

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

Green font indicates a value flagged for operational consideration in the CDWG

	Units	CDWG		August 26 2009	May 18 2011	May 16 2012	June 5 2013	May 13 2014	May 19 2015	May 10 2016
Miscellaneous Inorganics										
Fluoride	mg/L	1.5	MAC	<1.0	<1.0	<0.05	<0.05	<0.05	0.034	0.026
Alkalinity (total as CaCO ₃)	mg/L			45	35	36	30	28	32	32.7
Anions										
Dissolved Sulphate	mg/L	500	AO	<2.0	<2.0	1.8	3.5	3.2	2.76	2.91
Dissolved Chloride	mg/L	250	AO	4.6	7.5	9.8	18.3	18.7	12	12
Nitrite	mg/L	1	MAC	<0.1	<0.1	<0.05	<0.05	<0.05	<0.0050	<0.0050
Miscellaneous										
Apparent Colour	Colour Unit			12	22	5	7	<5	<5	10
Nutrients										
Total Ammonia	mg/L					<0.01	0.02	<0.02	0.0057	0.0096
Physical Properties										
Conductivity	µS/cm			94.7	99.9	106.1	121	131	111	105
pH		7.0-10.5	AO	7.6	7.3	7.3	7	6.9	7.67	7.56
TDS	mg/L	500	AO	84	100	58	94	102	80	52
Turbidity	NTU			<0.5	<0.5	0.6	0.6	<0.5	0.17	0.14
Microbiological Parameters										
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	<1	<1.0	<1.0	<1.0	<1.0
Calculated Parameters										
Total Hardness (CaCO ₃)	mg/L			190	33	39	44	43	40.8	34.4
Nitrate	mg/L	10	MAC	0.1	<0.1	<0.05	0.08	0.09	0.066	0.072
Elements										
Total Mercury	mg/L	0.001	MAC	<0.01	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Metals										
Total Aluminum	mg/L	0.1	OG	0.192	0.179	0.522	0.756	0.304	0.302	0.126
Total Antimony	mg/L	0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005
Total Arsenic	mg/L	0.01	MAC	0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.0001	<0.0001
Total Barium	mg/L	1	MAC	0.001	<0.001	<0.001	0.002	0.00141	<0.001	<0.001
Total Beryllium	mg/L					<0.00004	<0.00004	<0.00025	<0.0001	<0.0001
Total Bismuth	mg/L					<0.001	<0.0010	<0.0005	<0.001	<0.001
Total Boron	mg/L	5	MAC	<0.005	<0.005	<0.005	<0.005	<0.010	<0.050	<0.050
Total Cadmium	mg/L	0.005	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC	0.0005	0.0004	<0.0004	<0.0004	<0.0025	<0.001	<0.001
Total Cobalt	mg/L					0.00002	0.00003	<0.0005	<0.0005	<0.0005
Total Copper	mg/L	1	AO	0.001	0.008	0.003	0.009	0.01	0.00983	0.0059
Total Iron	mg/L	0.3	AO	0.051	0.076	0.032	0.072	0.044	0.0245	<0.005
Total Lead	mg/L	0.01	MAC	0.0003	0.0004	<0.0001	0.0058	0.0014	0.00051	0.00021
Total Manganese	mg/L	0.05	AO	0.0005	0.009	<0.005	0.012	<0.0050	0.0031	0.0023
Total Molybdenum	mg/L					<0.0001	<0.0001	<0.00025	<0.001	<0.001
Total Nickel	mg/L			<0.001	<0.001	<0.001	<0.001	<0.0010	<0.001	<0.001
Total Selenium	mg/L	0.05	MAC	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005	<0.0001	<0.0001
Total Silicon	mg/L					8.23	8.49	8.82	9.43	8.96
Total Silver	mg/L			<0.00001	<0.00001	<0.00001	<0.00001	<0.00025	<0.00002	<0.00002
Total Strontium	mg/L					0.021	0.026	0.0239	0.0231	0.0215
Total Thallium	mg/L					<0.00001	<0.00001	<0.00005	<0.00005	<0.00005
Total Tin	mg/L					<0.0001	<0.0001	<0.0005	<0.005	<0.005
Total Titanium	mg/L					<0.001	0.0026	<0.0025	<0.005	<0.005
Total Uranium	mg/L	0.02	MAC	<0.0004	<0.0004	<0.0004	<0.0004	<0.00005	<0.0001	<0.0001
Total Vanadium	mg/L					0.0014	0.0008	0.0008	<0.005	<0.005
Total Zinc	mg/L	5	AO	0.007	0.005	0.001	0.004	0.024	0.0084	<0.005
Total Zirconium	mg/L								<0.0005	<0.0005
Total Calcium	mg/L			53.3	8.28	10.5	12.4	12	11.2	9.01
Total Magnesium	mg/L			13.4	2.6	3.03	3.27	3.06	3.13	2.88
Total Potassium	mg/L			0.8	0.1	0.2	0.21	<0.5	0.137	0.134
Total Sodium	mg/L	200	AO	101	7.78	7.41	8.96	9.4	6.14	6.07
Total Sulphur	mg/L								<3.0	<3.0

Notes below about Aluminum and pH from: 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
T- treatment related parameter	Aluminum (1998)	None	Operational Guideline (OG): < 0.1 (conventional treatment); or < 0.2 (other treatment types)	Aluminum salts used as coagulants in drinking water treatment; naturally occurring.	There is no consistent, convincing evidence that aluminum in drinking water causes adverse health effects in humans.	The operational guideline applies to treatment plants using aluminum-based coagulants; it does not apply to naturally occurring aluminum found in groundwater. For treatment plants using aluminum-based coagulants, monthly samples should be taken of the water leaving the plant; the OGs are based on a running annual average of monthly samples.
T- treatment related parameter	pH (2015)	None	7.0-10.5	Not applicable	Not applicable	The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components.