

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

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Lawrencetown (043)		
				18-Nov-2004	05-Dec-2008	16-Nov-2011
<b>General Chemistry</b>						
Total Alkalinity (Total as CaCO3)	mg/L	-	5	82	82	90
Chloride (Cl)	mg/L	250 AO	1	150	180	170
Colour	TCU	15 AO	5	ND	ND	ND
Hardness (CaCO3)	mg/L	-	-	98.9	100	120
Nitrate + Nitrite	mg/L	10	0.05	ND	ND	ND
Nitrite (N)	mg/L	1	0.01	ND	ND	ND
Nitrate (N)	mg/L	10	0.05	ND	ND	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	0.19	0.12	0.09
Total Organic Carbon (C)	mg/L	-	0.5	ND	0.5	ND
Orthophosphate (P)	mg/L	-	0.01	ND	ND	ND
pH	pH	7.0-10.5 OG	-	7.3	8.14	8.06
Reactive Silica (SiO2)	mg/L	-	0.5	7.3	8.5	7.9
Sulphate (SO4)	mg/L	500 AO	2	ND	ND	3
Turbidity	NTU	-	0.1	1	0.2	ND
Conductivity	uS/cm	-	-	695	710	730
Anion Sum	me/L	-	-	5.92	6.77	6.68
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	82	81	89
Calculated TDS	mg/L	-	1	341	375	370
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	1	ND
Cation Sum	me/L	-	-	6.19	6.39	6.39
Ion Balance (% Difference)	%	-	-	2.27	2.89	2.22
Langelier Index (@ 20C)	N/A	-	-	-0.85	0.039	0.046
Langelier Index (@ 4C)	N/A	-	-	-1.25	-0.21	-0.202
Saturation pH (@ 20C)	N/A	-	-	8.15	8.1	8.01
Saturation pH (@ 4C)	N/A	-	-	8.55	8.35	8.26
Calcium (Ca)	mg/L	-	0.1	26.1	27	30
Magnesium (Mg)	mg/L	-	0.1	8.2	8.8	10.5
Phosphorus (P)	mg/L	-	0.1	ND	ND	ND
Potassium (K)	mg/L	-	0.1	1.9	1.9	1.9
Sodium (Na)	mg/L	200 AO	0.1	95.4	98	91.3
Bromide (Br)	mg/L	-	0.5	0.53	ND	ND
Fluoride (F)	mg/L	1.5	0.1	0.11	0.1	ND
<b>Metals</b>						
Aluminum (Al)	ug/L	-	10	ND	ND	10.2
Antimony (Sb)	ug/L	6	2	ND	ND	ND (1)
Arsenic (As)	ug/L	10	2	56	58	65.7
Barium (Ba)	ug/L	1000	5	26	41	38.7
Beryllium (Be)	ug/L	-	2	ND	ND	ND (1)
Bismuth (Bi)	ug/L	-	2	ND	ND	ND
Boron (B)	ug/L	5000	5	93	110	100
Cadmium (Cd)	ug/L	5	0.3	ND	ND	ND
Chromium (Cr)	ug/L	50	2	ND	ND	ND (1)
Cobalt (Co)	ug/L	-	1	ND	ND	ND (0.4)
Copper (Cu)	ug/L	1000 AO	2	ND	ND	ND
Iron (Fe)	ug/L	300 AO	50	ND	ND	51
Lead (Pb)	ug/L	10	0.5	ND	ND	ND
Manganese (Mn)	ug/L	50 AO	2	16	32	26.9
Molybdenum (Mo)	ug/L	-	2	ND	ND	ND
Mercury (Hg)	ug/L	1	0.01		ND	ND
Nickel (Ni)	ug/L	-	2	ND	ND	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	1100	1400	1380
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
Uranium (U)	ug/L	20	0.1	ND	ND	ND
Vanadium (V)	ug/L	-	2	ND	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	ND	ND	10.6

**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.