



# Regional District of Nanaimo - Water Services Department

## Westerne Heights 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)
3-Jan-24	1263 Westerne Heights	0	0	0	0	6	7.03	0.64	46.7	0.05	99.2	0.34
24-Jan-24	1252 Westerne Hts	0	0	0	0	7		0.41				0.39
24-Jan-24	1260 Westerne Hts	0	0	0	0	8	6.90	0.39	45.1	0.04	95.7	0.32
31-Jan-24	1252 Westerne Hts	0	0	0	0	n/a	7.33	0.37	44.7	0.04	94.8	0.40
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

**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-Feb-24	1263 Westerne Hts	0	0	0	0	7	6.94	0.49	46.7	0.05	99	0.19
14-Feb-24	1260 Westerne Hts	0	0	0	0	8	6.75	0.67	45.3	0.04	96.0	0.29
21-Feb-24	1252 Westerne Hts	0	0	0	0	8	6.94	0.31	44.1	0.04	93.6	0.40
28-Feb-24	1252 Westerne Hts	0	0	0	0	8	7.31	0.64	45.9	0.05	97.6	0.22
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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4-Mar-24	1263 Westerne Hts	0	0	0	0	7	7.25	0.47	45.0	0.04	95.5	0.15
19-Mar-24	1263 Westerne Hts	0	0	0	0	8	7.04	0.50	44.2	0.04	93.6	0.37
26-Mar-24	1260 Westerne Hts	0	0	0	0	9	7.51	0.38	34.0	0.03	73.0	0.37
26-Mar-24	1252 Westerne Hts	0	0	0	0	9	n/a	0.42	n/a	n/a	n/a	0.35
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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9-Apr-24	1263 Westerne Hts	0	0	0	0	10	6.84	0.41	44.5	0.04	94.6	0.30
16-Apr-24	1260 Westerne Hts	0	0	0	0	9	6.97	0.50	45.5	0.04	96.8	0.29
24-Apr-24	1252 Westerne Hts	0	0	0	0	12	6.67	0.49	44.7	0.04	94.8	0.38
29-Apr-24	1260 Westerne Hts	0	0	0	0	10	6.99	0.48	44.6	0.04	94.6	0.27
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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8-May-24	1263 Westerne Hts	0	0	0	0	12	6.78	0.51	44.8	0.04	95.0	0.32
14-May-24	1260 Westerne Hts	0	0	0	0	9	6.70	0.45	45.0	0.04	95.5	0.59
21-May-24	1252 Westerne Hts	0	0	0	0	15	6.75	0.46	36.7	0.04	76.9	0.23
28-May-24	1252 Westerne Hts	0	0	0	0	14	7.04	0.55	45.3	0.04	96.1	0.25
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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5-Jun-24	1263 Westerne Hts	0	0	0	0	15	7.11	0.59	45.5	0.04	96.2	0.22
17-Jun-24	1252 Westerne Hts	0	0	0	0	14	6.54	0.56	45.5	0.04	96.5	0.18
17-Jun-24	1260 Westerne Hts	0	0	0	0	14	6.57	0.55	46.1	0.04	95.9	0.22
26-Jun-24	1252 Westerne Hts	0	0	0	0	12	7.41	0.59	45.6	0.04	96.7	0.33
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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2-Jul-24	1263 Westerne Hts	0	0	0	0	16	6.85	0.50	97.7	0.05	97.5	0.27
9-Jul-24	1260 Westerne Hts	0	0	0	0	11	7.07	0.49	45.6	0.04	96.8	0.17
16-Jul-24	1252 Westerne Hts	0	0	0	0	18	7.54	0.63	46.6	0.05	98.3	0.26
23-Jul-24	1252 Westerne Hts	0	0	0	0	22	7.30	0.53	46.5	0.05	98.6	0.38
31-Jul-24	1260 Westerne Hts			0	0	19	7.40	0.45	45.8	0.04	96.9	0.33
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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7-Aug-24	1263 Westerne Hts	0	0	0	0	22	7.14	0.49	46.7	0.05	99.0	0.39
13-Aug-24	1260 Westerne Hts	0	0	0	0	14	6.68	0.52	46.1	0.05	97.7	0.36
20-Aug-24	1252 Westerne Hts	0	0	0	0	20	7.54	0.50	45.0	0.04	95.9	0.63
28-Aug-24	1252 Westerne Hts	0	0	0	0	19	7.32	0.52	46.2	0.05	98.0	0.24
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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4-Sep-24	1263 Westerne hts	0	0	0	0	19	6.91	0.55	46.5	0.05	98.5	0.22
11-Sep-24	1260 Weturne Hts	0	0	0	0	10	7.09	0.59	44.7	0.04	94.7	0.20
16-Sep-24	1252 Westerne Hts	0	0	0	0	17	6.70	0.52	46.1	0.05	97.8	0.18
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