



Regional District of Nanaimo - Water Services Department

Whiskey Creek Water Analysis - 2023 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)	Total Iron (mg/L)	Manganese (mg/L)
5-Dec-23	3533 Hebert	0	0	0	0	10	6.93	0.63	33.2	0.03	70.6	0.30	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
5-Dec-23	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
13-Dec-23	844 Carson	0	0	0	0	n/a	7.62	0.60	35.9	0.04	76.3	0.32		
20-Dec-23	3537 Harris	0	0	0	0	10	7.06	0.54	37.9	0.04	80.3	0.34		
20-Dec-23	3564 Foxglove	0	0	0	0	10		0.51				0.29		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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:

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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6-Nov-23	3533 Hebert	0	0	0	0	n/a	6.72	0.68	33.3	0.03	70.8	0.39	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
15-Nov-15	3564 Foxglove	0	0	0	0	11.5	6.96	0.56	41.4	0.04	69.0	0.36		
20-Nov-23	844 Carson	0	0	0	0	n/a	6.93	0.59	38.1	0.04	80.9	0.14		
28-Nov-23	3537 Harris	0	0	0	0	10	6.81	0.56	37.4	0.04	79.6	0.21		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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4-Oct-23	3533 Hebert	0	0	0	0	14	6.76	0.75	36.7	0.04	77.9	0.21	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
11-Oct-23	3533 Hebert	0	0	0	0	13	6.53	0.60	32.8	0.03	69.8	0.26		
18-Oct-23	3537 Harris			0	0	14	6.79	0.70	33.6	0.03	71.4	0.23		
18-Oct-23	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a	0.11		
24-Oct-23	3564 Foxglove			0	0	13	6.60	0.05	37.8	0.04	80.3	0.17		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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6-Sep-23	3533 Hebert			0	0	16	7.00	0.65	36.6	0.04	78.2	0.19	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
12-Sep-23	844 Carson			0	0	16	7.03	0.71	37.9	0.04	80.6	0.23		
20-Sep-23	3537 Harris	0	0	0	0	14	6.70	0.74	33.5	0.03	71.4	0.15		
27-Sep-23	3564 Foxglove	0	0	0	0	17	6.66	0.63	36.2	0.04	77.1	0.13		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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1-Aug-23	3533 Hebert	0	0	0	0	15	6.75	0.79	n/a	n/a	n/a	0.57	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
1-Aug-23	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a	0.02		
8-Aug-23	844 Carson	0	0	0	0	16	6.70	0.72	n/a	n/a	n/a	0.45		
15-Aug-23	3537 Harris	0	0	0	0	16	6.68	0.78	n/a	n/a	n/a	0.93		
23-Aug-23	3564 Foxglove			0	0	18	6.79	0.78	36.5	0.04	77.50	0.34		
30-Aug-23	844 Carson			0	0	17	6.79	0.76	37.6	0.04	80.00	0.27		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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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.

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

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4-Jul-23	3533 Hebert	0	0	0	0	12	7.30	0.44	46.8	0.05	99.3	0.33	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
4-Jul-23	Well Head	0	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
11-Jul-23	3564 Foxglove	0	0	0	0	17	6.72	0.66	36.4	0.04	77.2	0.31		
18-Jul-23	3537 Harris			0	0	16	6.64	0.78	33.2	0.03	70.6	0.33		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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6-Jun-23	844 Carson	0	0	0	0	14	6.76	0.46	35.9	0.03	76.2	0.18	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
6-Jun-23	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a	0.30		
13-Jun-23	3533 Hebert	0	0	0	0	15	6.73	0.64	32.4	0.03	69	0.36		
20-Jun-23	3537 Harris	0	0	0	0	14	6.96	0.86	33.9	0.03	74.1	0.18		
27-Jun-23	3564 Foxglove	0	0	0	0	18	6.76	0.71	38.4	0.04	81.9	0.15		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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3-May-23	844 Carson	0	0	0	0	9	7.32	0.69	35.8	0.03	76.1	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
9-May-23	3527 Harris	0	0	0	0	10	7.42	0.81	33.0	0.03	70.1		
9-May-23	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
15-May-23	3533 Hebert	0	0	0	0	15	7.28	0.73	33.1	0.03	70.5		
24-May-23	3564 Foxglove	0	0	0	0	15	7.38	0.52	35.6	0.03	75.7		
30-May-23	844 Carson			0	0	15	7.07	0.78	34.3	0.03	72.9		
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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3-Apr-23	844 Carson	0	0	0	0	7	7.07	0.81	35.1	0.03	74.60	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
12-Apr-23	3537 Harris	0	0	0	0	8	7.28	0.75	32.50	0.03	69.10		
19-Apr-23	844 Carson	0	0	0	0	10	7.6	0.86	35.1	0.03	74.6		
26-Apr-23	3533 Hebert	0	0	0	0	8	7.34	0.77	31.6	0.03	67.2		
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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7-Mar-23	844 Carson	0	0	0	0	9	7.13	0.51	17.37	0.02	37.1	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
7-Mar-23	Temp Watermain	0	0	0	0	n/a	n/a	0.99	n/a	n/a	n/a		
13-Mar-23	3537 Harris	0	0	0	0	7	6.90	0.59	31.4	0.03	66.8		
20-Mar-23	3533 Hebert	0	0	0	0	7	7.53	0.56	28.9	0.03	61.5		
27-Mar-23	3564 Foxglove	0	0	0	0	8	7.66	0.78	36.4	0.04	77.2		
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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8-Feb-23	844 Carson	0	0	0	0	n/a	n/a	0.54	n/a	n/a	n/a	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
8-Feb-23	Temp Watermain	0	0	0	0	n/a	n/a	0.68	n/a	n/a	n/a		
14-Feb-23	3537 Harris	0	0	0	0	8	7.16	0.62	32.4	0.03	69		
21-Feb-23	3533 Hebert	0	0	0	0	8	7.12	0.63	31.0	0.03	65.9		
28-Feb-23	3564 Foxglove	0	0	0	0	7	7.41	0.56	33.9	0.03	72.1		
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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4-Jan-23	844 Carson	0	0	0	0	10	7.80	0.74	28.3	0.03	59.6	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/whiskey-creek	
4-Jan-23	Temp Watermain	0	0	0	0			0.82					
10-Jan-23	3537 Harris	0	0	0	0	7	7.04	0.76	35.5	0.03	75.4		
18-Jan-23	3533 Hebert	0	0	0	0	8	7.18	0.76	36.8	0.04	78.2		
25-Jan-23	3564 Foxglove	0	0	0	0	8	7.11	0.60	36.3	0.04	77.1		
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)

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:

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.