

**TYPICAL ANALYSIS OF POCKWOCK/LAKE MAJOR WATER
2010-2011**

(in milligrams per litre unless shown otherwise)

Note: All Regulatory Compliance Analysis are Processed by Third Party Laboratories

PARAMETERS	(Halifax) POCKWOCK		(Dartmouth) LAKE MAJOR		GUIDELINES FOR CANADIAN DRINKING WATER QUALITY	
	Raw Water	Treated Water	Raw Water	Treated Water	Maximum Acceptable Concentration	Objective Concentration
Alkalinity (as CaCO ₃)	<1.0	19.0	<1.0	14.5	-	-
Aluminum	0.147	0.066	0.222	0.054	-	*0.20/0.10
Ammonia (N)	<0.05	<0.05	<0.05	<0.05	-	-
Arsenic	<0.001	<0.001	<0.001	<0.001	0.010	-
Calcium	1.1	4.2	1.0	6.6	-	-
Chloride	6.5	9.0	6.0	8.0	-	≤250
Chlorate	<0.1	<0.1	<0.1	<0.1	1.0	-
Chlorite	<0.1	<0.1	<0.1	<0.1	1.0	-
Colour (True Colour Units)	15.0	3.0	40.0	3.0	-	≤15.0
Conductivity (µmho/cm)	42.0	81.5	35.0	98.5	-	-
Copper (Total)	0.043	0.002	0.145	<0.002	-	≤1.0
Fluoride	<0.10	0.60	<0.10	0.70	1.5	0.7 - 0.8
Hardness (as CaCO ₃)	4.0	12.5	4.0	18.0	-	-
Hardness (as CaCO ₃) (Grains)	0.3	0.9	0.3	1.3	-	-
HAA5 (avg.)	<0.005	0.062	<0.005	0.061	0.080	-
Iron (Total)	<0.063	<0.050	0.164	<0.020	-	≤0.3
Langelier Index @ 5°C	-4.8	-2.5	-5.4	-2.3	-	-
Langelier Index @ 60°C	-4.4	-2.2	-4.4	-2.0	-	-
Lead (Total) (µg/l)	<0.5	<0.5	<0.5	<0.5	10.0	-
Magnesium	0.40	0.46	0.42	0.42	-	-
Manganese (Total)	0.056	0.008	0.094	0.019	-	≤0.05
Mercury (µg/l)	<0.013	<0.013	<0.013	<0.013	1.0	-
Nitrate (as N)	0.06	0.06	0.06	0.06	10.0	-
Nitrite (as N)	<0.01	<0.01	<0.01	<0.01	3.2	-
pH (pH Units)	5.6	7.4	5.4	7.3	-	6.5 - 8.5
Potassium	0.3	0.4	0.4	0.4	-	-
Sodium	4.8	13.1	4.1	11.8	-	≤200
Solids (Total Dissolved)	19.0	50.5	23.0	55.0	-	≤500
Sulphate	4.0	9.0	3.0	16.0	-	≤500
Turbidity (NTU)	0.36	<0.1	0.35	<0.1	**0.2/0.5	≤5
Total Organic Carbon (TOC)	2.7	1.9	4.0	1.5	-	-
THM's (avg.)	-	0.073	-	0.089	0.100	-
Uranium (µg/l)	<0.1	<0.1	<0.1	<0.1	20.0	-
Zinc (Total)	0.009	0.102	0.006	0.078	-	≤5.0

* Aluminum objective is related to type of plant filtration; the aluminum objective for direct filtration (i.e. Pockwock) is <0.20 mg/l and conventional filtration (i.e. Lake Major) is 0.10 mg/l. **0.2/0.5 means the plant must produce water with turbidity of <0.2 NTU 90% of the time and <0.5 NTU 100% of the time, as is required by Provincial Permit. This is more stringent than the Canadian guideline of 0.3/1.0/ NTU.