

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	North Grant (054)	
				13-Dec-2006	22-Jul-2008
General Chemistry					
Total Alkalinity (Total as CaCO3)	mg/L	-	5	93	92
Chloride (Cl)	mg/L	250 AO	1	30	27
Colour	TCU	15 AO	5	ND	ND
Hardness (CaCO3)	mg/L	-	-	38	36
Nitrate + Nitrite	mg/L	10	0.05	0.55	0.7
Nitrite (N)	mg/L	1	0.01	ND	ND
Nitrate (N)	mg/L	10	0.05	0.55	0.7
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	ND	ND
Total Organic Carbon (C)	mg/L	-	0.5	2.5	ND
Orthophosphate (P)	mg/L	-	0.01	ND	ND
pH	pH	7.0-10.5 OG	-	7.83	8.03
Reactive Silica (SiO2)	mg/L	-	0.5	9.6	9.8
Sulphate (SO4)	mg/L	500 AO	2	35	31
Turbidity	NTU	-	0.1	1.1	53
Conductivity	uS/cm	-	-	340	340
Anion Sum	me/L	-	-	3.5	3.3
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	93	91
Calculated TDS	mg/L	-	1	209	206
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	ND
Cation Sum	me/L	-	-	3.43	3.58
Ion Balance (% Difference)	%	-	-	1.07	4.07
Langelier Index (@ 20C)	N/A	-	-	-0.526	-0.363
Langelier Index (@ 4C)	N/A	-	-	-0.776	-0.613
Saturation pH (@ 20C)	N/A	-	-	8.36	8.39
Saturation pH (@ 4C)	N/A	-	-	8.61	8.64
Calcium (Ca)	mg/L	-	0.1	12	11
Magnesium (Mg)	mg/L	-	0.1	2.2	2.2
Phosphorus (P)	mg/L	-	0.1	ND	ND
Potassium (K)	mg/L	-	0.1	1	1
Sodium (Na)	mg/L	200 AO	0.1	61	61
Bromide (Br)	mg/L	-	0.5	ND	ND
Fluoride (F)	mg/L	1.5	0.1	0.6	0.6
Metals					
Aluminum (Al)	ug/L	-	10	46	620
Antimony (Sb)	ug/L	6	2	ND	ND
Arsenic (As)	ug/L	10	2	3	15
Barium (Ba)	ug/L	1000	5	88	110
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND
Boron (B)	ug/L	5000	5	610	560
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	ND
Iron (Fe)	ug/L	300 AO	50	85	4900
Lead (Pb)	ug/L	10	0.5	ND	0.6
Manganese (Mn)	ug/L	50 AO	2	8	27
Molybdenum (Mo)	ug/L	-	2	3	3
Mercury (Hg)	ug/L	1	0.01	ND	ND
Nickel (Ni)	ug/L	-	2	ND	ND
Selenium (Se)	ug/L	50	2	ND	ND
Silver (Ag)	ug/L	-	0.5	ND	ND
Strontium (Sr)	ug/L	-	5	180	180
Thallium (Tl)	ug/L	-	0.1	ND	ND
Tin (Sn)	ug/L	-	2	ND	ND
Titanium (Ti)	ug/L	-	2	ND	24
Uranium (U)	ug/L	20	0.1	1.3	2.1
Vanadium (V)	ug/L	-	2	2	17
Zinc (Zn)	ug/L	5000 AO	5	ND	8

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.