



Regional District of Nanaimo - Water Services Department

French Creek Water Analysis - 2011 Monthly Report



Date	Sample Location (Address)	Health Department		In-House									
		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)
05-Jan-11	1228 Sunrise	0	0	0	0		8.2	0.36	146	0.1	308	0.08	0.087
11-Jan-11	1334 Lanyon	0	0	0	0		7.9	0.34	152	0.2	324		
17-Jan-11	1381 Gilley			0	0		7.8	0.14	151	0.2	325		
26-Jan-11	1228 Sunrise			0	0	10	7.2	0.22	149	0.1	315		
	Average	0	0	0	0	10.0	7.8	0.27	149.5	0.2	318.0	0.08	0.087
	Maximum	0	0	0	0	10	8.2	0.36	152	0.2	325	0.08	0.087
	Minimum	0	0	0	0	10	7.2	0.14	146	0.1	308	0.08	0.087

Red font indicates non-compliance with Canadian Drinking Water Guidelines

Aesthetic Objective for Iron is ≤0.3 mg/L

Aesthetic Objective for Manganese is ≤0.05mg/L

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

Yellow Column Coliform tests are completed by Health Department

Blue column tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.



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01-Feb-11	1334 Lanyon	0	0	0	0	7	7.8	0.10	149	0.1	313	0.09	0.116
09-Feb-11	1228 Sunrise	0	0	0	0	9	7.3	0.54	149	0.1	318		
14-Feb-11	1381 Gilley			0	BG	8	7.8	0.24	151	0.1	320		
16-Feb-11	1381 Gilley			0	0								
21-Feb-11	1228 Sunrise			0	0	9	7.9	0.25	150	0.1	319		
	Average	0	0	0	0	8.3	7.7	0.28	149.8	0.1	317.5	0.09	0.116
	Maximum	0	0	0	0	9	7.9	0.54	151	0.1	320	0.09	0.116
	Minimum	0	0	0	0	7	7.3	0.1	149	0.1	313	0.09	0.116

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Total coliforms can be an indicator of adverse water quality if the result in the resample is positive (US Environmental Protection Agency). RDN water samples are always tested for fecal coliform bacteria at the same time as total coliforms to rule out the presence of harmful pathogens. If background bacteria (BG), total or fecal bacteria are detected location is resampled. If the bacteria test is overgrown (OG) location is also resampled.



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01-Mar-11	1334 Lanyon	0	0	0	0	7	6.9	0.34	147	0.1	312	0.09	0.101
07-Mar-11	1228 Sunrise	0	0	0	0	9	7.6	0.16	148	0.1	313		
15-Mar-11	1381 Gilley			0	0	8	7.6	0.58	151	0.1	321		
23-Mar-11	1334 Lanyon			0	0	8	7.8	0.23	152	0.2	318		
28-Mar-11	1228 Sunrise			0	0	10	7.5	0.56	153	0.2	325		
	Average	0	0	0	0	8.4	7.5	0.37	150.2	0.1	317.8	0.09	0.101
	Maximum	0	0	0	0	10	7.8	0.58	153	0.2	325	0.09	0.101
	Minimum	0	0	0	0	7	6.9	0.16	147	0.1	312	0.09	0.101

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06-Apr-11	1334 Lanyon	0	0	0	0	9	8.32	0.09	144.6	0.14	295	0.13	0.073
11-Apr-11	1228 Sunrise	0	0	0	0	10	8.19	0.10	146.3	0.14	306		
18-Apr-11	1381 Gilley			0	0	10	8.24	0.07	149.7	0.15	312		
26-Apr-11	1228 Sunrise			0	0	10	8.40	0.19	169.0	0.20	356		
	Average	0	0	0	0	9.8	8.29	0.11	152.4	0.16	317.3	0.13	0.073
	Maximum	0	0	0	0	10	8.40	0.19	169.0	0.20	356	0.13	0.073
	Minimum	0	0	0	0	9	8.19	0.07	144.6	0.14	295	0.13	0.073

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03-May-11	1334 Lanyon	0	0	0	0	10	8.05	0.09	145.9	0.14	306	0.11	0.110
10-May-11	1381 Gilley			0	0	11	8.1	0.37	158.0	0.20	271		
16-May-11	1228 Sunrise	0	0	0	0	12	8.1	0.32	153.0	0.20	258		
24-May-11	1334 Lanyon			0	0	11	8.3	0.26	153.0	0.20	271		
31-May-11	1228 Sunrise			0	0	13	8.25	0.19	150.1	0.15	313		
	Average	0	0	0	0	11.4	8.2	0.25	152.0	0.18	283.8	0.11	0.11
	Maximum	0	0	0	0	13	8.3	0.37	158.0	0.20	313	0.11	0.11
	Minimum	0	0	0	0	10	8.05	0.09	145.9	0.14	258	0.11	0.11

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06-Jun-11	1334 Lanyon Dr	0	0	0	0	14	7.7	0.27	151.0	0.10	275	0.09	0.012
15-Jun-11	1228 Sunrise	0	0	0	0	13	7.7	0.31	152.0	0.20	257		
22-Jun-11	1381 Gilley			0	0	15	8.1	0.22	150.1	0.15	313		
27-Jun-11	1334 Lanyon Dr			0	0	16	7.9	0.17	151.0	0.10	287		
	Average	0	0	0	0	14.5	7.9	0.24	151.0	0.14	283.0	0.09	0.012
	Maximum	0	0	0	0	16	8.1	0.31	152.0	0.20	313	0.09	0.012
	Minimum	0	0	0	0	13	7.7	0.17	150.1	0.10	257	0.09	0.012

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04-Jul-11	1228 Sunrise Dr	0	0	0	0	12	7.85	0.19	146.7	0.15	307		
12-Jul-11	1334 Lanyon Dr	0	0	0	0	16	7.59	0.30	148.5	0.15	310	0.07	0.114
19-Jul-11	1381 Gilley Cr			0	0	14	7.58	0.09	148.4	0.15	310		
26-Jul-11	1228 Sunrise Dr			0	0	13	7.3	0.67	157.0	0.20	322		
	Average	0	0	0	0	13.8	7.6	0.31	150.2	0.2	312.3	0.07	0.114
	Maximum	0	0	0	0	16	7.85	0.67	157	0.2	322	0.07	0.114
	Minimum	0	0	0	0	12	7.3	0.09	146.7	0.15	307	0.07	0.114

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03-Aug-11	1228 Sunrise	0	0	0	0	13	7.43	0.41	146.5	0.15	288	0.1	0.018
08-Aug-11	1334 Lanyon	0	0	0	0	17	7.73	0.11	149.8	0.15	312		
16-Aug-11	1381 Gilley			0	0	17	7.29	0.85	145.3	0.14	269		
23-Aug-11	1334 Lanyon			0	0	17	7.47	0.28	149.0	0.15	286		
30-Aug-11	1228 Sunrise			0	0	14	7.28	0.41	144.9	0.14	268		
	Average	0	0	0	0	15.6	7.4	0.41	147.1	0.1	284.6	0.10	0.018
	Maximum	0	0	0	0	17	7.73	0.85	149.8	0.15	312	0.1	0.018
	Minimum	0	0	0	0	13	7.28	0.11	144.9	0.14	268	0.1	0.018

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06-Sep-11	1334 Lanyon	0	0	0	0	17	7.46	0.11	147.0	0.15	307.0	0.09	0.130
13-Sep-11	1228 Sunrise	0	0	0	0		7.42	0.14	144.3	0.14	301.0		
19-Sep-11	1381 Gilley			0	0	17	7.49	0.41	147.1	0.15	248.0		
27-Sep-11	1334 Lanyon			0	0	17	7.45	0.20	147.7	0.15	305.0		
	Average	0	0	0	0	17.0	7.5	0.22	146.5	0.1	290.3	0.09	0.13
	Maximum	0	0	0	0	17	7.49	0.41	147.7	0.15	307	0.09	0.13
	Minimum	0	0	0	0	17	7.42	0.11	144.3	0.14	248	0.09	0.13

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05-Oct-11	1228 Sunrise Dr	0	0	0	0	12	7.30	0.11	144.7	0.14	302.0	0.15	0.141
11-Oct-11	1334 Lanyon Dr	0	0	0	0	15	7.50	0.16	150.3	0.15	314.0		
18-Oct-11	1381 Gilley			0	0	14	7.31	0.36	148.8	0.15	311.0		
24-Oct-11	1228 Sunrise Dr			0	0	13	7.41	0.39	148.5	0.15	310.0		
	Average	0	0	0	0	13.5	7.38	0.26	148.1	0.15	309.3	0.15	0.141
	Maximum	0	0	0	0	15	7.50	0.39	150.3	0.15	314.0	0.15	0.141
	Minimum	0	0	0	0	12	7.30	0.11	144.7	0.14	302.0	0.15	0.141

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01-Nov-11	1334 Lanyon	0	0	0	0	12	7.24	0.13	143.6	0.14	300.0	0.09	0.083
07-Nov-11	1228 Sunrise Dr	T	T	0	0	10	7.06	0.63	148.9	0.15	310.0		
14-Nov-11	1381 Gilley			0	0	11	7.43	0.38	152.0	0.15	317.0		
21-Nov-11	1228 Sunrise Dr			0	0	9	7.12	0.43	142.7	0.14	250.0		
28-Nov-11	1381 Gilley			0	0	9	7.33	0.10	150.6	0.15	314.0		
	Average	0	0	0	0	10.2	7.2	0.33	147.6	0.1	298.2	0.09	0.083
	Maximum	0	0	0	0	12	7.43	0.63	152	0.15	317	0.09	0.083
	Minimum	0	0	0	0	9	7.06	0.1	142.7	0.14	250	0.09	0.083

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T-Transport time was too long to laboratory.

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05-Dec-11	1334 Lanyon	0	0	0	0	8	7.00	0.28	145.8	0.15	305	0.11	0.096
13-Dec-11	1228 Sunrise	0	0	0	0	8	7.09	0.32	149.5	0.15	312		
19-Dec-11	1381 Gilley			0	0	9	7.17	0.1	148.5	0.15	222		
	Average	0	0	0	0	8.3	7.1	0.23	147.9	0.2	279.7	0.11	0.096
	Maximum	0	0	0	0	9	7.17	0.32	149.5	0.15	312	0.11	0.096
	Minimum	0	0	0	0	8	7	0.1	145.8	0.15	222	0.11	0.096

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