



Regional District of Nanaimo - Water Services Department

Westurne Heights Water Analysis - 2021 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)
07-Dec-21	1263 Westurne			0	0	7	7.09	0.49	60.9	0.06	127.7	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
07-Dec-21	1260 Westurne			0	0	8	7.18	0.52	43.3	0.04	91.8		
14-Dec-21	1252 Westurne			0	0	8	7.19	0.48	42.8	0.04	91.0		
14-Dec-21	1260 Westurne			0	0	8	7.18	0.48	44.1	0.04	91.2		
20-Dec-21	1260 Westurne			0	0	5	7.30	0.60	42.8	0.04	90.9		
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

Legend:

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

Green font indicates a value flagged for operational considerations

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.

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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01-Nov-21	1263 Westurne	0	0	0	0	9	7.51	0.44	44.6	0.04	94.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
08-Nov-21	1260 Westurne	0	0	0	0	9	7.63	0.42	44.7	0.04	95.0		
15-Nov-21	1252 Westurne			0	0	9	7.33	0.42	44.4	0.04	94.2		
22-Nov-21	1252 Westurne			0	0	7	7.48	0.45	43.6	0.04	92.6		
29-Nov-21	1260 Westurne			0	0	9	6.93	0.40	44.3	0.04	101.6		
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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05-Oct-21	1263 Westurne	0	0	0	0	12	7.47	0.62	46.2	0.05	98.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
13-Oct-21	1252 Westurne	0	0	0	0	12	7.54	0.39	48.0	0.05	101.7		
18-Oct-21	1260 Westurne	0	0	0	0	9	7.39	0.44	45.6	0.04	96.8		
25-Oct-21	1260 Westurne	0	0	0	0	9	7.35	0.49	45.8	0.04	96.7		
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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07-Sep-21	1263 Westurne	0	0	0	0	15	7.59	0.68	49.1	0.05	104.4	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
13-Sep-21	1260 Westurne	0	0	0	0	9	7.55	0.53	48.1	0.05	102.2		
20-Sep-21	1252 Westurne	0	0	0	0	13	7.49	0.70	46.7	0.05	99.0		
27-Sep-21	1260 Westurne	0	0	0	0	14	7.55	0.51	47.3	0.05	100.3		
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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03-Aug-21	1263 Westurne	0	0	0	0		7.31	0.69	45.3	0.04	96.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights	
11-Aug-21	1252 Westurne	0	0	0	0	17	7.30	0.62	46.1	0.04	96.7		
11-Aug-21	1260 Westurne	0	0	0	0	10	7.31	0.58	45.6	0.04	97.8		
16-Aug-21	1260 Westurne	0	0	0	0	10	7.35	0.54	45.3	0.04	96.1		
23-Aug-21	1260 Westurne			0	0	10	7.45	0.63	46.1	0.05	97.8		
30-Aug-21	1263 Westurne			0	0	17	7.55	0.62	47.6	0.05	101.2		
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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06-Jul-21	1263 Westurne	0	0	0	0	18	7.25	0.51	45.6	0.04	96.7	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights	
12-Jul-21	1252 Westurne	0	0	0	0	15	7.30	0.47	45.7	0.04	95.8		
19-Jul-21	1260 Westurne	0	0	0	0	19	7.30	0.66	45.3	0.04	97.1		
27-Jul-21	1260 Westurne	0	0	0	0	19	7.43	0.63	47.6	0.05	100.8		
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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01-Jun-21	1263 Westurne	0	0	0	0	11	7.36	0.66	44.2	0.04	92.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
07-Jun-21	1252 Westurne	0	0	0	0	12	7.43	0.64	44.4	0.04	94.3		
14-Jun-21	1260 Westurne	0	0	0	0	9	7.39	0.61	44.0	0.04	93.1		
21-Jun-21	1263 Westurne	0	0	0	0	15	7.38	0.54	44.7	0.04	94.7		
29-Jun-21	1260 Westurne	0	0	0	0	18	7.40	0.64	43.9	0.04	92.8		
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03-May-21	1263 Westurne	0	0	0	0	10	7.20	0.58	43.1	0.04	91.3	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
10-May-21	1252 Westurne	0	0	0	0	9	7.26	0.55	43.8	0.04	92.8		
17-May-21	1260 Westurne	0	0	0	0	9	7.14	0.53	43.4	0.04	92.0		
25-May-21	1252 Westurne	0	0	0	0	12	7.15	0.58	44.9	0.04	93.7		
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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06-Apr-21	1263 Westurne	0	0	0	0	8	7.34	0.51	42.4	0.04	90.1	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
12-Apr-21	1252 Westurne	0	0	0	0	8	7.22	0.42	43.0	0.04	91.2		
19-Apr-21	1260 Westurne	0	0	0	0	9	7.26	0.49	42.9	0.04	91.0		
26-Apr-21	1252 Westurne	0	0	0	0	9	7.31	0.59	43.3	0.04	91.9		
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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)
06-Jan-21	1263 Westurne	0	0	0	0	7	6.99	0.48	43.0	0.04	91.5	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
11-Jan-21	1252 Westurne	0	0	0	0	7	6.86	0.45	42.9	0.04	90.9		
18-Jan-21	1263 Westurne	0	0	0	0	6	7.01	0.57	43.1	0.04	91.5		
27-Jan-21	1260 Westurne	0	0	0	0	8	7.42	0.44	43.0	0.04	91.3		
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

Legend:

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

Green font indicates a value flagged for operational considerations

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.

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.