

## RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 6/08/2024. Lab Job No. R7343.

Samples submitted by Allison Hawthorne. Your Job: RVC Raw & Finished Monthly

Locked Bag 10 CASINO NSW 2470

Parameter	Methods reference	Sample 1	Sample 2
		RVC Finished	RVC Raw
	Job No.	R7343/1	R7343/2
pH	APHA 4500-H <sup>+</sup> -B	7.11	7.61
Conductivity (EC) (dS/m)	APHA 2510-B	0.351	0.321
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	239	218
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	<1	16
Turbidity (NTU)	APHA 2130	0.270	15.1
True Colour (Pt-Co)	** APHA 2120	2	11
Apparent Colour (Pt-Co)	** APHA 2120	4	128
Bicarbonate Alkalinity (mg/L CaCO <sub>3</sub> equivalent)	** Total Alkalinity - APHA 2320	127	141
Water Hardness (mg/L CaCO <sub>3</sub> equivalent)	** Using Ca and Mg calculation	136	134
Total Phosphorus (mg/L P)	In house method W4	0.01	0.09
Nitrate (mg/L N)	APHA 4500 NO <sub>3</sub> <sup>-</sup> -F	0.026	0.021
Nitrite (mg/L N)	APHA 4500 NO <sub>2</sub> <sup>-</sup> -I	<0.005	<0.005
Total Coliforms (cfu/100 ml)	APHA 9222-B	<1	2,580
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	40
Total Plate Count (cfu/1 ml)	** Inhouse	<1	..
Total Organic Carbon (mg/L)	APHA 5310-B	1.7	2.2
Dissolved Organic Carbon (mg/L)	APHA 5310-B	1.4	1.9
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS <sup>note 1&amp;2</sup>	0.046	0.179
Iron (mg/L)	Total Available - APHA 3125 ICPMS <sup>note 1&amp;2</sup>	<0.005	0.512
Manganese (mg/L)	Total Available - APHA 3125 ICPMS <sup>note 1&amp;2</sup>	<0.001	0.095
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS <sup>note 1&amp;2</sup>	0.430	<0.005
Iron (mg/L)	Dissolved - APHA 3125 ICPMS <sup>note 1&amp;2</sup>	<0.005	0.013
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS <sup>note 1&amp;2</sup>	<0.001	0.056
Calcium (mg/L)	APHA 3125 ICPMS <sup>note 1&amp;2</sup>	27.1	27.0
Magnesium (mg/L)	APHA 3125 ICPMS <sup>note 1&amp;2</sup>	16.5	16.1
Geosmin (ng/L)	Subcontracted; Envirolab report PFH0480-01	..	<1
2-Methylisoborneol (2-MIB) (ng/L)	Subcontracted; Envirolab report PFH0480-01	..	<1
<b>TRIHALOMETHANES (THM)</b>			
Chloroform (THM) (µg/L)	Subcontracted; SGS report SE 269281	4.40	..
Bromodichloromethane (THM) (µg/L)	Subcontracted; SGS report SE 269281	4.30	..
Dibromochloromethane (THM) (µg/L)	Subcontracted; SGS report SE 269281	1.60	..
Bromoform (THM) (µg/L)	Subcontracted; SGS report SE 269281	0.600	..
Total THM (µg/L)	Subcontracted; SGS report SE 269281	11.0	..

### Notes:

- 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
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
- \*\* NATA accreditation does not cover the performance of this service.
- .. Denotes not requested.
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- Results relate only to the samples tested.
- This report was issued on 21/08/2024.

