

### DARRIN FRESH WATER INSTITUTE

Sandra A. Nierzwicki-Bauer, Director

October 2, 2000

Mr. Paul Burroughs HCO #1, Box 126 Ticonderoga, New York 12883

Dear Mr. Burroughs,

Enclosed are the results for the water samples that you collected from Eagle Lake. As you will notice, we have run two standard tests -Total Coliform and Fecal Coliform bacteria. Both of these are used as indicators of bacterial contamination of water by waste materials. Testing for the presence of coliform bacteria is the most commonly used guideline for the suitability of waters for drinking, swimming and other forms of contract recreation. Coliform bacteria are indicators of the presence of contamination from human or animal wastes.

From samples collected for Eagle Lake, there appears to be no sign of coliform bacterial contamination to the lake from septic sources, at least from the points and times these samples were collected. All samples show both total and fecal coliform levels well below the New York State DOH standards (see below) for waters used for contact recreation.

#### Table 1 Bacterial levels at Eagle Lake in 2000.

Sample Site	Date	Total Coliform colonics/100 ml	Fecal Coliform colonics/100 ml
East End - near DiPofi	September 18, 2000	less than 1	less than 1
Halfway down Lake	September 18, 2000	6	less than 1
Hurds Point	September 18, 2000	610	less than 1
West End - Causeway	September 18, 2000	9	2

The greatest concentration of total or fecal coliform bacteria was found at Hurds Point, with 610 colonies per 100 mls of sample. This number falls well below the NYS DOH standard for contact recreation and is not of a concentration that would normally indicate a faulty septic system or any other significant point source. Please bear in mind that these results indicate conditions only at the time of sampling and can change through time. The only way to assure that the beaches are within guidelines for swimming is to continue routine monitoring.



Adirondack Field Station at Bolton Landing Box 84C • Bolton Landing New York 12814 • Phone (518) 644-3541 • Fax (518) 644-3640 Rensselaer Polytechnic Institute • Troy, New York 12180-3590 • (518) 276-6757



Richard F. Bopp Associate Director of Hudson River Program

Charles W. Boylen Associate Director of Environmental Assessment Programs

Table 2. New York State coliform bacteria standards for bathing beaches.

Maximum Allowable Levels of Coliform Bacteria in Waters Used for Contact Recreation (NYS Dept. of Health)				
Bacterial Test	Max. 5 Sample Mean	Max. Single Result		
Total Coliform	2400 per 100 mls	5000 per 100 mls		
Fecal Coliform	200 per 100 mls	1000 per 100 mls		

A monitoring program at public and private beaches is recommended with a frequency of at least monthly during the bathing season. If contamination sources are suspected, dye testing of septic systems can confirm failures. Routine dye testing may also provide a means for detecting improperly operating septic systems prior to major contamination of the lake.

I hope this information proves useful to you.

Respectfully

Invine Eichler

Lawrence Eichler Research Scientist



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### Report of Analysis LAB ID: 10719

Charles W. Boylen Associate Director of Environmental Assessment Programs

Sample ID:	00-455	
Date Collected:	18-Sep-00	Collected By: P. Burroughs
Matrix:	water	Location: Eagle Lake - East end, near DiPoli
Analysis Date	Analyte	Analyst Result Units
18-Sep-00	Total Coliform	LE/EH It 1 colonies/100 ml
18-Sep-00	Fecal Coliform	LE/EH It 1 colonies/100 ml
Sample ID:	00-456	
Date Collected:	18-Sep-00	Collected By: P. Burroughs
Matrix:	weter	Location: Eagle Lake - halfway down lake, near Kral
Analysis Date	Analyte	Analyst Result Units
18-Sep-00	Total Coliform	LE/EH colonies/100 ml
18-Sep-00	Fecal Coliform	LE/EH colonies/100 ml
Sample ID:	00-457	
Date Collected:	18-Sep-00	Collected By: P. Burroughs
Matrix:	water	Location: Eagle Lake - Western part of big lake, Hurd's Pt.
Analysis Date	Analyte	Analyst Result Units
18-Sep-00	Total Coliform	LE/EH 610 colonies/100 ml
18-Sep-00	Fecal Coliform	LE/EH It 1 colonies/100 ml
Sample ID:	00-458	
Date Collected:	18-Sep-00	Collected By: P. Burroughs
Matrix:	water	Location: Eagle Lake - West end by causeway
Analysis Date	Analyte	Analyst Result Units
18-Sep-00	Total Coliform	LE/EH 9 colonies/100 ml
18-Sep-00	Fecal Coliform	LE/EH '2 colonies/100 ml
-		

**Results Submitted By: Eric Howe** 



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Sandra A. Nierzwicki-Bauer, Director

Richard F. Bopp Associate Director of Hudson River Program

Charles W. Boylen Associate Director of Environmental Assessment Programs

Date: 9/21/00

Burroughs HC01 Box 126 Ticonderoga, NY 12833

Lab ID: 10719

#### Sample #: 00-455 through 458

	Total	
4	Total Coliform Bacterial Analysis @ \$10.00 ea.	\$40.00
4	Fecal Coliform Bacterial Analysis @ \$10.00 ea.	\$40.00
	Fecal Strep. Bacterial Analysis @ \$10.00 ea.	\$0.00
	Standard Plate Count Bacterial Analysis @ \$15.00 ea.	\$0.00
	E. coli Bacterial Analysis @ \$10.00 ea.	\$0.00
	TOTAL LABORATORY FEES	\$80.00

Please make check payable to: Darrin Fresh Water Institute Please include the Sample # for which this payment applies.

Mail Payment To:

Darrin Freshwater Institute 5060 Lakeshore Drive Bolton Landing, NY 12814



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