



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2017 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)
8-Nov-17	1566 Arbutus	0	0	0	0	12	7.21	0.85	219.0	0.22	453.0	0.02	0.009
8-Nov-17	3427 Tyee	0	0	0	0	10	7.39	0.50	216.3	0.21	449.0	0.06	0.015
8-Nov-17	1270 Sea Dog	0	0	0	0	10	7.37	0.37	207.0	0.21	430.0	0.04	0.000
8-Nov-17	2454 Armstrong	0	0	0	0	12	7.40	0.64	218.5	0.22	452.0	0.11	0.025
8-Nov-17	3500 Fairwinds	0	0	0	0	10	7.46	0.97	214.0	0.21	444.0	0.06	0.028
8-Nov-17	1996 Highland	0	0	0	0	13	7.46	0.65	217.8	0.22	451.0	0.04	0.000
8-Nov-17	2339 Garry Oak	0	0	0	0	11	7.42	1.55	217.0	0.22	449.0	0.05	0.000
15-Nov-17	1358 Madrona		A ⁺	0	0	11	7.48	0.46	218.3	0.22	452.0		
15-Nov-17	2359 Higginson		A ⁺	0	0	10	7.37	1.08	214.0	0.21	444.0		
15-Nov-17	2315 Ida Lane		A ⁺	0	0	13	7.51	0.78	218.4	0.22	453.0		
15-Nov-17	Lot 54 Evanshire		A ⁺	0	0	11	7.47	1.01	214.0	0.21	443.0		
15-Nov-17	3383 Redden		A ⁺	0	0	11	7.48	0.64	214.2	0.21	445.0		
15-Nov-17	Florence & Anchor		A ⁺	0	0	10	7.47	0.22	194.9	0.19	403.0		
22-Nov-17	1565 Stonelake	0	0	0	0	12	7.53	0.71	219.3	0.22	454.0		
22-Nov-17	Lot 51 Swallow	0	0	0	0	9	7.47	0.01	214.0	0.21	440.0		
22-Nov-17	NB Elementary			0	0	11	7.43	1.21	220.0	0.22	456.0		
22-Nov-17	3730 Fairwinds	0	0	0	0	11	7.51	0.89	218.0	0.22	450.0		
22-Nov-17	3541 Shelby	0	0	0	0	10	7.53	0.96	217.4	0.22	450.0		
22-Nov-17	2329 Chain	0	0	0	0	9	7.44	0.26	201.0	0.20	416.0		
29-Nov-17	1566 Arbutus			0	0	11	7.26	0.57	215.2	0.21	446.0		
29-Nov-17	1639 Marina	0	0	0	0	10	7.37	0.53	215.0	0.21	445.0		
29-Nov-17	2454 Armstrong			0	0	11	7.41	0.83	222.0	0.22	460.0		
29-Nov-17	3465 Cambridge	0	0	0	0	10	7.55	0.92	221.0	0.22	455.0		
29-Nov-17	2339 Garry Oak			0	0	11	7.47	1.46	222.0	0.22	461.0		
Average		0	0	0	0	10.8	7.4	0.75	215.3	0.21	445.9	0.05	0.011
Maximum		0	0	0	0	13	7.55	1.55	222.0	0.22	461.0	0.11	0.028
Minimum		0	0	0	0	9	7.21	0.01	194.9	0.19	403.0	0.02	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.

A⁺: Sample not tested; too long in transit



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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-Oct-17	1358 Madrona	0	0	0	0	15	6.98	0.26	85.2	0.08	179.2	0.03	0.079
4-Oct-17	3427 Tyee	0	0	0	0	15	7.19	0.31	126.9	0.13	265.0	0.07	0.058
4-Oct-17	1270 Sea Dog	0	0	0	0	16	7.16	0.62	68.8	0.07	145.2	0.05	0.063
4-Oct-17	2454 Armstrong	0	0	0	0	15	7.09	0.42	116.0	0.12	245.0	0.04	0.024
4-Oct-17	3500 Fairwinds Dr	0	0	0	0	14.5	7.28	0.75	127.9	0.13	267.0	0.04	0.039
4-Oct-17	1996 Highland	0	0	0	0	16.5	7.37	0.42	126.1	0.13	264.0	0.01	0.067
4-Oct-17	Florence&Anchor	0	0	0	0	14.5	7.37	0.46	149.2	0.15	311.0	0.03	0.081
10-Oct-17	1565 Stonelake	0	0	0	0	15	7.12	0.73	107.2	0.11	225.0		
10-Oct-17	2359 Higginson	0	0	0	0	15	7.14	0.42	69.5	0.07	146.8		
10-Oct-17	2315 Ida Lane	0	0	0	0	15	7.47	0.26	108.5	0.11	227.0		
10-Oct-17	Lot 54, Evanshire	0	0	0	0	14.5	7.42	0.38	128.6	0.13	269.0		
10-Oct-17	3383 Redden	0	0	0	0		7.33	0.55	118.8	0.12	249.0		
10-Oct-17	2329 Chain Way	0	0	0	0	14.5	7.25	0.19	130.0	0.13	272.0		
18-Oct-17	1566 Arbutus	0	0	0	0	14.5	7.26	0.23	81.9	0.08	173.9		
18-Oct-17	Lot 51 Swallow	0	0	0	0	14	7.40	0.08	148.4	0.15	310.0		
18-Oct-17	NB Elementary			0	0	12.5	7.42	1.94	215.0	0.21	447.0		
18-Oct-17	3730 Fairwinds	0	0	0	0	14	7.53	0.70	132.4	0.13	277.0		
18-Oct-17	3541 Shelby	0	0	0	0	14.5	7.54	0.62	129.6	0.13	272.0		
18-Oct-17	2339 Garry Oak	0	0	0	0	13	7.43	0.63	120.8	0.12	252.0		
24-Oct-17	1358 Madrona			0	0	15	7.49	0.37	171.5	0.17	357.0		
24-Oct-17	1639 Marina	0	0	0	0	13	7.33	0.93	140.0	0.14	292.0		
24-Oct-17	2454 Armstrong			0	0	14	7.34	0.45	162.8	0.16	339.0		
24-Oct-17	3465 Cambridge	0	0	0	0	13	7.43	0.93	170.7	0.17	355.0		
24-Oct-17	Florence&Anchor			0	0	13	7.43	0.32	161.7	0.16	336.0		
Average		0	0	0	0	14.4	7.3	0.54	129.1	0.13	269.8	0.04	0.059
Maximum		0	0	0	0	16.5	7.54	1.94	215	0.21	447	0.07	0.081
Minimum		0	0	0	0	12.5	6.98	0.08	68.8	0.07	145.2	0.01	0.024

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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-Sep-17	1566 Arbutus	0	0	0	0	18	7.41	0.49	71.9	0.07	151.8	0.02	0.023
6-Sep-17	3427 Tyee	0	0	0	0	18	7.39	0.40	156.1	0.15	325.0	0.09	0.039
6-Sep-17	1270 Sea Dog	0	0	0	0	19	7.26	0.46	67.0	0.07	141.5	0.07	0.017
6-Sep-17	2315 Ida Lane	0	0	0	0	19	7.30	0.18	109.9	0.11	231.0	0.05	0.014
6-Sep-17	3500 Fairwinds	0	0	0	0	18	7.40	0.87	169.9	0.17	353.0	0.05	0.021
6-Sep-17	1996 Highland	0	0	0	0	20	7.50	0.58	129.5	0.13	271.0	0.06	0.011
6-Sep-17	2339 Garry Oak	0	0	0	0	15	7.33	1.31	192.4	0.19	400.0	0.06	0.025
13-Sep-17	1358 Madrona	0	0	0	0	17	7.10	0.52	84.2	0.08	177.3		
13-Sep-17	2359 Higginson	0	0	0	0	18	7.12	0.19	64.4	0.06	136.2		
13-Sep-17	2454 Armstrong	0	0	0	0	18	7.36	0.24	114.3	0.11	240.0		
13-Sep-17	Lot 54 Evanshire	0	0	0	0	15	7.50	0.76	164.6	0.16	343.0		
13-Sep-17	3383 Redden	0	0	0	0	17	7.61	0.77	168.1	0.17	350.0		
13-Sep-17	Florence & Anchor	0	0	0	0	17	7.46	0.48	138.5	0.14	290.0		
19-Sep-27	1565 Stonelake	0	0	0	0	15.5	7.40	0.54	97.5	0.10	204.5		
19-Sep-27	Lot 51 Swallow	0	0	0	0	15	7.32	0.09	166.1	0.17	346.0		
19-Sep-27	NB Elementary			0	0	13.5	7.42	1.30	211.0	0.21	438.0		
19-Sep-27	3730 Fairwinds	0	0	0	0	10.5	7.54	0.91	174.6	0.17	300.0		
19-Sep-27	3541 Shelby	0	0	0	0	13.5	7.61	1.02	175.0	0.17	363.0		
19-Sep-27	2329 Chain way	0	0	0	0	12.5	7.57	1.30	211.0	0.21	438.0		
27-Sep-17	1566 Arbutus			0	0	17	7.07	0.47	79.5	0.08	167.6		
27-Sep-17	1639 Marina	0	0	0	0	17	7.06	0.42	71.7	0.07	151.3		
27-Sep-17	2315 Ida Lane			0	0	17	7.11	0.06	103.7	0.10	217.9		
27-Sep-17	3465 Cambridge	0	0	0	0	17	6.99	0.64	140.3	0.14	293.0		
27-Sep-17	2339 Garry Oak			0	0	15	7.22	1.01	157.6	0.16	328.0		
	Average	0	0	0	0	16.4	7.3	0.63	134.1	0.13	277.4	0.06	0.021
	Maximum	0	0	0	0	20	7.61	1.31	211	0.21	438.0	0.09	0.039
	Minimum	0	0	0	0	10.5	6.99	0.06	64.4	0.06	136.2	0.02	0.011

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2-Aug-17	1358 Madrona	0	0	0	0	17.5	6.87	0.49	80.8	0.08	167.4	0.13	0.064
2-Aug-17	3427 Tyee	0	0	0	0	18	7.13	0.46	154.6	0.15	322.0	0.05	0.086
2-Aug-17	1270 Sea Dog	0	0	0	0	17	7.01	0.63	68.2	0.07	144.1	0.06	0.056
2-Aug-17	2315 Ida Lane	0	0	0	0	17	7.07	0.44	113.6	0.11	238.0	0.06	0.068
2-Aug-17	3500 Fairwinds	0	0	0	0	16.5	7.24		163.7	0.16	341.0	0.06	0.082
2-Aug-17	1996 Highland	0	0	0	0	17	7.26	0.73	155.0	0.15	323.0	0.05	0.021
2-Aug-17	Florence & Anchor	0	0	0	0	17.5	7.23	0.46	169.5	0.17	353.0	0.06	0.020
9-Aug-17	1565 Stonelake	0	0	0	0	17	7.24	0.49	128.9	0.13	270.0		
9-Aug-17	2359 Higginson	0	0	0	0	18	7.25	0.35	62.7	0.06	132.6		
9-Aug-17	2454 Armstrong	0	0	0	0	17	7.23	0.27	64.9	0.06	137.2		
9-Aug-17	lot 54 Evanshire	0	0	0	0	16	7.47	0.77	145.4	0.14	304.0		
9-Aug-17	3383 Redden	0	0	0	0	17	7.47	0.76	147.7	0.15	308.0		
9-Aug-17	2329 Chain	0	0	0	0	16	7.41	0.38	150.2	0.15	314.0		
15-Aug-17	1566 Arbutus	0	0	0	0	18	6.96	0.62	67.3	0.07	141.8		
15-Aug-17	Lot 51 Swallow	0	0	0	0	17	7.29	0.20	154.7	0.15	323.0		
15-Aug-17	NB Elementary			0	0	14	7.28	1.28	158.9	0.16	331.0		
15-Aug-17	3730 Fairwinds	0	0	0	0	15	7.50	0.77	150.8	0.15	315.0		
15-Aug-17	3541 Shelby	0	0	0	0	15	7.49	0.84	151.8	0.15	317.0		
15-Aug-17	2339 Garry Oak	0	0	0	0	13	7.47	1.04	140.2	0.14	293.0		
23-Aug-17	1358 Madrona			0	0	18	7.01	0.45	84.6	0.08	178.2		
23-Aug-17	1639 Marina	0	0	0	0	18	7.12	0.64	64.3	0.06	135.8		
23-Aug-17	2315 Ida Lane			0	0	19	7.26	0.25	77.5	0.08	163.6		
23-Aug-17	3465 Cambridge	0	0	0	0	17	7.50	0.76	141.5	0.14	296.0		
23-Aug-17	Florence & Anchor			0	0	18	7.43	0.28	148.1	0.15	311.0		
28-Aug-17	1565 Stonelake			0	0	18	7.05	0.36	98.6	0.10	207.3		
28-Aug-17	2359 Higginson			0	0	18	7.14	0.21	63.6	0.06	134.3		
28-Aug-17	2454 Armstrong			0	0	19	7.18	0.21	75.1	0.07	158.4		
28-Aug-17	3383 Redden			0	0	18	7.41	0.70	146.3	0.14	306.0		
28-Aug-17	2329 Chain			0	0	17	7.31	0.38	145.2	0.14	303.0		
	Average	0	0	0	0	17.0	7.3	0.54	119.8	0.12	250.6	0.07	0.057
	Maximum	0	0	0	0	19	7.50	1.28	169.5	0.17	353.0	0.13	0.086
	Minimum	0	0	0	0	13	6.87	0.20	62.7	0.06	132.6	0.05	0.020

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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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		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-Jul-17	1566 Arbutus	0	0	0	0	16	6.84	0.45	65.0	0.06	137.2	0.04	0.027
5-Jul-17	3427 Tyee	0	0	0	0	16	7.56	0.41	149.7	0.15	312.0	0.07	0.033
5-Jul-17	1270 Sea Dog	0	0	0	0	17	7.28	0.59	53.2	0.05	112.8	0.03	0.015
5-Jul-17	2454 Armstrong	0	0	0	0	14	7.20	0.41	57.8	0.06	122.4	0.05	0.040
5-Jul-17	3500 Fairwinds	0	0	0	0	14	7.41	0.78	146.1	0.14	304.0	0.04	0.012
5-Jul-17	1996 Highland	0	0	0	0	16	7.43	0.64	153.4	0.15	320.0	0.02	0.030
5-Jul-17	2339 Garry Oaks	0	0	0	0	13	7.42	1.42	220.0	0.22	456.0	0.07	0.022
12-Jul-17	1358 Madrona	0	0	0	0	15	6.88	0.49	69.6	0.07	147.5		
12-Jul-17	2359 Higginson	0	0	0	0	14	6.89	0.54	58.6	0.06	124.0		
12-Jul-17	2315 Ida Lane	0	0	0	0	16	7.14	0.43	64.2	0.06	135.8		
12-Jul-17	Lot 54 Evanshire	0	0	0	0	15	7.33	0.84	151.4	0.15	316.0		
12-Jul-17	3383 Redden	0	0	0	0	16	7.31	0.90	147.9	0.15	309.0		
12-Jul-17	Florence & Anchor	0	0	0	0	16	7.32	0.59	142.9	0.14	298.0		
19-Jul-17	1565 Stonelake	0	0	0	0	16	7.26	0.29	122.3	0.12	256.0		
19-Jul-17	Lot 51 Swallow	0	0	0	0	17	7.26	0.18	163.8	0.16	341.0		
19-Jul-17	NB Elementary			0	0	14	7.24	1.17	152.7	0.15	319.0		
19-Jul-17	3730 Fairwinds	0	0	0	0	16	7.35	0.83	161.0	0.16	336.0		
19-Jul-17	3541 Shelby	0	0	0	0	16	7.36	0.86	161.3	0.16	336.0		
19-Jul-17	2329 Chain	0	0	0	0	13	7.32	1.27	214.0	0.21	443.0		
26-Jul-17	1566 Arbutus			0	0	17	7.28	0.73	83.4	0.08	176.4		
26-Jul-17	1639 Marina	0	0	0	0	16	7.35	0.04	142.0	0.14	296.0		
26-Jul-17	2454 Armstrong			0	0	17	7.29	0.29	78.6	0.08	165.4		
26-Jul-17	3465 Cambridge	0	0	0	0	15	7.35	0.82	158.4	0.16	330.0		
26-Jul-17	2339 Garry Oaks			0	0	14	7.28	1.34	209.0	0.21	434.0		
Average		0	0	0	0	15.4	7.26	0.68	130.3	0.13	272.0	0.05	0.026
Maximum		0	0	0	0	17	7.56	1.42	220.0	0.22	456.0	0.07	0.040
Minimum		0	0	0	0	13	6.84	0.04	53.2	0.05	112.8	0.02	0.012

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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.

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 E.coli coliform bacteria at the same time as total coliforms to rule out the presence of harmful pathogens. If background bacteria (BG), total or E.coli bacteria are detected location is resampled. If the bacteria test is overgrown (OG) location is also resampled.



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5-Jun-17	1565 Stonelake	0	0			14	7.12	0.80	115.5	0.11	243.0	0.01	0.014
5-Jun-17	3427 Tyee	0	0			17	7.27	0.59	174.4	0.17	363.0	0.04	0.027
5-Jun-17	1270 Sea Dog	0	0			14	7.06	0.60	67.7	0.07	142.9	0.03	0.005
5-Jun-17	2315 Ida Lane	0	0			15	7.29	0.50	131.3	0.13	275.0	0.08	0.007
5-Jun-17	3500 Fairwinds	0	0			14	7.36	0.80	166.8	0.17	348.0	0.06	0.023
5-Jun-17	1996 Highland	0	0			15	7.35	0.79	186.8	0.19	388.0	0.07	0.002
5-Jun-17	2329 Chain	0	0			14	7.38	1.33	209.7	0.21	434.0	0.10	0.012
14-Jun-17	1566 Arbutus	0	0			12	6.78	0.82	54.1	0.05	114.5		
14-Jun-17	2359 Higginson	0	0			13	6.75	0.57	51.3	0.05	108.8		
14-Jun-17	2454 Armstrong	0	0			12	6.98	0.56	89.1	0.09	186.8		
14-Jun-17	Lot 54 Evanshire	0	0			12	7.25	0.93	167.2	0.17	348.0		
14-Jun-17	3383 Redden	0	0			13.5	7.32	0.88	158.8	0.16	331.0		
14-Jun-17	2339 Garry Oak	0	0			11	7.31	1.40	214.0	0.21	442.0		
21-Jun-17	1358 Madrona	0	0			13	6.78	0.70	54.9	0.05	116.2		
21-Jun-17	Lot 51 Swallow	0	0			14.5	7.18	0.24	154.9	0.15	323.0		
21-Jun-17	NB Elementary					12	7.23	1.15	152.2	0.15	318.0		
21-Jun-17	3730 Fairwinds	0	0			14	7.28	0.72	148.1	0.15	310.0		
21-Jun-17	3541 Shelby	0	0			14	7.37	0.87	146.4	0.15	306.0		
21-Jun-17	Florence & Anchor	0	0			14	7.29	0.58	149.7	0.15	312.0		
28-Jun-17	1565 Stonelake					15	7.26	0.38	157.7	0.16	329.0		
28-Jun-17	1639 Marina	0	0			15	6.93	0.02	140.9	0.14	294.0		
28-Jun-17	2315 Ida Lane					16	7.16	0.49	67.2	0.07	141.8		
28-Jun-17	3465 Cambridge	0	0			15	7.03	1.12	138.2	0.14	289.0		
28-Jun-17	2329 Chain					15	7.28	0.31	146.9	0.15	307.0		
	Average	0	0	#DIV/0!	#DIV/0!	13.9	7.2	0.71	135.2	0.14	282.1	0.06	0.013
	Maximum	0	0	0	0	17	7.38	1.40	214.0	0.21	442.0	0.10	0.027
	Minimum	0	0	0	0	11	6.75	0.02	51.3	0.05	108.8	0.01	0.002

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.

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 E.coli coliform bacteria at the same time as total coliforms to rule out the presence of harmful pathogens. If background bacteria (BG), total or E.coli bacteria are detected location is resampled. If the bacteria test is overgrown (OG) location is also resampled.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2017 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-May-17	1358 Madrona	0	0			10	7.65	0.85	178.2	0.18	370.0		
3-May-17	3427 Tyee	0	0			11	7.54	0.43	207.8	0.21	431.0		
3-May-17	2454 Armstrong	0	0			9	7.48	0.57	209.0	0.21	434.0		
3-May-17	Lot 54 Evanshire	0	0			10	7.56	0.77	205.6	0.21	427.0		
3-May-17	1996 Highland	0	0			11	7.55	0.50	205.0	0.20	425.0		
3-May-17	Florence & Anchor	0	0			10	7.58	0.48	205.2	0.20	427.0		
10-May-17	1566 Arbutus	0	0	0	0	11	7.81	1.10	168.9	0.17	352.0	0.01	0.086
10-May-17	Lot 51 Swallow	0	0	0	0	10	7.49	0.07	208.0	0.21	431.0	0.05	0.014
10-May-17	1270 Sea Dog	0	0	0	0	13	7.46	0.63	209.3	0.21	434.0	0.06	0.008
10-May-17	2315 Ida Lane	0	0	0	0	11	7.52	0.50	214.0	0.21	444.0	0.06	0.014
10-May-17	3500 Fairwinds	0	0	0	0	11	7.56	0.82	207.6	0.21	431.0	0.13	0.018
10-May-17	3383 Redden	0	0	0	0	12.5	7.49	0.74	207.0	0.21	428.0	0.04	0.000
10-May-17	2329 Chain	0	0	0	0	10	7.46	0.41	207.0	0.21	430.0	0.09	0.032
17-May-17	1565 Stonelake	0	0	0	0	11	7.71	0.73	188.7	0.19	392.0		
17-May-17	2359 Higgenson	0	0	0	0	12	7.75	0.52	184.0	0.18	382.0		
17-May-17	NB Elementry			0	0	11	7.43	1.50	212.8	0.21	441.0		
17-May-17	3730 Fairwinds	0	0	0	0	12	7.60	0.81	210.0	0.21	436.0		
17-May-17	3541 Shelby	0	0	0	0	12	7.60	0.86	211.0	0.21	435.0		
17-May-17	2339 Garry Oak	0	0	0	0	11	7.48	0.98	211.1	0.21	438.0		
24-May-17	1358 Madrona					10	7.55	0.65	108.1	0.11	227.0		
24-May-17	1639 Marina	0	0			11.5	6.99	0.66	70.6	0.07	149.0		
24-May-17	2454 Armstrong					11	7.26	0.26	86.3	0.09	181.9		
24-May-17	3465 Cambridge	0	0			12.5	7.47	0.93	154.6	0.15	322.0		
24-May-17	Florence & Anchor					12	7.42	0.57	180.5	0.18	375.0		
Average		0	0	0	0	11.1	7.5	0.68	185.4	0.19	385.1	0.06	0.025
Maximum		0	0	0	0	13	7.81	1.50	214.0	0.21	444.0	0.13	0.086
Minimum		0	0	0	0	9	6.99	0.07	70.6	0.07	149.0	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 - 2017 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-Apr-17	1566 Arbutus	0	0			10	7.41	0.97	176.3	0.18	365.0	0.07	0.102
5-Apr-17	3427 Tyee	0	0			8	7.43	0.20	197.7	0.20	411.0	0.10	0.028
5-Apr-17	1270 Sea Dog	0	0			10	7.41	0.32	195.3	0.20	405.0	0.03	0.001
5-Apr-17	2454 Armstrong	0	0			8	7.35	0.64	202.6	0.20	420.0	0.12	0.026
5-Apr-17	3500 Fairwinds	0	0			10	7.39	0.82	199.7	0.20	414.0	0.12	0.017
5-Apr-17	1996 Highland	0	0			9	7.40	0.60	197.0	0.20	410.0	0.03	0.011
5-Apr-17	Florence & Anchor	0	0			8	7.44	0.45	200.0	0.20	415.0	0.07	0.001
12-Apr-17	1358 Madrona	0	0			10	7.42	0.52	180.4	0.18	373.0		
12-Apr-17	2359 Higginson	0	0			9	7.62	0.50	170.1	0.17	355.0		
12-Apr-17	2315 Ida Lane	0	0			10	7.39	0.51	208.0	0.21	432.0		
12-Apr-17	Lot 54 Evanshire	0	0			10	7.44	0.75	200.7	0.20	417.0		
12-Apr-17	3383 Redden	0	0			9	7.44	0.64	199.9	0.20	415.0		
19-Apr-17	1565 Stonelake					10	7.44	0.63	182.9	0.18	380.0		
19-Apr-17	NB Elementary					10	7.34	1.04	205.7	0.20	427.0		
19-Apr-17	3730 Fairwinds					10	7.41	0.83	203.0	0.20	421.0		
19-Apr-17	3541 Shelby					10	7.43	0.82	203.2	0.20	422.0		
19-Apr-17	2329 Chain					9	7.40	0.50	202.0	0.20	419.0		
26-Apr-17	1566 Arbutus			0	0	10	7.42	0.95	176.5	0.18	368.0		
26-Apr-17	Lot 51 Swallow	0	0			9	7.37	0.06	205.0	0.20	424.0		
26-Apr-17	1639 Marina	0	0			10	7.29	0.81	210.9	0.21	437.0		
26-Apr-17	2315 Ida Lane			0	0	10	7.45	0.42	212.0	0.21	437.0		
26-Apr-17	3465 Cambridge	0	0			10	7.35	0.71	203.2	0.20	423.0		
26-Apr-17	2339 Garry Oak	0	0			10	7.36	1.32	209.0	0.21	434.0		
	Average	0	0	0	0	9.5	7.4	0.65	197.4	0.20	409.7	0.08	0.027
	Maximum	0	0	0	0	10	7.62	1.32	212.0	0.21	437.0	0.12	0.102
	Minimum	0	0	0	0	8	7.29	0.06	170.1	0.17	355.0	0.03	0.001

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 - 2017 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)
8-Mar-17	1565 Stonelake	0	0	0	0	9	7.00	0.73	205.3	0.21	426.0	0.05	0.037
8-Mar-17	3427 Tyee	0	0	0	0	6	7.19	0.50	195.6	0.20	406.0	0.07	0.027
8-Mar-17	1270 Sea Dog	0	0	0	0	7	7.12	0.79	199.3	0.20	414.0	0.28	0.080
8-Mar-17	2315 Ida Lane	0	0	0	0	9	7.32	0.78	203.0	0.20	421.0	0.10	0.036
8-Mar-17	3500 Fairwinds	0	0	0	0	8	7.36	0.82	194.1	0.19	404.0	0.10	0.041
8-Mar-17	1996 Highland	0	0	0	0	8	7.29	0.47	196.2	0.20	407.0	0.02	0.010
8-Mar-17	2329 Chain	0	0	0	0	8	7.38	0.84	196.9	0.20	409.0	0.11	0.044
21-Mar-17	1566 Arbutus	0	0	0	0	7	7.44	1.18	177.2	0.18	367.0		
21-Mar-17	2359 Higginson	0	0	0	0	6.5	7.46	0.11	199.9	0.20	416.0		
21-Mar-17	2454 Armstrong	0	0	0	0	5.5	7.37	0.91	204.0	0.20	422.0		
21-Mar-17	Lot 54 Evanshire	0	0	0	0	6	7.48	1.04	199.7	0.20	414.0		
21-Mar-17	3383 Redden	0	0	0	0	6.5	7.52	0.70	199.1	0.20	413.0		
21-Mar-17	Florence & Anchor	0	0	0	0	6	7.54	0.76	200.9	0.20	417.0		
22-Mar-17	1358 Madrona	0	0	0	0	9	7.61	0.71	186.2	0.18	387.0		
22-Mar-17	Lot 51 Swallow	0	0	0	0	5	7.48	0.01	198.4	0.20	410.0		
22-Mar-17	NB Elementary			0	0	10	7.35	1.56	202.8	0.20	420.0		
22-Mar-17	3730 Fairwinds	0	0	0	0	9	7.47	0.89	198.4	0.20	409.0		
22-Mar-17	3541 Shelby	0	0	0	0	8	7.50	0.96	197.6	0.20	411.0		
22-Mar-17	2339 Garry Oak	0	0	0	0	9	7.40	1.29	201.0	0.20	416.0		
29-Mar-17	1565 Stonelake			0	0	9	7.41	0.76	190.5	0.19	396.0		
29-Mar-17	1639 Marina	0	0	0	0	8	7.35	0.73	200.5	0.20	417.0		
29-Mar-17	2315 Ida Lane			0	0	9	7.42	0.79	204.0	0.20	422.0		
29-Mar-17	3465 Cambridge	0	0	0	0	9	7.51	0.82	197.9	0.20	413.0		
29-Mar-17	2329 Chain			0	0	8	7.42	0.52	200.0	0.20	414.0		
	Average	0	0	0	0	7.7	7.4	0.78	197.9	0.20	410.5	0.10	0.039
	Maximum	0	0	0	0	10	7.61	1.56	205.3	0.21	426.0	0.28	0.080
	Minimum	0	0	0	0	5	7.00	0.01	177.2	0.18	367.0	0.02	0.010

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 - 2017 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)
8-Feb-17	1358 Madrona	0	0	0	0	5	7.52	0.47	208.9	0.21	433.0	0.14	0.063
8-Feb-17	3427 Tyee	0	0	0	0	4.5	7.53	0.10	199.6	0.20	414.0	0.10	0.017
8-Feb-17	1270 Sea Dog	0	0	0	0	4.5	7.57	0.71	200.4	0.20	417.0	0.49	0.091
8-Feb-17	2454 Armstrong	0	0	0	0	4.5	7.36	0.49	203.0	0.20	422.0	0.10	0.023
8-Feb-17	3500 Fairwinds	0	0	0	0	5.5	7.47	1.13	198.0	0.20	411.0	0.10	0.033
8-Feb-17	1996 Highland	0	0	0	0	5.5	7.43	0.59	193.6	0.19	466.0	0.02	0.016
8-Feb-17	2339 Garry Oak	0	0	0	0	6	7.39	1.00	198.4	0.20	419.0	0.08	0.018
14-Feb-17	1565 Stonelake	0	0	0	0	8	7.28	0.68	206.8	0.21	429.0		
14-Feb-17	2359 Higginson	0	0	0	0	6	7.27	0.84	200.0	0.20	413.0		
14-Feb-17	2315 Ida Lane	0	0	0	0	8	7.30	0.82	203.3	0.20	422.0		
14-Feb-17	Lot 54 Evanshire	0	0	0	0	7	7.41	0.95	197.2	0.20	407.0		
14-Feb-17	3383 Redden	0	0	0	0	6	7.36	0.69	195.6	0.19	408.0		
14-Feb-17	2329 Chain	0	0	0	0	6	7.32	0.46	200.0	0.20	413.0		
22-Feb-17	1566 Arbutus	0	0	0	0	8	7.21	0.64	205.9	0.20	427.0		
22-Feb-17	Lot 51 Swallow	0	0	0	0	9	7.17	0.04	198.7	0.20	414.0		
22-Feb-17	NB Elementary			0	0	9	7.10	1.09	205.4	0.19	426.0		
22-Feb-17	3730 Fairwinds	0	0	0	0	8	6.99	0.74	193.8	0.19	404.0		
22-Feb-17	3541 Shelby	0	0	0	0	7	7.10	0.69	191.7	0.19	400.0		
22-Feb-17	Florence & Anchor	0	0	0	0	6	7.27	0.46	200.9	0.20	417.0		
28-Feb-17	1358 Madrona			0	0	8	7.08	0.37	203.7	0.20	423.0		
28-Feb-17	1639 Marina	0	0	0	0	8	7.07	0.88	198.5	0.20	411.0		
28-Feb-17	2454 Armstrong			0	0	6	7.19	0.79	200.1	0.20	416.0		
28-Feb-17	3465 Cambridge	0	0	0	0	8	7.31	0.82	197.1	0.20	408.0		
28-Feb-17	2339 Garry Oak			0	0	8	7.30	0.82	196.4	0.20	410.0		
	Average	0	0	0	0	6.7	7.3	0.68	199.9	0.20	417.9	0.15	0.037
	Maximum	0	0	0	0	9	7.57	1.13	208.9	0.21	466.0	0.49	0.091
	Minimum	0	0	0	0	4.5	6.99	0.04	191.7	0.19	400.0	0.02	0.016

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 - 2017 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-Jan-17	1566 Arbutus	0	0	0	0	7	7.20	0.58	217.6	0.22	452.0	0.03	0.101
3-Jan-17	1270 Sea Dog	0	0	0	0	6	7.20	0.78	233.0	0.23	481.0	0.18	0.080
3-Jan-17	2315 Ida Lane	0	0	0	0	7	7.35	0.88	224.0	0.22	463.0	0.15	0.084
3-Jan-17	Florence & Anchor	0	0	0	0	6	7.43	0.44	220.0	0.22	456.0	0.10	0.054
18-Jan-17	1358 Madrona	0	0	0	0		7.32	0.55	222.0	0.22	461.0		
18-Jan-17	3427 Tyee	0	0	0	0		7.30	0.48	209.0	0.21	431.0		
18-Jan-17	2359 Higginson	0	0	0	0		7.34	0.87	203.5	0.20	422.0		
18-Jan-17	2454 Armstrong	0	0	0	0		7.32	0.88	203.0	0.20	421.0		
18-Jan-17	3730 Fairwinds	0	0	0	0		7.41	0.87	206.1	0.21	430.0		
18-Jan-17	3541 Shelby	0	0	0	0		7.42	0.98	204.0	0.20	422.0		
18-Jan-17	3383 Redden	0	0	0	0		7.45	0.86	206.8	0.21	429.0		
18-Jan-17	2329 Chain	0	0	0	0		7.43	0.39	214.0	0.22	444.0		
25-Jan-17	1565 Stonelake	0	0	0	0	7	7.13	0.77	206.0	0.21	426.0		
25-Jan-17	Lot 51 Swallow	0	0	0	0	4	7.33	0.06	207.9	0.21	434.0		
25-Jan-17	NB Elementary			0	0	7	7.31	1.35	201.0	0.20	417.0		
25-Jan-17	3465 Cambridge	0	0	0	0	6	7.37	0.84	201.7	0.20	419.0		
25-Jan-17	Lot 54 Evanshire	0	0	0	0	5	7.40	0.83	201.0	0.20	416.0		
25-Jan-17	2339 Garry Oak	0	0	0	0	6	7.33	1.27	200.4	0.20	416.0		
31-Jan-17	1566 Arbutus			0	0	8	7.30	0.61	203.1	0.20	422.0		
31-Jan-17	1639 Marina	0	0	0	0	8	7.24	1.21	202.0	0.20	417.0		
31-Jan-17	2315 Ida Lane			0	0	9	7.35	1.03	205.0	0.20	425.0		
31-Jan-17	3500 Fairwinds	0	0	0	0	7	7.43	1.03	201.0	0.20	417.0		
31-Jan-17	1996 Highland	0	0	0	0	8	7.42	0.49	200.9	0.20	417.0		
31-Jan-17	Florence & Anchor			0	0	7	7.37	0.54	206.0	0.21	427.0		
	Average	0	0	0	0	7	7.3	0.77	208.3	0.21	431.9	0.12	0.080
	Maximum	0	0	0	0	9	7.45	1.35	233.0	0.23	481.0	0.18	0.101
	Minimum	0	0	0	0	4	7.13	0.06	200.4	0.20	416.0	0.03	0.054

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.