Regional District of Nanaimo - Water Services Department

French Creek Water Analysis - 2024 Monthly Report

		BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer								
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)	Turbidity (NTU)
3-Jan-24	1228 Sunrise	0	0	0	0	10	6.79	0.34	51.4	0.05	109.0	0.14
24-Jan-24	1381 Gilley	0	0	0	0	9	6.77	0.37	59.1	0.06	125.6	0.2
31-Jan-24	1381 Gilley			0	0	n/a	7.58	0.38	52.8	0.05	111.5	0.21
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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.

Regional District of Nanaimo - Water Services Department

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6-Feb-24	1228 Sunrise	0	0	0	0	9	6.79	0.32	52.5	0.05	110.8	0.3
14-Feb-24	1381 Gilley	0	0	0	0	9	6.93	0.39	57.9	0.06	123.1	0.15
28-Feb-24	1381 Gilley			0	0	8	7.29	0.55	60.3	0.06	127.4	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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4-Mar-24	1228 Sunrise	0	0	0	0	8	6.80	0.33	53.0	0.05	112.1	0.11
19-Mar-24	1381 Gilley	0	0	0	0	9	7.13	0.29	59.1	0.06	125.1	0.13
26-Mar-24	1228 Sunrise	0	0	0	0	11	7.52	0.31	51.0	0.05	109.0	0.35
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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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)	Turbidity (NTU)
9-Apr-24	1228 Sunrise	0	0	0	0	10	6.84	0.55	66.9	0.07	141.5	0.16
16-Apr-24	1381 Gilley	0	0	0	0	10	7.25	0.45	66.4	0.07	139.9	0.14
24-Apr-24	1228 Sunrise			0	0	13	6.89	0.56	54.3	0.05	115.1	0.27
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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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)	Turbidity (NTU)
8-May-24	1228 Sunrise	0	0	0	0	12	6.64	0.38	53.3	0.05	113.0	0.23
14-May-24	1381 Gilley	0	0	0	0	13	6.70	0.47	63.2	0.06	133.8	0.12
21-May-24	1228 Sunrise			0	0	13	7.04	0.44	65.0	0.06	137.5	0.24
28-May-24	1381 Gilley			0	0	13	7.09	0.43	61.9	0.06	130.9	0.18
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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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)	Turbidity (NTU)
5-Jun-24	1228 Sunrise	0	0	0	0	14	6.99	0.35	60.3	0.06	127.2	0.15
17-Jun-24	1381 Gilley	0	0	0	0	15	6.87	0.46	63.3	0.06	133.8	0.22
26-Jun-24	1381 Gilley			0	0	16	7.32	0.53	65.5	0.06	138.5	0.2
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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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)	Turbidity (NTU)
2-Jul-24	1228 Sunrise	0	0	0	0	12	6.78	0.46	60.3	0.06	126.9	0.29
9-Jul-24	1381 Gilley	0	0	0	0	17	6.89	0.47	79.0	0.08	166.5	0.25
17-Jul-24	1228 Sunrise			0	0	17	7.23	0.44	82.3	0.08	173.4	0.43
24-Jul-24	1381 Gilley			0	0	19	7.21	0.34	88.3	0.09	185.9	0.18
30-Jul-24	1381 Gilley			0	0	17	7.18	0.28	90.8	0.09	191.6	0.18
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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7-Aug-24	1228 Sunrise	0	0	0	0	18	7.10	0.38	80.4	0.08	169.3	0.15
12-Aug-24	1381 Gilley	0	0	0	0	18	6.89	0.43	81.5	0.08	173.0	0.40
13-Aug-24	1381 Gilley			0	0	18	6.89	0.43	81.5	0.08	173.0	0.40
20-Aug-24	1228 Sunrise			0	0	18.3	7.44	0.31	74.1	0.07	156.9	0.18
27-Aug-24	1381 Gilley			0	0	19	7.39	0.34	86.7	0.09	183.7	0.20
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-Sep-24	1228 Sunrise	0	0	0	0	19	6.79	0.46	70.0	0.07	147.7	0.15
11-Sep-24	1381 Gilley	0	0	0	0	18	6.90	0.29	80.8	0.08	170.7	0.23
16-Sep-24	1228 Sunrise			0	0	17	6.71	0.42	73.2	0.07	154.2	0.30
24-Sep-24	1381 Gilley			0	0	17	6.94	0.40	74.0	0.07	159.0	0.17
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-Oct-24	1381 Gilley	0	0	0	0	17	6.91	0.33	75.0	0.07	159.0	0.31
15-Oct-24	1228 Sunrise	0	0	0	0	15	6.93	0.43	64.3	0.06	135.8	0.22
23-Oct-23	1381 Gilley			0	0	15	7.09	0.25	70.0	0.07	149.0	0.14
29-Oct-24	1381 Gilley			0	0	14	7.19	0.30	69.4	0.07	146.7	0.12
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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6-Nov-24	1228 Sunrise	0	0	0	0	12.7	6.36	0.34	58.5	0.06	123.7	0.26
25-Nov-24	1381 Gilley	0	0	0	0			0.10	75.7	0.07	160.1	
26-Nov-24	1228 Sunrise	0	0	0	0	10		0.37	56.3	0.06	118.7	0.36
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-Dec-24	1228 Sunrise	0	0	0	0	10	7.21	0.49	55.7	0.06	117.9	0.11
9-Dec-24	1381 Gilley	QRWRT	QRWRT	0	0	11		0.40	62.9	0.06	132.9	0.13
17-Dec-24	1228 Sunrise			0	0			0.42	57.6	0.06	122.0	0.13
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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QRWRT: Sample exceeded 30 hours from time of collection, results may not be valid. No written report will be issued and only a qualitative result will be reported by telephone.

Comments:

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