

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
AO= Aesthetic 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 10 2017	May 2 2018 <sup>M</sup>	May 15 2019	May 14 2020 <sup>°</sup>	May 27 2021 <sup>°</sup>	May 27 2022 <sup>°</sup>	May 18 2023 <sup>°</sup>	May 16 2024
<b>Miscellaneous Inorganics</b>											
Fluoride	mg/L	1.5	MAC	0.093	0.06	0.063	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO )	mg/L			158	146	112	35	46	35	30	36
<b>Anions</b>											
Dissolved Sulphate	mg/L	500	AO	12.4	8.8	13.7	1.6	2.1	1.6	1.4	<1
Dissolved Chloride	mg/L	250	AO	8.8	22	17	5.8	9.4	5.6	3.7	7.1
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>											
Apparent Colour	Colour Unit			30	5	10	5	10	<5	<5	<4
<b>Nutrients</b>											
Total Ammonia	mg/L			0.1	<0.020	<0.015	0.051	<0.015	<0.015	<0.015	<0.015
<b>Physical Properties</b>											
Conductivity	µS/cm			336	373	294	89	130	84	78	100
pH	pH	7.0:10.5	AO	8.37	8.02	7.93	7.35	7.9	7.75	7.31	7.74
TDS	mg/L	500	AO	186	188	168	40	82	76	44	70
Turbidity	NTU			0.61	0.28	0.48	0.11	<0.1	<0.1	<0.1	0.11
<b>Microbiological Parameters</b>											
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
<b>Calculated Parameters</b>											
Total Hardness (CaCO )	mg/L			128	153	102	21.1	31.6	20	16.2	23.4
Nitrate	mg/L	10	MAC	0.057	1.83	0.192	0.074	0.377	0.09	<0.02	<0.02
<b>Elements</b>											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000035
<b>Total Metals</b>											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	0.059	0.031	0.015	0.0159	0.0227	0.0137
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	0.00292	0.00184	0.00179	0.00037	0.00067	0.00041	0.0002	0.00028
Total Barium	mg/L	1	MAC	0.0155	0.0146	0.012	0.0027	0.0044	0.0033	0.0029	0.0036
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	0.00733	0.0102	0.0115	0.00141	0.00209	0.00208	0.00215	0.00287
Total Iron	mg/L	0.3	AO	0.0092	0.0082	0.0134	<0.005	0.0099	<0.005	0.0093	0.0053
Total Lead	mg/L	0.01	MAC	<0.0002	0.00028	0.00029	<0.0002	<0.0002	<0.0002	0.00033	0.00028
Total Manganese	mg/L	0.02 0.12	AO MAC	<b>0.0775</b>	0.011	<b>0.0462</b>	<0.001	0.0018	0.001	0.0014	0.0019
Total Molybdenum	mg/L			0.0011	<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	0.00015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			10.9	10.1	7.12	2.22	2.53	2.17	1.74	2.28
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.111	0.112	0.0947	0.0241	0.0345	0.0215	0.0192	0.0293
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	0.00021	0.00019	0.00013	<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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			32.7	37.3	27	6.96	9.97	6.45	5.52	7.84
Total Magnesium	mg/L			11.4	14.5	8.33	0.915	1.63	0.944	0.591	0.932
Total Potassium	mg/L			1.42	0.993	0.9	0.152	0.224	0.159	0.096	0.137
Total Sodium	mg/L	200	AO	19.6	17.2	16.2	10.5	13.2	9.26	9.31	11.4
Total Sulphur	mg/L			4.6	<3.0	4.6	<3	<3.0	<3	<3.0	<3

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I= Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	<b>Health Basis of MAC:</b> Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. <b>Other:</b> Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.

## Nanose Bay Peninsula Distribution (Tap) Water Analysis 1961 Harlequin Crescent (~Lot 51 Swallow Crescent) (°Bulk Water online; <sup>M</sup>Parksville water online)

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	Units	CDWG		May 10 2017~	May 2 2018~ <sup>M</sup>	May 15 2019	May 14 2020	May 27 2021	May 27 2022	May 25 2023	May 16 2024
<b>Miscellaneous Inorganics</b>											
Fluoride	mg/L	1.5	MAC	0.32	0.17	0.094	0.079	0.073	<0.05	0.05	0.057
Alkalinity (total as CaCO )	mg/L			148	145	101	79	87	51	30	89
<b>Anions</b>											
Dissolved Sulphate	mg/L	500	AO	10.6	10.6	8.9	6.1	5.4	3.1	1.6	6.1
Dissolved Chloride	mg/L	250	AO	35	37	29	23	27	13	4.7	29
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.05	<0.05
<b>Miscellaneous</b>											
Apparent Colour	Colour Unit			10	5	10	5	10	<5	<5	2.1
<b>Nutrients</b>											
Total Ammonia	mg/L			0.18	0.022	<0.015	0.024	<0.015	<0.015	<0.015	<0.015
<b>Physical Properties</b>											
Conductivity	µS/cm			416	424	312	240	270	270	82	290
pH	pH	7.0:10.5	AO	8.25	8.09	7.89	7.87	8.08	8.1	7.3	7.9
TDS	mg/L	500	AO	230	212	166	130	150	170	42	170
Turbidity	NTU			0.15	0.12	0.29	0.12	0.11	0.14	0.18	0.15
<b>Microbiological Parameters</b>											
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
<b>Calculated Parameters</b>											
Total Hardness (CaCO )	mg/L			112	117	83.7	64.9	71	71.6	17.9	77.6
Nitrate	mg/L	10	MAC	<0.020	<0.020	0.033	<0.02	<0.02	<0.02	<0.02	<0.02
<b>Elements</b>											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000023
<b>Total Metals</b>											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	0.003	0.0178	0.0079	0.007	0.0293	0.0043
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	0.001	0.00124	0.0011	0.00056	0.00084	0.0006	0.00017	0.00056
Total Barium	mg/L	1	MAC	0.018	0.0074	0.0063	0.0042	0.0047	0.0047	0.0016	0.0052
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	0.106	0.07	<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	0.00121	0.00162	0.00271	0.00131	0.00307	0.0021	0.00156	0.00389
Total Iron	mg/L	0.3	AO	0.0319	0.0171	0.0201	0.0169	0.0238	0.0323	0.0132	0.0246
Total Lead	mg/L	0.005	MAC	<0.0002	<0.0002	<0.0002	<0.0002	0.00055	0.00027	<0.0002	0.00026
Total Manganese	mg/L	0.02 0.12	AO MAC	<b>0.02</b>	0.0085	0.0052	0.0036	0.0041	0.0063	0.0011	0.0059
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			14	14.1	9.56	8.26	8.55	8.83	2.02	8.5
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.171	0.127	0.0895	0.0723	0.075	0.0722	0.0227	0.0778
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	0.0066	0.008	0.0142	0.0084	0.0175	0.0243	<0.005	0.0189
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			28.6	29.3	21.7	17.2	18.4	18.5	6.01	19.9
Total Magnesium	mg/L			9.92	10.8	7.18	5.35	6.12	6.18	0.692	6.76
Total Potassium	mg/L			2.58	2.57	1.57	1.35	1.43	1.42	0.118	1.39
Total Sodium	mg/L	200	AO	38.3	38.8	26	23.3	26	27.5	9.58	28.9
Total Sulphur	mg/L			3.5	3.3	3.1	<3	<3	<3	<3	3.6

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I= Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	<b>Health Basis of MAC:</b> Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. <b>Other:</b> Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.

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	Units	CDWG		May 10 2017	May 2 2018 <sup>M</sup>	May 23 2019	May 14 2020	May 27 2021	May 27 2022	May 23 2023	May 16 2024
<b>Miscellaneous Inorganics</b>											
Fluoride	mg/L	1.5	MAC	0.2	0.098	0.026	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO )	mg/L			148	129	44.2	39	34	32	46	35
<b>Anions</b>											
Dissolved Sulphate	mg/L	500	AO	9.83	7.6	3.9	2.1	1	1.4	1.4	<1.0
Dissolved Chloride	mg/L	250	AO	37	31	11	8.3	7.6	5.6	4.1	7.2
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>											
Apparent Colour	Colour Unit			10	5	5	10	10	<5	<5	2.6
<b>Nutrients</b>											
Total Ammonia	mg/L			0.1	<0.020	<0.015	0.38	<0.015	<0.015	<0.015	<0.015
<b>Physical Properties</b>											
Conductivity	µS/cm			413	387	128	100	93	76	77	100
pH	pH	7.0:10.5	AO	8.27	8.12	7.63	7.69	7.69	7.71	7.25	7.85
TDS	mg/L	500	AO	232	226	77	48	70	52	46	66
Turbidity	NTU			0.13	0.38	0.34	<0.1	<0.1	0.1	<0.1	<0.1
<b>Microbiological Parameters</b>											
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
<b>Calculated Parameters</b>											
Total Hardness (CaCO )	mg/L			117	136	41.9	25.4	21.6	17.5	16.2	23.3
Nitrate	mg/L	10	MAC	<0.020	<0.020	0.026	<0.02	<0.02	<0.02	<0.02	<0.02
<b>Elements</b>											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000024
<b>Total Metals</b>											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	0.009	0.0551	0.0199	0.0203	0.0257	0.016
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	0.00124	0.00115	0.00044	0.00034	0.00015	0.00016	0.00012	0.00013
Total Barium	mg/L	1	MAC	0.0089	0.0096	0.0073	0.0023	0.0034	0.0027	0.0025	0.0031
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	0.076	<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	0.00119	0.00159	0.00267	0.00075	0.00112	0.00114	0.00126	0.00105
Total Iron	mg/L	0.3	AO	0.0475	0.0322	0.026	0.0086	0.0116	0.0143	0.0098	0.0056
Total Lead	mg/L	0.01	MAC	<0.0002	<0.0002	0.00029	<0.0002	0.00044	0.00163	0.00107	0.00071
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0094	0.0086	0.008	<0.001	<0.001	<0.001	0.0012	0.0013
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			14.1	12.3	3.9	3.03	1.96	2.19	1.75	2.21
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.129	0.122	0.0481	0.0302	0.0262	0.0219	0.0212	0.0286
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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			29.1	32.4	11.9	7.82	7.26	5.66	5.59	7.9
Total Magnesium	mg/L			10.7	13.3	2.99	1.42	0.842	0.825	0.544	0.857
Total Potassium	mg/L			2.54	1.6	0.344	0.3	0.095	0.123	0.083	0.111
Total Sodium	mg/L	200	AO	39	23.9	6.4	11.8	10.1	8.92	9.18	11.7
Total Sulphur	mg/L			3.6	<3.0	<3	<3	<3	<3	<3.0	<3

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I= Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	<b>Health Basis of MAC:</b> Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. <b>Other:</b> Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.

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 10 2017	May 2 2018 <sup>M</sup>	May 15 2019	May 14 2020	May 27 2021	May 27 2022	May 18 2023	May 16 2024
<b>Miscellaneous Inorganics</b>											
Fluoride	mg/L	1.5	MAC	0.19	0.15	0.048	<0.05	<0.05	<0.05	0.15	<0.05
Alkalinity (total as CaCO )	mg/L			153	147	57.4	55	60	51	140	66
<b>Anions</b>											
Dissolved Sulphate	mg/L	500	AO	10.2	10.5	5.1	3.5	3	3.1	11	3.6
Dissolved Chloride	mg/L	250	AO	39	37	13	13	17	13	49	18
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>											
Apparent Colour	Colour Unit			10	10	10	10	5	<5	<5	8.8
<b>Nutrients</b>											
Total Ammonia	mg/L			0.094	<0.020	<0.015	0.028	<0.015	<0.015	<0.015	<0.015
<b>Physical Properties</b>											
Conductivity	µS/cm			431	418	162	150	180	140	440	200
pH	pH	7.0:10.5	AO	8.3	8.11	7.68	7.87	7.98	7.93	8.17	7.86
TDS	mg/L	500	AO	240	238	78	82	110	72	260	120
Turbidity	NTU			0.24	0.27	0.23	0.39	0.12	0.13	0.25	0.13
<b>Microbiological Parameters</b>											
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
<b>Calculated Parameters</b>											
Total Hardness (CaCO )	mg/L			117	128	55.2	39.9	44.8	34.3	120	52.2
Nitrate	mg/L	10	MAC	<0.020	0.151	0.054	<0.05	<0.05	<0.05	<0.05	<0.05
<b>Elements</b>											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000021
<b>Total Metals</b>											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	0.0068	0.0336	0.0122	0.0138	0.0037	0.008
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	0.00109	0.00122	0.00059	0.00041	0.00047	0.00036	0.00097	0.00035
Total Barium	mg/L	1	MAC	0.0082	0.0068	0.005	0.0028	0.0034	0.0027	0.0059	0.0044
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	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Total Boron	mg/L	5	MAC	0.074	0.058	<0.05	<0.05	<0.05	<0.05	0.06	<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	0.00124	0.00136	0.00267	0.00095	0.00167	0.0023	0.00413	0.00244
Total Iron	mg/L	0.3	AO	0.0672	0.0692	0.023	0.0369	0.0269	0.0307	0.09	0.0331
Total Lead	mg/L	0.01	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00038	0.00031
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0098	0.014	0.0066	0.0029	0.0029	0.0043	0.0274	0.0075
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			14.6	13.4	5.05	4.93	4.96	4.55	15.6	5.46
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.131	0.127	0.0565	0.0446	0.0495	0.0348	0.0117	0.0554
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	<0.00001
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	0.0079	0.0088	0.0103	<0.005	0.0061	<0.005	<0.005	0.0068
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			30.5	33.2	16.4	12.1	13.4	10.1	30.3	15.4
Total Magnesium	mg/L			9.87	10.9	3.5	2.35	2.77	2.21	10.7	3.34
Total Potassium	mg/L			2.7	2.55	0.665	0.729	0.737	0.65	2.66	0.835
Total Sodium	mg/L	200	AO	41.2	36.6	9.68	15.6	17.1	14.5	42.1	20.4
Total Sulphur	mg/L			3.5	3.5	<3	<3	<3	<3	3.4	<3

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I= Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	<b>Health Basis of MAC:</b> Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. <b>Other:</b> Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.

CDWG=Canadian Drinking Water Guidelines

MAC=Maximum Acceptable Concentration

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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 10 2017	May 2 2018 <sup>M</sup>	May 15 2019	May 14 2020	May 27 2021	May 27 2022	May 18 2023	May 16 2024
<b>Miscellaneous Inorganics</b>											
Fluoride	mg/L	1.5	MAC	0.31	0.22	0.093	0.075	0.079	0.088	0.11	0.062
Alkalinity (total as CaCO )	mg/L			148	133	90.8	77	92	91	100	91
<b>Anions</b>											
Dissolved Sulphate	mg/L	500	AO	10.5	9.2	9.3	5.8	5.5	7.6	8.2	6.3
Dissolved Chloride	mg/L	250	AO	35	34	27	22	28	29	35	29
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>											
Apparent Colour	Colour Unit			10	5	10	5	5	<5	<5	2.6
<b>Nutrients</b>											
Total Ammonia	mg/L			0.13	0.04	<0.015	0.018	<0.015	<0.015	<0.015	<0.015
<b>Physical Properties</b>											
Conductivity	µS/cm			414	408	289	230	290	280	330	300
pH	pH	7.0:10.5	AO	8.25	8.16	7.75	7.99	8.11	8.11	8.06	7.91
TDS	mg/L	500	AO	230	196	162	130	180	150	180	170
Turbidity	NTU			0.25	0.27	0.39	<0.1	0.17	<0.1	0.18	0.13
<b>Microbiological Parameters</b>											
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
<b>Calculated Parameters</b>											
Total Hardness (CaCO )	mg/L			113	123	83.6	62.8	74.8	74.3	87.8	82.9
Nitrate	mg/L	10	MAC	<0.020	0.642	0.026	<0.02	<0.02	<0.02	<0.02	<0.02
<b>Elements</b>											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.000019	0.0000021
<b>Total Metals</b>											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	0.0061	0.02	0.0077	0.0086	0.0071	0.0054
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	0.0011	0.0011	0.00085	0.00052	0.00089	0.00063	0.00071	0.00059
Total Barium	mg/L	1	MAC	0.0236	0.0105	0.0055	0.0033	0.0042	0.0042	0.0045	0.0048
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	0.101	0.073	<0.05	<0.05	<0.05	<0.05	<0.005	<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	0.00216	0.00349	0.00359	0.00166	0.00135	0.00204	0.00161	0.00245
Total Iron	mg/L	0.3	AO	0.113	0.0394	0.035	0.0144	0.0239	0.0271	0.0502	0.0285
Total Lead	mg/L	0.01	MAC	<0.0002	0.00061	0.00047	<0.0002	0.00039	0.00041	0.00035	0.00029
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0224	0.0214	0.0107	0.0036	0.0053	0.0079	0.0127	0.0092
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			14.4	12.7	9.38	8.06	9.14	8.88	11.2	8.96
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.175	0.146	0.0847	0.0693	0.0788	0.0726	0.0867	0.079
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	0.007	0.0208	0.0188	0.0071	0.0119	0.0107	0.01	0.0096
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			28.7	30.8	21.9	16.6	19.5	19.1	22.9	21.6
Total Magnesium	mg/L			10.2	11.2	7.05	5.15	6.35	6.46	7.45	7.05
Total Potassium	mg/L			2.67	2.13	1.56	1.27	1.51	1.45	1.82	1.45
Total Sodium	mg/L	200	AO	39.4	32.9	25.8	22.6	26.9	28.7	31.6	29.5
Total Sulphur	mg/L			3.7	3.2	<3	<3	<3	<3	<3	3.2

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I= Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	<b>Health Basis of MAC:</b> Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. <b>Other:</b> Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.

CDWG=Canadian Drinking Water Guidelines

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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 10 2017	May 2 2018 <sup>M</sup>	May 15 2019	May 14 2020	May 27 2021	May 27 2022	May 18 2023	May 16 2024
<b>Miscellaneous Inorganics</b>											
Fluoride	mg/L	1.5	MAC	0.32	0.18	0.098	0.074	0.08	0.085	0.11	0.065
Alkalinity (total as CaCO <sub>3</sub> )	mg/L			147	145	96.8	76	96	87	100	92
<b>Anions</b>											
Dissolved Sulphate	mg/L	500	AO	10.4	9.4	8	5.7	5.6	6.3	8.2	6.3
Dissolved Chloride	mg/L	250	AO	36	39	27	21	28	27	35	29
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>											
Apparent Colour	Colour Unit			10	5	5	5	<5	<5	<5	3.5
<b>Nutrients</b>											
Total Ammonia	mg/L			0.17	<0.020	<0.015	0.023	<0.015	<0.0015	<0.015	<0.015
<b>Physical Properties</b>											
Conductivity	µS/cm			413	422	293	230	290	270	330	300
pH	pH	7.0:10.5	AO	8.3	8.21	7.89	7.97	8.13	8.11	8.07	7.88
TDS	mg/L	500	AO	234	256	160	130	190	140	180	170
Turbidity	NTU			<0.10	0.1	0.3	0.12	<0.1	0.11	0.25	0.12
<b>Microbiological Parameters</b>											
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
<b>Calculated Parameters</b>											
Total Hardness (CaCO <sub>3</sub> )	mg/L			115	118	77.9	61.3	74.7	69.9	85.3	78.9
Nitrate	mg/L	10	MAC	<0.020	0.119	0.029	<0.02	<0.02	<0.02	<0.02	<0.02
<b>Elements</b>											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000053
<b>Total Metals</b>											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	0.0044	0.0224	0.0078	0.0093	0.0158	0.0062
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	0.00107	0.00124	0.0009	0.00051	0.0009	0.00062	0.0071	0.0006
Total Barium	mg/L	1	MAC	0.0227	0.006	0.0056	0.0032	0.0042	0.0038	0.0046	0.0047
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	0.105	0.071	<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	0.00107	0.0012	0.00257	0.00135	0.00187	0.00252	0.00186	0.0023
Total Iron	mg/L	0.3	AO	0.0299	0.0241	0.0341	0.0142	0.0276	0.0255	0.0422	0.0358
Total Lead	mg/L	0.01	MAC	<0.0002	<0.0002	0.00023	0.0003	0.0005	0.0012	0.00449	0.0014
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0057	0.0067	0.0111	0.0035	0.0062	0.0072	0.0135	0.0115
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			14	13.4	8.84	7.71	9.06	8.46	10.6	8.57
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.18	0.131	0.0873	0.0681	0.0773	0.0686	0.0877	0.0796
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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00014
Total Calcium	mg/L			29.1	29.1	20.4	16.3	19.2	18.1	21.5	20.5
Total Magnesium	mg/L			10.3	10.9	6.55	5.03	6.47	6.02	7.67	6.74
Total Potassium	mg/L			2.65	2.48	1.51	1.25	1.55	1.35	1.81	1.41
Total Sodium	mg/L	200	AO	40.6	38.2	23.9	22.3	26.8	26.9	30.4	28.3
Total Sulphur	mg/L			3.7	3.3	<3	<3	<3	<3	<3	<3

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I= Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	<b>Health Basis of MAC:</b> Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. <b>Other:</b> Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.

**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 10 2017	May 2 2018 <sup>M</sup>	May 15 2019 <sup>°</sup>	May 14 2020	May 27 2021	May 27 2022	May 18 2023	May 16 2024
<b>Miscellaneous Inorganics</b>											
Fluoride	mg/L	1.5	MAC	0.33	0.24	0.089	0.084	0.08	0.084	0.092	<0.05
Alkalinity (total as CaCO )	mg/L			150	141	88.7	83	96	88	94	77
<b>Anions</b>											
Dissolved Sulphate	mg/L	500	AO	10.4	10.3	8	6.4	5.6	6.4	7.1	4.9
Dissolved Chloride	mg/L	250	AO	36	32	25	24	28	28	30	24
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>											
Apparent Colour	Colour Unit			10	10	5	5	<5	<5	<5	<2
<b>Nutrients</b>											
Total Ammonia	mg/L			0.16	<0.020	<0.015	0.081	<0.015	<0.015	<0.015	<0.015
<b>Physical Properties</b>											
Conductivity	µS/cm			412	396	260	260	240	270	290	250
pH	pH	7.0:10.5	AO	8.28	7.95	7.83	8.03	8.05	8.1	7.99	7.89
TDS	mg/L	500	AO	234	176	152	160	140	160	170	140
Turbidity	NTU			0.17	0.13	0.43	<0.1	<0.1	0.1	0.24	<0.1
<b>Microbiological Parameters</b>											
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
<b>Calculated Parameters</b>											
Total Hardness (CaCO )	mg/L			112	128	72.9	69	61.3	71.1	76.1	65.9
Nitrate	mg/L	10	MAC	<0.020	0.501	0.035	0.036	<0.02	<0.02	<0.02	<0.02
<b>Elements</b>											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000064
<b>Total Metals</b>											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	0.0067	0.0311	0.009	0.0092	0.0077	0.0049
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	0.00151	0.00096	0.00095	0.00118	0.00077	0.00068	0.00057	0.00051
Total Barium	mg/L	1	MAC	0.022	0.0177	0.0052	0.0039	0.0034	0.004	0.0054	0.0039
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	0.104	0.071	<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	<0.001	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00001	<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	0.00358	0.0026	0.00351	0.00133	0.00211	0.00292	0.00351	0.0031
Total Iron	mg/L	0.3	AO	0.0757	0.0268	0.0259	0.025	0.0154	0.0278	0.0488	0.0125
Total Lead	mg/L	0.01	MAC	<0.0002	<0.0002	<0.0002	<0.0002	0.00036	0.00046	0.00034	0.000052
Total Manganese	mg/L	0.02 0.12	AO MAC	<b>0.0215</b>	0.0055	0.0095	0.0058	0.0029	0.0075	0.0107	0.0044
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			13.5	11.9	7.99	9.03	7.23	8.71	8.98	7.05
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.169	0.152	0.0788	0.075	0.0643	0.0703	0.0816	0.0683
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	0.0105	<0.005	<0.005	<0.005	<0.005	<0.005	0.0127	<0.005
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			28.3	31.1	19	17.9	16.1	18.4	20.7	17.4
Total Magnesium	mg/L			10.1	12.3	6.2	5.9	5.13	6.14	5.9	5.47
Total Potassium	mg/L			2.65	1.85	1.38	1.39	1.14	1.35	1.51	1.16
Total Sodium	mg/L	200	AO	39.8	28.6	20.6	24.1	22.7	27.5	27	25.1
Total Sulphur	mg/L			3.6	3.3	<3	<3	<3	<3	<3	4.2

 Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I= Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	<b>Health Basis of MAC:</b> Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. <b>Other:</b> Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.

## Nanose Bay Peninsula Distribution (Tap) Water Analysis Water Treatment Plant: 2480 Nanose Road Treated Water

CDWG=Canadian Drinking Water Guidelines  
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration  
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 10 2017	May 28 2018	May 27 2019	May 14 2020	May 27 2021	May 30 2022	May 18 2023	May 16 2024
<b>Miscellaneous Inorganics</b>											
Fluoride	mg/L	1.5	MAC	0.16	0.16	0.15	0.16	0.14	0.16	0.15	0.13
Alkalinity (total as CaCO <sub>3</sub> )	mg/L			147	144	142	130	140	140	140	140
<b>Anions</b>											
Dissolved Sulphate	mg/L	500	AO	9.31	11.1	12	11	9.6	11	12	12
Dissolved Chloride	mg/L	250	AO	40	48	53	43	48	53	51	48
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>											
Apparent Colour	Colour Unit			10	<5	<2	5	5	<5	<5	3.9
<b>Nutrients</b>											
Total Ammonia	mg/L			0.2	<0.020	<0.015	0.044	<0.015	<0.015	<0.015	<0.015
<b>Physical Properties</b>											
Conductivity	µS/cm			424	450	453	410	440	470	460	490
pH	pH	6.5:8.5	AO	8.3	8.18	8.03	8.06	8.19	8.18	8.18	7.89
TDS	mg/L	500	AO	238	256	268	230	250	290	270	280
Turbidity	NTU			0.15	0.1	0.21	0.15	0.12	0.16	0.27	0.13
<b>Microbiological Parameters</b>											
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
<b>Calculated Parameters</b>											
Total Hardness (CaCO <sub>3</sub> )	mg/L			117	122	113	118	118	122	122	134
Nitrate	mg/L	10	MAC	<0.020	0.020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
<b>Elements</b>											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.000019	<0.0000019	<0.0000019	<0.0000019	0.0000046
<b>Total Metals</b>											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003		0.003	<0.003	<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
Total Arsenic	mg/L	0.01	MAC	0.0011	0.00124		0.00104	0.00153	0.00109	0.00102	0.00107
Total Barium	mg/L	1	MAC	0.005	0.0045		0.0042	0.0045	0.0046	0.005	0.0052
Total Beryllium	mg/L			<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
Total Boron	mg/L	5	MAC	0.064	0.07		0.065	0.059	0.06	0.067	0.069
Total Cadmium	mg/L	0.005	MAC	<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
Total Cobalt	mg/L			<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00279	0.00277		0.0178	0.00675	0.00681	0.0103	0.00695
Total Iron	mg/L	0.3	AO	0.0733	0.0623	0.078	0.0353	0.065	0.0564	0.113	0.0626
Total Lead	mg/L	0.01	MAC	0.00159	0.00109		0.00036	0.00026	0.00027	0.00026	0.00022
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0163	0.0151	0.0208	0.0102	0.0175	0.0165	0.0352	0.0215
Total Molybdenum	mg/L			<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
Total Selenium	mg/L	0.05	MAC	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			15.2	15.3		15.7	14.9	16.8	15.8	15.8
Total Silver	mg/L			<0.00002	<0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.116	0.126		0.125	0.118	0.122	0.123	0.131
Total Thallium	mg/L			<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
Total Titanium	mg/L			<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
Total Vanadium	mg/L			<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Total Zinc	mg/L	5	AO	<0.005	<0.005		0.0052	<0.005	<0.005	0.0066	<0.005
Total Zirconium	mg/L			<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			29.7	30.3	27.7	29.3	29	30.5	30.3	33.3
Total Magnesium	mg/L			10.3	11.2	10.7	10.8	11.1	11.1	11.2	12.3
Total Potassium	mg/L			2.62	2.83	2.68	2.77	2.64	2.49	2.71	2.6
Total Sodium	mg/L	200	AO	38.3	45.8	45.1	38.5	40.6	44.6	42.8	44.9
Total Sulphur	mg/L			3.2	<3.0	<3.0	4	<3	3.4	3.6	3.7

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I= Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	<b>Health Basis of MAC:</b> Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. <b>Other:</b> Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.