



Ministry of the
Environment

Water Resources Branch
Limnology & Toxicity Section
P.O. Box 213
Rexdale, Ontario

August 30, 1978

Mr. J.G. Hutchison
293 Longfellow Dr.
Waterloo, Ont.
N2L 2S2

Dear Sir:

We recently received a sample (#78-1798) collected by you from Sunfish Lake on Aug. 7, 1978. We subsequently received a telephone call from A. McLarty in regards to this sample and an explanation for your interest in this lake.

We examined the sample and I have attached a copy of the analysis report for your information. Please note that the sample had to be concentrated four times in order to facilitate observations. The colonial blue-green, Gomphosphaeria sp. appeared to be the dominant organism present. Fifteen other algal forms were also identified.

Mr. McLarty stated that you had a special interest in algal taxonomy and that you would like to engage in some microscopic observation yourself. For this purpose I have enclosed a Sedgewick-Rafter counting chamber and a manual which we use for training waterworks operators. You will note that this manual is based on the areal standard unit method of enumeration. We currently are using this method for waterworks studies but for all other lake quality studies we are using the Utermöhl sedimentation technique to concentrate the algae and inverted microscopes to quantify the biomass which is expressed as mm^3/l . I have enclosed a copy of our concentration procedure as it is not described in the manual.

I trust this information is satisfactory. If you have any further questions in regards to our analytical methods please contact us.

Yours truly,

Gordon J. Hopkins

GJH/jk

cc: A. McLarty
file: 4-3-2

