



Regional District of Nanaimo - Water Services Department

Nanoose Water Analysis - 2010 Monthly Report



Date	Sample Location (Address)	Health Department		In-House									
		Fecal Coliform *	Total Coliform *	Fecal Coliform *	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-Jan-10	1961 Harlequin	0	0	0	0	7	7.2	0.08	166	0.2	352	0.15	0.079
12-Jan-10	1270 Seadog	0	0	0	0	8	7.2	0.17	158	0.2	332		
20-Jan-10	1900 Sea Otter	0	0	0	0	8		0.12	166	0.2	349		
26-Jan-10	1597 Haida Way	0	0	0	0	8	7.3	0.10	158	0.2	322		
	Average	0	0	0	0	7.8	7.2	0.12	162.0	0.2	338.8	0.15	0.079
	Maximum	0	0	0	0	8	7.3	0.17	166	0.2	352	0.15	0.079
	Minimum	0	0	0	0	7	7.2	0.08	158	0.2	322	0.15	0.079

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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9-Feb-10	1961 Harlequin	0	0	0	0	8	7.2	0.02	157	0.2	332	0.18	0.177
17-Feb-10	1639 Marina Way	0	0	0	0	9	7.1	0.06	153	0.2	322		
17-Feb-10	1900 Sea Otter PI	0	0	0	0	8	6.7	0.05	159	0.2	335		
23-Feb-10	1270 Sea Dog	0	0	0	0	8	6.9	0.08	156	0.2	328		
	Average	0	0	0	0	8.3	7.0	0.05	156.3	0.2	329.3	0.18	0.177
	Maximum	0	0	0	0	9	7.2	0.08	159	0.2	335	0.18	0.177
	Minimum	0	0	0	0	8	6.7	0.02	153	0.2	322	0.18	0.177

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3-Mar-10	1961 Harlequin	0	0	0	0	8	7.2	0.04	160	0.2	337	0.16	0.117
9-Mar-10	1639 Marina Way	0	0	0	0	9	7.2	0.05	156	0.2	329		
17-Mar-10	1900 Sea Otter	0	0	0	0	8	6.9	0.06	163	0.2	343		
24-Mar-10	1270 Sea Dog	0	0	0	0	9	7.2	0.07	156	0.2	327		
30-Mar-10	1900 Sea Otter			0	0	9	7.2	0.04	162	0.2	342		
	Average	0	0	0	0	8.6	7.1	0.05	159.4	0.2	335.6	0.16	0.117
	Maximum	0	0	0	0	9	7.2	0.07	163	0.2	343	0.16	0.117
	Minimum	0	0	0	0	8	6.9	0.04	156	0.2	327	0.16	0.117

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7-Apr-10	1639 Marina Way			0	0	9	7.2	0.07	156	0.2	329	0.21	0.137
13-Apr-10	1961 Harlequin	0	0	0	0	9	7.1	0.07	162	0.2	340		
20-Apr-10	1270 Seadog	0	0	0	0	11	6.8	0.07	143	0.1	301		
27-Apr-10	1900 Sea Otter	0	0	0	0	11	7.1	0.04	160	0.2	337		
	Average	0	0	0	0	10.0	7.1	0.06	155.3	0.2	326.8	0.21	0.137
	Maximum	0	0	0	0	11	7.2	0.07	162	0.2	340	0.21	0.137
	Minimum	0	0	0	0	9	6.8	0.04	143	0.1	301	0.21	0.137

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4-May-10	1639 Marina Way			0	0	11	7.3	2.2	163	0.2	340	0.39	0.152
12-May-10	1961 Harlequin	0	0	0	0	12	7.1	0.05	170	0.2	358		
19-May-10	1270 Seadog	0	0	0	0	12	7.5	2.01	161	0.2	332		
25-May-10	1909 Sea Otter	0	0	0	0	n/a	7.5	1.2	149	0.1	312		
	Average	0	0	0	0	11.7	7.4	1.37	160.8	0.2	335.5	0.39	0.152
	Maximum	0	0	0	0	12	7.5	2.2	170	0.2	358	0.39	0.152
	Minimum	0	0	0	0	11	7.1	0.05	149	0.1	312	0.39	0.152

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9-Jun-10	1639 Marina Way	0	0	0	0		7.6	0.68	135	0.1	284	0.29	0.148
15-Jun-10	1900 Sea Otter	0	0	0	0		7.4	0.02	120	0.1	253		
22-Jun-10	1270 Sea Dog	0	0	0	0		7.4	0.05	109	0.1	229		
29-Jun-10	1961 Harlequin	0	0	0	0		7	0.08	136	0.1	286		
	Average	0	0	0	0	#DIV/0!	7.4	0.21	125.0	0.1	263.0	0.29	0.148
	Maximum	0	0	0	0	0	7.6	0.68	136	0.1	286	0.29	0.148
	Minimum	0	0	0	0	0	7	0.02	109	0.1	229	0.29	0.148

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6-Jul-10	1639 Marina			0	0		7.6	0.47	109	0.1	161	0.04	0.02
13-Jul-10	1270 Seadog	0	0	0	0		7.5	0.14	113	0.1	239		
21-Jul-10	1900 Sea Otter	0	0	0	6	18	7.6	0.06	113	0.1	238		
27-Jul-10	1961 Harlequin	0	0	0	0	18	7.7	0.05	114	0.1	250		
	Average	0	0	0	1.5	18.0	7.6	0.18	112.3	0.1	222.0	0.04	0.02
	Maximum	0	0	0	6	18	7.7	0.47	114	0.1	250	0.04	0.02
	Minimum	0	0	0	0	18	7.5	0.05	109	0.1	161	0.04	0.02

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Comments:

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

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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4-Aug-10	1639 Marina Way			0	0	14	7.2	0.09	129	0.1	269	0.32	0.126
9-Aug-10	1900 Sea Otter	0	0	0	BG	18	7.3	0.02	125	0.1	260		
12-Aug-10	1900 Sea Otter			0	0								
17-Aug-10	1270 Sea Dog	0	0	0	0	18	7.2	0.02	129	0.1	272		
23-Aug-10	1961 Harlequin	0	0	0	0	18	7.5	0.13	122	0.1	234		
31-Aug-10	1270 Sea Dog			0	0	15	7.4	0.03	13	0.1	286		
	Average	0	0	0	0	16.6	7.3	0.06	103.6	0.1	264.2	0.32	0.126
	Maximum	0	0	0	0	18	7.5	0.13	129	0.1	286	0.32	0.126
	Minimum	0	0	0	0	14	7.2	0.02	13	0.1	234	0.32	0.126

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BG-Background levels of bacteria.

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8-Sep-10	1900 Sea Otter	0	0	0	0	17	7.4	0.06	105	0.1	221	0.06	0.023
15-Sep-10	1639 Marina	0	0	0	0	16	7.2	0.5	159	0.2	334		
21-Sep-10	1961 Harlequin	0	0	0	0	16	7.1	0	141	0.1	297		
28-Sep-10	1270 Seadog	0	0	0	0	16	7.5	0.06	126	0.1	265		
	Average	0	0	0	0	16.3	7.3	0.16	132.8	0.1	279.3	0.06	0.023
	Maximum	0	0	0	0	17	7.5	0.5	159	0.2	334	0.06	0.023
	Minimum	0	0	0	0	16	7.1	0	105	0.1	221	0.06	0.023

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5-Oct-10	1900 Sea Otter			0	0	15	7	0.01	122	0.1	256	0.08	0.017
13-Oct-10	1639 Marina Way	0	0	0	0	12	7.4	0.02	164	0.2	345		
18-Oct-10	1961 Harlequin	0	0	0	0		7.7	0.02	132	0.1	277		
25-Oct-10	1270 Seadog	0	0	0	0	12	7.8	0.02	140	0.1	296		
	Average	0	0	0	0	13.0	7.5	0.02	139.5	0.1	293.5	0.08	0.017
	Maximum	0	0	0	0	15	7.8	0.02	164	0.2	345	0.08	0.017
	Minimum	0	0	0	0	12	7	0.01	122	0.1	256	0.08	0.017

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2-Nov-10	1639 Marina Way	0	0	0	0	11	7.1	0.11	169	0.2	349	0.28	0.152
9-Nov-10	1900 Sea Otter	0	0	0	0	11	7.6	0	166	0.2	351		
16-Nov-10	1270 Seadog Road	0	0	0	0	10	7.6	0.05	171	0.2	359		
24-Nov-10	1961 Harlequin	A	A	0	0	9	7.2	0.02	166	0.2	348		
30-Nov-10	1639 Marina Way			0	1	8	7.6	0.73	166	0.2	349		
Average		0	0	0	0.2	9.8	7.4	0.18	167.6	0.2	351.2	0.28	0.152
Maximum		0	0	0	1	11	7.6	0.73	171	0.2	359	0.28	0.152
Minimum		0	0	0	0	8	7.1	0	166	0.2	348	0.28	0.152

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7-Dec-10	1900 Sea Otter	0	0	0	0	8	7.2	0.01	172	0.2	362	1.01	0.149
7-Dec-10	1270 Sea Dog	0	0	0	0			0					
14-Dec-10	1639 Marina Way	0	0	0	0		7.4	0.1	169	0.2	357		
14-Dec-10	1961 Harlequin	0	0	0	0			0.03					
21-Dec-10	1639 Marina Way			0	0		7.8	2.2	165	0.2	347		
30-Dec-10	1639 Marina Way			0	0		7.6	0.52	168	0.2	353		
	Average	0	0	0	0	8.0	7.5	0.48	168.5	0.2	354.8	1.01	0.149
	Maximum	0	0	0	0	8	7.8	2.2	172	0.2	362	1.01	0.149
	Minimum	0	0	0	0	8	7.2	0	165	0.2	347	1.01	0.149

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