

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 (AO) in the Canadian Drinking Water Guidelines (CDWG)**

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

	Units	CDWG		September 18 2017	October 25 2018	October 3 2019	October 21 2020	October 21 2021	October 13 2022	October 12 2023
<b>Miscellaneous Inorganics</b>										
Fluoride	mg/L	1.5	MAC	0.04	0.036	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO <sub>3</sub> )	mg/L			89.8	92.5	87	99	110	110	83
<b>Anions</b>										
Dissolved Sulphate	mg/L	500	AO	<1.0	<1.0	<1.0	2.3	1.8	1.4	2.5
Dissolved Chloride	mg/L	250	AO	66	57	53	52	55	53	59
Nitrite	mg/L	1	MAC	0.0094	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005
<b>Miscellaneous</b>										
Apparent Colour	Colour Unit			300	100	200	200	200	150	
<b>Nutrients</b>										
Total Ammonia	mg/L			0.23	0.24	0.31	0.3	0.29	0.3	0.2
<b>Physical Properties</b>										
Conductivity	µS/cm			388	371	340	350	370	400	370
pH	pH	7.0:10.5	OG	7.61	7.81	7.6	7.1	7.05	7.38	7.3
TDS	mg/L	500	AO	236	250	220	230	270	270	270
Turbidity	NTU			47	28	16	32	35	13	34
<b>Microbiological Parameters</b>										
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0
<b>Calculated Parameters</b>										
Total Hardness (CaCO <sub>3</sub> )	mg/L			142	135	130	131	135	145	130
Nitrate	mg/L	10	MAC	0.023	<0.020	0.043	0.045	0.037	0.042	0.157
<b>Elements</b>										
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.00002	0.000023	<0.000019	<0.000019	<0.000019	<0.000019
<b>Total Metals</b>										
Total Aluminum	mg/L	0.1	OG	0.0037	0.0044	<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	0.00046	0.00032	0.00034	0.00039	0.00034	0.00039	0.0033
Total Barium	mg/L	1	MAC	0.0329	0.0293	0.0281	0.0293	0.0289	0.034	0.0277
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	<0.050	<0.050	<0.050	<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
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	0.0016	<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	0.00783	0.00126	0.00314	0.00134	0.0124	0.00123	0.0174
Total Iron	mg/L	0.3	AO	16.3	8.59	9.25	9.84	9.24	9.61	9.8
Total Lead	mg/L	0.01	MAC	0.00033	0.00021	<0.0002	0.00026	0.00022	<0.0002	0.00159
Total Manganese	mg/L	0.02 0.12	AO MAC	0.271	0.259	0.254	0.246	0.242	0.263	0.207
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			15.7	14.8	15.2	16.1	15.7	16.7	13.7
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.0705	0.0675	0.0644	0.0657	0.0696	0.0772	0.0617
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	0.0752	0.0272	0.0139	0.006	0.0243	0.0076	0.0508
Total Zirconium	mg/L			0.00015	0.00012	0.00014	0.00017	0.00017	0.00015	0.0001
Total Calcium	mg/L			35.8	34.9	33.9	34.1	35.4	37.6	32.8
Total Magnesium	mg/L			12.8	11.5	10.9	11.2	11.3	12.5	11.8
Total Potassium	mg/L			0.454	0.418	0.433	0.442	0.466	0.471	0.488
Total Sodium	mg/L	200	AO	17.2	17.4	17.9	17.5	17.5	18.4	18.9
Total Sulphur	mg/L			<3.0	<3.0	<3.0	<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.