



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2013 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)
4-Dec-13	1565 Stonelake	0	0	0	0	10	7.19	0.63	200.4	0.20	416.0	0.01	0.012
4-Dec-13	3427 Tye	0	0	0	0	7	7.18	0.52	224.0	0.22	462.0	0.12	0.026
4-Dec-13	1270 Sea Dog	0	0	0	0	8	7.19	0.65	224.0	0.22	464.0	0.48	0.045
4-Dec-13	2315 Ida Lane	0	0	0	0	10	7.24	0.01	220.0	0.22	456.0	0.12	0.014
4-Dec-13	3500 Fairwinds	0	0	0	0	8	7.56	0.70	222.0	0.22	460.0	0.05	0.012
4-Dec-13	1996 Highland	0	0	0	0	9	7.53	0.51	224.0	0.22	463.0	0.04	0.000
4-Dec-13	2329 Chain Way	0	0	0	0	10	7.53	1.29	224.0	0.22	464.0	0.05	0.000
11-Dec-13	1358 Madrona	0	0	0	0	9	7.20	0.60	204.0	0.20	423.0		
11-Dec-13	1639 Marina	0	0	0	0	7	7.20	1.05	225.0	0.22	466.0		
11-Dec-13	2359 Higginson	0	0	0	0	8	7.20	0.95	225.0	0.22	467.0		
11-Dec-13	2454 Armstrong	0	0	0	0	9	7.29	1.00	227.0	0.23	469.0		
11-Dec-13	Lot 54 Evanshire	0	0	0	0	8	7.37	0.86	226.0	0.23	468.0		
11-Dec-13	3383 Redden	0	0	0	0	7	7.39	0.62	225.0	0.22	466.0		
11-Dec-13	2339 Garry Oak	0	0	0	0	8	7.40	0.90	225.0	0.22	465.0		
18-Dec-13	1566 Arbutus	0	0	0	0	8	6.92	1.04	197.5	0.20	410.0		
18-Dec-13	1961 Harlequin	0	0	0	0	6	6.94	0.66	226.0	0.22	468.0		
18-Dec-13	NB Elementary			0	0	9	6.98	1.17	226.0	0.23	470.0		
18-Dec-13	3465 Cambridge	0	0	0	0	7	7.05	0.87	227.0	0.23	470.0		
18-Dec-13	3730 Fairwinds	0	0	0	0	6	7.10	0.55	227.0	0.23	469.0		
18-Dec-13	3541 Shelby	0	0	0	0	6	7.33	0.78	226.0	0.23	467.0		
18-Dec-13	2940 Fairwinds	0	0	0	0	7	7.29	1.12	224.0	0.22	458.0		
30-Dec-13	1565 Stonelake			0	0	9	6.82	0.54	195.1	0.19	405.0		
30-Dec-13	1270 Sea Dog			0	0	8	6.87	1.00	226.0	0.23	468.0		
30-Dec-13	2454 Armstrong			0	0	8	6.69	1.00	216.4	0.21	450.0		
30-Dec-13	3500 Fairwinds			0	0	7	6.94	0.80	224.0	0.22	463.0		
30-Dec-13	2329 Chain Way			0	0	7	6.97	0.43	224.0	0.22	462.0		
	Average	0	0	0	0	7.9	7.2	0.78	220.6	0.2	456.5	0.12	0.016
	Maximum	0	0	0	0	10	7.56	1.29	227	0.23	470	0.48	0.045
	Minimum	0	0	0	0	6	6.69	0.01	195.1	0.19	405	0.01	0.000

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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		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-Nov-13	1566 Arbutus	0	0	0	0	11	7.12	0.79	212.0	0.21	438.0		
6-Nov-13	3427 Tyee	0	0	0	0	10	7.32	0.36	216.8	0.22	449.0		
6-Nov-13	1270 Sea Dog	0	0	0	0	10	7.31	1.23	227.0	0.23	470.0		
6-Nov-13	2454 Armstrong	0	0	0	0	12	7.35	0.73	229.0	0.23	475.0		
6-Nov-13	3500 Fairwinds	0	0	0	0	10	7.41	1.38	227.0	0.23	471.0		
6-Nov-13	1996 Highland	0	0	0	0	12	7.48	0.78	226.0	0.23	470.0		
6-Nov-13	2940 Fairwinds	0	0	0	0	7	7.47	1.25	229.0	0.23	475.0		
13-Nov-13	1565 Stonelake	0	0	0	0	11	7.04	0.98	202.0	0.20	419.0	0.01	0.023
13-Nov-13	2359 Higginson	0	0	0	0	10	7.16	1.16	228.0	0.23	472.0	0.05	0.044
13-Nov-13	2315 Ida Lane	0	0	0	0	12	7.19	0.02	225.0	0.22	467.0	0.1	0.042
13-Nov-13	Lot 54 Evanshire	0	0	0	0	10	7.54	1.01	228.0	0.23	473.0	0.09	0.038
13-Nov-13	3383 Redden	0	0	0	0	11	7.55	0.75	228.0	0.23	471.0	0.05	0.016
13-Nov-13	2329 Chain	0	0	0	0	9	7.50	0.37	225.0	0.22	465.0	0.06	0.025
20-Nov-13	1358 Madrona	0	0	0	0	11	7.07	0.83	210.0	0.21	436.0		
20-Nov-13	1639 Marina	0	0	0	0	9.5	7.13	1.16	223.0	0.22	462.0		
20-Nov-13	NB Elementary			0	0	10	7.15	1.90	225.0	0.22	466.0		
20-Nov-13	3730 Fairwinds	0	0	0	0	11	7.09	0.92	226.0	0.22	469.0		
20-Nov-13	3541 Shelby	0	0	0	0	11	7.17	0.93	226.0	0.23	468.0		
20-Nov-13	2339 Garry Oak	0	0	0	0	10	7.19	1.27	226.0	0.22	468.0		
27-Nov-13	1566 Arbutus			0	0	9	7.11	0.40	195.3	0.19	405.0		
27-Nov-13	1961 Harlequin	0	0	0	0	8	7.08	0.57	224.0	0.22	464.0		
27-Nov-13	2454 Armstrong			0	0	10	7.11	0.37	223.0	0.22	461.0		
27-Nov-13	3465 Cambridge	0	0	0	0	9	7.16	0.74	224.0	0.22	464.0		
27-Nov-13	2940 Fairwinds			0	0	9	7.21	0.64	224.0	0.22	463.0		
	Average	0	0	0	0	10.1	7.2	0.86	222.0	0.2	460.0	0.06	0.031
	Maximum	0	0	0	0	12	7.55	1.9	229	0.23	475	0.1	0.044
	Minimum	0	0	0	0	7	7.04	0.02	195.3	0.19	405	0.01	0.016

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

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Comments:

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		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)
1-Oct-13	1565 Stonelake	0	0	0	0	16	7.17	0.83	160.0	0.16	334.0		
1-Oct-13	3427 Tye	0	0	0	0	15	7.18	0.75	140.5	0.14	294.0		
1-Oct-13	1270 Sea Dog	0	0	0	0	15	7.14	1.16	138.6	0.14	290.0		
1-Oct-13	2315 Ida Lane	0	0	0	0	17	6.69	0.20	193.4	0.19	402.0		
1-Oct-13	3500 Fairwinds	0	0	0	0	14	7.06	0.96	212.9	0.21	442.0		
1-Oct-13	1996 Highland	0	0	0	0	16	7.20	0.68	206.4	0.21	428.0		
1-Oct-13	2329 Chain Way	0	0	0	0	14	7.15	0.30	192.0	0.19	399.0		
8-Oct-13	1566 Arbutus	0	0	0	0	14	6.83	0.35	198.8	0.20	415.0	0.04	0.001
8-Oct-13	2359 Higginson	0	0	0	0	15	6.79	0.50	218.9	0.22	452.0	0.07	0.006
8-Oct-13	2454 Armstrong	0	0	0	0	15	7.08	0.62	228.0	0.23	473.0	0.10	0.008
8-Oct-13	Lot 54 Evanshire	0	0	0	0	14	7.19	1.02	224.0	0.22	463.0	0.09	0.014
8-Oct-13	3383 Redden	0	0	0	0	15	7.20	0.63	223.0	0.22	462.0	0.10	0.012
8-Oct-13	2940 Fairwinds	0	0	0	0	12	6.95	0.28	211.3	0.21	438.0	0.06	0.012
16-Oct-13	1358 Madrona	0	0	0	0	14	7.04	0.42	219.0	0.22	458.0		
16-Oct-13	1639 Marina	0	0	0	0	11	7.08	1.60	229.0	0.23	474.0		
16-Oct-13	NB Elementary			0	0	10	7.13	1.78	228.0	0.23	472.0		
16-Oct-13	3730 Fairwinds	0	0	0	0	14	7.19	0.87	226.0	0.23	468.0		
16-Oct-13	3541 Shelby	0	0	0	0	12	7.25	1.22	228.0	0.23	472.0		
16-Oct-13	2339 Garry Oak	0	0	0	0	11	7.27	1.71	229.0	0.23	475.0		
22-Oct-13	1565 Stonelake			0	0	13	6.82	1.09	205.0	0.20	427.0		
22-Oct-13	1961 Harlequin	0	0	0	0	12	6.90	0.77	220.0	0.22	456.0		
22-Oct-13	2315 Ida Lane			0	0	14	7.00	0.29	231.0	0.23	478.0		
22-Oct-13	3465 Cambridge	0	0	0	0	11	7.12	1.19	226.0	0.23	468.0		
22-Oct-13	2329 Chain Way			0	0	10	7.20	0.30	215.4	0.22	447.0		
29-Oct-13	1358 Madrona			0	0	14	7.25	0.68	206.0	0.21	428.0		
29-Oct-13	2359 Higginson			0	0	14	7.12	0.88	222.0	0.22	460.0		
29-Oct-13	2454 Armstrong			0	0	14	7.04	0.22	216.0	0.22	460.0		
29-Oct-13	3383 Redden			0	0	14	7.35	0.69	220.0	0.22	458.0		
29-Oct-13	2339 Garry Oak			0	0	12	6.88	1.64	220.0	0.22	456.0		
	Average	0	0	0	0	13.5	7.1	0.81	209.9	0.2	436.2	0.08	0.009
	Maximum	0	0	0	0	17	7.35	1.78	231	0.23	478	0.10	0.014
	Minimum	0	0	0	0	10	6.69	0.2	138.6	0.14	290	0.04	0.001

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Comments:

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		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)
4-Sep-13	1358 Madrona	0	0	0	0	17	7.14	0.48	122.6	0.12	257.0	0.02	0.029
4-Sep-13	3427 Tyee	0	0	0	0	18	7.29	0.41	69.0	0.07	145.6	0.06	0.031
4-Sep-13	1270 Sea Dog	0	0	0	0	17	7.29	0.82	68.8	0.07	145.1	0.04	0.016
4-Sep-13	2454 Armstrong	0	0	0	0	18	7.24	0.08	108.0	0.11	226.0	0.05	0.011
4-Sep-13	3500 Fairwinds	0	0	0	0	14	7.24	0.40	116.8	0.12	245.0	0.05	0.038
4-Sep-13	1996 Highland	0	0	0	0	14	7.24	0.45	153.7	0.15	321.0	0.08	0.040
4-Sep-13	2339 Garry Oak	0	0	0	0	14	7.20	0.68	135.9	0.13	284.0	0.07	0.020
10-Sep-13	1565 Stonelake	0	0	0	0	16	6.80	0.54	100.7	0.10	211.4		
10-Sep-13	2359 Higginson	0	0	0	0	17	6.84	0.11	70.0	0.07	147.7		
10-Sep-13	2315 Ida Lane	0	0	0	0	17	6.86	0.11	145.0	0.14	303.0		
10-Sep-13	Lot 54 Evanshire	0	0	0	0	14	6.96	0.98	188.8	0.19	392.0		
10-Sep-13	3383 Redden	0	0	0	0	18	7.05	0.77	184.4	0.18	383.0		
10-Sep-13	2329 Chain Way	0	0	0	0	12	7.07	1.58	217.0	0.22	449.0		
17-Sep-13	1566 Arbutus	0	0	0	0	16	6.93	0.90	164.4	0.16	342.0		
17-Sep-13	1639 Marina	0	0	0	0	16	7.00	1.34	142.2	0.14	297.0		
17-Sep-13	NB Elementary			0	0	12	7.12	1.56	222.0	0.22	459.0		
17-Sep-13	3730 Fairwinds	0	0	0	0	18	7.37	0.68	183.0	0.18	380.0		
17-Sep-13	3541 Shelby	0	0	0	0	16	7.40	0.91	182.9	0.18	380.0		
17-Sep-13	2940 Fairwinds	0	0	0	0	16	7.42	0.67	145.0	0.14	303.0		
24-Sep-13	1358 Madrona			0	0	16	7.02	0.49	121.8	0.12	255.0		
24-Sep-13	1961 Harlequin	0	0	0	0	16	7.04	0.59	88.0	0.09	185.4		
24-Sep-13	2454 Armstrong			0	0	16	7.00	0.11	151.9	0.15	317.0		
24-Sep-13	3465 Cambridge	0	0	0	0	14	7.02	0.65	163.5	0.16	341.0		
24-Sep-13	2339 Garry Oak			0	0	25	7.10	0.67	162.6	0.16	339.0		
	Average	0	0	0	0	16.1	7.1	0.67	142.0	0.1	296.2	0.05	0.026
	Maximum	0	0	0	0	25	7.42	1.58	222	0.22	459	0.08	0.040
	Minimum	0	0	0	0	12	6.8	0.08	68.8	0.07	145.1	0.02	0.011

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

Yellow Column Coliform tests are completed by Health Department

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Comments:

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7-Aug-13	1566 Arbutus	0	0	0	0	18	6.74	0.48	72.4	0.07	152.8	0.04	0.018
7-Aug-13	3427 tyee cr	0	0	0	0	20	6.71	0.97	62.2	0.06	131.4	0.08	0.013
7-Aug-13	1270 Seadog	0	0	0	0	18	6.71	1.16	62.6	0.06	132.9	0.04	0.025
7-Aug-13	2315 Ida Lane	0	0	0	0	19	6.79	0.56	183.6	0.18	381.0	0.12	0.023
7-Aug-13	3500 Fairwinds	0	0	0	0	15	6.96	1.12	183.9	0.18	382.0	0.07	0.042
7-Aug-13	1996 Highland	0	0	0	0	20	7.04	1.04	197.2	0.20	409.0	0.49	0.147
7-Aug-13	2940 Fairwinds	0	0	0	0	14	7.10	1.32	222.0	0.22	460.0	0.09	0.008
13-Aug-13	1358 Madrona	0	0	0	0	17	7.12	0.75	79.9	0.08	168.2		
13-Aug-13	2359 Higginson	0	0	0	0	17	7.19	0.23	56.7	0.06	120.0		
13-Aug-13	2454 Armstrong	0	0	0	0	17	7.08	0.28	116.6	0.12	244.0		
13-Aug-13	lot 54 Evanshire	0	0	0	0	16	7.15	0.98	185.6	0.18	386.0		
13-Aug-13	3383 Redden Rd	0	0	0	0	17	7.20	0.80	182.6	0.18	380.0		
13-Aug-13	2339 Garry Oak Dr	0	0	0	0	15	7.23	0.97	146.5	0.15	306.0		
21-Aug-13	1565 Stonelake Dr	0	0	0	0	17	6.97	1.15	104.7	0.10	219.8		
21-Aug-13	1639 Marina Way	0	0	0	0	17	6.60	1.30	60.3	0.06	127.5		
21-Aug-13	NB Elementary			0	0	11	7.25	1.67	220.0	0.22	455.0		
21-Aug-13	3730 Fairwinds	0	0	0	0	14	7.44	1.20	178.6	0.18	372.0		
21-Aug-13	3541 Shelby	0	0	0	0	14	7.48	1.16	178.0	0.18	370.0		
21-Aug-13	2329 chain way	0	0	0	0	15	7.07	0.80	179.6	0.18	374.0		
28-Aug-13	1566 Arbutus			0	0	17	6.95	0.64	22.2	0.02	50.1		
28-Aug-13	1961 Harlequin	0	0	0	0	17	7.10	0.58	63.5	0.06	134.2		
28-Aug-13	2315 Ida Lane			0	0	11	6.69	0.07	130.1	0.13	272.0		
28-Aug-13	3465 Cambridge	0	0	0	0	14	7.03	0.89	179.6	0.18	373.0		
28-Aug-13	2940 Fairwinds			0	0	14	7.05	1.78	199.1	0.20	413.0		
	Average	0	0	0	0	7.0	7.0	0.91	136.1	0.1	283.9	0.13	0.039428571
	Maximum	0	0	0	0	20	7.48	1.78	222	0.22	460	0.49	0.147
	Minimum	0	0	0	0	11	6.6	0.07	22.2	0.02	50.1	0.04	0.008

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3-Jul-13	1565 Stonelake	0	0	0	0	14	7.01	2.17	122.8	0.12	258.0	0.03	0.000
3-Jul-13	3427 Tyee	0	0	0	0	16	7.11	0.01	58.6	0.06	124.1	0.05	0.011
3-Jul-13	1270 Sea Dog	0	0	0	0	16	7.08	0.35	54.9	0.05	116.2	0.08	0.048
3-Jul-13	2315 Ida Lane	0	0	0	0	15	7.07	0.55	180.6	0.18	375.0	0.06	0.007
3-Jul-13	3500 Fairwinds	0	0	0	0	12	7.12	1.03	198.2	0.20	412.0	0.08	0.005
3-Jul-13	1996 Highland	0	0	0	0	16	7.34	0.75	201.0	0.20	417.0	0.10	0.019
3-Jul-13	2329 Chain Way	0	0	0	0	12	7.34	1.68	223.0	0.22	462.0	0.12	0.032
9-Jul-13	1566 Arbutus	0	0	0	0	16	7.24	0.36	68.7	0.07	145.3		
9-Jul-13	2359 Higginson	0	0	0	0	14	7.22	0.02	55.5	0.05	117.2		
9-Jul-13	2454 Armstrong	0	0	0	0	15	7.19	0.58	196.7	0.20	408.0		
9-Jul-13	Lot 54 Evanshire	0	0	0	0	13	7.57	0.92	201.0	0.20	417.0		
9-Jul-13	3383 Redden	0	0	0	0	17	7.55	0.82	195.1	0.19	405.0		
9-Jul-13	2940 Fairwinds	0	0	0	0	14	7.57	0.99	152.1	0.15	317.0		
16-Jul-13	1358 Madrona	0	0	0	0	16	7.27	0.14	69.7	0.07	147.1		
16-Jul-13	1639 Marina Way	0	0	0	0	17	7.32	0.81	59.7	0.06	126.4		
16-Jul-13	NB Elementary			0	0	10	7.35	1.65	216.5	0.22	449.0		
16-Jul-13	3730 Fairwinds	0	0	0	0	18	7.41	0.74	194.8	0.19	405.0		
16-Jul-13	3541 Shelby	0	0	0	0	18	7.38	0.90	198.0	0.20	411.0		
16-Jul-13	2339 Garry Oak	0	0	0	0	13	7.40	1.26	190.1	0.19	394.0		
23-Jul-13	1565 Stonelake			0	0	16	7.28	0.14	80.8	0.08	170.1		
23-Jul-13	1961 Harlequin	0	0	0	0	18	7.28	0.34	61.8	0.06	130.6		
23-Jul-13	2454 Armstrong			0	0	15	7.37	0.97	196.8	0.20	409.0		
23-Jul-13	3465 Cambridge	0	0	0	0	15	7.43	1.21	194.0	0.19	402.0		
23-Jul-13	2329 Chain Way			0	0	15	7.40	0.59	188.0	0.19	391.0		
	Average	0	0	0	0	15.0	7.3	0.79	148.3	0.1	308.7	0.07	0.017
	Maximum	0	0	0	0	18	7.57	2.17	223	0.22	462	0.12	0.048
	Minimum	0	0	0	0	10	7.01	0.01	54.9	0.05	116.2	0.03	0

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2013 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)
4-Jun-13	1358 Madrona	0	0	0	0	12	7.01	0.13	97.7	0.10	205.7	0.02	0.000
4-Jun-13	3427 Tyee	0	0	0	0	13	7.01	0.03	68.2	0.07	143.9	0.04	0.004
4-Jun-13	1270 Sea Dog	0	0	0	0	13	7.00	0.05	64.3	0.06	136.0	0.04	0.017
4-Jun-13	2454 Armstrong	0	0	0	0	12	7.06	0.15	172.1	0.17	358.0	0.12	0.026
4-Jun-13	3500 Fairwinds	0	0	0	0	12	7.27	0.90	204.3	0.20	426.0	0.08	0.014
4-Jun-13	1996 Highland	0	0	0	0	15	7.48	0.87	212.0	0.21	439.0	0.36	0.202
4-Jun-13	2339 Garry Oak	0	0	0	0	11	7.46	0.85	204.2	0.20	424.0	0.11	0.042
11-Jun-13	1565 Stonelake	0	0	0	0	14	7.47	2.09	150.4	0.15	314.0		
11-Jun-13	2359 Higginson	0	0	0	0	14	7.23	0.18	53.9	0.05	114.1		
11-Jun-13	2315 Ida Lane	0	0	0	0	15	7.49	0.57	162.4	0.18	379.0		
11-Jun-13	Lot 54 Evanshire	0	0	0	0	15	7.26	1.05	197.1	0.20	409.0		
11-Jun-13	3383 Redden	0	0	0	0	15	7.03	0.89	164.9	0.18	384.0		
11-Jun-13	2329 Chain Way	0	0	0	0	14	7.31	0.60	197.9	0.20	411.0		
18-Jun-13	1566 Arbutus	0	0	0	0	15	7.69	0.52	76.8	0.06	162.0		
18-Jun-13	1639 Marina	0	0	0	0	15	7.67	0.61	60.1	0.06	127.0		
18-Jun-13	NB Elementary			0	0	14	7.57	1.50	217.0	0.22	450.0		
18-Jun-13	3730 Fairwinds	0	0	0	0	16	7.33	0.65	157.0	0.16	327.0		
18-Jun-13	3541 Shelby	0	0	0	0	16	7.15	0.74	164.0	0.16	343.0		
18-Jun-13	2940 Fairwinds	0	0	0	0	15	7.53	1.47	197.4	0.20	410.0		
25-Jun-13	1358 Madrona			0	0	14	8.03	0.34	105.1	0.10	221.0		
25-Jun-13	1961 Harlequin	0	0	0	0	15	7.99	0.11	63.3	0.06	133.8		
25-Jun-13	2454 Armstrong			0	0	14	7.69	0.15	142.5	0.14	298.0		
25-Jun-13	3465 Cambridge	A	A	0	0	13	7.71	0.92	186.5	0.19	388.0		
25-Jun-13	2339 Garry Oak			0	0	12	7.72	1.39	203.5	0.20	422.0		
Average		0	0	0	0	13.9	7.4	0.70	146.8	0.1	309.4	0.11	0.043571429
Maximum		0	0	0	0	16	8.03	2.09	217	0.22	450	0.36	0.202
Minimum		0	0	0	0	11	7	0.03	53.9	0.05	114.1	0.02	0

Red font indicates non-compliance with Canadian Drinking Water Guidelines

A-Transport time was too long to laboratory.

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2013 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)
7-May-13	1566 Arbutus	0	0			11	7.54	0.83	166.3	0.16	349.0	0.01	0.070
7-May-13	3427 Tyee	0	0			13	7.68	0.96	216.0	0.21	447.0	0.10	0.018
7-May-13	1270 Sea Dog	0	0			12	7.67	1.28	215.6	0.21	447.0	0.13	0.014
7-May-13	2315 Ida Lane	0	0			12	7.76	0.51	216.0	0.21	447.0	0.13	0.013
7-May-13	3500 Fairwinds	0	0			12	7.83	1.48	217.9	0.22	451.0	0.18	0.045
7-May-13	1996 Highland	0	0			13	7.79	1.02	216.0	0.21	448.0	0.30	0.069
7-May-13	2940 Fairwinds	0	0			14	7.75	1.01	216.8	0.22	450.0	0.13	0.026
15-May-13	1358 Madrona	0	0			12	7.85	1.00	163.2	0.16	341.0		
15-May-13	2359 Higginson	0	0			12	7.74	0.33	119.2	0.12	250.0		
15-May-13	2454 Armstrong	0	0			11	7.73	0.45	191.6	0.19	398.0		
15-May-13	Lot 54 Evanshire	0	0			12	7.73	1.11	212.9	0.21	441.0		
15-May-13	3383 Redden	0	0			15	7.74	0.93	212.0	0.21	440.0		
15-May-13	2339 Garry Oak	0	0			11	7.70	1.81	217.7	0.22	451.0		
21-May-13	1565 Stonelake	0	0			13	7.39	0.89	126.8	0.13	266.0		
21-May-13	1639 Marina	0	0			13	7.52	0.95	65.5	0.06	132.1		
21-May-13	NB Elementary					11	7.23	2.50	218.0	0.22	452.0		
21-May-13	3730 Fairwinds	0	0			15	7.49	1.07	217.1	0.22	450.0		
21-May-13	3541 Shelby	0	0			14	7.45	1.29	215.9	0.21	447.0		
21-May-13	2329 Chain Way	0	0			12	7.36	0.56	212.0	0.21	440.0		
28-May-13	1566 Arbutus			0	0	12	6.93	0.18	86.0	0.09	181.3		
28-May-13	1961 Harlequin	0	0	0	0	13	6.98	0.25	76.0	0.08	160.2		
28-May-13	2315 Ida Lane			0	0	12	7.13	0.98	203.4	0.20	422.0		
28-May-13	3465 Cambridge	0	0	0	0	12	7.33	1.41	210.0	0.21	436.0		
28-May-13	2940 Fairwinds			0	0	12	7.38	1.53	214.9	0.21	445.0		
	Average	0	0	0	0	12.5	7.5	1.01	184.5	0.2	383.0	0.14	0.036428571
	Maximum	0	0	0	0	15	7.85	2.5	218	0.22	452	0.3	0.07
	Minimum	0	0	0	0	11	6.93	0.18	65.5	0.06	132.1	0.01	0.013

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2013 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)
3-Apr-13	1358 Madrona	0	0	0	0	10	7.67	0.28	178.4	0.18	372.0	0.01	0.071
3-Apr-13	3427 Tyee	0	0	0	0	10	7.73	0.42	214.0	0.21	443.0	0.10	0.038
3-Apr-13	1270 Sea Dog	0	0	0	0	10	7.76	0.32	202.7	0.20	421.0	0.18	0.039
3-Apr-13	2454 Armstrong	0	0	0	0	9	7.61	0.05	204.0	0.20	421.0	0.24	0.088
3-Apr-13	3500 Fairwinds	0	0	0	0	11	7.72	1.29	215.7	0.21	447.0	0.14	0.040
3-Apr-13	1996 Highland	0	0	0	0	11	7.80	0.99	217.0	0.22	449.0	0.05	0.034
3-Apr-13	2329 Chain	0	0	0	0	10	7.84	0.65	217.5	0.22	451.0	0.09	0.036
10-Apr-13	1565 Stonelake	0	0	0	0	9	7.29	0.35	180.2	0.18	375.0		
10-Apr-13	2359 Higginson	0	0	0	0	9	7.36	1.29	217.0	0.22	448.0		
10-Apr-13	2315 Ida Lane	0	0	0	0	10	7.46	0.20	219.7	0.22	456.0		
10-Apr-13	Lot 54 Evanshire	0	0	0	0	10	7.57	1.24	218.0	0.22	451.0		
10-Apr-13	3383 Redden	0	0	0	0	11	7.63	1.12	216.3	0.22	448.0		
10-Apr-13	2339 Garry Oak	0	0	0	0	10	7.63	1.34	217.0	0.22	449.0		
17-Apr-13	1566 Arbutus	0	0	0	0	10	7.52	0.34	170.0	0.17	354.0		
17-Apr-13	1639 Marina	0	0	0	0	9	7.52	1.51	215.3	0.21	446.0		
17-Apr-13	NB Elementary			0	0	10	7.59	3.60	218.0	0.22	452.0		
17-Apr-13	3730 Fairwinds	0	0	0	0	11	7.64	1.02	216.9	0.22	450.0		
17-Apr-13	3541 Shelby	0	0	0	0	11	7.65	1.13	217.0	0.22	447.0		
17-Apr-13	2940 Fairwinds	0	0	0	0	11	7.62	0.53	216.7	0.22	449.0		
23-Apr-13	1358 Madrona			0	0	11	7.64	0.33	178.0	0.18	370.0		
23-Apr-13	1961 Harlequin	0	0	0	0	11	7.39	0.61	220.0	0.22	546.0		
23-Apr-13	2454 Armstrong			0	0	11	7.27	0.48	218.0	0.22	453.0		
23-Apr-13	3465 Cambridge	0	0	0	0	12	7.78	1.50	215.0	0.20	445.0		
23-Apr-13	2329 Chain Way			0	0	11	7.44	0.89	218.0	0.22	451.0		
	Average	0	0	0	0	10.3	7.6	0.90	209.2	0.2	437.3	0.12	0.049
	Maximum	0	0	0	0	12	7.84	3.6	220	0.22	546	0.24	0.088
	Minimum	0	0	0	0	9	7.27	0.05	170	0.17	354	0.01	0.034

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2013 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)
5-Mar-13	1566 Arbutus	0	0	0	0	8	7.31	0.84	173.7	0.17	361.0	0.01	0.070
5-Mar-13	3427 Tyee	0	0	0	0	6	7.39	0.03	208.2	0.21	432.0	0.05	0.003
5-Mar-13	1270 Sea Dog	0	0	0	0	8	7.48	1.35	219.0	0.22	453.0	0.22	0.027
5-Mar-13	2315 Ida Lane	0	0	0	0	8	7.51	0.03	211.3	0.21	438.0	0.13	0.042
5-Mar-13	3500 Fairwinds	0	0	0	0	8	7.67	0.67	218.0	0.22	452.0	0.08	0.010
5-Mar-13	1996 Highland	0	0	0	0	8	7.74	0.36	220.0	0.22	457.0	0.04	0.000
5-Mar-13	2940 Fairwinds	0	0	0	0	8	7.78	1.52	219.0	0.22	453.0	0.07	0.000
12-Mar-13	1358 Madrona	0	0	0	0	8	7.52	0.64	179.4	0.18	373.0		
12-Mar-13	2359 Higginson	0	0	0	0	7	7.60	0.38	168.5	0.17	351.0		
12-Mar-13	2454 Armstrong	0	0	0	0	7	7.88	0.04	213.0	0.21	441.0		
12-Mar-13	Lot 54 Evanshire	0	0	0	0	7	7.88	1.28	221.0	0.22	458.0		
12-Mar-13	3383 Redden	0	0	0	0	7	7.90	1.38	223.0	0.22	462.0		
12-Mar-13	2329 Chain Way	0	0	0	0	7	7.92	1.24	222.0	0.22	460.0		
20-Mar-13	1565 Stonelake	0	0	0	0	9	7.26	0.81	180.7	0.18	375.0		
20-Mar-13	1639 Marina	0	0	0	0	8	7.55	0.81	216.3	0.21	448.0		
20-Mar-13	2315 Ida Lane			0	0	8	7.64	0.18	215.0	0.21	446.0		
20-Mar-13	3730 Fairwinds	0	0	0	0	8	7.94	0.98	222.0	0.22	460.0		
20-Mar-13	3541 Shelby	0	0	0	0	8	7.97	1.22	222.0	0.22	458.0		
20-Mar-13	2339 Garry Oak	0	0	0	0	8	8.12	1.24	223.0	0.22	463.0		
26-Mar-13	1566 Arbutus			0	0	10	7.50	0.73	173.1	0.17	360.0		
26-Mar-13	1961 Harlequin	0	0	0	0	9	7.53	0.34	201.0	0.20	416.0		
26-Mar-13	NB Elementary			0	0	11	7.89	1.59	216.0	0.22	447.0		
26-Mar-13	3465 Cambridge	0	0	0	0	10	7.92	1.09	216.0	0.21	447.0		
26-Mar-13	2940 Fairwinds			0	0	9	7.82	1.16	215.0	0.21	446.0		
	Average	0	0	0	0	8.1	7.7	0.83	208.2	0.2	431.5	0.09	0.022
	Maximum	0	0	0	0	11	8.12	1.59	223	0.22	463	0.22	0.070
	Minimum	0	0	0	0	6	7.26	0.03	168.5	0.17	351	0.01	0.000

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2013 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)
5-Feb-13	1566 Arbutus	0	0	0	0	8	7.25	1.06	177.6	0.18	370.0	0.00	0.225
5-Feb-13	1270 Sea Dog	0	0	0	0	7	7.48	0.81	211.0	0.21	435.0	0.10	0.053
5-Feb-13	3427 Tyee Cr	0	0	0	0	7	7.53	0.03	198.3	0.20	412.0	0.08	0.046
5-Feb-13	2454 Armstrong	0	0	0	0	7	7.64	0.02	215.0	0.21	441.0	0.10	0.084
5-Feb-13	3500 Fairwinds	0	0	0	0	8	7.72	1.36	219.8	0.22	456.0	0.06	0.035
5-Feb-13	1996 Highland	0	0	0	0	8	8.05	1.00	230.0	0.23	476.0	0.05	0.022
5-Feb-13	2339 Garry Oak	0	0	0	0	8	8.03	0.81	214.7	0.21	445.0	0.09	0.031
13-Feb-13	1358 Madrona	0	0	0	0	8	7.12	0.68	175.0	0.17	364.0		
13-Feb-13	2359 Higginson	0	0	0	0	7	7.18	0.53	164.9	0.16	344.0		
13-Feb-13	2315 Ida Lane	0	0	0	0	8	7.41	0.03	209.0	0.21	433.0		
13-Feb-13	Lot 54 Evanshire	0	0	0	0	8	7.54	0.84	216.9	0.22	448.0		
13-Feb-13	3383 Redden	0	0	0	0	7	7.58	0.64	218.0	0.22	452.0		
13-Feb-13	2940 Fairwinds	0	0	0	0	11	7.61	0.98	216.2	0.22	449.0		
20-Feb-13	1565 Stonelake	0	0	0	0	8	7.67	1.56	180.6	0.18	376.0		
20-Feb-13	1639 Marina	0	0	0	0	6	7.79	0.80	209.3	0.21	434.0		
20-Feb-13	2454 Armstrong			0	0	8	7.83	1.19	216.0	0.22	447.0		
20-Feb-13	3730 Fairwinds	0	0	0	0	7	7.92	0.57	220.0	0.22	456.0		
20-Feb-13	3541 Shelby	0	0	0	0	6	8.01	0.73	220.0	0.22	454.0		
20-Feb-13	2329 Chain	0	0	0	0	6	8.00	0.36	220.0	0.22	457.0		
26-Feb-13	1358 Madrona			0	0	8	7.53	0.95	181.2	0.18	377.0		
26-Feb-13	1961 Harlequin	0	0	0	0	6	7.62	0.48	208.9	0.21	433.0		
26-Feb-13	2454 Armstrong			0	0	7	7.74	0.03	213.0	0.21	442.0		
26-Feb-13	3465 Cambridge	0	0	0	0	7	7.91	1.35	223.0	0.22	463.0		
26-Feb-13	2339 Garry Oak			0	0	8	7.90	1.29	219.0	0.22	455.0		
	Average	0	0	0	0	7.5	7.7	0.75	207.4	0.2	430.0	0.07	0.071
	Maximum	0	0	0	0	11	8.05	1.56	230	0.23	476	0.1	0.225
	Minimum	0	0	0	0	6	7.12	0.02	164.9	0.16	344	0	0.022

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2013 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)
9-Jan-13	1566 Arbutus	0	0	0	0	8	7.02	0.62	185.2	0.18	384.0		
9-Jan-12	1270 Sea Dog	0	0	0	0	7	7.79	1.02	212.8	0.21	441.0		
9-Jan-13	2315 Ida Lane	0	0	0	0	9	7.91	0.09	216.0	0.22	449.0		
9-Jan-13	3383 Redden			0	0	7	8.05	1.46	227.0	0.23	469.0		
9-Jan-13	2329 Chain Way	0	0	0	0	7	8.16	0.40	224.0	0.22	464.0		
15-Jan-13	1358 Madrona	0	0	0	0	7	7.18	0.63	183.0	0.18	381.0	0.00	0.073
15-Jan-13	3427 Tyee	0	0	0	0	6	7.30	0.06	209.0	0.21	426.0	0.09	0.072
15-Jan-13	2359 Higginson	0	0	0	0	7	7.62	0.05	182.0	0.18	378.0	0.03	0.054
15-Jan-13	2454 Armstrong	0	0	0	0	7	7.81	0.03	223.0	0.22	461.0	0.13	0.074
15-Jan-13	3500 Fairwinds	0	0	0	0	7	7.95	1.29	226.0	0.23	469.0	0.09	0.033
15-Jan-13	Lot 54 Evanshire	0	0	0	0	7	8.01	1.32	227.0	0.23	470.0	0.28	0.085
15-Jan-13	2339 Garry Oak	0	0	0	0	8	8.00	0.15	226.0	0.22	468.0	0.14	0.049
23-Jan-13	1565 Stonelake	0	0	0	0	9	7.52	0.88	180.8	0.18	375.0		
23-Jan-13	1639 Marina	0	0	0	0	7	8.11	0.43	214.3	0.21	444.0		
23-Jan-13	NB Elementary			0	0	9	8.16	0.05	214.0	0.21	443.0		
23-Jan-13	3465 Cambridge	0	0	0	0	7	8.18	0.81	224.0	0.22	464.0		
23-Jan-13	1996 Highland	0	0	0	0	7	8.27	0.46	228.0	0.23	471.0		
23-Jan-13	2940 Fairwinds	0	0	0	0	9	8.25	0.06	216.5	0.22	449.0		
29-Jan-13	1566 Arbutus			0	0	8	7.81	1.05	179.9	0.18	374.0		
29-Jan-13	1961 Harlequin	0	0	0	0	6	7.93	0.06	210.0	0.21	435.0		
29-Jan-13	2315 Ida Lane			0	0	8	8.04	0.04	215.4	0.22	447.0		
29-Jan-13	3730 Fairwinds	0	0	0	0	7	8.14	0.19	221.0	0.22	455.0		
29-Jan-13	3541 Shelby	0	0	0	0	7	8.16	0.75	221.0	0.22	459.0		
29-Jan-13	2329 Chain Way			0	0	7	8.21	0.14	223.0	0.22	462.0		
	Average	0	0	0	0	7.4	7.9	0.50	212.0	0.2	439.1	0.11	0.063
	Maximum	0	0	0	0	9	8.27	1.46	228	0.23	471	0.28	0.085
	Minimum	0	0	0	0	6	7.02	0.03	179.9	0.18	374	0	0.033

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.