



# Regional District of Nanaimo - Water Services Department

## Whiskey Creek Water Analysis - 2022 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)
5-Dec-22	Temp watermain	0	0	0	0	4	n/a	0.75	n/a	n/a	n/a	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/whiskey-creek">https://www.rdn.bc.ca/whiskey-creek</a>	
5-Dec-22	3537 Harris	0	0	0	0	8	7.20	0.69	36.1	0.04	70.9		
14-Dec-22	3533 Hebert	0	0	0	0	6	7.17	0.91	31.0	0.03	66.1		
14-Dec-22	Well Head			0	0								
14-Dec-22	Carson	0	0	0	0	7	7.18	0.63	32.9	0.04	67.4		
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

### 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](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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3-Nov-22	3535 Harris	0	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/whiskey-creek">https://www.rdn.bc.ca/whiskey-creek</a>	
3-Nov-22	Well Head	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
3-Nov-22	Temp Watermain	0	0	0	0	8	7.32	0.82	30.2	0.03	64.3		
7-Nov-22	844 Carson	0	0	0	0	11	7.15	0.65	37.4	0.04	79.4		
14-Nov-22	3533 Hebert	0	0	0	0	11	6.91	0.77	31.0	0.03	86.0		
22-Nov-22	3564 Foxglove	0	0	0	0	10	7.40	0.53	37.4	0.04	79.6		
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-22	3535 Harris	0	0	0	0	15	7.09	0.79	35.6	0.03	75.9	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/whiskey-creek">https://www.rdn.bc.ca/whiskey-creek</a>	
12-Oct-22	844 Carson	0	0	0	0	15	7.30	0.68	39.6	0.04	84.3		
12-Oct-22	Well Head	n/a	n/a	0	0	n/a	n/a	n/a	n/a	n/a	n/a		
12-Oct-22	Temp Watermain	0	0	0	0	n/a	n/a	0.84	n/a	n/a	n/a		
17-Oct-22	3533 Hebert	0	0	0	0	13	7.18	0.68	31.9	0.03	68.0		
26-Oct-22	3564 Foxglove	0	0	0	0	12	6.82	0.66	31.8	0.03	67.6		
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:**

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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](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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		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-Sep-22	3537 Harris	0	0	0	0	16	6.92	0.78	36.5	0.04	77.6	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/whiskey-creek">https://www.rdn.bc.ca/whiskey-creek</a>	
7-Sep-22	Well Head	n/a	n/a	0	0	n/a	n/a	n/a	n/a	n/a	n/a		
7-Sep-22	Temp watermain	0	0	0	0	12	n/a	0.75	n/a	n/a	n/a		
14-Sep-22	844 Carson	0	0	0	0	17	7.19	0.64	38.2	0.04	81.0		
21-Sep-22	3533 Hebert	0	0	0	0	16	7.70	0.86	31.3	0.03	66.3		
27-Sep-22	3564 Foxglove	0	0	0	0		7.07	0.71	36.8	0.04	78.0		
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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2-Aug-22	3537 Harris	0	0	0	0	n/a	7.27	0.80	32.0	0.03	67.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/whiskey-creek">https://www.rdn.bc.ca/whiskey-creek</a>	
2-Aug-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
2-Aug-22	Temp Watermain	0	0	0	0	n/a	n/a	0.53	n/a	n/a	n/a		
9-Aug-22	844 Carson	0	0	0	0	15	7	0.8	37.1	0.04	78.8		
16-Aug-22	3533 Hebert	0	0	0	0	17	7.19	0.74	32.2	0.03	68.5		
24-Aug-22	3564 Foxglove	0	0	0	0	17	7.55	0.83	35.3	0.03	75.2		
31-Aug-22	844 Carson			0	0	18	7.34	0.68	34.1	0.03	72.4		
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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**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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6-Jul-22	844 Carson	0	0	0	0	n/a	n/a	0.64	n/a	n/a	n/a		
6-Jul-22	Well Head			0	0	10	7.41	n/a	29.1	0.03	61.9		
6-Jul-22	Temp Watermain	0	0	0	0	n/a	n/a	0.63	n/a	n/a	n/a		
13-Jul-22	844 Carson	0	0	0	0	15	7.44	0.78	35.1	0.03	74.6		
13-Jul-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
13-Jul-22	Temp Watermain			0	0	n/a	n/a	0.86	n/a	n/a	n/a		
19-Jul-22	3533 Hebert	0	0	0	0	15	7.05	0.80	36.2	0.04	77.0		
27-Jul-22	3564 Foxglove	0	0	0	0	18	7.41	0.59	37.2	0.04	79.0		
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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**Comments:**

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1-Jun-22	844 Carson	0	0	0	0	11	6.91	0.66	37.7	0.04	80.1		
1-Jun-22	Temp Watermain	0	0	0	0	n/a	n/a	0.58	n/a	n/a	n/a		
8-Jun-22	3564 Foxglove	0	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a		
8-Jun-22	Well Head			0	0	12	7.03	n/a	29.6	0.03	63.6		
8-Jun-22	Temp Watermain			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
15-Jun-22	Temp Watermain	0	0	0	0	n/a	n/a	0.64	n/a	n/a	n/a		
15-Jun-22	3533 Hebert	0	0	0	0	10	7.03	0.76	31.7	0.03	67.4		
20-Jun-22	3537 Harris	0	0	0	0	n/a	n/a	0.80	n/a	n/a	n/a		
20-Jun-22	Well Head	0	0	0	0	9	7.53	0	28.7	0.03	61.5		
29-Jun-22	844 Carson			0	0	n/a	n/a	0.83	n/a	n/a	n/a		
29-Jun-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
29-Jun-22	Temp Watermain			0	0	12	7.47	0.89	31.3	0.03	66.3		
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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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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4-May-22	3537 Harris	0	0	0	0	9	7.30	0.77	33.4	0.03	70.9		
4-May-22	Well Head			0	0	9							
4-May-22	Temp Watermain	0	0	0	0	10		0.91					
10-May-22	844 Carson	0	0	0	0	9	6.96	0.76	37.2	0.04	791.0		
10-May-22	Well Head			0	0	9							
10-May-22	Temp Watermain	0	0	0	0	10		0.58					
16-May-22	3533 Hebert	0	0	0	0	10	7.03	0.76	31.7	0.03	67.4		
16-May-22	Well Head			0	0	9							
16-May-22	Temp Watermain	0	0	0	0	9		0.86					
25-May-22	3564 Foxglove	0	0	0	0	11	6.99	0.87	31.7	0.03	67.4		
25-May-22	Well Head			0	0	9							
25-May-22	Temp Watermain	0	0	0	0	10		0.94					
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-Apr-22	3537 Harris	0	0	0	0	9	7.09	0.75	33.2	0.03	70.6		
5-Apr-22	Well Head			0	0	8	n/a	n/a	n/a	n/a	n/a		
5-Apr-22	Temp Watermain	0	0	0	0	9	n/a	0.86	n/a	n/a	n/a		
13-Apr-22	844 Carson	0	0	0	0	8	7.29	0.81	36.20	0.04	76.90		
13-Apr-22	Well Head			0	0	8	n/a	n/a	n/a	n/a	n/a		
13-Apr-22	Temp Watermain	0	0	0	0	8	n/a	0.68	n/a	n/a	n/a		
20-Apr-22	3533 Hebert	0	0	0	0	8	7.11	0.72	31.00	0.03	65.90		
20-Apr-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
20-Apr-22	Temp Watermain	0	0	0	0	8	n/a	0.90	n/a	n/a	n/a		
25-Apr-22	3564 Foxglove	0	0	0	0	9	7.10	0.98	38.5	0.04	81.8		
25-Apr-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
25-Apr-22	Temp Watermain	0	0	0	0	n/a	n/a	0.79	n/a	n/a	n/a		
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-22	3537 Harris	0	0	0	0	7	7.29	0.77	31.7	0.03	67.4		
2-Mar-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
2-Mar-22	Temp Watermain	0	0	0	0	n/a	n/a	0.85	n/a	n/a	n/a		
8-Mar-22	844 Carson	0	0	0	0	8	7.45	0.73	35.2	0.03	74.8		
8-Mar-22	Well Head			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
8-Mar-22	Temp Watermain	0	0	0	0	n/a	n/a	1.91	n/a	n/a	n/a		
16-Mar-22	3533 Hebert	0	0	0	0	7	7.16	0.55	31	0.03	65.9		
16-Mar-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
16-Mar-22	Temp Watermain	0	0	0	0	n/a	n/a	0.70	n/a	n/a	n/a		
23-Mar-22	3564 Foxglove	0	0	0	0	9	7.56	0.56	37.9	0.04	80.5		
23-Mar-22	Well Head			0	0	9	n/a	n/a	n/a	n/a	n/a		
23-Mar-22	Temp Watermain	0	0	0	0	9	n/a	0.98	n/a	n/a	n/a		
29-Mar-22	3564 Foxglove			0	0	8	7.51	0.82	37.1	0.04	78.3		
29-Mar-22	Well Head			0	0	8	n/a	n/a	n/a	n/a	n/a		
29-Mar-22	Temp Watermain	0	0	0	0	7	n/a	1.00	n/a	n/a	n/a		
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:



# Regional District of Nanaimo - Water Services Department

## Whiskey Creek Water Analysis - 2022 Monthly Report

Date	Sample Location (Address)	BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer								Bureau Veritas Lab	
		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-Feb-22	3537 Harris	0	0	0	0	6	7.12	0.85	32.2	0.03	68.6		
2-Feb-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
2-Feb-22	Temp Watermain	0	0	0	0	n/a	n/a	0.92	n/a	n/a	n/a		
8-Dec-22	Temp Watermain	0	0	0	0	n/a	n/a	0.7	n/a	n/a	n/a		
8-Feb-22	844 Carson	0	0	0	0	8	7.57	0.72	36.2	0.04	76.8	0.22	
16-Feb-22	3533 Hebert	0	0	0	0	n/a	7.22	0.35	30.6	0.00	65.3	0.14	
16-Feb-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
16-Feb-22	Temp Watermain	0	0	0	0	n/a	n/a	n/a	n/a	n/a	n/a		
23-Feb-22	3564 Foxglove	0	0	0	0	7	7.37	0.70	35.7	0.03	75.8		
23-Feb-22	Well Head			0	0	n/a	n/a	n/a	n/a	n/a	n/a		
23-Feb-22	Temp Watermain	0	0	0	0	n/a	n/a	0.96	0.98	n/a	n/a		
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)

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**Comments:**

## Whiskey Creek Water Analysis - 2022 Monthly Report

Date	Sample Location (Address)	BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer								Bureau Veritas Lab	
		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-Jan-22	3537 Harris	0	0	0	0	7	6.98	0.73	32.9	0.03	70.1		
5-Jan-22	Well Head			0	0	4							
5-Jan-22	Temp Watermain			0	0	4	6.80	0.68	35.1	0.03	71.4		
12-Jan-22	844 Carson	0	0	0	0	6	7.33	0.67	37.5	0.04	79.1		
12-Jan-22	Well Head			0	0	4							
12-Jan-22	Temp Watermain			0	0	4							
18-Jan-22	3537 Harris	0	0	0	0	7	6.80	0.78	30.4	0.03	64.7		
18-Jan-22	Well Head			0	0	4							
18-Jan-22	Temp Watermain	0	0	0	0	4							
25-Jan-22	3564 Foxglove	0	0	0	0	8	7.20	0.80	37.1	0.04	77.7		
25-Jan-22	Well Head			0	0								
25-Jan-22	Temp Watermain	0	0	0	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

### Legend:

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### 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](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.