

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)
6-Nov-19	1358 Madrona	0	0	0	0	11	6.62	0.43	181.6	0.18	377.0	0.03	0.049
6-Nov-19	2359 Higginson	0	0	0	0	12	6.93	0.37	162.9	0.16	340.0	0.02	0.043
6-Nov-19	2454 Armstrong	0	0	0	0	11	7.09	0.76	213.0	0.21	443.0	0.06	0.054
6-Nov-19	3500 Fairwinds	0	0	0	0	11	7.20	0.84	206.6	0.21	429.0	0.03	0.009
6-Nov-19	3541 Shelby	0	0	0	0	11	7.30	0.87	205.0	0.21	426.0	0.04	0.011
6-Nov-19	2339 Garry Oaks	0	0	0	0	12	7.34	1.30	214.8	0.21	445.0	0.03	0.008
13-Nov-19	1566 Arbutus	0	0	0	0	12	6.82	0.48	186.5	0.17	347.0		
13-Nov-19	1270 Sea Dog	0	0	0	0	12	6.99	0.10	191.7	0.19	398.0		
13-Nov-19	3427 Tye	0	0	0	0	11	7.02	0.26	188.9	0.19	396.0		
13-Nov-19	2315 Ida Lane	0	0	0	0	12	7.11	0.10	186.8	0.19	388.0		
13-Nov-19	3730 Fairwinds	0	0	0	0	12	7.23	0.65	191.9	0.19	398.0		
13-Nov-19	3383 Redden	0	0	0	0	12	7.25	0.55	191.8	0.19	399.0		
13-Nov-19	2329 Chain	0	0	0	0	11	7.28	0.24	184.8	0.18	384.0		
20-Nov-19	1565 Stonelake	0	0	0	0	12	6.85	0.18	171.8	0.17	358.0		
20-Nov-19	1639 Marina Way	0	0	0	0	11	7.13	0.20	87.0	0.09	183.1		
20-Nov-19	NB Elementary			0	0	11	7.07	0.68	166.0	0.17	346.0		
20-Nov-19	lot 54 Evanshire	0	0	0	0	11	7.15	0.59	172.9	0.17	360.0		
20-Nov-19	Florence & Anchor	0	0	0	0	11	7.20	0.46	180.2	0.18	375.0		
27-Nov-19	1358 Madrona			0	0	11	6.77	0.27	109.7	0.11	229.0		
27-Nov-19	lot 51 Swallow	0	0	0	0	11	6.97	0.06	121.7	0.12	255.0		
27-Nov-19	2315 Ida Lane			0	0	11	7.01	0.20	142.9	0.14	298.0		
27-Nov-19	3465 Cambridge	0	0	0	0	11	7.12	0.64	169.9	0.17	354.0		
27-Nov-19	1996 Highland	0	0	0	0	11	7.16	0.19	172.9	0.17	359.0		
27-Nov-19	2329 Chain	0	0	0	0	11	7.18	0.09	182.9	0.18	380.0		
	Average	0	0	0	0	11.3	7.1	0.44	174.3	0.2	361.1	0.04	0.029
	Maximum	0	0	0	0	12	7.34	1.3	214.8	0.21	445.0	0.06	0.054
	Minimum	0	0	0	0	11	6.62	0.06	87	0.09	183.1	0.02	0.008

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 - 2019 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)
1-Oct-19	1358 Madrona			0	0	16	7.09	0.05	80.1	0.08	169.0	0.02	0.019
1-Oct-19	2359 Higginson	0	0	0	0	16	7.10	0.28	91.6	0.09	192.8	0.03	0.018
1-Oct-19	2454 Armstrong	0	0	0	0	16	7.11	0.07	103.4	0.10	217.3		
1-Oct-19	3500 Fairwinds	0	0	0	0	14	7.16	0.49	141.9	0.14	297.0		
1-Oct-19	3541 Shelby	0	0	0	0	14	7.23	0.55	143.4	0.14	300.0		
1-Oct-19	2339 Garry Oak	0	0	0	0	14	7.31	0.60	127.4	0.13	268.0		
9-Oct-19	1566 Arbutus	0	0	0	0	14	6.75	0.26	119.1	0.12	250.0		
9-Oct-19	1270 Sea Dog	0	0	0	0	14	7.09	0.97	154.8	0.15	322.0		
9-Oct-19	3427 Tyee	0	0	0	0	15	7.19	0.21	147.1	0.14	330.0		
9-Oct-19	2315 Ida Lane	0	0	0	0	14	7.24	0.15	133.6	0.13	279.0		
9-Oct-19	3730 Fairwinds	0	0	0	0	15	7.26	0.51	166.0	0.16	341.0		
9-Oct-19	3383 Redden	0	0	0	0	16	7.40	0.24	156.3	0.16	326.0		
9-Oct-19	Florence & Anchor			0	0	14	7.40	0.50	174.3	0.17	363.0		
16-Oct-19	1565 StoneLake	0	0	0	0	14	7.02	0.62	187.9	0.19	389.0		
16-Oct-19	1639 Marina Way	0	0	0	0	13	7.27	0.05	161.3	0.16	336.0		
16-Oct-19	NB Elementry			0	0	13	7.22	0.28	137.5	0.14	287.0		
16-Oct-19	Lot 54 Evanshire	0	0	0	0	13	7.30	0.75	186.2	0.19	387.0		
16-Oct-19	1996 Highland	0	0	0	0	15	7.38	0.30	167.2	0.17	348.0		
16-Oct-19	Florence & Anchor	0	0	0	0	13	7.37	0.24	159.9	0.16	332.0		
23-Oct-19	1358 Madrona	0	0	0	0	14	7.13	0.40	178.8	0.18	372.0		
23-Oct-19	lot 51 Swallow	0	0	0	0	12	7.36	0.01	162.8	0.16	339.0		
23-Oct-19	2315 Ida Lane			0	0	14	7.28	0.39	183.5	0.18	381.0		
23-Oct-19	3465 Cambridge	0	0	0	0	12	7.30	0.85	198.5	0.20	412.0		
23-Oct-19	2329 Chain	0	0	0	0	11	7.33	0.06	165.8	0.16	345.0		
29-Oct-19	1565 StoneLake			0	0	13	7.10	0.52	186.2	0.19	387.0		
29-Oct-19	1639 Marina Way			0	0	12	7.13	0.62	189.1	0.19	391.0		
29-Oct-19	2454 Armstrong			0	0	13	7.14	0.62	187.5	0.19	390.0		
29-Oct-19	Lot 54 Evanshire			0	0	13	7.20	0.72	187.3	0.19	389.0		
29-Oct-19	1996 Highland			0	0	13	7.23	0.32	189.2	0.19	393.0		
29-Oct-19	Florence & Anchor			0	0	12	7.30	0.38	195.0	0.19	405.0		
	Average	0	0	0	0.00	13.7	7.2	0.40	158.8	0.16	331.3	0.03	0.019
	Maximum	0	0	0	0	16	7.4	0.97	198.5	0.20	412	0.03	0.019
	Minimum	0	0	0	0	11	6.75	0.01	80.1	0.08	169	0.02	0.018

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.

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-Sep-19	1358 Madrona	0	0	0	0	17	7.32	0.41	83.5	0.08	175.6	0.07	0.016
4-Sep-19	2359 Higginson	0	0	0	0	17	7.33	0.37	70.2	0.07	148.2	0.07	0.004
4-Sep-19	2454 Armstrong	0	0	0	0	18	7.37	0.35	85.8	0.08	180.8	0.05	0.023
4-Sep-19	3500 Fairwinds	0	0	0	0	16	7.30	0.85	138.6	0.14	290.0	0.05	0.028
4-Sep-19	3541 Shelby	0	0	0	0	16	7.41	0.70	132.1	0.13	276.0	0.03	0.006
4-Sep-19	2339 Garry Oak	0	0	0	0	15	7.59	1.09	138.7	0.14	290.0	0.1	0.008
11-Sep-19	1566 Arbutus	0	0	0	0	17	6.90	0.59	67.3	0.07	142.2		
11-Sep-19	1270 Seadog	0	0	0	0	18	7.10	0.61	134.6	0.13	281.0		
11-Sep-19	3427 Tye	0	0	0	0	18	7.27	0.18	76.8	0.08	161.8		
11-Sep-19	2315 Ida Lane	0	0	0	0	18	7.30	0.27	72.3	0.07	152.8		
11-Sep-19	3730 Fairwinds	0	0	0	0	17	7.32	0.53	134.5	0.13	281.0		
11-Sep-19	3383 Redden	0	0	0	0	17	7.35	0.64	133.3	0.12	284.0		
11-Sep-19	2329 Chain	0	0	0	0	15	7.46	0.63	132.4	0.13	277.0		
16-Sep-19	1565 Stonelake	0	0	0	0	17	6.98	0.24	114.3	0.11	240.0		
16-Sep-19	1639 Marina Way	0	0	0	0	17	7.13	0.38	70.7	0.07	149.3		
16-Sep-19	2454 Armstrong			0	0	18	7.40	0.32	124.7	0.12	261.0		
16-Sep-19	lot 54 Evanshire	0	0	0	0	16	7.52	0.59	153.6	0.15	321.0		
16-Sep-19	1996 Highland	0	0	0	0	17	7.48	0.31	160.3	0.16	335.0		
16-Sep-19	Florence & Anchor			0	0	16	7.46	0.65	163.9	0.16	346.0		
23-Sep-19	1566 Arbutus			0	0	16	6.85	0.17	92.0	0.10	206.1		
23-Sep-19	lot 51 Swallow			0	20	16	7.17	0.05	158.2	0.16	330.0		
23-Sep-19	NB Elementry			0	0	15	7.32	0.89	115.0	0.11	241.0		
23-Sep-19	3465 Cambridge			0	0	15	7.35	0.87	182.4	0.18	379.0		
23-Sep-19	2329 Chain			0	0	15	7.41	0.05	155.6	0.15	324.0		
25-Sep-19	lot 51 Swallow RE			0	1			0.05					
26-Sep-19	lot 51 Swallow RE			0	0			0.08					
	Average	0	0	0	1	16.5	7.3	0.46	120.5	0.12	253.0	0.06	0.014
	Maximum	0	0	0	20	18	7.59	1.09	182.4	0.18	379.0	0.1	0.028
	Minimum	0	0	0	0	15	6.85	0.05	67.3	0.07	142.2	0.03	0.004

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.

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-Aug-19	1358 Madrona	0	0	0	0	18	7.21	0.33	78.9	0.08	165.2	0.04	0.029
7-Aug-19	2359 Higginson	0	0	0	0	18	7.15	0.31	61.7	0.06	130.5	0.05	0.006
7-Aug-19	2454 Armstrong	0	0	0	0	18	7.17	0.37	95.2	0.09	200.2	0.04	0.014
7-Aug-19	3500 Fairwinds	0	0	0	0	17	7.19	0.77	140.1	0.14	293.0	0.03	0.028
7-Aug-19	3541 Shelby	0	0	0	0	17	7.44	0.77	137.8	0.14	288.0	0.03	0.025
7-Aug-19	2339 Garry Oak	0	0	0	0	16	7.48	1.54	214.9	0.21	446.0	0.06	0.015
14-Aug-19	1566 Arbutus	0	0	0	0	18	7.25	0.62	68.4	0.07	144.4		
14-Aug-19	lot 51 Swallow	0	0	0	0	18	7.37	0.05	143.9	0.15	305.0		
14-Aug-19	3427 Tye	0	0	0	0	18	7.40	0.25	137.1	0.14	287.0		
14-Aug-19	2315 Ida Lane	0	0	0	0	18	7.53	0.22	73.0	0.07	154.1		
14-Aug-19	3730 Fairwinds	0	0	0	0	18	7.40	0.67	137.4	0.14	287.0		
14-Aug-19	3383 Redden	0	0	0	0	17	7.49	0.66	137.6	0.14	288.0		
14-Aug-19	2329 Chain	0	0	0	0	17	7.43	0.20	136.1	0.14	284.0		
14-Aug-19	3541 Shelby	0	0	0	0	16		0.76					
21-Aug-19	1565 Stonelake	0	0	0	0	17	6.96	0.67	78.8	0.08	166.4		
21-Aug-19	1639 Marina Way	0	0	0	0	17	7.18	0.80	65.7	0.06	138.8		
21-Aug-19	2454 Armstrong	0	0	0	0	18	7.21	0.29	77.3	0.08	163.1		
21-Aug-19	lot 54 Evanshire	0	0	0	0	16	7.39	0.71	143.1	0.14	299.0		
21-Aug-19	1996 Highland	0	0	0	0	17	7.44	0.49	145.3	0.14	303.0		
21-Aug-19	Florence & Anchor	0	0	0	0	17	7.43	0.66	135.3	0.13	283.0		
27-Aug-19	1566 Arbutus			0	0	17	6.94	0.46	68.9	0.07	147.1		
27-Aug-19	lot 51 Swallow			0	0	18	7.04	0.02	146.2	0.14	305.0		
27-Aug-19	1270 Seadog	0	0	0	0	18	7.22	1.61	88.1	0.09	185.5		
27-Aug-19	NB Elementry			0	0	14	7.30	1.02	143.8	0.14	300.0		
27-Aug-19	3465 Cambridge	0	0	0	0	16	7.40	0.70	145.8	0.14	304.0		
27-Aug-19	2329 Chain			0	0	14	7.41	1.29	194.6	0.19	404.0		
	Average	0	0.00	0	0.00	17.0	7.3	0.62	119.8	0.12	250.9	0.04	0.020
	Maximum	0	0	0	0	18	7.53	1.61	214.9	0.21	446.0	0.06	0.029
	Minimum	0	0	0	0	14	6.94	0.02	61.7	0.06	130.5	0.03	0.006

Red font indicates non-compliance with Canadian Drinking Water Guidelines

A*: Sample not tested; too long in transit

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 - 2019 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-Jul-19	1358 Madrona	0	0	0	0	17	7.01	0.35	93.6	0.09	197.5	0.02	0.004
3-Jul-19	2359 Higginson	0	0	0	0	16	7.07	0.43	69.9	0.08	148.0	0.01	0.008
3-Jul-19	3500 Fairwinds	0	0	0	0	17	7.18	0.87	158.7	0.16	331.0	0.05	0.027
3-Jul-19	3541 Shelby	0	0	0	0	17	7.18	0.77	71.9	0.07	152.0	0.04	0.012
3-Jul-19	2339 Garry Oaks	0	0	0	0	17	7.14	1.47	215.0	0.21	445.0	0.04	0.013
3-Jul-19	2454 Armstrong	0	0	0	0	17	7.24	0.34	75.8	0.07	159.8	0.05	0.007
9-Jul-19	1566 Arbutus	0	0	0	0	18	6.99	0.42	70.9	0.07	149.9		
9-Jul-19	Lot 51 Swallow	0	0	0	0	18	7.34	0.00	160.4	0.16	342.0		
9-Jul-19	3427 Tyee	0	0	0	0	17	7.39	0.43	167.2	0.17	348.0		
9-Jul-19	2315 Ida	0	0	0	0	18	7.50	0.59	183.8	0.18	382.0		
9-Jul-19	3730 Fairwinds	0	0	0	0	18	6.97	0.64	180.1	0.18	375.0		
9-Jul-19	3383 Redden	0	0	0	0	17	7.29	0.62	168.8	0.17	352.0		
9-Jul-19	2329 Chain	0	0	0	0	16	7.18	0.43	168.0	0.17	350.0		
17-Jul-19	1565 Stonelake	0	0	0	0	18	7.06	0.41	141.8	0.14	296.0		
17-Jul-19	1639 Marina Way	0	0	0	0	18	7.11	0.62	66.3	0.07	140.1		
17-Jul-19	2454 Armstrong	0	0	0	0	17	7.06	0.31	97.6	0.10	205.2		
17-Jul-19	Lot 54 Evanshire	0	0	0	0	17	7.28	0.81	157.2	0.16	328.0		
17-Jul-19	1996 Highland	0	0	0	0	18	7.35	0.41	156.6	0.16	327.0		
17-Jul-19	Florence Anchor	0	0	0	0	17	7.36	0.39	147.9	0.15	309.0		
24-Jul-19	1566 Arbutus			0	0	18	7.36	0.61	79.5	0.08	167.5		
24-Jul-19	Lot 51 Swallow			0	0	18							
24-Jul-19	1270 Seadog	0	0	0	0	19	7.35	0.34	72.8	0.07	153.7		
24-Jul-19	NB Elementry			0	0	16	7.33	1.00	136.7	0.14	286.0		
24-Jul-19	3465 Cambridge	0	0	0	0	18	7.36	0.74	143.9	0.14	301.0		
24-Jul-19	2329 Chain			0	0	16	7.22	1.40	201.5	0.20	418.0		
31-Jul-19	1358 Madrona			0	0	17.5	7.29	0.39	89.3	0.09	187.4		
31-Jul-19	2359 Higginson			0	0	17	7.11	0.32	66.8	0.07	140.8		
31-Jul-19	lot 51 Swallow			0	20	18	7.24	0.02	143.4	0.14	299.0		
31-Jul-19	2315 Ida Lane			0	0		7.34	0.24	76.9	0.08	162.3		
31-Jul-19	1996 Highland			0	0	19	7.34	0.40	140.0	0.14	293.0		
31-Jul-19	2339 Garry Oaks			0	0	15	7.28	1.29	181.9	0.18	379.0		
1-Aug-19	lot 51 Swallow. Re			0	0	18		0.06					
	Average	0	0.0	0	1	17.3	7.23	0.55	129.5	0.13	270.8	0.04	0.012
	Maximum	0	0	0	20	19	7.5	1.47	215.0	0.21	445.0	0.05	0.027
	Minimum	0	0	0	0	15	6.97	0	66.3	0.07	140.1	0.01	0.004

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.

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-Jun-19	1358 Madrona	0	0	0	0	14	7.24	0.56	73.7	0.07	155.8	0.04	0.011
5-Jun-19	1270 Sea Dog	0	0	0	0	16	7.18	0.76	62.1	0.06	131.3	0.04	0.026
5-Jun-19	2454 Armstrong	0	0	0	0	14	7.23	0.38	95.5	0.09	200.8	0.01	0.015
5-Jun-19	3500 Fairwinds	0	0	0	0	15	7.45	0.89	148.1	0.15	309.0	0.03	0.011
5-Jun-19	3541 Shelby	0	0	0	0	15	7.40	0.88	145.4	0.14	303.0	0.03	0.016
5-Jun-19	2339 Garry Oak	0	0	0	0	14	7.42	1.38	191.4	0.19	398.0	0.04	0.020
12-Jun-19	1566 Arbutus	0	0	0	0	16	7.10	0.61	80.6	0.08	169.8		
12-Jun-19	lot 51 Swallow	0	0	0	0	16	7.39	0.05	155.7	0.15	325.0		
12-Jun-19	3427 Tye	0	0	0	0	16	7.35	0.35	152.9	0.15	322.0		
12-Jun-19	2315 Ida Lane	0	0	0	0	16	7.32	0.48	74.3	0.07	156.9		
12-Jun-19	3730 Fairwinds	0	0	0	0	16	7.48	0.85	152.3	0.15	318.0		
12-Jun-19	3383 Redden	0	0	0	0	15	7.52	0.80	151.8	0.15	317.0		
12-Jun-19	2329 Chain	0	0	0	0	14	7.49	1.45	222.0	0.22	459.0		
19-Jun-19	1565 Stonelake	0	0	0	0	16	7.63	0.54	141.7	0.14	296.0		
19-Jun-19	2359 Higginson	0	330	0	OG	15	7.28	0.45	68.5	0.07	144.4		
19-Jun-19	1639 Marina Way	0	0	0	0	15	7.13	0.87	67.5	0.07	143.4		
19-Jun-19	NB Elementry	0	0	0	0	11	7.32	1.45	203.4	0.20	425.0		
19-Jun-19	lot 54 Evanshire	0	0	0	0	15	7.44	0.82	150.0	0.15	313.0		
19-Jun-19	1996 Highland	0	0	0	0	15	7.42	0.63	153.2	0.15	320.0		
19-Jun-19	Florence & Anchor	0	0	0	0	12	7.39	0.91	141.8	0.15	296.0		
20-Jun-19	2359 Higginson			0	6	16		0.39					
21-Jun-19	2359 Higginson			0	0			0.49					
24-Jun-19	lot 54 Swallow			0	0	17	7.37	0.04	155.8	0.16	325.0		
24-Jun-19	2359 Higginson			0	0	17	7.39	0.58	65.7	0.06	138.8		
	Average	0	16.5	0	0.26	15.0	7.4	0.69	129.7	0.13	271.2	0.03	0.017
	Maximum	0	330	0	6	17	7.63	1.45	222.0	0.22	459.0	0.04	0.026
	Minimum	0	0	0	0	11	7.1	0.04	62.1	0.06	131.3	0.01	0.011

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 - 2019 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)
2-May-19	1358 Madrona			0	0	10	6.90	0.41	90.0	0.09	189.3		
2-May-19	lot 51 Swallow			0	0	9	6.98	0.03	146.1	0.15	305.0		
2-May-19	NB Elmentry			0	0	10	7.29	1.48	231.0	0.23	477.0		
2-May-19	3541 Shelby			0	0	11	7.45	0.81	176.1	0.18	367.0		
2-May-19	2339 Garry Oak			0	0	10	7.48	0.62	133.2	0.13	279.0		
2-May-19	1639 Marina Way			0	0	10	7.41	0.50	140.0	0.14	291.0		
8-May-19	1358 Madrona	0	0	0	0	10	7.12	0.42	76.6	0.08	161.4	0.03	0.070
8-May-19	1270 Sea Dog	0	0	0	0	11	7.21	0.63	70.3	0.07	148.5	0.01	0.016
8-May-19	2454 Armsrtong	0	0	0	0	10	7.26	0.43	65.4	0.06	138.1	0.01	0.009
8-May-19	3541 Shelby	0	0	0	0	10	7.49	0.87	144.2	0.14	301.0	0.02	0.019
8-May-19	2339 Garry Oak	0	0	0	0	10	7.52	1.58	211.3	0.21	438.0	0.03	0.022
8-May-19	lot 54 Evanshire	0	0	0	0	11	7.55	0.85	145.6	0.14	304.0	0.03	0.031
15-May-19	1566 Arbutus	0	0	0	0	11	7.42	1.31	149.1	0.15	311.0		
15-May-19	lot 54 swallow	0	0	0	0	14	7.40	0.06	149.0	0.14	300.0		
15-May-19	3427 Tye	0	0	0	0	13	7.34	0.36	145.1	0.14	303.0		
15-May-19	2315 Ida Lane	0	0	0	0	12	7.24	0.40	78.4	0.08	165.1		
15-May-19	3500 Fairwinds	0	0	0	0	11	7.37	0.85	142.4	0.14	297.0		
15-May-19	3383 Redden	0	0	0	0	13	7.40	0.70	144.8	0.14	302.0		
15-May-19	2329 Chain	0	0	0	0	11	7.31	0.97	131.2	0.13	247.0		
22-May-19	Florence & Anchor	0	0	0	0	12	7.31	0.89	177.3	0.18	369.0		
22-May-19	1565 Stonelake	0	0	0	0	12	7.42	0.75	141.6	0.14	296.0		
22-May-19	2359 Higginson	0	0	0	0			0.50					
22-May-19	1639 Marina Way	0	0	0	0	12	6.99	0.81	56.2	0.06	119.0		
22-May-19	2315 Armstrong	0	0	0	0	12	7.14	0.75	13.5	0.13	279.0		
22-May-19	3730 Fairwinds	0	0	0	0	15	7.36	0.86	155.6	0.15	324.0		
22-May-19	3465 Cambridge	0	0	0	0	12	7.40	0.91	154.1	0.15	321.0		
29-May-19	1566 Arbutus			0	0	14	6.83	0.54	62.8	0.06	132.8		
29-May-19	lot 54 swallow			0	0	14	7.13	0.03	150.2	0.15	313.0		
29-May-19	1639 Marina Way			0	0	13		0.94					
29-May-19	NB Elmentry			0	0	10	7.35	1.63	211.0	0.21	437.0		
29-May-19	3730 Fairwinds			0	0	11	7.34	0.81	148.4	0.15	310.0		
29-May-19	3465 Cambridge			0	0	14	7.37	0.97	147.9	0.15	311.0		
29-May-19	2329 Chain			0	0	11	7.35	1.57	222.0	0.22	460.0		
	Average	0	0	0	0	11.5	7.3	0.76	135.8	0.14	290.2	0.02	0.028
	Maximum	0	0	0	0	15	7.55	1.63	231.0	0.23	477.0	0.03	0.07
	Minimum	0	0	0	0	9	6.83	0.03	13.5	0.06	119.0	0.01	0.009

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.

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-19	1565 Stonelake	0	0	0	0	10	7.28	0.74	189.8	0.19	394.0	0.02	0.061
3-Apr-19	3427 Tye	0	0	0	0	10	7.53	0.05	219.1	0.22	454.0	0.00	0.028
3-Apr-19	1270 Sea Dog	0	0	0	0	9	7.50	0.10	215.0	0.20	459.0	0.01	0.031
3-Apr-19	2315 Ida Lane	0	0	0	0	9	7.57	0.82	201.0	0.20	417.0	0.01	0.032
3-Apr-19	3500 Fairwinds	0	0	0	0	10	7.69	1.05	217.4	0.22	450.0	0.02	0.034
3-Apr-19	1996 Highland	0	0	0	0	10	7.66	0.49	220.0	0.21	444.0	0.02	0.017
3-Apr-19	Florence&Anchor	0	0	0	0	8	7.69	1.17	230.0	0.23	476.0	0.03	0.031
10-Apr-19	1358 Madrona	0	0	0	0	9	7.66	0.60	180.9	0.18	377.0		
10-Apr-19	lot 51 Swallow	0	0	0	0	10	7.71	0.14	208.0	0.21	431.0		
10-Apr-19	2454 Armstrong			0	0	9	7.67	0.65	184.9	0.18	365.0		
10-Apr-19	lot 54 Evanshire	0	0	0	0	10	7.68	0.96	212.0	0.21	439.0		
10-Apr-19	3541 Shelby	0	0	0	0	9	7.72	0.91	208.6	0.21	433.0		
10-Apr-19	2339 Garry Oak	0	0	0	0	8	7.62	0.62	178.5	0.18	371.0		
17-Apr-19	1565 Stonelake	0	0	0	0	10	7.39	0.74	192.0	0.19	399.0		
17-Apr-19	Madrona #8	0	0	0	0								
17-Apr-19	3427 Tye			0	0	10	7.54	0.05	208.6	0.21	429.0		
17-Apr-19	2359 Higginson	0	0	0	0	10		0.68					
17-Apr-19	2315 Ida Lane	0	0	0	0	11	7.61	0.88	214.0	0.21	443.0		
17-Apr-19	3730 Fairwind	0	0	0	0	9	7.80	0.96	220.0	0.22	456.0		
17-Apr-19	3465 Cambridge	0	0	0	0	9	7.77	1.05	223.0	0.22	439.0		
17-Apr-19	2329 Chain	0	0	0	0	9	7.73	0.30	220.0	0.22	455.0		
25-Apr-19	1566 Arbutus	0	0	0	0	10	7.29	0.75	182.7	0.18	380.0		
23-Apr-19	1639 Marina Way	0	0	0	0	9	7.46	0.16	199.9	0.20	415.0		
23-Apr-19	2454 Armstrong			0	0	10	7.56	0.69	187.8	0.19	390.0		
23-Apr-19	3383 Redden	0	0	0	0	10	7.67	0.80	215.4	0.21	446.0		
23-Apr-19	Florence&Anchor	0	0	0	0	9	7.62	0.98	230.0	0.23	476.0		
	Average	0	0	0	0	9.5	7.6	0.65	206.6	0.21	426.6	0.02	0.033
	Maximum	0	0	0	0	11	7.8	1.17	230.0	0.23	476.0	0.03	0.061
	Minimum	0	0	0	0	8	7.28	0.05	178.5	0.18	365.0	0	0.017

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.

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)
6-Mar-19	1358 Madrona	0	0	0	0	7	7.53	0.78	191.3	0.19	397.0	0.01	0.071
6-Mar-19	3427 Tyee	0	0	0	0	5	7.62	0.58	246.0	0.25	509.0	0.00	0.006
6-Mar-19	1270 Sea Dog	0	0	0	0	6	7.60	0.62	180.9	0.18	376.0	0.00	0.051
6-Mar-19	2454 Armstrong	0	0	0	0	5	7.70	0.84	251.0	0.25	518.0	0.05	0.007
6-Mar-19	3500 Fairwinds	0	0	0	0	7	7.74	0.83	247.0	0.25	510.0	0.06	0.013
6-Mar-19	1996 Highland	0	0	0	0	7	7.69	0.51	246.0	0.25	513.0	0.02	0.002
6-Mar-19	2339 Garry Oak	0	0	0	0	7	7.71	1.21	257.0	0.26	531.0	0.03	0.016
13-Mar-19	1565 Stonelake	0	0	0	0	5	7.17	0.79	190.4	0.19	395.0		
13-Mar-19	2359 Higginson	0	0	0	0	7	7.51	0.78	250.0	0.23	499.0		
13-Mar-19	lot 51 Swallow	0	0	0	0	7	7.47	0.05	259.0	0.24	493.0		
13-Mar-19	2454 Armstrong			0	0	7	7.59	0.72	211.0	0.21	438.0		
13-Mar-19	lot 54 Evanshire	0	0	0	0	6	7.61	0.85	241.0	0.24	497.0		
13-Mar-19	3383 Redden	0	0	0	0	7	7.60	0.69	240.0	0.21	481.0		
13-Mar-19	2329 Chain	0	0	0	0	7	7.64	0.70	223.0	0.22	461.0		
13-Mar-19	Florence and Anchor	0	0	0	0	7	7.59	0.68	230.0	0.20	470.0		
20-Mar-19	1566 Arbutus	0	0	0	0	7	7.61	0.60	182.1	0.18	379.0		
20-Mar-19	1639 Marina	0	0	0	0	7	7.66	0.47	177.2	0.18	369.0		
20-Mar-19	2315 Ida Lane	0	0	0	0	7	7.69	1.16	226.0	0.23	469.0		
20-Mar-19	2454 Armstrong			0	0	6	7.66	0.84	221.0	0.22	470.0		
20-Mar-19	3730 Fairwinds	0	0	0	0	7	7.64	1.00	230.0	0.23	475.0		
20-Mar-19	3465 Cambridge	0	0	0	0	7	7.65	0.98	227.0	0.23	470.0		
20-Mar-19	3541 Shelby	0	0	0	0	8		1.02					
20-Mar-19	2329 Chain	0	0	0	0	6	7.54	0.89	227.0	0.23	469.0		
28-Mar-19	1358 Madrona					8	7.20	0.74	186.1	0.19	387.0		
28-Mar-19	lot 51 Swallow					6	7.32	0.03	212.5	0.22	442.0		
28-Mar-19	2315 Ida Lane					9	7.54	0.77	213.0	0.21	442.0		
28-Mar-19	lot 54 Evanshire					9	7.63	0.97	220.0	0.23	457.0		
28-Mar-19	2339 Garry Oak					9	7.68	1.21	227.0	0.23	470.0		
	Average	0	0	0	0	6.9	7.6	0.76	222.7	0.22	458.8	0.02	0.024
	Maximum	0	0	0	0	9	7.74	1.21	259.0	0.26	531.0	0.06	0.071
	Minimum	0	0	0	0	5	7.17	0.03	177.2	0.18	369.0	0.00	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.

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)
6-Feb-19	1565 Stone lake	0	0	0	0		7.09	0.87	245.0	0.24	505.0	0.02	0.058
6-Feb-19	3427 Tye	0	0	0	0	6	7.65	0.10	248.0	0.25	512.0	0.03	0.008
6-Feb-19	2315 Ida Lane	0	0	0	0	8	7.63	0.70	246.0	0.25	509.0	0.04	0.014
6-Feb-19	3500 Fairwinds	0	0	0	0	8	7.71	0.92	240.0	0.24	496.0	0.03	0.019
6-Feb-19	1996 Highland	0	0	0	0	8	7.65	0.34	244.0	0.24	505.0	0.03	0.010
6-Feb-19	2339 Garry Oak	0	0	0	0	8	7.65	0.89	243.0	0.24	503.0	0.03	0.011
13-Feb-19	1566 Arbutus	0	0	0	0	7	7.44	0.99	184.3	0.18	384.0		
13-Feb-19	Lot 51 Swallow	0	0	0	0	7	7.49	0.03	242.0	0.24	501.0		
13-Feb-19	1270 Sea Dog	0	0	0	0	5	7.62	0.73	206.0	0.21	427.0		
13-Feb-19	2454 Armstrong	0	0	0	0	7	7.56	0.59	245.0	0.25	506.0		
13-Feb-19	3465 Cambridge	0	0	0	0	7	7.58	1.05	239.0	0.24	494.0		
13-Feb-19	lot 54 Evanshire	0	0	0	0	7	7.62	0.85	242.0	0.24	500.0		
13-Feb-19	Florence & Anchor	0	0	0	0	6	7.61	0.87	241.0	0.24	499.0		
20-Feb-19	1358 Madrona	0	0	0	0	6	7.46	0.67	188.5	0.19	391.0		
20-Feb-19	1639 Marina	0	0	0	0		7.44	0.60	169.7	0.17	353.0		
20-Feb-19	2359 Higginson	0	0	0	0	6	7.46	0.64	170.2	0.17	354.0		
20-Feb-19	2315 Ida Lane			0	0	7	7.50	0.68	195.0	0.19	405.0		
20-Feb-19	3730 Fairwinds	0	0	0	0	7	7.54	0.89	218.0	0.22	452.0		
20-Feb-19	3383 Redden	0	0	0	0	7	7.65	0.60	220.0	0.22	457.0		
20-Feb-19	2329 Chain	0	0	0	0	7	7.00	1.23					
27-Feb-19	1566 Arbutus			0	0	7	7.40	0.83	246.0	0.25	509.0		
27-Feb-19	Lot 51 Swallow			0	0	4	7.51	0.02	237.0	0.24	490.0		
27-Feb-19	2454 Armstrong			0	0	5	7.52	0.80	243.0	0.24	502.0		
27-Feb-19	3541 Shelby	0	0	0	0	6	7.54	0.92	245.0	0.24	506.0		
27-Feb-19	2329 Chain			0	0	7	7.59	0.69	247.0	0.25	511.0		
	Average	0	0	0	0	7	7.5	0.70	226.9	0.23	469.6	0.03	0.020
	Maximum	0	0	0	0	8	7.71	1.23	248.0	0.25	512.0	0.04	0.058
	Minimum	0	0	0	0	4	7.00	0.02	169.7	0.17	353.0	0.02	0.008

Red font indicates non-compliance with Canadian Drinking Water Guidelines

Aesthetic Objective for Iron is ≤ 0.3 mg/L

Aesthetic Objective for Manganese is ≤ 0.05 mg/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.

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-19	1565 Stonelake	0	0	0	0	9	7.50	0.98	193.0	0.18	400.0	0.01	0.052
9-Jan-19	3427 Tyee	0	0	0	0	8	7.60	0.18	250.0	0.29	535.0	0.03	0.006
9-Jan-19	1270 Sea Dog	0	0	0	0	7	7.70	0.25	193.1	0.21	411.0	0.02	0.062
9-Jan-19	2315 Ida Lane	0	0	0	0	9	7.72	0.96	259.0	0.23	500.0	0.06	0.016
9-Jan-19	3500 Fairwinds	0	0	0	0	8	7.70	1.00	253.0	0.24	529.0	0.03	0.025
9-Jan-19	1996 Highland	0	0	0	0	9	7.68	0.57	256.0	0.25	525.0	0.03	0.009
9-Jan-19	2339 Garry Oak	0	0	0	0	8	7.69	1.37	254.0	0.24	531.0	0.03	0.013
16-Jan-19	1566 Arbutus	0	0	0	0	8	7.71	0.81	195.5	0.19	406.0		
16-Jan-19	1639 Marina	0	0	0	0	8	7.93	0.58	193.9	0.19	403.0		
16-Jan-19	2454 Armstrong	0	0	0	0	7	7.84	0.48	262.0	0.26	541.0		
16-Jan-19	3465 Cambridge	0	0	0	0	8	7.80	0.99	263.0	0.26	543.0		
16-Jan-19	3541 Shelby	0	0	0	0	8	7.79	0.93	263.0	0.26	540.0		
16-Jan-19	2329 Chain	0	0	0	0	7	7.74	0.58	250.0	0.25	516.0		
23-Jan-19	1358 Madrona	0	0	0	0	8	7.47	0.88	195.9	0.20	407.0		
23-Jan-19	lot 51 Swallow	0	0	0	0	8	7.57	0.04	261.0	0.26	540.0		
23-Jan-19	2359 Higginson	0	0	0	0	8		0.62					
23-Jan-19	2454 Armstrong	0	0	0	0	7	7.57	0.73	269.0	0.27	554.0		
23-Jan-19	3383 Redden	0	0	0	0	8	7.62	0.85	264.0	0.26	545.0		
23-Jan-19	3730 Fairwinds	0	0	0	0	7	7.66	0.95	266.0	0.27	548.0		
23-Jan-19	Florence & Anchor	0	0	0	0	7	7.58	1.09	266.0	0.27	549.0		
30-Jan-19	Madrona #8	0	0	0	0		7.00		270.0	0.27	555.0		
30-Jan-19	3427 Tyee			0	0	8	7.35	0.07	253.0	0.25	523.0		
30-Jan-19	2315 Ida Lane			0	0	8	7.40	0.57	249.0	0.25	513.0		
30-Jan-19	lot 51 Evanshire	0	0	0	0	8	7.44	0.87	246.0	0.26	510.0		
30-Jan-19	2339 Garry Oak			0	0	8	7.49	1.16	247.0	0.25	511.0		
	Average	0	0	0	0	7.9	7.6	0.73	244.7	0.24	505.6	0.03	0.026
	Maximum	0	0	0	0	9	7.93	1.37	270.0	0.29	555.0	0.06	0.062
	Minimum	0	0	0	0	7	7	0.04	193	0.18	400.0	0.01	0.006

Red font indicates non-compliance with Canadian Drinking Water Guidelines

Aesthetic Objective for Iron is ≤ 0.3 mg/L

Aesthetic Objective for Manganese is ≤ 0.05 mg/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.