

RESULTS OF WATER ANALYSIS

2 samples supplied by Richmond Valley Council on 17/09/2024. Lab Job No. R8970.

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

Parameter	Methods reference	Sample 1	Sample 2
		RVC Finished 17/09/24	RVC Raw 17/09/24
	<i>Job No.</i>	<i>R8970/1</i>	<i>R8970/2</i>
pH	APHA 4500-H ⁺ -B	7.10	7.69
Conductivity (EC) (dS/m)	APHA 2510-B	0.395	0.329
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	269	223
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	1	22
Turbidity (NTU)	APHA 2130	<1	22.8
True Colour (Pt-Co)	** APHA 2120	4	24
Apparent Colour (Pt-Co)	** APHA 2120	10	184
Bicarbonate (Alkalinity) (mg/L CaCO ₃ equivalent)	** Bicarbonate Alkalinity - APHA 2320	120	141
Water Hardness (mg/L CaCO ₃ equivalent)	** Using Ca and Mg calculation	134	126
Total Coliforms (cfu/100 ml)	APHA 9222-B	<1	3,160
E.Coli (cfu/100 ml)	ColiBlue Membrane Filtration	<1	30
Total Plate Count (cfu/1 ml)	** Inhouse	<1	..
Total Organic Carbon (mg/L)	APHA 5310-B	1.68	2.92
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.042	0.460
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	<0.005	0.916
Manganese (mg/L)	Total Available - APHA 3125 ICPMS ^{note 1&2}	0.001	0.133
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.040	0.017
Iron (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	<0.005	0.074
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	0.001	0.047
Calcium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	26.9	25.9
Magnesium (mg/L)	Dissolved - APHA 3125 ICPMS ^{note 1&2}	16.2	14.9

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 26/09/2024.

