**LOR**		---	---
pH	---	APHA 4500-H+ B	---		7.35	7.76
Electrical Conductivity	dS/m	APHA 2510-B	<0.01		0.367	0.293
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7		250	199
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1		2	39
Turbidity	NTU	APHA 2130	<1		< 1	63
True Colour	PtCo	** APHA 2120	<5		< 5	121
Apparent Colour	PtCo	** APHA 2120	<5		5	361
Total Alkalinity	mg CaCO3/L	** APHA 2320	<1		94	102
Water Hardness	mg/L CaCO3 equivalent	** Calculation using Ca and Mg	<1		98	99
Total Coliforms	cfu/100 mL	APHA 9222-B	<1		< 1	16500
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1		< 1	400
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1		1.96	5.27
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5		20.8	21.2
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5		11.6	11.8
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005		0.024	0.367
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005		< 0.005	0.508
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001		< 0.001	0.007
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005		0.028	0.246
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005		< 0.005	0.675
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001		< 0.001	0.032
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1		2.34	4.86
Total Phosphorus	mg/L P	Inhouse W4	<0.01		0.015	0.165
Nitrate	mg/L N	APHA 4500 NO3-F	<0.005		0.090	0.065
Nitrite	mg/L N	APHA 4500 NO2-I	<0.005		< 0.005	0.007
Total Plate Count	cfu/ml	** Inhouse	<1		< 1	---
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---		SE282538	---
Chloroform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5		48	---
Bromodichloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5		25	---
Dibromochloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5		5.8	---
Bromoform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5		<0.5	---
Total THM	µg/L	** Subcontracted SGS Laboratories Australia	<2		79	---
Envirolab Report No.	---	** Subcontracted Envirolab	---		---	PGE0552
Geosmin	ng/L	** Subcontracted Envirolab	---		---	<2
2-Methylisoborneol	ng/L	** Subcontracted Envirolab	---		---	<2

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).

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- 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