

# Regional District of Nanaimo - Water Services Department

## River's Edge Water Analysis - 2023 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)	Turbidity (NTU)	Total Iron (mg/L)	Manganese (mg/L)
6-Sep-23	2235 Rascal	0	0	0	0	15	8.17	0.67	288.0	0.29	593.0	0.40		
13-Sep-23	1969 Kaye	0	0	0	0	16	8.21	0.61	290.0	0.29	596.0	0.53		
20-Sep-23	2235 Rascal			0	0	15	7.84	0.71	286.0	0.28	588.0	0.41		
27-Sep-23	1969 Kaye			0	0	17	7.61	0.71	289.0	0.29	596.0	0.59		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	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](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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1-Aug-23	2235 Rascal			0	0	15	8.23	0.50	n/a	n/a	n/a	0.59		
8-Aug-23	1969 Kaye Rd	0	0	0	0	15	8.05	0.68	n/a	n/a	n/a	0.63		
15-Aug-23	2235 Rascal			0	0	16	8.04	0.55	n/a	n/a	n/a	0.39		
23-Aug-23	1969 Kaye Rd			0	0	17	8.18	0.69	289.0	0.3	595.0	0.90		
29-Aug-23	1969 Kaye Rd			0	0	17	8.17	0.73	290.0	0.29	597.0	0.47		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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4-Jul-23	2235 Rasal	0	0	0	0	15	8.14	0.61	285.0	0.28	587.0	0.48		
11-Jul-23	1969 Kaye	0	0	0	0	16	8.18	0.50	283.0	0.28	583.0	0.39		
18-Jul-23	2235 Rasal			0	0	15	8.19	0.49	286.0	0.29	589.0	0.65		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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6-Jun-23	2235 Rascal	0	0	0	0	15	6.63	0.52	280.0	0.28	577.0	0.57		
13-Jun-23	1969 Kaye	0	0	0	0	15	6.77	0.52	276.0	0.28	569.0	0.40		
20-Jun-23	2235 Rascal			0	0	16	7.21	0.66	281.0	0.28	579.0	0.39		
27-Jun-23	1969 Rascal			0	0	15	6.99	0.67	280.0	0.28	580.0	0.40		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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3-May-23	2235 Rascal			0	0	9	7.28	0.63	259.0	0.26	536.0		
9-May-23	1969 Kaye	0	0	0	0	9	7.15	0.56	268.0	0.27	550.0		
15-May-23	2235 Rascal	0	0	0	0	13	6.79	0.63	272.0	0.27	560.0		
24-May-23	1969 Kaye			0	0	12	7.06	0.30	280.0	0.28	579.0		
30-May-23	1969 Kaye			0	0	13	6.90	0.71	276.0	0.28	570.0		
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-23	2235 Rascal	0	0	0	0	7	7.30	0.75	265.0	0.26	547.0		
11-Apr-23	1969 Kaye	0	0	0	0	6	7.39	0.71	264.0	0.26	543.0		
19-Apr-23	2235 Rascal			0	0	9	7.08	0.65	264.0	0.26	544.0		
26-Apr-23	1969 Kaye			0	0	8	7.30	0.53	291.0	0.26	542.0		
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-Mar-23	2235 Rascal	0	0	0	0	7	7.25	0.62	256.0	0.25	531.0	0.02	0.013
15-Mar-23	1969 Kaye	0	0	0	0	6	7.00	0.36	264.0	0.26	544.0	0.0096	0.005
20-Mar-23	2235 Rascal			0	0	7	6.87	0.61	261.0	0.26	536.0		
27-Mar-23	1969 Kaye			0	0	6	7.00	0.55	264.0	0.26	545.0		
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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08-Feb-23	2235 Rascal	0	0	0	0	7	7.27	0.32	270	0.27	557		
13-Feb-23	1969 Kaye	0	0	0	0	8	7.08	0.58	270.0	0.27	556.0		
21-Feb-23	2235 Rascal			0	0	8	7.40	0.36	266.0	0.27	549.0		
28-Feb-23	1969 Kaye			0	0	7	7.41	0.56	33.9	0.03	72.1		
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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4-Jan-23	2235 Rascal	0	0	0	0	7	6.80	0.52	271.0	0.27	559.0		
11-Jan-23	1969 Kaye			0	0	8	7.24	0.43	266.0	0.27	548.0		
16-Jan-23	2235 Rascal	0	0	0	0	7	7.60	0.30	271.0	0.27	559.0		
25-Jan-23	2335 Rascal			0	0	8	6.80	0.46	271.0	0.27	558.0		
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