

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Simms Settlement (089)	
				20-Aug-1975	13-Oct-2016
General Chemistry					
Total Alkalinity (Total as CaCO3)	mg/L	-	5	41	64
Chloride (Cl)	mg/L	250 AO	1	15	8.9
Colour	TCU	15 AO	5	5	ND
Hardness (CaCO3)	mg/L	-	-	51	59
Nitrate + Nitrite	mg/L	10	0.05	0.10	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	-	0.91
Orthophosphate (P)	mg/L	-	0.01	0.03	ND
pH	pH	7.0-10.5 OG	-	7.5	7.6
Reactive Silica (SiO2)	mg/L	-	0.5	13.0	4.7
Sulphate (SO4)	mg/L	500 AO	2	6	2.4
Turbidity	NTU	-	0.1	0.8	67
Conductivity	uS/cm	-	-	148	130
Anion Sum	me/L	-	-	-	1.6
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	-	64
Calculated TDS	mg/L	-	1	-	84
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	-	ND
Cation Sum	me/L	-	-	-	1.45
Ion Balance (% Difference)	%	-	-	-	4.92
Langelier Index (@ 20C)	N/A	-	-	-	-0.582
Langelier Index (@ 4C)	N/A	-	-	-	-0.833
Saturation pH (@ 20C)	N/A	-	-	-	8.18
Saturation pH (@ 4C)	N/A	-	-	-	8.43
Calcium (Ca)	mg/L	-	0.1	18	22
Magnesium (Mg)	mg/L	-	0.1	1.3	1
Phosphorus (P)	mg/L	-	0.1	-	ND
Potassium (K)	mg/L	-	0.1	0.6	1.1
Sodium (Na)	mg/L	200 AO	0.1	7	5.3
Bromide (Br)	mg/L	-	0.5	-	ND
Fluoride (F)	mg/L	1.5	0.1	0.7	0.2
Metals					
Aluminum (Al)	ug/L	-	10	-	ND
Antimony (Sb)	ug/L	6	2	-	ND
Arsenic (As)	ug/L	10	2	-	ND
Barium (Ba)	ug/L	1000	5	-	4
Beryllium (Be)	ug/L	-	2	-	ND
Bismuth (Bi)	ug/L	-	2	-	ND
Boron (B)	ug/L	5000	5	-	ND
Cadmium (Cd)	ug/L	5	0.3	-	ND
Chromium (Cr)	ug/L	50	2	-	ND
Cobalt (Co)	ug/L	-	1	-	ND
Copper (Cu)	ug/L	1000 AO	2	30	ND
Iron (Fe)	ug/L	300 AO	50	100	100
Lead (Pb)	ug/L	10	0.5	-	ND
Manganese (Mn)	ug/L	50 AO	2	ND	27
Molybdenum (Mo)	ug/L	-	2	-	ND
Mercury (Hg)	ug/L	1	0.01	-	ND
Nickel (Ni)	ug/L	-	2	-	ND
Selenium (Se)	ug/L	50	2	-	ND
Silver (Ag)	ug/L	-	0.5	-	ND
Strontium (Sr)	ug/L	-	5	-	88
Thallium (Tl)	ug/L	-	0.1	-	ND
Tin (Sn)	ug/L	-	2	-	ND
Titanium (Ti)	ug/L	-	2	-	ND
Uranium (U)	ug/L	20	0.1	-	4.7
Vanadium (V)	ug/L	-	2	-	ND
Zinc (Zn)	ug/L	5000 AO	5	10	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.