



Regional District of Nanaimo - Water Services Department

Whiskey Creek Water Analysis - 2020 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)	Total Iron (mg/L)	Manganese (mg/L)
1-Dec-20	3537 Harris	0	0	0	0	9	7.00	1.22	61.1	0.05	128.7	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
7-Dec-20	844 Carson	0	0	0	0	9	7.20	1.04	65.3	0.06	138.1		
7-Dec-20	3533 Hebert	0	0	0	0	9	7.24	1.39	67.1	0.06	135.9		
14-Dec-20	3564 Foxglove	0	0	0	0	9	7.24	1.13	66.2	0.07	140.1		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

Legend:

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

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 is completed once per year at an external lab that includes metals and minerals.



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2-Nov-20	3537 Harris	0	0	0	0	12	7.20	0.87	76.0	0.08	160.1	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
9-Nov-20	844 Carson	0	0	0	0	11	7.20	1.11	82.0	0.08	173.0		
16-Nov-20	3564 Foxglove	0	0	0	0	11	6.81	1.03	72.8	0.07	152.7		
23-Nov-20	3522 Hebert	0	0	0	0	9	6.90	1.64	69.9	0.07	147.0		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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5-Oct-20	3537 Harris	0	0	0	0	16	6.89	1.26	77.1	0.08	162.7	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
13-Oct-20	844 Carson	0	0	0	0	15	7.20	0.86	84.8	0.08	178.7		
19-Oct-20	3564 Foxgolve	0	0	0	0	14	6.83	1.26	80.2	0.08	169.1		
26-Oct-20	3533 Hebert	0	0	0	0	12	7.00	1.11	72.1	0.07	152.2		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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2-Sep-20	3537 Harris	0	0	0	0	17	6.63	1.46	89.0	0.09	187.2	0.32	
8-Sep-20	844 Carson	0	0	0	0	17	6.70	0.78	88.4	0.10	185.1		
14-Sep-20	3564 Foxglove	0	0	0	0	17	6.92	1.01	93.9	0.11	192.9		
21-Sep-20	3533 Hebert	0	0	0	0	17	6.96	0.80	82.5	0.08	173.8		
28-Sep-20	3533 Hebert			0	0	17	7.31	1.12	103.1	0.10	216.7		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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4-Aug-20	3537 Harris	0	0	0	0	15	6.94	1.17	66.1	0.07	139.7	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
12-Aug-20	844 Carson	0	0	0	0	15	6.87	0.82	67.8	0.07	143.4		
17-Aug-20	3564 Foxglove	0	0	0	0	19	7.02	1.12	97.8	0.10	205.5		
24-Aug-20	3533 Hebert	0	0	0	0	15	7.18	0.80	96.0	0.10	201.9		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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6-Jul-20	3537 Harris	0	0	0	0	14	7.18	1.05	64.3	0.07	135.7	0.11	0.001
13-Jul-20	844 Carson	0	0	0	0	15	7.33	1.35	65.3	0.06	138.1		
20-Jul-20	3465 Foxglove	0	0	0	0	15	7.34	1.62	63.9	0.06	134.9		
27-Jul-20	3533 Hebert	0	0	0	0	17	6.93	0.82	64.3	0.06	135.9		
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Comments:

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I = Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	Health Basis of MAC: Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. Other: Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.



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1-Jun-20	3537 Harris	0	0	0	0	13	6.86	1.07	66.1	0.07	139.7	0.06	0.008
8-Jul-20	844 Carson	0	0	0	0	13	7.04	1.46	49.9	0.09	140.0		
15-Jun-20	3564 Foxglove	0	0	0	0	12	7.30	0.93	71.6	0.07	151.1		
22-Jun-20	3533 Hebert	0	0	0	0	14	7.32	1.51	66.5	0.07	140.4		
29-Jun-20	3533 Hebert			0	0	15	7.09	1.04	64.0	0.06	135.4		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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4-May-20	3537 Harris	0	0	0	0	10	7.26	1.04	67.1	0.07	141.8	0.03	0.011
11-May-20	844 Carson	0	0	0	0	10	7.38	0.55	68.3	0.07	146.0		
19-May-20	3564 Foxglove	0	0	0	0	11	7.35	1.06	70.7	0.07	148.1		
25-May-20	3533 Hebert	0	0	0	0	11	7.24	0.43	45.7	0.04	97.1		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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6-Apr-20	3537 Harris	0	0	0	0	8	7.40	1.24	56.7	0.05	119.9	0.04	0.013
14-Apr-20	844 Carson	0	0	0	1	8	7.40	0.82	63.2	0.06	134.9		
16-Apr-20	844 Carson RE			0	0			0.91					
20-Apr-20	3564 Foxglove	0	0	0	0	10	7.70	0.76	63.4	0.06	134.0		
27-Apr-20	3533 Hebert	0	0	0	0	10	6.98	1.36	66.1	0.07	139.3		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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2-Mar-20	3537 Harris	0	0	0	0	7	7.45	1.11	55.1	0.05	116.7	0.05	0.005
9-Mar-20	844 Carson	0	0	0	0	7	7.52	0.99	58.6	0.06	123.8		
16-Mar-20	3564 Foxglove	0	0	0	0	7	7.38	0.99	60.3	0.06	127.5		
23-Mar-20	3533 Hebert	0	0	0	0	7	7.80	1.09	58.8	0.06	124.1		
30-Mar-20	3564 Foxglove			0	0	8	7.32	0.77	63.2	0.06	133.5		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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3-Feb-20	3537 Harris	0	0	0	0	7	7.33	1.16	54.8	0.05	116.2	0.03	0.011
10-Feb-20	844 Carson	0	0	0	0	7	7.26	1.24	57.0	0.05	109.9		
18-Feb-20	3564 Foxglove	0	0	0	0	7	7.15	1.14	60.1	0.06	127.1		
24-Feb-20	3533 Hebert	0	0	0	0	6	7.14	1.21	55.4	0.05	117.1		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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13-Jan-20	844 Carson	0	0	0	0	7	7.11	1.08	67.6	0.07	142.9		
20-Jan-20	3564 Foxglove	0	0	0	0	8	7.14	1.15	68.4	0.06	140.1		
28-Jan-20	3537 Hebert	0	0	0	0	6	7.02	1.27	52.6	0.05	111.5		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC

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