



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2024 Monthly Report

Date	Sample Location (Address)	BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer								
		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)	Turbidity (NTU)
10-Jan-23	1565 Stonelake	0	0	0	0	10	7.89	0.68	69.1	0.07	146.0	0.29
10-Jan-24	2259 Higginson	0	0	0	0	10	8.28	0.55	37.0	0.04	78.7	0.31
10-Jan-24	3427 Tye	0	0	0	0	10	7.64	0.57	142.4	0.14	298.0	0.17
10-Jan-24	2454 Armstrong	0	0	0	0	9	7.61	0.64	157.4	0.16	328.0	0.17
10-Jan-24	3541 Shelby	0	0	0	0	9	7.72	0.68	144.5	0.14	302.0	0.16
10-Jan-24	2329 Chain	0	0	0	0	9	7.71	0.77	145.2	0.14	304.0	0.24
23-Jan-24	1358 Madrona	0	0	0	0	9	7.35	0.72	93.1	0.09	195.9	0.29
23-Jan-24	1639 Marina Way	0	0	0	0	9	7.84	0.57	53.9	0.05	114.2	0.29
23-Jan-24	3730 Fairwinds	0	0	0	0	9	7.66	0.84	115.5	0.12	242.0	0.24
23-Jan-24	3500 Fairwinds	0	0	0	0	9	7.64	0.83	129.3	0.13	250.0	0.20
23-Jan-24	Florence & Anchor	0	0	0	0	9	7.63	0.61	126.3	0.13	264.0	0.36
23-Jan-24	1566 Arbutus	0	0	0	0	9		0.72				0.32
23-Jan-24	1270 Sea Dog	0	0	0	0	9	7.90	0.50	56.7	0.50	122.2	0.36
23-Jan-24	2315 Ida Lane	0	0	0	0	9	7.59	0.43	149.4	0.15	312.0	0.36
23-Jan-24	2400 Evanshire	0	0	0	0	9		0.80				0.15
23-Jan-24	2339 Garry Oak	0	0	0	0	9		0.71				0.26
29-Jan-24	1566 Arbutus			0	0	8.5	7.53	0.76	73.5	0.07	136.6	0.33
29-Jan-24	3119 Swallow	0	0	0	0	7.5	7.24	0.30	133.4	0.13	280.0	0.21
29-Jan-24	NB Elementry			0	0	8.5	7.03	1.34	123.2	0.12	257.0	0.33
29-Jan-24	3465 Cambridge	0	0	0	0	8.5	7.15	0.82	140.7	0.14	298.0	0.20
29-Jan-24	1996 Highland	0	0	0	0	8.5	7.14	0.66	143.6	0.14	302.0	0.31
29-Jan-24	3383 Redden	0	0	0	0	8		0.82				0.30
29-Jan-24	2339 Garry Oak			0	0	8	7.02	0.48	142.0	0.14	296.0	0.30
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	n/a

Legend:

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

Green font indicates a value flagged for operational consideration

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

Comments:

Iron and Manganese are no longer being tested in-house.

A full potability scan, including metals and minerals, is completed once per year at an external lab.

Notes below about pH (2015) from https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#_ftn1

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
Treatment-related	pH (2015)	None	7.0-10.5	Not applicable	Not applicable	The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components.



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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)	Turbidity (NTU)
7-Feb-24	1565 Stone lake	0	0	0	0	9	8.61	0.44	60.6	0.06	128.5	0.19
7-Feb-24	2259 Higginson	0	0	0	0	9	8.60	0.44	39.0	0.04	82.6	0.17
7-Feb-24	3427 Tyee	0	0	0	0	9	7.85	0.54	132.7	0.13	278.0	0.17
7-Feb-24	2454 Armstrong	0	0	0	0	9	7.87	0.36	109.6	0.11	230.0	0.25
7-Feb-24	3541 Shelby	0	0	0	0	9	7.59	0.97	175.7	0.18	365.0	0.21
7-Feb-24	2329 Chain	0	0	0	0	8	7.75	0.43	125.2	0.12	262.0	0.18
13-Feb-24	1566 Arbutus	0	0	0	0	8	8.34	0.61	56.2	0.06	119.0	0.23
13-Feb-24	1270 Sea dog	0	0	0	0	9	8.40	0.62	40.4	0.04	85.6	0.31
13-Feb-24	2315 Ida Lane	0	0	0	0	9	7.76	0.42	168.4	0.17	350.0	0.36
13-Feb-24	2400 Evanshire	0	0	0	0	9	7.73	0.73	148.6	0.15	310.0	0.17
13-Feb-24	3383 Redden	0	0	0	0	9	7.70	0.75	154.2	0.15	321.0	0.21
13-Feb-24	2339 Garry Oak	0	0	0	0	9	7.76	0.79	145.4	0.14	303.0	0.16
20-Feb-24	1358 Madrona	0	0	0	0	8	8.39	0.52	76.9	0.08	162.2	0.33
20-Feb-24	1639 Marina Way	0	0	0	0	9	8.46	0.53	43.7	0.04	92.9	0.28
20-Feb-24	NB Elementry			0	0	9	7.80	0.99	114.8	0.11	241.0	0.19
20-Feb-24	3730 Fairwinds	0	0	0	0	9	7.71	0.71	147.1	0.15	307.0	0.29
20-Feb-24	3500 Fairwinds	0	0	0	0	9	7.70	0.64	151.6	0.15	316.0	0.24
20-Feb-24	Florence & Anchor	0	0	0	0	8	7.71	0.46	143.1	0.14	299.0	0.22
26-Feb-24	1566 Arbutus			0	0	8	8.41	0.63	61.8	0.06	130.7	0.32
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	n/a

Legend:

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Comments:

Iron and Manganese are no longer being tested in-house.

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Notes below about pH (2015) from https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#_ftn1

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
Treatment-related	pH (2015)	None	7.0-10.5	Not applicable	Not applicable	The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components.



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5-Mar-24	1565 Stonelake	0	0	0	0	8	8.27	0.90	102.5	0.10	215.4	0.22
5-Mar-24	2259 Higginson	0	0	0	0	8	8.88	0.63	39.0	0.04	82.6	0.17
5-Mar-24	3427 Tye	0	0	0	0	8	8.13	0.69	130.5	0.13	273.0	0.21
5-Mar-24	2454 Armstrong	0	0	0	0	8	8.03	0.47	95.1	0.09	200.1	0.30
5-Mar-24	1996 Highland	0	0	0	0	8	7.77	0.59	139.2	0.14	291.0	0.14
5-Mar-24	2329 Chain	0	0	0	0	7	7.67	0.74	116.2	0.12	242.0	0.36
12-Mar-24	1566 Arbutus	0	0	0	0	8	8.47	0.74	66.4	0.07	139.7	0.31
12-Mar-24	1270 Sea Dog	0	0	0	0	8	8.43	0.59	47.1	0.05	100.1	0.26
12-Mar-24	2315 Ida Lane	0	0	0	0	8	7.88	0.33	129.2	0.13	270.0	0.29
12-Mar-24	2400 Evanshire	0	0	0	0	8	7.80	0.80	127.4	0.13	267.0	0.27
12-Mar-24	3383 Redden	0	0	0	0	8	7.73	0.74	143.0	0.14	298.0	0.26
12-Mar-24	2339 Garry Oaks	0	0	0	0	8	7.80	0.77	117.6	0.12	246.0	0.20
20-Mar-24	1358 Madrona	0	0	0	0	9	8.35	0.70	68.4	0.07	144.0	0.28
20-Mar-24	1639 Marina Way	0	0	0	0	9	8.16	0.78	49.3	0.05	104.9	0.33
20-Mar-24	NB Elementry	0	0	0	0	9	7.66	1.20	155.4	0.15	324.0	0.20
20-Mar-24	3730 Fairwinds	0	0	0	0	9	7.67	0.82	159.2	0.16	332.0	0.30
20-Mar-24	3500 Fairwinds	0	0	0	0	9	7.78	0.96	143.3	0.14	299.0	0.30
20-Mar-24	Florence & Anchor	0	0	0	0	8	8.02	0.50	138.0	0.14	289.0	0.32
27-Mar-24	1566 Arbutus			0	0	9	8.20	0.59	45.0	0.04	95.0	0.37
27-Mar-24	3119 Swallow	0	0	0	0	9	7.82	0.36	118.0	0.12	246.0	0.23
27-Mar-24	2454 Armstrong			0	0	9	7.91	0.60	166.0	0.16	345.0	0.49
27-Mar-24	3465 Cambridge	0	0	0	0	9	7.47	0.98	162.0	0.16	339.0	0.36
27-Mar-24	1996 Highland	0	0	0	0	9	7.87	0.73	153.0	0.15	318.0	0.44
27-Mar-24	2339 Garry Oak			0	0	9	7.87	0.72	165.0	0.16	344.0	0.42
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	n/a

Legend:

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10-Apr-24	1565 Stone lake	0	0	0	0	10	7.93	0.55	94.3	0.09	197.9	0.22
10-Apr-24	2259 Higginson	0	0	0	0	10	8.57	0.56	42.2	0.04	89.7	0.36
10-Apr-24	3427 Tye	0	0	0	0	10	8.00	0.89	137.5	0.13	286.0	0.26
10-Apr-24	2454 Armstrong	0	0	0	0	10	8.04	0.65	131.5	0.13	276.0	0.29
10-Apr-24	3541 Shelby	0	0	0	0	10	7.80	0.87	156.4	0.16	326.0	0.13
10-Apr-24	2329 Chain	0	0	0	0	9	7.83	0.45	132.4	0.13	277.0	0.13
17-Apr-24	1566 Arbutus	0	0	0	0	10	8.09	0.37	119.2	0.12	249.0	0.37
17-Apr-24	1270 Seadog	0	0	0	0	11	8.33	0.57	56.9	0.06	120.6	0.13
17-Apr-24	2400 Evanshire	0	0	0	0	10	7.77	0.67	128.6	0.13	269.0	0.25
17-Apr-24	3383 Redden	0	0	0	0	10	7.71	0.70	122.9	0.13	249.0	0.16
17-Apr-24	2339 Garry Oak	0	0	0	0	10	8.56	0.55	45.1	0.04	95.6	0.25
23-Apr-24	1350 Madrona			0	0	11	8.40	0.54	73.0	0.07	154.3	0.23
23-Apr-24	3119 Swallow			0	0	11	7.97	0.41	107.3	0.11	225.0	0.18
23-Apr-24	2315 Ida Lane			0	0	11	8.09	0.20	111.0	0.11	233.0	0.29
23-Apr-24	3730 Fairwinds			0	0	11	7.87	0.84	135.1	0.13	283.0	0.15
23-Apr-24	3500 Fairwinds			0	0	11	7.83	0.81	127.1	0.13	127.3	0.18
23-Apr-24	Florence & Anchor			0	0	11	7.65	1.01	168.1	0.17	351.0	0.30
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	n/a

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