

CDWG=Canadian Drinking Water Guidelines

AO= Aesthetic Objective

OG= Operational Guidance Value

MAC= Maximum Acceptable Concentration in the CDWG

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

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the CDWG

	Units	CDWG		May 10 2016	May 8 2017	May 7 2018	May 15 2019	May 21 2020	May 6 2021	May 5 2022	May 25 2023
Miscellaneous Inorganics											
Fluoride	mg/L	1.5	MAC	0.087	0.096	0.09	0.087	0.095	0.075	<0.05	0.09
Alkalinity (total as CaCO)	mg/L			133	134	124	128	120	130	120	120
Anions											
Dissolved Sulphate	mg/L	500	AO	7.98	8.52	9.6	8.7	8.3	8.8	1.1	8.1
Dissolved Chloride	mg/L	250	AO	65	70	79	84	93	98	78	95
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005
Miscellaneous											
Apparent Colour	Colour Unit			10	10	10	<2.0	5	10	<5	<5
Nutrients											
Total Ammonia	mg/L			0.0097	0.085	<0.020	<0.015	0.016	<0.015	<0.015	<0.015
Physical Properties											
Conductivity	µS/cm			483	480	503	539	540	560	470	580
pH	pH	7.0:10.5	AO	8.19	8.23	8.17	8.1	8.16	8.13	7.48	8
TDS	mg/L	500	AO	264	316	264	290	310	340	300	340
Turbidity	NTU			0.2	0.16	0.24	0.39	0.25	0.23	<0.1	0.44
Microbiological Parameters											
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	0	0	0	0	0
Calculated Parameters											
Total Hardness (CaCO)	mg/L			173	221	176	189	184	189	142	201
Nitrate	mg/L	10	MAC	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	0.031	<0.02
Elements											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.00001	<0.000002	<0.000002	<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	<0.003	<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	<0.0005
Total Arsenic	mg/L	0.01	MAC	0.00163	0.00192	0.00164	0.0015	0.00164	0.00162	<0.0001	<0.00155
Total Barium	mg/L	1	MAC	0.03	0.0349	0.0305	0.0317	0.0324	0.0339	0.0272	0.0355
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	0.052	0.064	0.064	0.064	0.069	0.074	<0.05	0.085
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			<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00237	0.00616	0.00523	0.00437	0.00311	0.00286	0.00518	0.00337
Total Iron	mg/L	0.3	AO	0.0148	0.0167	0.0117	0.0201	0.0159	0.0151	0.0383	0.0083
Total Lead	mg/L	0.01	MAC	<0.0002	<0.0002	<0.0002	0.00052	0.00024	0.00021	0.00078	0.00022
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0174	0.0084	0.0095	0.0168	0.0106	0.0141	0.0018	0.0284
Total Molybdenum	mg/L			<0.001	0.0012	<0.001	<0.001	<0.001	0.0011	<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			7.4	9.3	7.25	6.94	7.11	7	14.1	7.16
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.359	0.396	0.389	0.348	0.387	0.399	0.0737	0.427
Total Thallium	mg/L			<0.00005	<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	0.00035	0.00039	0.00032	0.00032	0.00034	0.00035	<0.0001	0.00032
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	0.0073	<0.005
Total Zirconium	mg/L			<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			43	56.5	44.7	48.4	47.5	47.8	36.7	50.9
Total Magnesium	mg/L			15.9	19.4	15.5	16.5	15.8	16.9	12.2	17.8
Total Potassium	mg/L			1.45	1.78	1.4	1.5	1.46	1.61	0.502	1.6
Total Sodium	mg/L	200	AO	23.6	29.6	25.1	27.2	28.7	30.7	32.7	32.4
Total Sulphur	mg/L			3.2	3.5	<3.0	<3.0	3.2	<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.	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.