REGIONAL DISTRICT OF NANAIMO

Westurne Heights Distribution Water Analysis
1252 Westurne Heights

CDWG=Canadian Drinking Water Guidelines MAC=Maximum Acceptable Concentration

OG= Operational Guidance Value AO= Asthetic Objective.

Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

	Units	CDWG		May 8 2017	May 7 2018	May 13 2019	May 25 2020	May 6 2021	May 19 2022	May 25 2023	May 9 2024
Miscellaneous Inorganics											
Fluoride	mg/L	1.5	MAC	0.03	0.031	0.026	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO)	mg/L			42.7	39.9	45.1	42	44	40	41	42
Anions											
Dissolved Sulphate	mg/L	500	AO	1.91	2.7	3.2	1.9	1.7	2.2	1.7	1.6
Dissolved Chloride	mg/L	250	AO	2.6	2.8	3.3	2.7	2.9	3.4	2.6	3.5
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Miscellaneous											
Apparent Colour	Colour Unit			10	5	<2	10	10	<5	<5	<2
Nutrients											
Total Ammonia	mg/L			0.095	0.35	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Physical Properties											
Conductivity	µS/cm			93.3	93	95.2	93	94	90	97	98
pH	pH	7.0:10.5	AO	7.8	7.74	7.41	7.65	7.57	7.31	7.19	7.24
TDS	mg/L	500	AO	62	56	68	58	68	56	54	64
Turbidity	NTU			0.13	0.18	0.2	0.23	0.64	0.29	0.13	0.16
Microbiological Parameters											
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0
Calculated Parameters											
Total Hardness (CaCO)	mg/L			45.1	38.9	40.5	39.5	39.9	37.4	40.3	38.6
Nitrate	mg/L	10	MAC	0.113	0.116	0.105	0.1	0.101	0.119	0.139	0.136
Elements											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	0.0000029	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Total Metals											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	<0.003	<0.003	0.0059	<0.003	<0.003	<0.003
Total Antimony	mg/L	0.006	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Arsenic	mg/L	0.01	MAC	<0.0001	<0.0001	<0.0001	0.00011	0.00021	<0.0001	0.0001	<0.0001
Total Barium	mg/L	1	MAC	0.0015	0.0012	0.0013	0.0013	0.0015	0.0015	0.0014	0.0012
Total Beryllium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Bismuth	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Boron	mg/L	5	MAC	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Cadmium	mg/L	0.005	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Cobalt	mg/L			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00863	0.00424	0.00348	0.00459	0.00685	0.00411	0.00389	0.00589
Total Iron	mg/L	0.3	AO	0.0867	0.0879	0.0993	0.184	**0.584**	0.109	0.0867	0.0739
Total Lead	mg/L	0.01	MAC	0.00134	<0.0002	<0.0002	<0.0002	0.00024	<0.0002	<0.0002	0.00045
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0035	0.0028	0.0031	0.0038	0.0049	0.0029	0.0027	0.004
Total Molybdenum	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Nickel	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Selenium	mg/L	0.05	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			9.03	7.62	7.19	7.45	7.69	8.04	7.4	7.41
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.0267	0.0262	0.0246	0.0261	0.0268	0.0241	0.0258	0.0232
Total Thallium	mg/L			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Tin	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Titanium	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Uranium	mg/L	0.02	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Vanadium	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zinc	mg/L	5	AO	0.0185	0.0152	0.011	0.0169	0.0134	0.0117	0.0108	0.0117
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00001	<0.0001
Total Calcium	mg/L			12.4	10.9	11.3	10.9	10.8	10.2	10.9	10.6
Total Magnesium	mg/L			3.42	2.87	2.99	2.99	3.15	2.86	3.16	2.97
Total Potassium	mg/L			0.22	0.171	0.181	0.182	0.198	0.176	0.177	0.175
Total Sodium	mg/L	200	AO	3.91	3.49	3.99	3.4	3.84	3.51	3.95	3.89
Total Sulphur	mg/L			<3.0	<3.0	<3	<3	<3	<3	<3	<3