

**Water Sample Results - General Chemistry and Metals**

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Arisaig (080)
				8/Sep/2009
<b>General Chemistry</b>				
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	-	5	240 (30)
Chloride (Cl)	mg/L	250 AO	1	57
Colour	TCU	15 AO	5	7
Hardness (CaCO <sub>3</sub> )	mg/L	-	-	10
Nitrate + Nitrite	mg/L	10	0.05	ND
Nitrite (N)	mg/L	1	0.01	ND
Nitrate (N)	mg/L	10	0.05	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	0.11
Total Organic Carbon (C)	mg/L	-	0.5	ND (5)
Orthophosphate (P)	mg/L	-	0.01	0.04
pH	pH	7.0-10.5 OG	-	8.63
Reactive Silica (SiO <sub>2</sub> )	mg/L	-	0.5	2.1
Sulphate (SO <sub>4</sub> )	mg/L	500 AO	2	ND
Turbidity	NTU	-	0.1	240
Conductivity	uS/cm	-	-	610
Anion Sum	me/L	-	-	6.52
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	-	1	233
Calculated TDS	mg/L	-	1	353
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	-	1	9
Cation Sum	me/L	-	-	6.37
Ion Balance (% Difference)	%	-	-	1.16
Langelier Index (@ 20C)	N/A	-	-	0.109
Langelier Index (@ 4C)	N/A	-	-	-140
Saturation pH (@ 20C)	N/A	-	-	8.52
Saturation pH (@ 4C)	N/A	-	-	8.77
Calcium (Ca)	mg/L	-	0.1	3.5
Magnesium (Mg)	mg/L	-	0.1	0.4
Phosphorus (P)	mg/L	-	0.1	ND
Potassium (K)	mg/L	-	0.1	1.8
Sodium (Na)	mg/L	200 AO	0.1	140
Bromide (Br)	mg/L	-	0.5	ND
Fluoride (F)	mg/L	1.5	0.1	1.1
<b>Metals</b>				
Aluminum (Al)	ug/L	-	10	53
Antimony (Sb)	ug/L	6	2	ND
Arsenic (As)	ug/L	10	2	ND
Barium (Ba)	ug/L	1000	5	36
Beryllium (Be)	ug/L	-	2	ND
Bismuth (Bi)	ug/L	-	2	ND
Boron (B)	ug/L	5000	5	74
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	ND
Iron (Fe)	ug/L	300 AO	50	59
Lead (Pb)	ug/L	10	0.5	ND
Manganese (Mn)	ug/L	50 AO	2	16
Molybdenum (Mo)	ug/L	-	2	3
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	62
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	ND
Vanadium (V)	ug/L	-	2	ND
Zinc (Zn)	ug/L	5000 AO	5	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.