



# APLG

**Association des propriétaires du lac Gagnon**

## **Results of water analysis at lake Gagnon (July 3, 2006)**

### **Definitions:**

- **SWIMMING WATER:** 0 to 20 fecal coliforms per 100ml represents an excellent swimming water condition.
- **POTABLE :** Water contains no fecal coliform and no more than 10 total coliforms.
- **HORS-NORMES :** Water does not contains fecal coliform but contains more than 10 total coliforms. Such water is drinkable but the presence of many total coliforms shows that fecal coliforms could show up in other tests.
- **NON-POTABLE :** Includes as least one fecal coliform.
- **T.N.I.:** Too many colonies of coliforms to be identifiable.

### **Swimming Water** (9 samples submitted by 9 persons) :

- The number of fecal coliforms per sample ranges from 0 to 7, with an average of 2.7 fecal coliforms per sample. Although the number of samples is quite limited, these tests would seem to confirm earlier tests conducted by the APLG. The quality of the water in the lake is excellent for swimming.
- There were no sample from the northern part of the lake.

## Drinking Water (30 samples submitted by 27 persons) :

### Number of samples

Source	Potable	Hors-normes	Non-potable	Total
Artesian wells	7	2	1	10
Surface wells	2	4	1	7
Lake	1	5	7	13
Total	10	11	9	30

### Number of coliforms (average by sample)

Source	Potable	Hors-normes		Non-potable		
	Total Coliforms	Total Coliforms		Fecal Coliforms		Total Coliforms
		Average	TNI*	Average	TNI*	TNI*
Artesian wells	0	n/a	2	5	n/a	1
Surface wells	4	13	3	1	n/a	1
Lake	0	35	3	2	2	7
Total	1	27	8	2	2	9

TNI\* Number of **samples** with too many colonies to be identifiable. Since the colonies can not counted , these samples are not included in the averages of fecal and total coliforms in the table.

### Explanations:

- By definition there is no fecal coliform in the potable and 'hors-normes' samples. Therefore averages for these two categories refer only to total coliforms.
- In the non-potable category there are no averages for total coliforms because all these samples have too many total coliforms to be identifiable (TNI).
- There is not one potable sample with too many total coliforms to be identifiable (TNI).

### Highlights:

- One third of samples included water unacceptable for drinking.
- Half of those getting their drinking water directly from the lake have non-drinkable water.
- Almost all samples of non-drinkable water are from participants taking their water directly from the lake.
- All samples with non-drinkable water have too many total coliforms to be identifiable (TNI).
- Two third of participants have drinkable water but half of those are 'hors-normes'.
- Almost all those with artesian wells or surface wells have drinkable water.
- 9 out of 10 persons with potable water have no coliform whatsoever in their sampling.
- There is not one part of the lake that has significantly different results.