RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 15/10/2024. Lab Job No. S0045.
Samples submitted by Water Results. Your Job: RVC Raw & Finished Weekly - 15/10/2024
Locked Bag 10 CASINO NSW 2470

Parameter	Methods reference	Sample 1 RVC Finished 15/10/24	Sample 2 RVC Raw 15/10/24
	Job No.	*S0045/1*	*S0045/2*
pH	APHA 4500-H^+-B	7.05	7.63
Conductivity (EC) (dS/m)	APHA 2510-B	0.362	0.248
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	246	169
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	2	45
Turbidity (NTU)	APHA 2130	2.4	59
True Colour (Pt-Co)	** APHA 2120	4	51
Apparent Colour (Pt-Co)	** APHA 2120	6	425
Bicarbonate (Alkalinity) (mg/L $CaCO_3$ equivalent)	** Bicarbonate Alkalinity - APHA 2320	63	73
Water Hardness (mg/L $CaCO_3$ equivalent)	** Using Ca and Mg calculation	66	66
Total Coliforms (cfu/100 ml)	APHA 9222-B	<1	23,400
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	480
Total Plate Count (cfu/1 ml)	** Inhouse	890	3,100
Total Organic Carbon (mg/L)	APHA 5310-B	2.19	6.10
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	0.012	1.67
Iron (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	<0.005	1.67
Manganese (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	0.003	0.102
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.010	0.180
Iron (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	<0.005	0.259
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.002	0.002
Calcium (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	13.8	13.9
Magnesium (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	7.75	7.62

Notes:

1. Total metals - samples digested with nitric acid; Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2;
   Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
2. Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
3. 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
4. For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
5. Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
6. Analysis conducted between sample arrival date and reporting date.
7. ** NATA accreditation does not cover the performance of this service.
8. .. Denotes not requested.
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10. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
11. Results relate only to the samples tested.
12. This report was issued on 31/10/2024.

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Graham Lancaster
Laboratory Manager