

Secchi's  
1989

DEER (HUGEL) LAKE - 1989  
SECCHI DISC-CHLOROPHYLL a SELF-HELP PROGRAM

The following report presents the results of your volunteer monitoring of Secchi disc visibilities and chlorophyll a concentrations to provide an indication of the recreational water quality of Deer Lake.

The transparency of the water as indicated by the Secchi disc readings and the density of suspended microscopic aquatic plants, called algae, as indicated by the chlorophyll a concentrations, are averaged for the sampling season and compared with the 4 degrees of water quality.

- LEVEL 1 chlorophyll a concentrations 0-2 ug/l, excellent water quality
- LEVEL 2 chlorophyll a concentrations 2-5 ug/l, good water quality
- LEVEL 3 chlorophyll a concentrations 5-10 ug/l, fair water quality
- LEVEL 4 chlorophyll a concentrations 10+ ug/l, poor water quality

A good sampling program was conducted on Deer Lake in 1989, with sampling conducted on 8 occasions. The results of the monitoring are presented below.

Table 1  
Secchi disc (m) and chlorophyll a (ug/L)  
data collected from Deer Lake, 1989

Date	Station 1		Station 2	
	S.D.	Chloro <u>a</u>	S.D.	Chloro <u>a</u>
89/07/17	1.70	10.8	2.0	7.6
89/07/30	2.30	4.0	2.3	9.7
89/08/13	2.50	11.8	2.0	12.5
89/08/27	1.75	3.9	1.5	4.0
89/09/10	1.60	8.5	1.5	11.8
89/09/24	1.50	5.3	1.3	7.5
89/10/09	1.75	1.8	1.5	3.5
89/10/23	----	---	1.5	5.9
Average	1.87	6.59	1.7	7.81

1990                      1.5                      5.86                      1.26                      6.6