

RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 27/08/2024. Lab Job No. R8135.

Samples submitted by Water Results. Your Job: RVC Finished & Raw Weekly

Parameter	Methods reference	Sample 1	Sample 2
		RVC Finished	RVC Raw
	Job No.	R8135/1	R8135/2
pH	APHA 4500-H ⁺ -B	7.28	7.54
Conductivity (EC) (dS/m)	APHA 2510-B	0.336	0.299
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	228	203
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	<1	26
Turbidity (NTU)	APHA 2130	<1	26.9
True Colour (Pt-Co)	** APHA 2120	4	33
Apparent Colour (Pt-Co)	** APHA 2120	5	232
Bicarbonate (Alkalinity) (mg/L CaCO ₃ equivalent)	** Bicarbonate Alkalinity - APHA 2320	108	114
Total Coliforms (cfu/100 ml)	APHA 9222-B	1	7,700
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	160
Total Plate Count (cfu/1 ml)	** Inhouse	<1	..
Total Organic Carbon (mg/L)	APHA 5310-B	2.32	3.46
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.044	0.700
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.007	1.11
Manganese (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.002	0.134
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.037	0.045
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	<0.005	0.138
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.001	0.066
Calcium (mg/L)	APHA 3125 ICPMS ^{note 1&2}	22.0	21.6
Magnesium (mg/L)	APHA 3125 ICPMS ^{note 1&2}	13.1	12.8

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.
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- Results relate only to the samples tested.
- This report was issued on 26/09/2024.

