

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Greenwood (003)		
				23-Nov-2005	18-Dec-2008	6-Jul-2011
General Chemistry						
Total Alkalinity (Total as CaCO3)	mg/L	-	5	ND	ND	6
Chloride (Cl)	mg/L	250 AO	1	6	3	2
Colour	TCU	15 AO	5	5	7	ND
Hardness (CaCO3)	mg/L	-	-	10	5	3
Nitrate + Nitrite	mg/L	10	0.05	ND	0.12	0.11
Nitrite (N)	mg/L	1	0.01	ND	ND	ND
Nitrate (N)	mg/L	10	0.05	ND	0.12	0.11
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	0.22	ND	ND
Total Organic Carbon (C)	mg/L	-	0.5	2	0.8	0.7
Orthophosphate (P)	mg/L	-	0.01	0.05	ND	ND
pH	pH	7.0-10.5 OG	-	6.41	6.49	6.6
Reactive Silica (SiO2)	mg/L	-	0.5	11	11	11
Sulphate (SO4)	mg/L	500 AO	2	9	5	2
Turbidity	NTU	-	0.1	39	5.4	15
Conductivity	uS/cm	-	-	79	41	1100
Anion Sum	me/L	-	-	0.372	0.18	0.22
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	ND	6
Calculated TDS	mg/L	-	1	40	28	28
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	ND	ND
Cation Sum	me/L	-	-	0.549	0.38	0.34
Ion Balance (% Difference)	%	-	-	19.2	35.7	21.4
Langelier Index (@ 20C)	N/A	-	-	-	NC	-4.02
Langelier Index (@ 4C)	N/A	-	-	-	NC	-4.27
Saturation pH (@ 20C)	N/A	-	-	-	NC	10.6
Saturation pH (@ 4C)	N/A	-	-	-	NC	10.9
Calcium (Ca)	mg/L	-	0.1	2.2	1.2	0.815
Magnesium (Mg)	mg/L	-	0.1	1	0.4	0.217
Phosphorus (P)	mg/L	-	0.1	ND	ND	0.136
Potassium (K)	mg/L	-	0.1	2.4	1.7	1.54
Sodium (Na)	mg/L	200 AO	0.1	3.6	2.1	2.33
Bromide (Br)	mg/L	-	0.5	ND	ND	ND
Fluoride (F)	mg/L	1.5	0.1	ND	ND	ND
Metals						
Aluminum (Al)	ug/L	-	10	47	18	20.3
Antimony (Sb)	ug/L	6	2	ND	ND	ND (1)
Arsenic (As)	ug/L	10	2	2	ND	1.9
Barium (Ba)	ug/L	1000	5	59	25	11.7
Beryllium (Be)	ug/L	-	2	ND	ND	ND (1)
Bismuth (Bi)	ug/L	-	2	ND	ND	ND
Boron (B)	ug/L	5000	5	ND	ND	ND (50)
Cadmium (Cd)	ug/L	5	0.3	ND	ND	0.032
Chromium (Cr)	ug/L	50	2	ND	ND	1.6
Cobalt (Co)	ug/L	-	1	3	1	0.48
Copper (Cu)	ug/L	1000 AO	2	3	ND	2.7
Iron (Fe)	ug/L	300 AO	50	8700	4300	4020
Lead (Pb)	ug/L	10	0.5	1.7	ND	0.97
Manganese (Mn)	ug/L	50 AO	2	140	84	70.2
Molybdenum (Mo)	ug/L	-	2	ND	ND	ND
Mercury (Hg)	ug/L	1	0.01	ND	ND	ND
Nickel (Ni)	ug/L	-	2	4	2	ND
Selenium (Se)	ug/L	50	2	ND	ND	ND (1)
Silver (Ag)	ug/L	-	0.5	ND	ND	ND (0.1)
Strontium (Sr)	ug/L	-	5	9	ND	2.8
Thallium (Tl)	ug/L	-	0.1	ND	ND	ND
Tin (Sn)	ug/L	-	2	ND	ND	ND
Titanium (Ti)	ug/L	-	2	ND	ND	ND (5)
Uranium (U)	ug/L	20	0.1	0.2	ND	ND
Vanadium (V)	ug/L	-	2	ND	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	87	60	34.3

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.