

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Rainbow Haven (087)
				5-Jun-2012
General Chemistry				
Total Alkalinity (Total as CaCO ₃)	mg/L	-	5	320
Chloride (Cl)	mg/L	250 AO	1	18000
Colour	TCU	15 AO	5	ND
Hardness (CaCO ₃)	mg/L	-	-	5700
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	5.1
Total Organic Carbon (C)	mg/L	-	0.5	ND
Orthophosphate (P)	mg/L	-	0.01	ND
pH	pH	7.0-10.5 OG	-	7.62
Reactive Silica (SiO ₂)	mg/L	-	0.5	3.1
Sulphate (SO ₄)	mg/L	500 AO	2	2600
Turbidity	NTU	-	0.1	6
Conductivity	uS/cm	-	-	47000
Anion Sum	me/L	-	-	569
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	320
Calculated TDS	mg/L	-	1	32500
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	1.3
Cation Sum	me/L	-	-	547
Ion Balance (% Difference)	%	-	-	1.94
Langelier Index (@ 20C)	N/A	-	-	0.902
Langelier Index (@ 4C)	N/A	-	-	0.662
Saturation pH (@ 20C)	N/A	-	-	6.72
Saturation pH (@ 4C)	N/A	-	-	6.96
Calcium (Ca)	mg/L	-	0.1	385
Magnesium (Mg)	mg/L	-	0.1	1160
Phosphorus (P)	mg/L	-	0.1	ND
Potassium (K)	mg/L	-	0.1	352
Sodium (Na)	mg/L	200 AO	0.1	9730
Bromide (Br)	mg/L	-	0.5	52
Fluoride (F)	mg/L	1.5	0.1	0.84
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	30
Beryllium (Be)	ug/L	-	2	ND
Bismuth (Bi)	ug/L	-	2	ND
Boron (B)	ug/L	5000	5	4230
Cadmium (Cd)	ug/L	5	0.3	0.55
Chromium (Cr)	ug/L	50	2	ND
Cobalt (Co)	ug/L	-	1	11.5
Copper (Cu)	ug/L	1000 AO	2	ND
Iron (Fe)	ug/L	300 AO	50	734
Lead (Pb)	ug/L	10	0.5	ND
Manganese (Mn)	ug/L	50 AO	2	8160
Molybdenum (Mo)	ug/L	-	2	25
Mercury (Hg)	ug/L	1	0.01	0.013
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	7060
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	32.8
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.