

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Maitland (088)	
				6-Jul-1994	13-Oct-2016
General Chemistry					
Total Alkalinity (Total as CaCO ₃)	mg/L	-	5	7	38
Chloride (Cl)	mg/L	250 AO	1	9.6	6.9
Colour	TCU	15 AO	5	38	ND
Hardness (CaCO ₃)	mg/L	-	-	12.9	35
Nitrate + Nitrite	mg/L	10	0.05	ND	ND
Nitrite (N)	mg/L	1	0.01	-	ND
Nitrate (N)	mg/L	10	0.05	-	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	ND	ND
Total Organic Carbon (C)	mg/L	-	0.5	0.5	0.95
Orthophosphate (P)	mg/L	-	0.01	ND	0.011
pH	pH	7.0-10.5 OG	-	5.8	7.06
Reactive Silica (SiO ₂)	mg/L	-	0.5	4.4	7.1
Sulphate (SO ₄)	mg/L	500 AO	2	4	4.8
Turbidity	NTU	-	0.1	12.5	250
Conductivity	uS/cm	-	-	58.4	89
Anion Sum	me/L	-	-	-	1.05
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	-	38
Calculated TDS	mg/L	-	1	-	65
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	-	ND
Cation Sum	me/L	-	-	-	1.07
Ion Balance (% Difference)	%	-	-	-	0.94
Langelier Index (@ 20C)	N/A	-	-	-	-1.67
Langelier Index (@ 4C)	N/A	-	-	-4.63	-1.92
Saturation pH (@ 20C)	N/A	-	-	-	8.73
Saturation pH (@ 4C)	N/A	-	-	-	8.98
Calcium (Ca)	mg/L	-	0.1	3.36	10
Magnesium (Mg)	mg/L	-	0.1	1.1	2.1
Phosphorus (P)	mg/L	-	0.1	-	ND
Potassium (K)	mg/L	-	0.1	0.2	0.31
Sodium (Na)	mg/L	200 AO	0.1	5.6	4.8
Bromide (Br)	mg/L	-	0.5	-	ND
Fluoride (F)	mg/L	1.5	0.1	-	ND
Metals					
Aluminum (Al)	ug/L	-	10	21	ND
Antimony (Sb)	ug/L	6	2	ND	ND
Arsenic (As)	ug/L	10	2	ND	ND
Barium (Ba)	ug/L	1000	5	ND	4.1
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	-	ND
Boron (B)	ug/L	5000	5	6	ND
Cadmium (Cd)	ug/L	5	0.3	-	ND
Chromium (Cr)	ug/L	50	2	ND	ND
Cobalt (Co)	ug/L	-	1	ND	ND
Copper (Cu)	ug/L	1000 AO	2	ND	ND
Iron (Fe)	ug/L	300 AO	50	1700	4200
Lead (Pb)	ug/L	10	0.5	0.2	ND
Manganese (Mn)	ug/L	50 AO	2	200	1400
Molybdenum (Mo)	ug/L	-	2	ND	ND
Mercury (Hg)	ug/L	1	0.01	-	ND
Nickel (Ni)	ug/L	-	2	2	ND
Selenium (Se)	ug/L	50	2	ND	ND
Silver (Ag)	ug/L	-	0.5	ND	ND
Strontium (Sr)	ug/L	-	5	16	55
Thallium (Tl)	ug/L	-	0.1	ND	ND
Tin (Sn)	ug/L	-	2	ND	ND
Titanium (Ti)	ug/L	-	2	-	ND
Uranium (U)	ug/L	20	0.1	ND	ND
Vanadium (V)	ug/L	-	2	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	21	ND

Notes:

All guidelines are based on Health Canada MACs (Maximum Acceptable Concentrations) or Interim (I)MACs, unless otherwise indicated.

AO = Aesthetic Objective- see Health Canada Drinking Water Guidelines for details

OG = Operational Guidance - see Health Canada Drinking Water Guidelines for details

ND = not detected and ND() = not detected at the detection limit shown in brackets ()

"-" = not applicable

Shaded values exceed guidelines.