



Regional District of Nanaimo - Water Services Department

River's Edge Water Analysis - 2022 Monthly Report

Date	Sample Location (Address)	BC Centre for Disease Control		RDN In-House Laboratory & Spectrophotometer								Bureau Veritas Lab	
		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)	Total Iron (mg/L)	Manganese (mg/L)
5-Dec-22	1969 Kaye			0	0	8	7.04	0.50	251.0	0.27	540.0		
7-Dec-22	1969 Kaye	0	0	0	0	7	6.99	0.52	268.0	0.27	554.0	0.0151	0.0112
14-Dec-22	2235 Rascal			0	0	7	7.10	0.52	249.0	0.27	549.0	0.0383	0.0118
19-Dec-22	2235 Rascal	0	0	0	0	7	7.46	0.58	271.0	0.27	558.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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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3-Nov-22	1969 Kaye	0	0	0	0	12	7.16	0.44	279.0	0.28	575.0		
7-Nov-22	2235 Rascal	0	0	0	0	11	7.01	0.31	277.0	0.28	570.0		
16-Nov-22	1969 Kaye Rd			0	0	10	6.83	0.43	271.0	0.27	559.0		
22-Nov-22	2235 Rascal			0	0	10	7.06	0.40	274.0	0.27	564.0		
28-Nov-22	1969 Kaye			0	0	9	6.99	0.56	266.0	0.26	567.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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3-Oct-22	1969 Kaye	0	0	0	0	14	7.12	0.53	270.0	0.27	539.0		
12-Oct-22	2235 Rascal	0	0	0	0	14	6.99	0.38	282.0	0.28	581.0		
17-Oct-22	1969 Kaye			0	0	14	6.89	0.40	278.0	0.28	573.0		
24-Oct-22	2235 Rascal			0	0	15	7.28	0.53	278.0	0.28	572.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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Date	Sample Location (Address)	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)	Total Iron (mg/L)	Manganese (mg/L)
6-Sep-22	1969 Kaye	0	0	0	0	16	7.50	0.75	276.0	0.28	570.0		
14-Sep-22	2235 Rascal	0	0	0	0	16	7.69	0.72	282.0	0.28	580.0		
20-Sep-22	1969 Kaye			0	0	16	7.60	0.30	279.0	0.28	574.0		
26-Sep-22	2235 Rascal			0	0		7.10	0.17	279.0	0.28	572.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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2-Aug-22	1969 Kaye	0	0	0	0	n/a	7.53	0.67	270.0	0.27	555.0		
10-Aug-02	1969 Kaye	0	0	0	0	15	7.25	0.58	274.0	0.27	565.0		
16-Aug-22	1969 Kaye			0	0	16	7.15	0.65	276.0	0.27	569.0		
24-Aug-22	2235 Rascal			0	0	15	7.60	0.68	276.0	0.28	568.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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6-Jul-22	1969 Kaye	0	0	0	0	15	7.92	0.59	271.0	0.27	559.0		
13-Jul-22	2235 Rascal	0	0	0	0	15	7.43	0.58	273.0	0.27	563.0		
20-Jul-22	1969 Kaye			0	0	16	7.30	0.34	266.0	0.25	509.0		
25-Jul-22	2235 Rascal			0	0	15	7.08	0.62	274.0	0.27	565.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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8-Jun-22	1969 Kaye	0	0	0	0	13	7.08	0.68	268.0	0.27	553.0	0.019	0.0137
13-Jun-22	2235 Rascal	0	0	0	0	12	7.63	0.55	267.0	0.27	551.0		
20-Jun-22	2235 Rascal			0	0	13	7.24	0.61	266.0	0.26	548.0	0.012	0.0081
29-Jun-22	2235 Rascal			0	0	15	7.11	0.63	270.0	0.27	557.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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3-May-22	1969 Kaye			0	0	9	7.00	0.66	261.0	0.25	544.0		
9-May-22	2235 Rascal			0	0	10	7.29	0.59	250.0	0.25	529.0		
17-May-22	2235 Rascal	0	0	0	0	10	7.22	0.61	262.0	0.26	511.0		
25-May-22	1969 Kaye			0	0	10	7.90	0.58	283.0	0.28	583.0		
31-May-22	2235 Rascal	0	0	0	0	11	7.09	0.62	263.0	0.26	541.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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5-Apr-22	1969 Kaye	0	0	0	0	8	7.80	0.59	262.0	0.26	541.0		
13-Apr-22	2235 Rascal			0	0	8	7.23	0.49	266.0	0.26	555.0		
19-Apr-22	2235 Rascal	0	0	0	0	9	7.30	0.66	259.0	0.26	549.0		
27-Apr-22	1969 Kaye			0	0	8	6.96	0.71	259.0	0.26	535.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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1-Mar-22	2235 Rascal	0	0	0	0	7	7.19	0.69	251.0	0.25	539.0		
8-Mar-22	2235 Rascal	0	0	0	0	6	6.88	0.70	263.0	0.26	542.0		
16-Mar-22	1969 Kaye			0	0	8	7.54	0.61	255.0	0.25	529.0	0.0182	0.008
23-Mar-22	2235 Rascal			0	0	8	7.55	0.75	261.0	0.26	541.0	0.0171	0.013
29-Mar-22	1969 Kaye			0	0	8	7.13	0.62	268.0	0.27	552.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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01-Feb-22	2235 Rascal	0	0	0	0	6	7.2	0.66	260	0.25	544		
8-Feb-22	1969 Kaye	0	0	0	0	6	7.12	0.79	264.0	0.26	546.0		
14-Feb-22	2235 Rascal			0	0	7	7.09	0.55	259.0	0.26	513.0		
23-Feb-22	1969 Kaye			0	0	7	7.54	0.71	263.0	0.26	542.0		
24-Feb-22	1969 Kaye (Resample)			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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5-Jan-22	2235 Rascal			0	0	6	7.46	0.86	266.0	0.27	549.0		
12-Jan-22	1969 Kaye			0	0	5	7.41	0.39	261.0	0.26	535.0		
19-Jan-22	2235 Rascal	0	0	0	0	7	7.32	0.72	265.0	0.26	547.0		
25-Jan-22	1969 Kaye	0	0	0	0	6	7.48	0.80	269.0	0.27	556.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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