

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Wilmot (005)	
				29-Nov-2006	12-May-2010
General Chemistry					
Total Alkalinity (Total as CaCO3)	mg/L	-	5	16	27
Chloride (Cl)	mg/L	250 AO	1	22	14
Colour	TCU	15 AO	5	ND	ND
Hardness (CaCO3)	mg/L	-	-	180	100
Nitrate + Nitrite	mg/L	10	0.05	30	17
Nitrite (N)	mg/L	1	0.01	0.02	0.02
Nitrate (N)	mg/L	10	0.05	30	17
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	ND	ND
Total Organic Carbon (C)	mg/L	-	0.5	ND	ND
Orthophosphate (P)	mg/L	-	0.01	0.07	0.08
pH	pH	7.0-10.5 OG	-	6.7	7.28
Reactive Silica (SiO2)	mg/L	-	0.5	7.9	7.7
Sulphate (SO4)	mg/L	500 AO	2	27	21
Turbidity	NTU	-	0.1	50	0.2
Conductivity	uS/cm	-	-	410	280
Anion Sum	me/L	-	-	3.65	2.56
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	16	27
Calculated TDS	mg/L	-	1	275	182
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	ND
Cation Sum	me/L	-	-	3.92	2.46
Ion Balance (% Difference)	%	-	-	3.58	1.99
Langelier Index (@ 20C)	N/A	-	-	-1.75	-1.12
Langelier Index (@ 4C)	N/A	-	-	-2	-1.37
Saturation pH (@ 20C)	N/A	-	-	8.45	8.4
Saturation pH (@ 4C)	N/A	-	-	8.7	8.65
Calcium (Ca)	mg/L	-	0.1	56	36
Magnesium (Mg)	mg/L	-	0.1	8.5	3.6
Phosphorus (P)	mg/L	-	0.1	0.2	ND
Potassium (K)	mg/L	-	0.1	3.1	2.8
Sodium (Na)	mg/L	200 AO	0.1	7.5	6.8
Bromide (Br)	mg/L	-	0.5	-	ND
Fluoride (F)	mg/L	1.5	0.1	-	ND
Metals					
Aluminum (Al)	ug/L	-	10	ND	13
Antimony (Sb)	ug/L	6	2	ND	ND
Arsenic (As)	ug/L	10	2	ND	ND
Barium (Ba)	ug/L	1000	5	89	53
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND
Boron (B)	ug/L	5000	5	14	15
Cadmium (Cd)	ug/L	5	0.3	ND	ND
Chromium (Cr)	ug/L	50	2	ND	ND
Cobalt (Co)	ug/L	-	1	ND	ND
Copper (Cu)	ug/L	1000 AO	2	ND	10
Iron (Fe)	ug/L	300 AO	50	ND	ND
Lead (Pb)	ug/L	10	0.5	2.3	0.7
Manganese (Mn)	ug/L	50 AO	2	15	14
Molybdenum (Mo)	ug/L	-	2	ND	ND
Mercury (Hg)	ug/L	1	0.01	-	ND
Nickel (Ni)	ug/L	-	2	3	2
Selenium (Se)	ug/L	50	2	ND	ND
Silver (Ag)	ug/L	-	0.5	ND	ND
Strontium (Sr)	ug/L	-	5	160	120
Thallium (Tl)	ug/L	-	0.1	ND	ND
Tin (Sn)	ug/L	-	2	ND	ND
Titanium (Ti)	ug/L	-	2	ND	ND
Uranium (U)	ug/L	20	0.1	ND	ND
Vanadium (V)	ug/L	-	2	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	7	24

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.