



Certificate of Analysis E24-00-1438

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory	
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Customer reference:	RVC Raw & Finished Weekly	Request ID:	EAL/E24-00-1438
Number of samples:	3	Report ID:	E24-00-1438_EALP3_1
Date samples received:	27 November 2024	Issue date:	20 December 2024

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	Raw Water	
Sample Date:			26 November 2024	26 November 2024	26 November 2024	
Sampled By:				сс	СС	СС
Your Client:		RVC	RVC	RVC		
EAL Sample ID:		E24-00-1438-0001	E24-00-1438-0002	E24-00-1438-0003		
Parameter	Unit	Method Reference	LOR			
pH		APHA 4500-H+ B		7.91	7.80	
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.387	0.222	
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	263	151	
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540- D	<1	<1	49	
Turbidity	NTU	APHA 2130	<1	<1	78	
True Colour	PtCo	** APHA 2120	<5	5	79	
Apparent Colour	PtCo	** APHA 2120	<5	9	930	
Total Alkalinity	mg CaCO3/L	** APHA 2320	<1	93	75	
Water Hardness	mg/L CaCO3 equivalent	** Calculation using Ca and Mg	<1	66	66	
Total Plate Count	cfu/ml	** Inhouse	<1	< 1	2270	
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	12400	
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	270	
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	2.36	7.41	
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	13.8	13.6	
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	7.73	7.89	
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.025	0.204	
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.006	0.438	
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	0.011	
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.027	1.23	
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.007	3.13	
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.004	0.137	
Symbio Report No.		** Subcontracted Symbio				B1692552
Aulacoseira spp.	cells/mL	** Subcontracted Symbio				66
Total Algae	cells/mL	** Subcontracted Symbio				242
Total Bacillariophytes	cells/mL	** Subcontracted Symbio				82
Total Chlorophytes	cells/mL	** Subcontracted Symbio				<5
Total Chroococcales	cells/mL	** Subcontracted Symbio				<5
Total Chrysophytes	cells/mL	** Subcontracted Symbio				<5
Total Cryptophytes	cells/mL	** Subcontracted Symbio				<5
Total Cyanophytes	cells/mL	** Subcontracted Symbio				160
Total Dinophytes	cells/mL	** Subcontracted Symbio				<5
Total Euglenophytes	cells/mL	** Subcontracted Symbio				<5
Total Nostocales	cells/mL	** Subcontracted Symbio				160
Total Oscillatoriales	cells/mL	** Subcontracted Symbio				<5
Total Raphidophytes	cells/mL	** Subcontracted Symbio				<5
Total Spirulinales	cells/mL	** Subcontracted Symbio				<5
Total Synechococcales	cells/mL	** Subcontracted Symbio				<5
Total Xanthophytes	cells/mL	** Subcontracted Symbio				<5
Total Charophytes	cells/mL	** Subcontracted Symbio				<5
Umezakia ovalisporum (PTP)	cells/mL	** Subcontracted Symbio				160
Navicula spp.	cells/mL	** Subcontracted Symbio				16

Notes:

• ** denotes NATA accreditation does not cover the performance of this service.





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- .. 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 μ S/cm.
- mg/L = ppm