

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		April 8 2014	Nov 12 2014	May 16 2016	Oct 4 2016	June 20 2017	Nov 29 2018	June 6 2019	May 28 2020
Miscellaneous Inorganics											
Fluoride	mg/L	1.5	MAC	0.21	0.39	0.29	0.29	0.64	0.26	0.39	0.5
Alkalinity (total as CaCO ₃)	mg/L			140	150	147	141	145	136	140	140
Anions											
Dissolved Sulphate	mg/L	500	AO	5.6	6.4	5.79	6.1	6.44	6.2	6.2	5.8
Dissolved Chloride	mg/L	250	AO	14.5	14.2	14	14	15	15	15	17
Nitrite	mg/L	1	MAC	<0.05	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	<0.005
Miscellaneous											
Apparent Colour	Colour Unit			5	5	10	5	5	<5.0	15	5
Nutrients											
Total Ammonia	mg/L			<0.02	<0.02	0.0055	0.01	0.018	<0.020	<0.015	0.11
Physical Properties											
Conductivity	µS/cm			312	335	322	323	333	309	323	320
pH	pH	6.5-8.5	AO	8	8.1	8.34	8.24	8.37	8.15	8.01	7.95
TDS	mg/L	500	AO	186	196	170	200	198	156	176	200
Turbidity	NTU			<0.5	<0.5	<0.10	0.16	0.28	0.22	0.14	0.31
Microbiological Parameters											
E.coli	MPN/100mL	1	MAC	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0	0
Total Coliforms	MPN/100mL	1	MAC	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0	0
Calculated Parameters											
Total Hardness (CaCO ₃)	mg/L			57	51	56	52.2	47.4	54.2	47.8	42.2
Nitrate	mg/L	10	MAC	<0.05	<0.05	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02
Elements											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000002	<0.000002	<0.0000019
Total Metals											
Total Aluminum	mg/L	0.1	OG	<0.025	0.009	0.0037	0.0048	0.0133	<0.003	0.0047	0.0076
Total Antimony	mg/L	0.006	MAC	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Arsenic	mg/L	0.01	MAC	0.00125	0.00116	0.00144	0.00119	0.001	0.00124	0.0011	0.00142
Total Barium	mg/L	1	MAC	<0.00025	0.00065	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Beryllium	mg/L			<0.00025	<0.00005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Bismuth	mg/L			<0.0005	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Boron	mg/L	5	MAC	0.142	0.226	0.208	0.151	0.417	0.131	0.191	0.239
Total Cadmium	mg/L	0.005	MAC	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.0025	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Cobalt	mg/L			<0.0005	<0.0001	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.0023	0.003	0.0105	0.00445	0.00442	0.00788	0.00113	0.00293
Total Iron	mg/L	0.3	AO	<0.010	0.019	0.0121	0.0071	0.0119	<0.005	0.0089	0.0126
Total Lead	mg/L	0.01	MAC	<0.0005	<0.0001	0.00025	<0.0002	0.00023	0.00053	0.00042	0.00037
Total Manganese	mg/L	0.02 0.12	AO MAC	0.025	<0.0010	<0.001	0.0045	0.0015	0.013	0.0085	0.0023
Total Molybdenum	mg/L			0.00135	0.00363	<0.002	0.0018	0.005	0.0015	0.003	0.0029
Total Nickel	mg/L			<0.0010	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Selenium	mg/L	0.05	MAC	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			9.52	8.97	11.1	9.82	9.74	9.55	8.8	8.24
Total Silver	mg/L			<0.00025	<0.00005	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.0589	0.0555	0.0588	0.0576	0.0473	0.0588	0.0516	0.047
Total Thallium	mg/L			<0.00005	<0.00001	<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
Total Tin	mg/L			<0.0005	0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Titanium	mg/L			<0.0025	<0.0005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Uranium	mg/L	0.02	MAC	<0.00005	0.00001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Vanadium	mg/L			<0.0005	0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zinc	mg/L	5	AO	0.0137	0.0071	0.0114	0.0072	0.0067	0.0136	<0.005	0.0118
Total Zirconium	mg/L					<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			17.9	16.4	17.7	16.4	15.5	17	15.1	13.5
Total Magnesium	mg/L			2.87	2.4	2.86	2.71	2.1	2.87	2.44	2.09
Total Potassium	mg/L			<0.5	<0.1	0.146	0.13	0.17	0.129	0.124	0.124
Total Sodium	mg/L	200	AO	54.5	62.1	58.2	52.2	65.8	50.9	52.8	54.8
Total Sulphur	mg/L					<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

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.	Health Basis of MAC: Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. Other: 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.