



Regional District of Nanaimo - Water Services Department

Melrose Water Analysis - 2024 Monthly Report

Date	Sample Location (Address)	BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer								
		E. coli *	Total Coliform *	E.coli *	Total Coliform *	Temp. (°C)	pH	Free Chlorine Residual (mg/L)	Total Dissolved Solids (mg/L)	Salinity (%)	Conductivity (µS/cm)	Turbidity NTU
5-Jan-23	3927 Melrose	0	0	0	0	8	6.86	0.02	245.0	0.24	505.0	0.17
24-Jan-24	3927 Melrose			0	0	8	7.15	0.02	247.0	0.25	510.0	0.31
31-Jan-24	3927 Melrose			0	0		7.18	0.04	235.0	0.23	485.0	0.38
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3

Legend:

* Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Green font indicates a value flagged for operational consideration

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

Comments:

Notes below about pH (2015) from https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#_ftn1

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
Treatment-related	pH (2015)	None	7.0-10.5	Not applicable	Not applicable	The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components.



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6-Feb-24	3927 Melrose	0	0	0	0	9	6.93	0.03	239	0.24	494	0.24
14-Feb-24	3927 Melrose			0	0	7	7.00	0.03	234.0	0.23	485.0	0.34
22-Feb-24	3927 Melrose			0	0	8	6.85	0.01	240.0	0.24	496.0	0.33
28-Feb-24	3927 Melrose			0	0	8	7.02	0.06	239.0	0.24	495.0	
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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4-Mar-24	3927 Melrose	0	0	0	0	8	7.16	0.02	245.0	0.25	507.0	0.15
19-Mar-24	3927 Melrose			0	0	9	7.02	0.07	242.0	0.24	500.0	0.24
26-Mar-24	3927 Melrose			0	0	9	7.40	0.00	253.0	0.25	522.0	0.24
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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9-Apr-24	3927 Melrose	0	0	0	0	10	6.80	0.03	249.0	0.25	515.0	0.29
16-Apr-24	3927 Melrose			0	0	10	6.97	0.02	251.0	0.25	518.0	0.23
24-Apr-24	3927 Melrose			0	0	11	6.73	0.08	251.0	0.25	518.0	0.26
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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