



# Regional District of Nanaimo - Water Services Department

## Westerne Heights 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	1263 Weturne Hts	0	0	0	0	9	n/a	0.48	n/a	n/a	n/a	0.27	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/westurne-heights">https://www.rdn.bc.ca/westurne-heights</a>	
5-Dec-23	1252 Weturne Hts	0	0	0	0	9	6.97	0.05	47.7	0.05	101.0	0.30		
13-Dec-23	1260 Westurne Hts	0	0	0	0	n/a	7.10	0.40	44.5	0.04	96.8	0.28		
20-Dec-23	1252 Weturne Hts	0	0	0	0	9	7.00	0.46	45.2	0.04	98.8	0.26		
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](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	1263 Westerne	0	0	0	0	n/a	7.20	0.42	48.4	0.05	102.7	0.42	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/westerne-heights">https://www.rdn.bc.ca/westerne-heights</a>	
15-Nov-23	1252 Westerne	0	0	0	0	9	7.18	0.37	48.2	0.05	79.2	0.42		
20-Nov-23	1260 Westerne	0	0	0	0	10	7.19	0.43	48.3	0.05	102.3	0.30		
28-Nov-23	1252 Westerne	0	0	0	0	9	7.00	0.46	48.7	0.05	103.0	0.51		
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	1263 Westerne Hts	0	0	0	0	17	7.00	0.52	50.0	0.05	106.1	0.23	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/westerne-heights">https://www.rdn.bc.ca/westerne-heights</a>	
11-Oct-23	1260 Westerne Hts	0	0	0	0	9	7.22	0.52	50.6	0.05	107.1	0.32		
18-Oct-23	1252 Westerne Hts	0	0	0	0	13	7.22	0.46	50.1	0.05	106.1	0.30		
23-Oct-23	1252 Westerne Hts	0	0	0	0	13	6.83	0.41	49.6	0.05	105.3	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	1263 Westerne Hts	0	0	0	0	18	7.32	0.42	49.9	0.05	105.6	0.29	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/westerne-heights">https://www.rdn.bc.ca/westerne-heights</a>	
13-Sep-23	1260 Westerne Hts			0	0	12	7.23	0.53	50.4	0.05	106.8	0.38		
19-Sep-23	1263 Westerne Hts	0	0	0	0	15	7.35	0.45	49.8	0.05	108.8	0.14		
27-Sep-23	1252 Westerne Hts	0	0	0	0	16	6.89	0.53	48.7	0.05	105.6	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

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1-Aug-23	1263 Westerne			0	0	13	7.3	0.54	n/a	n/a	n/a	0.30	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/we-sturne-heights">https://www.rdn.bc.ca/we-sturne-heights</a>	
8-Aug-23	1260 Westerne	0	0	0	0	20	7.18	0.56	n/a	n/a	n/a	0.23		
15-Aug-23	1252 Westerne	0	0	0	0	13	7.31	0.55	n/a	n/a	n/a	0.39		
23-Aug-23	1260 Westerne	0	0	0	0	12	7.23	0.52	49.8	0.1	105.6	0.25		
29-Aug-23	1260 Westerne			0	0	12	7.42	0.50	50.1	0.05	106.2	0.25		
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-Jul-23	1263 Westurne	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 <a href="https://www.rdn.bc.ca/westurne-heights">https://www.rdn.bc.ca/westurne-heights</a>	
11-Jul-23	1260 Westurne	0	0	0	0	10	7.24	0.42	47.2	0.05	100.1	0.32		
18-Jul-23	1252 Westurne			0	0	22	7.28	0.58	48.9	0.05	103.7	0.25		
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	1263 Westerne	0	0	0	0	11	6.81	0.38	45.5	0.04	96.4	0.19	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/westerne-heights">https://www.rdn.bc.ca/westerne-heights</a>	
13-Jun-23	1360 Westerne	0	0	0	0	12	6.91	0.44	45.7	0.04	96.7	0.45		
20-Jun-23	1252 Westerne	0	0	0	0	16	7.01	0.47	46.5	0.05	98.5	0.13		
27-Jun-23	1263 Westerne	0	0	0	0	14	6.87	0.44	47.6	0.05	101.1	0.53		
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	1263 Westurne	0	0	0	0	10	7.29	0.63	45.6	0.04	96.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/we-sturne-heights">https://www.rdn.bc.ca/we-sturne-heights</a>	
9-May-23	1260 Westurne	0	0	0	0	9	7.37	0.58	45.4	0.04	96.2		
15-May-23	1252 Westurne	0	0	0	0	16	7.22	0.61	46.7	0.05	99.4		
24-May-23	1263 Westurne	0	0	0	0	14	7.32	0.58	45.1	0.04	95.7		
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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**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](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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3-Apr-23	1252 Westurne	0	0	0	0	7	7.08	0.65	47.1	0.05	100.1	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/we-sturne-heights">https://www.rdn.bc.ca/we-sturne-heights</a>	
12-Apr-23	1263 Westurne	0	0	0	0	9	7.29	0.60	45.0	0.04	95.5		
19-Apr-23	1260 Westurne	0	0	0	0	9	7.40	0.61	45.4	0.04	96.4		
26-Apr-23	1263 Westurne	0	0	0	0	8	7.23	0.61	45.4	0.04	96.3		
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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13-Mar-23	1260 Westurne	0	0	0	0	8	6.93	0.61	45.3	0.04	95.9		
20-Mar-23	1252 Westurne	0	0	0	0	6	7.33	0.62	44.8	0.04	95.1		
27-Mar-23	1263 Westurne	0	0	0	0	6	7.06	0.54	39.1	0.04	80.9		
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8-Feb-23	1263 Westurne Hts	0	0	0	0	7	7.25	0.59	46.2	0.05	97.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/we-sturne-heights">https://www.rdn.bc.ca/we-sturne-heights</a>	
14-Feb-23	1260 Westurne Hts	0	0	0	0	8	7.14	0.50	44.5	0.05	94.5		
21-Feb-23	1252 Westurne Hts	0	0	0	0	5	7.15	0.57	47.2	0.05	100.3		
28-Mar-23	1260 Westurne Hts	0	0	0	0	5	7.30	0.54	44.6	0.04	94.7		
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

### 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.



# Regional District of Nanaimo - Water Services Department

## Westerne Heights 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)	Total Iron (mg/L)	Manganese (mg/L)
4-Jan-23	1263 Westerne Heights	0	0	0	0	8	7.15	0.32	45.8	0.05	96.7	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at <a href="https://www.rdn.bc.ca/westerne-heights">https://www.rdn.bc.ca/westerne-heights</a>	
10-Jan-23	1252 Westerne Heights	0	0	0	0	6	7.03	0.36	45.9	0.05	97.3		
18-Jan-23	1263 Westerne Heights	0	0	0	0	6	7.07	0.51	47.2	0.05	100.1		
25-Jan-23	1260 Westerne Heights	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](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.