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APPENDIX I

METHODS AND MATERIALS

A. PHYTOPLANKTON

1. FIELD COLLECTIONS

Phytoplankton samples were collected at the 10, 20, 40 and 60 ft. depth contours on four transects: East (NMPE), FitzPatrick (FITZ), Nine Mile Plant (NMPP) and West (NMPW) (see Volume I, Figure I-1). Monthly or bi-monthly net (Table I-1) phytoplankton samples were collected by pouring 20 liters of surface water (approximated 0.5m below the surface) through a 12cm diameter, 28 μ mesh Wisconsin style nanoplankton net. Whole water and chlorophyll a one liter samples were collected by allowing a polyethylene container to fill at approximately 0.5 meters below the surface. Phytoplankton samples were preserved in 5% formaldehyde solution.

Windrow phytoplankton samples were collected from the area between the NMPE and NMPW transects and 2km from the shoreline. Windrows were located by aircraft; the sampling boat was directed to the windrow area by radio. Sampling was conducted in the foamlines or, when none were visible, in the zone between capillary waves and surface slicks (see Harris and Lott, 1973). To insure minimal disturbance of windrows, upwind sampling was conducted.

Six windrows were sampled in triplicate by the method previously described. If windrows were not observed during the overflights, eighteen random "grab" samples were collected among the regular plankton sampling stations.

TABLE I-1

COLLECTION DATES OF CHLOROPHYLL A AND
PHYTOPLANKTON SAMPLES

	<u>CHLOROPHYLL</u>	<u>NET</u>	<u>WHOLE WATER</u>	<u>WINDROW</u>
2 April 1973		x		
16 May 1973		x		
15 June 1973	x	x	x	
26 June 1973				x
20 July 1973	x	x	x	x
26 July 1973	x	x	x	x
13 August 1973	x	x	x	
23 August 1973	x	x	x	x
21 September 1973	x	x	x	x
25 October 1973	x		x	
20 November 1973	x		x	
5 December 1973				x

2. LABORATORY ANALYSIS

Aliquots of whole water samples were settled for five days. Duplicate whole water and net sample aliquots were counted in a Palmer-Maloney counting cell at 200 magnifications. Density of organisms was calculated as either cells or clumps per liter.

The standing crop of phytoplankton in Lake Ontario was further estimated by chlorophyll a determinations. One half liter of sample water was filtered through a Millipore R filter (0.45 μ pore size) with subsequent extraction by acetone. Spectrophotometric measurements on a Spectronic 20 were recorded of the absorbance of pigments. The concentration of chlorophyll a in the acetone extract was calculated from the 663m μ readings, according to the methods of Golterman (1971). Pheopigment concentrations were obtained by acidifying the acetone extract with 4N hydrochloric acid and the absorbance at 663m μ was recorded.

3. DISCUSSION

The collection and analysis of net and whole water phytoplankton samples provided a quantitative estimation of the surface phytoplankton assemblage at each station. Since surface samples were collected, the vertical distribution of algal assemblages could not be evaluated. The utilization of a 28 μ phytoplankton net by itself might yield an underestimation of the nanoplankton, since many of the smaller forms would not have been collected. Although the phytoplankton populations might have been underestimated, the seasonal distribution in the Nine Mile Point vicinity was established.

Many phytoplankters exist as individual cells; others, such as Asterionella or Oscillatoria, tend to form filaments, colonies or clumps. Since cells are the basic unit of algal structure, cell counts provide a more absolute measure of standing crop than the enumeration of clumps; the emphasis in the results and discussion sections, therefore, has been placed on algal abundance expressed as cells/liter.

B. MICROZOOPLANKTON

1. FIELD COLLECTIONS

Microzooplankton samples were collected at the 10, 20, 40 and 60 ft. depth contours along four transects: Nine Mile Point East (NMPE), FitzPatrick (FITZ), Nine Mile Point Plant (NMPP) and Nine Mile Point West (NMPW) (see Volume I, Figure I-1). Samples were taken from May through November 1973 on the dates listed in Volume I, Table I-11; replicate samples were taken from June onward.

Samples were taken with a 12cm diameter Wisconsin type plankton net equipped with 76 μ mesh netting. Vertical tows were made from the bottom to the surface; the volume sampled was calculated by multiplying the depth of water in meters by the mouth area of the net in meters. All samples were preserved in 5% formalin.

2. LABORATORY ANALYSIS

Rotifers were identified to genus (members of the genus Keratella were speciated); cladocerans were identified to genus with the ex-

ception of Leptodora kindtii; and copepods were identified as adults or nauplii. Selected protozoans were identified to order or genus.

The microzooplankton were counted according to the following procedure:

- a. the volume of the preserved catch was measured in a graduated cylinder.
- b. a 1 ml aliquot of the mixed sample was withdrawn by pipette and placed in a Sedgewick-Rafter counting chamber.
- c. the organisms in three of the four standard "strips" of the cell were counted and identified.
- d. a second aliquot was counted as in steps (b) and (c); and the organisms counted in the two aliquots were averaged.
- e. the abundance of organisms/m³ was calculated from the following formula:

$$X = \frac{(A) \left(\frac{1\text{ml}}{.75\text{ml}} \right) (B)}{D}$$

where: X = abundance (no/m³)

\bar{A} = aliquot average (no. of organisms)

B = volume of preserved sample (ml)

D = volume sampled (m³)

$\frac{1\text{ml}}{.75\text{ml}} = \frac{\text{vol. of counting cell (ml)}}{\text{vol. counted (ml)}}$

3. DISCUSSION

The use of a 12cm diameter net towed vertically through the water column may have resulted in under estimation of the populations of the most rapidly swimming zooplankters. Since these organisms were most likely in the upper range of zooplankton size, the overall affect might have been elimination of size overlaps between catches of the 76 μ net and the 571 μ macrozooplankton net, if it is assumed that there is a direct relationship between the size of an organism and its ability to avoid a plankton net. There are some data to support the validity of this assumption (McGowan and Fraundorf, 1966; Clutter and Anraku, 1968), but not enough data to quantify it for each net diameter, towing speed and species inventory.

C. MACROZOOPLANKTON AND ICHTHYOPLANKTON

1. STUDY AREA AND SAMPLING SITES

With the Nine Mile Point Nuclear Power Plant serving as a focal point, three concentric arcs were used as sampling boundaries. From 1 May 1973 to 16 May 1973 these arcs were set at radii of 1.0, 3.0 and 5.0 mile intervals. From 16 May 1973 through the completion of sampling on 12 December 1973, arcs with 0.5, 1.0 and 3.0 miles radii were used.

Samples were collected at the 20 and 40 ft. depths both east and west of the plant within each arc. In addition, samples were collected directly north of the plant at 60, 80 and 100 ft. depths (see Volume I, Figure I-34).

2. SAMPLING FREQUENCY

Macrozooplankton-fish larvae samples were collected weekly during daylight hours from 1 May to 14 June and from 20 September to 12 December at each of the 15 sampling sites. From 20 June to 4 September, day and night samples were collected weekly, unless inclement weather or mechanical breakdowns intervened.

3. SAMPLING METHOD

At each transect samples were collected at the surface, mid-water and bottom depths. Five minute collections were made towing a 6:1 (length to mouth diameter) ratio meter mouth diameter Henson-type plankton net equipped with #0 mesh netting (571 μ) with an attached PVC plankton bucket. Water volume passing through the plankton net was determined from a TSK Pigmy-pattern flow meter positioned in the center of the mouth of the net.

The following equation was used to determine the volume of water sampled by the net:

$$V = C \times N \times MA \quad (1)$$

where: V = Volume of water in m³

C = Calibration factor (m/revolution) as read from the calibration certificate

N = Number of revolutions as read from the flow meter

MA = Mouth area of the net in meters

Tows were conducted parallel to the shore following the depth contour. With engine speed maintained at a constant RPM, the total distance travelled during each tow averaged approximately 0.32km.

At each sampling depth the larval net was positioned below the surface using a system of float lines and a depressor which in turn were attached to a 200 ft. towline. At the completion of each tow the net was hauled to the boat by hand, and the larval bucket was removed. All collected material was poured into a one-quart glass jar, labelled and preserved in 10% formalin. Samples were then returned to the laboratory.

4. LABORATORY ANALYSIS

All samples were first washed with tap water in a No. 40 (420 μ) U.S.G.S. standard sieve to remove the formalin solution. The samples were then resuspended in 70% alcohol, poured into a graduated cylinder to determine total sample volume (ml) and returned to the jar. Five 10 ml aliquots were withdrawn from a well-mixed sample using a 10 ml wide bore pipette. These aliquots (sub samples) were placed in gridded petri dishes subdivided into 39 equal squares. Macrozooplankton in each sub-sample were then identified to order (or species, in the case of Leptodora kindtii). All taxa were counted in the total 10 ml sub sample, the numbers counted in each taxa in each of the five sub samples were then added and averaged. The averages were used to determine by proportion the total abundance in the sample.

For very abundant taxa a second sub sampling procedure was employed. An estimate of taxa density per 10 ml sub sample (petri dish) was obtained by counting individuals in 10 random squares (25.6%) of each petri dish. Repeated 5 times for each sub sample, the average density for each taxon considered was then used to calculate the total abundance in the sample:

$$X = 0.39 \times (A) \times (B) \quad (2)$$

where: X = Total number of macrozooplankton of a particular group.

A = Average number of organisms calculated in 10 random squares.

B = Total sample volume (ml).

The total number of each taxon represented in the sample was converted to the number/1000m³ by using the expression:

$$N = \frac{X}{V} (1000) \quad (3)$$

where: N = Number of organisms/1000m³.

X = Equation (2).

V = Equation (1).

The macrozooplankton sub samples were recombined with the original sample, and the fish eggs and larvae were then sorted and removed. All fish larvae were counted and identified to species; all eggs were counted. The length of 60 randomly selected specimens of each larval species was then determined with a clear metric scale positioned under the stage of a dissecting microscope.

The abundance of ichthyoplankton and eggs was calculated using equation (3).

5. DISCUSSION

It was found that the nets were rising slowly in the water column during the course of mid-water and bottom tows. The rate of rise was found to be approximately 5 ft/minute at 20 ft. depths and approximately 10 ft/minute at 40 ft. depths. Bottom tows at the 20, 40 and 60 ft. stations were, therefore, oblique tows through the entire water column. The mid-water tows at the 80 and 100 ft. stations were oblique tows from the mid-water level to the surface, and the bottom tows at these two stations were oblique tows from the bottom to mid-water depths.

Interstation comparisons for different water depths were based on abundance data representing the full water column. For example, bottom samples from the 20, 40 and 60 ft. stations sampled the entire water column; the average of the mid-water and bottom samples at the 80 and 100 ft. stations reflected an average for the entire column.

D. BENTHOS

1. FIELD PROCEDURES

Benthos were collected along four transects (see Volume I, Figure III-1). Sample stations were located at depths of 10, 20, 30, 40 and 60 ft. Samples were collected with a 13 horsepower Midland Mid-Whirl R impellerless vacuum pump. At each sampling station SCUBA

divers located a suitable area for sampling, then randomly dropped a metal ring 39.0cm in diameter within the designated area. Material within the ring was vacuumed through a semi-flexible reinforced plastic water hose with a diameter of 3.9cm. If the substrate permitted, material within the ring was collected to a maximum depth of 10cm.

Samples were collected in a #40 (420 μ) mesh lined cone measuring 36.1cm high by 35.6cm in diameter. Samples were then washed in the cone, transferred to 1.0 liter jars and preserved with 7% formalin. If Cladophora was present in the area during the sampling period, an effort was made to collect both a Cladophora sample and one from the regular substrate.

The first sampling period during 1973 was 30 June to 2 July. Single samples were collected at each station, except at the 10 and 20 ft. stations where Cladophora was present.

The benthic program was modified for the 29-31 August and 24 October collection periods (see Appendix IV-H). Replicate samples were collected at each station to improve estimates of the invertebrate population density. Because of difficulties encountered identifying benthic invertebrates which contract when fixed quickly, field preservation of samples using 7% formalin was replaced with narcotization of samples for approximately 12 hours using a 95% ethanol-methanol solution in a concentration of 1 drop per 100 ml of sample (Emile, 1951).

2. LABORATORY ANALYSIS

Prior to separation of organisms from the detritus and sediment, each benthic sample was first washed using tap water in a #40 (420 μ) USGS standard sieve. Invertebrates were removed from the substrate with forceps using a zoom dissecting microscope. Specimens were separated into groups (generally Order), counted and preserved in 70% ethanol. Large samples, primarily those containing Cladophora, were sub sampled using the following method:

- a. Very large samples were evenly spread in a 21.1 liter plexiglass box measuring 34-3/4" x 12" x 3". The box was constructed so that the sample could be divided into eight aliquots. The organisms were then separated using random sub-samples.
- b. Smaller samples were divided into fourths in a smaller plexiglass box.

Wet weight biomass was determined for each group. Specimens were poured onto a 15.9 square centimeter circular metal disc, covered with a fine mesh screen (0.095mm mesh), washed with tap water to prevent desiccation from the rapid evaporation of the alcohol and blotted dry. Each group was weighed to the nearest milligram.

Organisms were identified to the lowest possible taxonomic level.

Dipteran larvae and oligochaets were mounted on slides. Mounting media used were CMC-9 and CMC-9AF tinted with acid fuchsin (Turtox Biological Supplies). These also serve as clearing agents for the specimens. All

other invertebrate taxa were identified using a dissecting microscope.

Beginning in August, a sugar flotation technique was used to reduce the time required to separate invertebrates from sand and gravel substrates (Anderson, 1959). After two successive flotations, all remaining invertebrates were picked from the substrate using the technique described previously. To reduce the separation time for the samples, the use of a Phloxine-B solution was initiated (Mason and Yevich, 1967). This solution stains the animal tissue red, making visual observation of the organisms easier. After fixation, organisms were left in a solution of 70% ethanol containing the stain for a minimum of 48 hours before separation.

E. PERIPHYTON

1. SAMPLING LOCATIONS

a. Bottom Periphyton

Four transects (NMPW, NMPP, FITZ and NMPE) were established perpendicular to the shoreline in the vicinity of the Nine Mile Point Nuclear Power Station. Each transect was the same as defined for trawl, gill net and benthos sampling (see Volume I, Figure II-1). Sampling locations were established at 5, 10, 20, 30 and 40 ft. depth contours.

b. Buoy Periphyton

Three buoys were utilized for periphyton collection: the west buoy was located at 43°31.1'N, 76°25.2'W; the NMPP buoy at

43°31.7'N, 76°24.4'W; the east buoy at 43°31.8'N, 76°23.3'W.

Each buoy was anchored at the 40 ft. depth contour. A structure (see Figure I-1) extended below each buoy to a depth of 17 ft. Samples were collected from the 2, 7, 12 and 17 ft. depths.

2. SAMPLING FREQUENCY

a. Bottom Periphyton

At two week intervals from 15 June to 14 September 1973, samples were collected and the substrates were replaced. After 14 September, inclement weather conditions created an irregular retrieval schedule. Table I-2 lists each transect, collection date and whether the substrates were retrieved or had been lost.

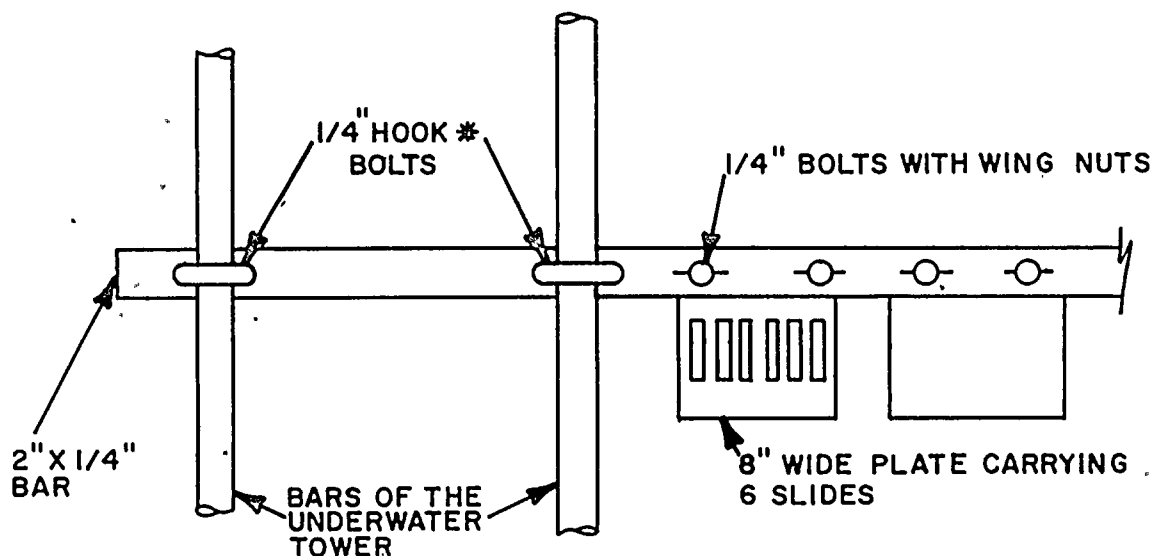
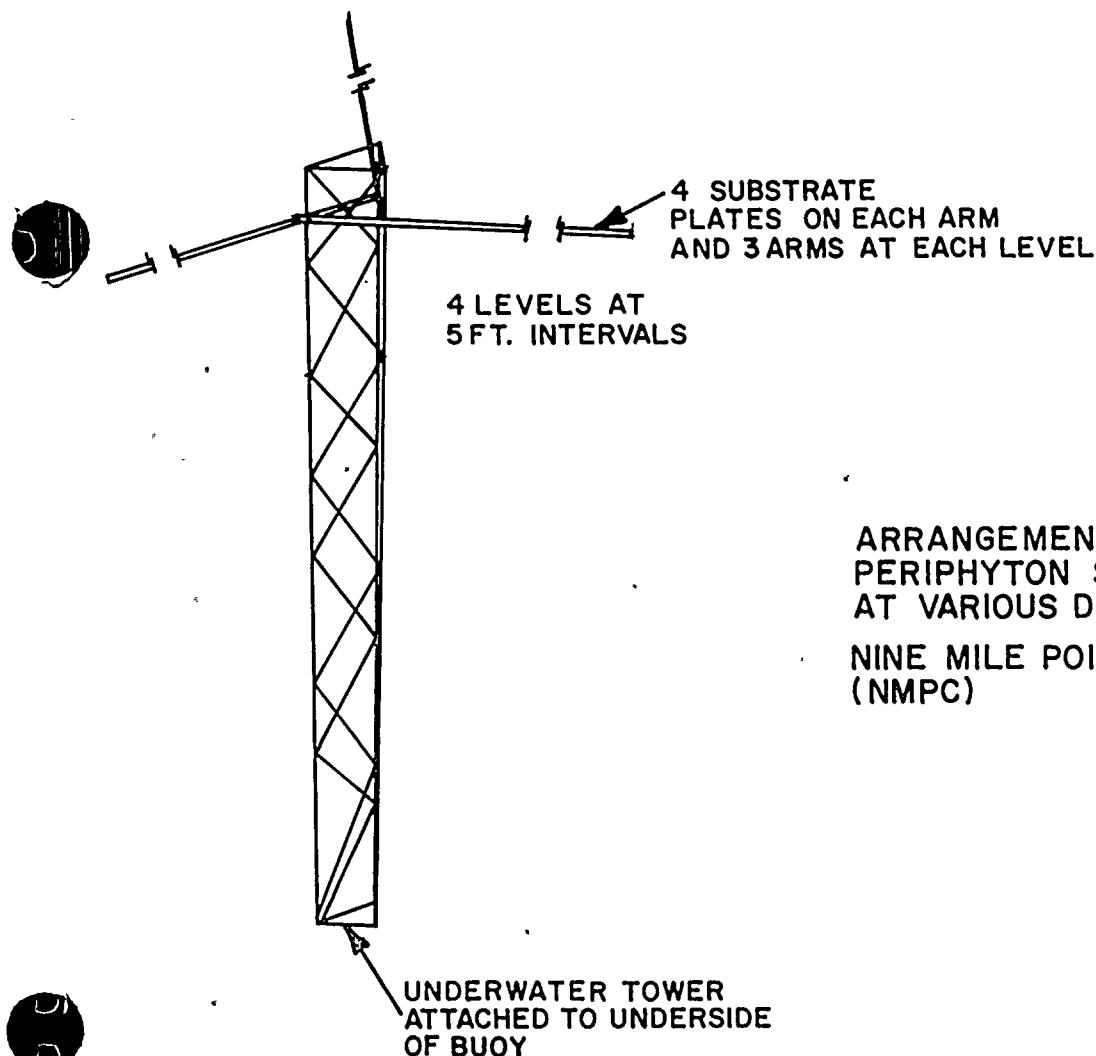
b. Buoy Periphyton

Samples were collected at two week intervals from 31 July to 12 November 1973. Table I-3 lists each collection date and whether the substrates were retrieved or lost. Periphyton was accumulated using glass microscope slides and styrofoam blocks (1" x 1" x 6") as substrates. Cumulative and bi-monthly samples were collected by SCUBA divers.

3. LABORATORY ANALYSIS AND TECHNIQUES

a. Glass Slides

For both bottom and buoy periphyton, glass slide substrates were analyzed in the same manner. For both bottom or buoy periphyton,



* UNSATISFACTORY
MANY BARS BROKE
FREE

ATTACHMENT OF BARS TO
UNDERWATER TOWER FOR
PERIPHYTON SAMPLING
NINE MILE POINT, 1973
(NMPC)

TABLE I-2

BOTTOM PERIPHYTON

Sampling Date 6-29

Contour Depth	Exposure 2.0 wks.				Exposure			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
5	X	X	X	X				
10	X	X	X	X				
20	X	X	X	X				
30	X	X	X	X				
40	X	X	X	-				

Sampling Date 7-16

	Exposure 2.4 wks.				Exposure 4 wks			
5	X	-	X	X	X	-	-	X
10	X	-	X	X	X	-	X	-
20	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X
40	X	X	X	-	X	X	X	-

Sampling Date 7-30

	Exposure 2.0 wks.				Exposure 6.4 wks			
5	X	-	-	X	X	-	X	-
10	X	X	X	X	-	-	X	X
20	-	X	X	X	-	X	X	X
30	-	X	X	-	X	X	X	X
40	-	-	X	-	X	X	X	-

Sampling Date 8-15

	Exposure 2.3 wks.				Exposure 8.7 wks.			
5	X	-	-	X	X	-	-	-
10	X	X	X	-	X	-	X	X
20	X	X	X	X	X	X	X	X
30	X	X	X	X	X	-	X	X
40	X	X	X	X	X	X	X	X

TABLE I-2 (cont.)

Sampling Date 8-30

Contour Depth	Exposure 2.1 wks.				Exposure 10.8 wks.			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
5	X	-	-	X	-	-	-	X
10	X	X	X	X	X	-	X	X
20	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X

Sampling Date 9-14

Contour Depth	Exposure 2.1 wks.				Exposure 12.9 wks.			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
5	X	-	-	-	X	-	-	-
10	X	-	-	X	-	-	-	X
20	X	X	X	X	-	X	X	X
30	X	X	X	X	X	X	X	X
40	X	X	X	X	-	X	X	-

Sampling Date 10-12

Contour Depth	Exposure				Exposure 3.9 wks.			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
5	-	-	-	-	X	-	-	-
10	-	-	-	-	X	-	-	-
20	-	-	-	-	X	-	-	-
30	-	-	-	-	X	-	-	-
40	-	-	-	-	-	-	-	-

Sampling Date 10-20

Contour Depth	Exposure 5-7 wks.				Exposure 16 wks			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
5	-	-	-	-	-	-	-	-
10	X	-	-	-	-	-	-	-
20	-	-	-	-	-	-	X	X
30	-	-	X	X	-	-	X	X
40	-	-	-	-	-	-	-	X

TABLE I-3

BUOY PERIPHYTON

Sampling Date - 8/14/73
Exposure 2 wks.

	NMPW	NMPP	NMPE		NMPW	NMPP	NMPE
GLASS				STYROFOAM			
2	X	X	X	2	X	X	X
7	X	X	X	7	X	X	X
12	X	X	X	12	X	X	X
17	X	X	X	17	X	X	X

Sampling Date - 8/29/73
Exposure 4.5 wks.

GLASS				STYROFOAM			
2	X	X	X	2	X	X	X
7	X	X	X	7	X	X	X
12	X	X	X	12	X	X	X
17	X	X	X	17	X	X	X

Sampling Date - 9/13/73
Exposure 6.7 wks.

GLASS				STYROFOAM			
2	X	X	X	2	X	X	X
7	X	X	X	7	X	X	X
12	X	X	X	12	X	X	X
17	X	X	X	17	X	X	X

Sampling Date - 9/27/73
Exposure 8.7 wks.

GLASS				SYTROFOAM			
2	X	X	X	2	X	X	X
7	X	X	X	7	X	X	X
12	X	X	X	12	X	X	X
17	X	X	X	17	-	-	X

Sampling Date - 10/11/73
Exposure 10.7 wks.

GLASS				SYTROFOAM			
2	X	X	X	2	X	X	X
7	X	X	X	7	X	X	X
12	X	X	X	12	X	X	X
17	X	X	X	17	-	X	X

TABLE I-3 (cont.)

Sampling Date - 10/26/73
Exposure 3.0 wks.

	NMPW	NMPP	NMPE		NMPW	NMPP	NMPE
GLASS				STYROFOAM			
2	X	-	X	2	-	-	X
7	X	X	X	7	X	X	X
12	X	X	X	12	X	X	X
17	-	X	X	17	-	-	-

Sampling Date - 11/8/73
Exposure 14.6 wks.

GLASS				STYROFOAM			
2	-	-	X	2	-	-	-
7	-	-	X	7	-	-	-
12	-	-	X	12	-	-	-
17	-	-	X	17	-	-	-

Sampling Date - 11/12/73
Exposure 15.6 wks.

GLASS				STYROFOAM			
2	X	-	-	2	-	-	-
7	X	X	-	7	-	X	-
12	-	X	-	12	-	X	-
17	-	-	-	17	-	-	-

each set of eight slides per depth were arranged in groups for the analysis of species present, biomass and chlorophyll a concentration. One pair of slides was used for identification of species (2 pairs [one replicate] for bottom samples); one pair was used for biomass; and one pair was used for chlorophyll a analysis.

(i) Identification

Attached material from each pair of slides was scraped with a razor blade into 2 or 4 dram vials containing 5% formalin.

Suspended scrapings were agitated with a magnetic stirrer to break up algal films. Two 0.1 ml aliquots were analyzed in a Palmer-Maloney nanoplankton counting cell (0.1 ml capacity).

Identifications for each aliquot were made as near to species level as possible; three 5 or 10 mm strips (depending on organism density) were analyzed to quantify clumps (colonial forms) and total cells in each aliquot. The results of six strip counts were averaged; the resulting values converted to number of organisms per dm^2 (square decimeter) using the following formula:

$$\text{Average per aliquot} = A \times B/C$$

where: A = Volumetric ratio of Palmer-Maloney cell to the number of strips counted.

B = Volume of concentrated sample (ml).

C = Substrate area (a average substrate area for both, excluding area inside rubber stopper).

(ii) Biomass

Dry weight biomass was determined by placing two slides in a drying oven at 105°C for approximately 12 hours, cooling the slides in a desiccator for 30 minutes, and weighing the slides on a Mettler-type H54 analytical balance. Weights were recorded to the nearest milligram. Slides were then transferred to a muffle furnace and combusted for 30 minutes at 600 degrees C; weight loss on ignition was expressed as mg ashfree dry weight/dm². The amount of biomass accumulation per exposure period was designated "production rate," according to the following expression (Anonymous, 1971):

$$P = \frac{\text{mg ash-free dry weight/slide}}{TA}$$

where: P = Production rate

T = Exposure time (days)

A = Area of slide in square decimeters (0.16dm²).

(iii) Chlorophyll a

The trichomatic method (Anonymous, 1971) was used for chlorophyll determinations.

b. Styrofoam Substrates

Eight 1 inch cubes were randomly selected for analysis. All exposed surfaces (three sides) were thinly sliced from each cube and placed in a 40 oz. Sears Blendmaster R/blender with the preservatives in which the blocks were stored. Distilled water was

then added to 1 liter. The blender was run for short intervals (approximately 5.0 seconds) at low speed until the styrofoam strips were fragmented into small particles free of attached material. After adding 10 ml. of concentrated dishwasher detergent (Calgonite R) to serve as a settling agent, samples were transferred to one liter separatory funnels and allowed to settle for 4-5 days. Funnels were slowly swirled daily to aid in settling.

(i) Identification

Enumeration and identification of organisms in the settled material was conducted in the Palmer-Maloney cell in the same manner as that described above. Density was converted to abundance per square decimeter; however, density was determined by first measuring the area of each individual styrofoam strip prior to agitation.

For those organisms which had a tendency to clump or were too large to pipette (eg., Cladophora, invertebrates), quantification was accomplished by removing a 10 ml sub-sample of the homogenously mixed styrofoam sample. The sub-sample was then placed in a gridded petri dish and the organisms were counted with a dissecting microscope. Density values were converted to density per square decimeter using a standard proportionality formula based on substrate volume and substrate area.

(ii) Chlorophyll a

The trichromatic method (Anonymous, 1971) was used for chlorophyll determinations

F. FISH

Fish populations in the Nine Mile Point area of Lake Ontario were sampled from March through December 1973. Near-shore fishes were collected with beach seines and offshore fish communities were sampled by trawling and gill netting. Population characteristics of selected species were determined on the basis of data compiled for individuals of each species.

1. SAMPLING LOCATIONS

Four transects were established perpendicular to the south shore of Lake Ontario near the Niagara Mohawk Power Corporation's Nine Mile Point Nuclear Power Station (see Volume I, Figure III-1). Transects were defined as follows:

- a. The Nine Mile Point Plant (NMPP) transect extended in a northerly direction from the intake-discharge system of the nuclear station.
- b. The FitzPatrick (FITZ) transect was approximately 0.9 miles east of NMPP and originated near the James A. FitzPatrick Nuclear Power Plant. The transect projected north from the power plant.
- c. The Nine Mile Point West (NMPW) transect was about 1.7 miles west of NMPP and extended in a north-northwest direction.

- d. The Nine Mile Point East (NMPE) transect extended north-northeast from shore approximately 2.5 miles east of NMPP.

Transects NMPP, FITZ and NMPE generally correspond with Storr's (1972) E1, E2 and E8 transects, respectively. NMPE is in the general vicinity of the Oswego (Mexico Bay) area sampled during the Lake Ontario cooperative fishery survey (U.S.B.S.F.W. and N.Y.D.E.C., 1973). QL&M (1973) sampled fish populations at the NMPW and NMPP transects during 1972.

Seine collections were made in the near-shore area of each transect. Trawls were conducted along the 20, 40 and 60 ft. depth contours of the NMPW, NMPP and NMPE transects. Trawling initiated at NMPP crossed the FITZ transect due to the proximity of the two transects, thus, eliminating the need for separate collections. Gill nets were set at the 15, 30, 40 and 60 ft. depth contours at all four transects.

The approximate distance of the depth contours from shore varied between transects as indicated below:

<u>Depth Contour, ft.</u>	<u>Distance in Yards</u>			
	<u>NMPW</u>	<u>NMPP</u>	<u>FITZ</u>	<u>NMPE</u>
15	280	150	130	180
20	320	280	220	240
30	700	380	370	450
40	750	470	580	800
60	900	670	830	2100

2. SAMPLING PROCEDURES

a. Seines

Collections were made with a 100 ft. x 8 ft. x 8 ft. seine. One end of the net was held at the shoreline and the remainder of the net placed on board a boat which moved out into the Lake and returned to shore a standard distance from the starting point. The movement of the boat described an arc along the shoreline. The net was gradually released as the boat proceeded along the prescribed course.

b. Trawls

Trawls were conducted with a 30 ft. otter trawl of 2 in. stretched mesh in the wings and body and 1 1/2 in. stretched mesh in the cod end. The cod end was lined with 1/2 in. stretched mesh netting. During trawling operations, the surface area of the net mouth was approximately 50 ft². Hydrofoils were attached to the top of the doors to facilitate near bottom trawling. For surface trawls 8 in. x 27 in. rubber floats were attached to the top of the doors. Tows were conducted parallel to shore for 15 minutes at a constant RPM.

c. Gill Nets

Experimental gill nets 150 ft. x 8 ft. were used. Each net was made of six 25 ft. panels; each panel was composed of 1/2, 3/4, 1, 1 1/2, 2 or 2 1/2 inch² mesh. Monofilament nets were used

from the beginning of sampling until approximately 1 November when they became difficult to obtain. Nylon multifilament nets were used during November and December.

The individual panels of both the multifilament and monofilament gill nets were constructed of varying size twines. Twine size was determined by the size of the mesh. Since twine size may affect the efficiency of the net, the mesh sizes of the panels, twine size and twine test strength are presented below:

Multifilament Nets

<u>Mesh Size (in.)</u>	<u>Twine Size (#)</u>	<u>Test Strength (lbs.)</u>
1/2	210-2	7
3/4	69	14
1, 1 1/2, 2, 2 1/2	104	15

Monofilament Nets

1/2, 3/4, 1, 1 1/2	139	15
2, 2 1/2	177	20

Gill nets were set parallel to shore at all four transects. On each transect a bottom net was set at 15 ft. and surface and bottom nets at the 30, 40 and 60 ft. depth contours. Nets were generally set for 48 hours and harvested every 12 hours. Harvest times were scheduled for dawn and dusk in an effort to determine diurnal patterns of fish distribution and abundance.

All fish samples were placed in plastic bag lined cardboard barrels to which 10% buffered formalin was added. Labelled barrels were stored at the laboratory until fish analysis was initiated.

Special gill net collections were made to provide fish for stomach content analysis. Bottom gill nets were set at 15 and 30 ft. depth contours along all transects on 27-29 August, 5 September, 8 and 24-25 October and 26-28 November. Nets were set just before sunrise and again just before sundown. Nets were harvested every hour for four hours from the time of setting. Fish were transported to the laboratory in containers of ice, water and rock salt. The stomach and esophagus of each fish was excised upon arrival at the laboratory and stored in labelled vials containing 10% buffered formalin until stomach analysis could be completed.

3. SAMPLING FREQUENCY

a. Seines

Collections were made bi-monthly from June until November.

b. Trawls

Day and night, surface and bottom trawls were conducted once per month during March, April, May and December. Bi-monthly day and night, surface and bottom trawls were made from June to November, excluding August. During August, these collections were made on three dates.

c. Gill Nets

Collections were made bi-monthly from June through December.

4. LABORATORY PROCEDURES

All fishes were speciated with the aid of taxonomic keys by Hubbs and Lagler (1958) and Eddy (1969). The number of fish of each species was determined for each collection. Individual fish were weighed to the nearest 0.1 gram, and total length measured to the nearest millimeter (mm). Sex was determined by visual inspection of the gonads.

Alewives (Alosa pseudoharengus), rainbow smelt (Osmerus mordax), white perch (Morone americana), yellow perch (Perca flavescens) and smallmouth bass (Micropterus dolomieu) were subjected to additional laboratory analysis to provide data on the population dynamics of these species. Alewives and rainbow smelt were selected due to the prominence of these species in the Lake collections and in fish collections at the Nine Mile Point Nuclear Power Station impingement screens. White perch, yellow perch and smallmouth bass stocks support valuable recreational fisheries in the Lake.

a. Length-Weight Relationship

Length-weight relationships were determined for males, females and males and females combined of each species by least square linear regression analysis (Tesch, 1971). All data were log-transformed for the analysis. The relationship between length and weight is expressed by the equation:

$$\text{Log } W = a + b \log L \quad (1)$$

Where: W = weight

L = length

Correlation coefficients were determined for each regression analysis (Simpson, Roe and Lewontin, 1962) [see Appendix II].

b. Condition Factor

The relative "well-being" or condition of a fish was determined by the calculation of condition factors (Tesch, 1971). The factor (Kn) was determined by the length-weight relationship for a given species. The formula used was:

$$Kn = \frac{W}{L^3} \quad (2)$$

Where: W = is the observed weight of a fish of a specific length

\hat{W} = is the expected weight of an individual of that length as determined by length-weight regression equation of data for that species (see Appendix II).

c. Age and Growth

Ten to 15 scales were taken from all age groups of each species. Alewife scales were removed from the left side of the fish below the lateral line at the level of the vent (Marcy, 1969). Scales were taken from a mid-lateral posterior position approximately even with the adipose fin on the left side of rainbow smelt (Dryfoos, 1965). White perch scales were taken from the left side midway between the lateral line and dorsal fin, between the spiny and soft-rayed dorsal fins (Mansueti, 1960). Yellow perch scales were taken from immediately

behind the left pectoral fin (Wahtola and Evenhuis, 1968). Small-mouth bass scales were removed from the area near the tip of the left pectoral fin (Everhart, 1950). Scales were washed with a solution of liquid detergent and water and mounted between glass microscope slides. A Bausch and Lomb tri-simplex projector was used to facilitate counting and measuring of annuli. After annuli were identified, a line was drawn on the projection surface from the center of the focus to the anterior edge (bisecting the scale), and the distance from the center of the focus to each annulus and the scale edge was measured. These measurements were used to calculate the actual distances between the focus and annuli and scale edge. Each scale was read by two investigators; scales of doubtful interpretation and regenerated scales were discarded. Annulus formation was considered complete by 1 January; all fish captured after this date were placed in the next age group. The total length of a fish at the time of annulus formation was calculated as follows:

$$L' = C + (S'/S) (L-C) \quad (3)$$

Where: L = length of the fish in mm when annulus x was formed.

S' = length of scale from focus to annulus x.

S = total length of scale.

L = length of fish at time of capture.

C = a constant that approximates the size of the fish when scales first form.

The value C is synonymous with the intercept a in the regression of body length on scale length.

$$L = a + bS \quad (4)$$

Where: a and b are constants,

S is scale length in mm, and

L is body length in mm.

d. Coefficient of Maturity

Gonads (ovaries or testes) were excised from 10 fish of each species selected randomly from each collection and weighed to the nearest 0.01 gram. Coefficient of maturity was determined by the following formula:

$$\text{Coefficient of maturity} = \frac{\text{Gonad wt.}}{\text{Fish wt.} - \text{Gonad wt.}} \times 100 \quad (5)$$

Spawning time was defined by graphing the seasonal change in the coefficient of maturity (Nikolsky, 1963). Further explanation of this index is given in Appendix II.

e. Fecundity

Ovaries were removed from alewives, white perch and smallmouth bass captured just prior to the predicted spawning time and fixed in modified Gilson's fluid (Bagenal and Braum, 1971). Spawning time was predicted from coefficient of maturity graphs. A total of forty ovaries from all age classes of each species were collected where possible. Laboratory analysis revealed that rainbow

smelt and yellow perch had spawned prior to the initiation of sampling, therefore, fecundity estimates could not be made for these species. Differences in egg sizes for the three species dictated that two methods be used for estimating fecundity (Bagenal and Braum, 1971).

(i) Fecundity Method for Alewife and White Perch

Eggs were removed from the Gilson's fluid, separated from ovarian tissue, and placed in a measured volume of water. The displacement volume provided an estimate of the egg volume. The eggs were stirred to maintain uniform distribution; a 0.1 ml sub sample was removed by pipette. Eggs in the sub-sample were placed on a slide and examined with the aid of a dissecting microscope. Five sub samples were counted and the mean number of eggs in a sample determined. The total number of eggs in an ovary was estimated by the following formula:

$$\begin{array}{l} \# \text{ eggs in } \\ \text{ovary} \end{array} = \begin{array}{l} \text{Av. } \# \text{ eggs in } \\ \text{subsample} \end{array} \times \frac{\text{Volume of all eggs in ovary}}{\text{Volume in subsample}} \quad (6)$$

(ii) Fecundity Method for Smallmouth Bass (Baxter, 1959; Simpson, 1959; Bridger, 1961)

Eggs were removed from the Gilson's fluid, separated from the ovarian tissue and washed with tap water. The eggs were separated and air dried for 24 hours. Total eggs were weighed to the nearest 0.1 gram; five sub samples (approximately 0.5 gram each) were randomly selected and weighed to the nearest

0.01 gram. All the eggs in each sub sample were counted and the five counts averaged. The total number of eggs in each ovary was calculated by the following formula:

$$\begin{array}{l} \# \text{ eggs in } \\ \text{ovary} \end{array} = \begin{array}{l} \text{Av. } \# \text{ eggs in } \\ \text{subsample} \end{array} \times \frac{\text{wt. of all eggs in ovary}}{\text{av. subsample wt.}} \quad (7)$$

f. Stomach Analysis

Food preference characteristics were determined for white perch, yellow perch and smallmouth bass. Each species was divided into a number of arbitrary size (length) groups in consideration of possible changes in food preferences as growth occurs. Size categories were set up as follows:

<u>Size Category</u>	<u>Length (cm)</u>		
	<u>White Perch</u>	<u>Yellow Perch</u>	<u>Smallmouth Bass</u>
I	0-11.0	0-8.4	0-17.1
II	11.1-16.7	8.5-14.0	17.2-20.7
III	16.8-19.8	14.1-18.6	20.8-23.7
IV	19.9-21.6	18.7-23.6	23.8-26.9
V	21.7-23.1	23.7-27.9	27.0-29.5
VI	23.2-24.9		29.6-31.5
VII	25.0-25.5		31.6-33.1
VIII	25.6-26.5		

Stomach analysis methods follow those reviewed by Windell (1971).

(i) Frequency of Occurrence

Stomach contents were washed into a petri dish, where individual food organisms were sorted and identified. The esophagus was examined for any food that may have been regurgitated when the fish were placed in the ice bath. The number of stomachs in which each food item occurred was recorded and expressed as a percentage of the total number of stomachs examined.

(ii) Average Number of Food Items

The number of individuals for each food type in each stomach was counted. These were summed to give totals for each kind of food item in each size category of each species. Totals were divided by number of stomachs examined to give the average number of each food item found in each stomach.

(iii) Percent of Total Number of Food Items Consumed

The relative percent composition of a given food item was determined by dividing the numbers of a given food item by the total number of food items for a particular size grouping of fish under study.

(iv) Rank Based on Percent of Total Volume

The percent of total stomach volume was used to establish a rank order for particular food items.

(v) Volumetric Measurement of Stomach Contents

Similar food types from all stomachs within a size group for each species were pooled for volumetric measurements. Volume was determined to the nearest 0.1ml by centrifuging the sample for three minutes at 1200 rpm. Volumes of individual organisms were estimated by dividing total volume of organisms of each group by the total number of organisms in that group. These volumes were summed for each fish size grouping and expressed as the percentage of the total food volume. The volumetric content of each stomach by each food group was expressed as a percentage of the total food volume in that stomach.

G. IMPINGEMENT SAMPLINGS

1. COLLECTION PROCEDURES

Cooling water for Unit 1 of the Nine Mile Point Nuclear Power Station is supplied by two circulating pumps with a combined capacity of approximately 385.9 million gallons per day. Three vertically mounted travelling screens of 3/8 inch steel mesh are located a short distance in front of the pump. Flow velocity within the intake approaches 1.9 ft./sec. Under normal operating procedures, all screens are simultaneously rotated and backwashed for three minutes every hour. Screen washing frequency increases during periods when impingement rates are high. Screen washings flow through a steel and concrete sluiceway which runs in a westerly direction across the screens and beneath the screenhouse floor. The sluiceway then turns north into a concrete sluiceway and empties into the cooling water discharge canal.

Samples of impinged fishes are collected at the point where the sluiceway empties into the discharge canal. A 1 in. steel mesh basket 46 1/2 in. x 46 1/2 in. x 35 5/16 in. (the basket sides are slanted so that bottom dimensions are 43 1/2 in. x 43 1/2 in.) was lowered into the discharge immediately below the sluiceway to collect the washings. The basket was lined with 1/4 in. mesh netting and had a removable overflow guard which attached to the top of the basket to prevent the overflow of fishes. The basket was retrieved after the last of the wash water had passed through the sluiceway.

During January and February, the basket was retrieved at hourly intervals. The total number of hours sampled on each collection date was variable as indicated below:

<u>SAMPLING DATE</u>	<u>TOTAL NO. HOURS SAMPLED</u>
1-02-73	9
1-16-73	8
1-29-73	8
2-12-73	9
2-28-73	19

Beginning in March, samples were collected on the same day each week; from 1200 hours on Wednesday to 1200 hours on Thursday. Samples were removed hourly for the entire 24 hour period to provide data on diurnal and seasonal impingement patterns. After collection, fishes were preserved in buffered 10% formalin and placed in storage barrels.

Due to the large numbers of alewives (Alosa pseudoharengus) that were collected on some sampling dates, a randomly drawn sub-sample equalling

10% of the alewife sample was saved for laboratory analysis. All specimens of all other species were retained for laboratory analysis.

Hourly records of the following ambient and physical conditions were recorded each 24 hr. sampling period: air temperature, lake temperature, intake water temperature, discharge water temperature, discharge water temperature, wind speed, wind direction, percent tempering, cooling water flow, and cloud cover. Dissolved oxygen concentrations of the cooling water were determined for water samples taken from the intake forebay and the discharge canal every six hours. Dissolved oxygen was determined by the modified Winkler method.

2. LABORATORY ANALYSIS

All fishes were identified to species and the number of individuals in each species counted. Identification of fishes was guided by taxonomic keys prepared by Hubbs and Lagler (1958) and Eddy (1969). All fishes retained were returned to the laboratory where the length (cm), weight (g) and sex of each individual was determined. Gonads and scales from alewives, rainbow smelt, smallmouth bass, white perch and yellow perch were sampled for use in coefficient of maturity and age and growth calculations, respectively (see Appendix II for details of these procedures).

3. DATA ANALYSIS

The data accumulated during the 1973 impingement studies were employed in a series of analyses to define:

- a. seasonal and diurnal periodicity of impingement,
- b. population aspects of impingement,
- c. condition of impinged fishes,
- d. age-composition of impinged fishes.
- e. maturity or spawning conditions of impinged fishes,
- f. community relationships of species-groups impinged, and
- g. relationship of impingement to physical conditions.

A variety of statistical and biometric techniques were employed in these analyses. Graphic reduction of data also facilitated interpretation of accumulated information.

Graphic techniques were employed in analysis of the age-composition of alewives and smelt impinged on a seasonal basis. The techniques included length-frequency distribution of sub samples and log-normal transformation plots (Cassie, 1954; Tesch, 1971) to discern modal frequency of lengths within age categories (see also Appendix VI).

Statistical analyses were utilized to determine significance of differences between parameters and to establish the presence or absence of periodic functions in impingement data.

Community analyses were based upon data from the literature and upon abundance-species distribution data from 1972 and 1973 impingement collections at Nine Mile Point Unit 1. The community data reduction techniques encompassed indices of species diversity, evenness of species distribution, and richness of species distribution (see Appendix II for a discussion of these procedures).

H. ENTRAINMENT

1. SAMPLING LOCATIONS

Phytoplankton, zooplankton, chlorophyll a and dissolved oxygen samples were collected from the surface waters of the intake forebay and from the discharge bay. Macrozooplankton and ichthyoplankton (fish eggs and larvae) samples were collected in the intake forebays at the surface and at mid-depth and in the discharge bay at the mid-depth.

2. SAMPLING FREQUENCY

Intake and discharge phytoplankton and zooplankton samples were collected in replicate twice per month from July through December.

Single samples for chlorophyll a analysis were collected at the same time. Macrozooplankton and ichthyoplankton samples were collected weekly, during the day and the night, from July through December.

Single samples for dissolved oxygen determinations were taken concomitantly with macrozooplankton and ichthyoplankton samples.

IN-PLANT ENTRAINMENT COLLECTION DATES

<u>PHYTOPLANKTON</u>	<u>ZOOPLANKTON & CHLOROPHYLL <u>a</u></u>	<u>MACROZOOPLANKTON, ICHTHYOPLANKTON & DISSOLVED OXYGEN</u>
7/11	7/11, 11/7	7/25 9/19
8/17	8/17 11/21	8/1 9/26
9/4	8/31 12/5	8/8 10/3
9/20	9/20 12/19	8/15 10/10
10/10	10/10	8/22 10/17
10/25	10/25	8/29 10/24
		9/5 12/6
		9/12 12/9

3. COLLECTION METHODS

a. Phytoplankton

Two methods were used to determine phytoplankton viability (see Analysis Procedures). During July and August, 20 liters of surface water were collected in a plastic bucket from both intake and discharge bays and poured through a 12 cm mouth-diameter Wisconsin-style nanoplankton net with a mesh size of 28μ . These samples were concentrated and examined for viable flagellated phytoplankters. During September and October, phytoplankton viability in intake and discharge water was determined on the basis of differences in oxygen production between intake and discharge samples. Fifteen liter intake and discharge replicate samples were collected in glass carboys and transported to the laboratory where oxygen production was measured with a standard light and dark bottle technique.

b. Zooplankton

Between July and November, 20 liters of surface samples were collected from both the intake and discharge bays with a plastic bucket, concentrated by sieving through Wisconsin-style zooplankton net (mesh size = 76μ), and resuspended in a container filled with 50 ml of filtered sample water. During December, sample size was increased to 50 liters because of the seasonal decrease in zooplankton numbers.

c. Macrozooplankton and Ichthyoplankton

Macrozooplankton and ichthyoplankton were collected with 4:1 ratio 0.5 meter mouth diameter plankton nets equipped with a PVC cod-end bucket; both the net and bucket were equipped with #0 mesh (571 μ) net material. Each net had a TSK Model 313 flow meter placed approximately one-third of the net diameter toward the center of the net opening for determining the water-volume sampled. After each collection, the number of revolutions made by the TSK flowmeter was recorded for later conversion to volume sampled.

At the intake forebays two nets were used, one just below surface and the other at mid-depth. By using a continuous line which passed through underwater rings clamped to the "trash racks," the intake nets were moved to different depths in the intake current.

Sampling the discharge required lowering a block of cement attached by a cable into the discharge bay providing a secure point of attachment for the plankton net at mid-depth. Four 15 minute samples and one 60 minute sample were collected at the intake and the discharge during both day and night periods.

d. Chlorophyll a

A plastic bucket was used to retrieve surface samples from the intake and discharge bays. Five one-hundred ml polyethylene bottles were filled from the bucket. Chlorophyll aliquots were brought back to the laboratory for filtration within 45 minutes after collection (see Water Quality Materials and Methods).

4. ANALYSIS PROCEDURES

a. Phytoplankton

Two methods were used to determine phytoplankton viability. The first method was used during July and August and was based on observation of flagellated forms in a 1 ml capacity Sedgewick-Rafter counting chamber immediately after collection for a determination of live organisms (moving flagella indicated a living cell). This method proved inadequate, since flagella are often difficult to see and since flagellated organisms compose a small percentage of the total phytoplanktonic population.

The second method was used during September and October and consisted of conducting light-dark bottle studies to determine viability. Initial dissolved oxygen determinations were made by drawing water from each carboy into B.O.D. bottles; the samples were analyzed immediately using the modified Winkler Method (Anonymous, 1971). Then, the air above the water level was evacuated from the discharge to that in the intake carboy. Two additional sets of B.O.D. bottles were prepared as before; one of each set was incubated at 20°C for 6 hours in the light (approximately 1000 ft. candles); the other was incubated at the same temperature in darkness. The dissolved oxygen concentration was determined for both sets of light and dark bottle samples.

b. Zooplankton

A 1 ml aliquot drawn from the homogenously mixed concentrate was placed in a 1 ml capacity Sedgewick-Rafter counting chamber. A

cover glass was placed over the cell and dead organisms were identified and enumerated at the plant site, using a stereoscopic dissecting microscope at 100 magnifications. Afterward, the cell was sealed with Canada balsam and returned to the laboratory where all organisms were immediately identified and enumerated. The number of live organisms present in the original sample was calculated by subtraction.

A volumetric determination of the remaining concentrate was made with a 1 ml factor added to compensate for the cells removed for quantitative determination. This value was then used for calculating the total number of organisms in the sample (see Microzooplankton, Appendix I-B).

c. Macrozooplankton and Ichthyoplankton

As the larvae were picked and counted at the plant site, they were separated into live, stunned and dead categories. Live larvae were actively swimming; stunned larvae were weakly swimming or moved when disturbed; and dead larvae did not move when disturbed.

Samples were washed with tap water in a #0 mesh (571 μ) PVC plankton bucket; the volume of the washed sample was measured in a graduated cylinder. Five 10 ml aliquots (sub-samples) were withdrawn from the homogeneously mixed sample using a broad-barrelled 10 ml pipette with a cut-off tip. Sub samples were placed in gridded petri dishes divided into 39 equal squares. Macrozooplankton were counted and identified in order in the total

sub sample or in 10 randomly selected squares, depending on the abundance of the organisms. The sub sample numbers were used to a proportionality formula to determine total numbers of organisms in the sample (see Macrozooplankton and Ichthyoplankton, Appendix I-C).

All fish larvae and eggs were picked, sorted and counted from the whole sample and preserved in 70% ethanol. All larvae were identified to species, where possible, using a Bausch and Lomb stereoscopic microscope. Length measurements were made of the first 60 larvae (or the total sample if it contained fewer than 60 larvae), using an ocular micrometer or, for the larger larvae, a transparent plastic 15 cm ruler placed under the petri dish.

5. DISCUSSION

Three basic difficulties were encountered in the entrainment studies:

- a. obtaining samples representative of the abundance of populations in the discharge and intake waters,
- b. determining living, stunned and dead organisms, and
- c. assuring incubated samples were influenced in the same degree by the same parameters as were in situ populations.

As mentioned in the introduction to the entrainment section, the same difficulties were encountered in other studies. Until the technology of working with entrainment populations improves, it would be prudent to consider all data in the light of the problems involved.

6. STATISTICAL ANALYSES

a. Phytoplankton

There were not enough data to apply statistical analyses; the data are presented as tables and are discussed in terms of general trends (see Entrainment Results section).

b. Microzooplankton

(i) A two-way ANOVA was used to determine whether or not there were significant differences in the abundance of copepods, cladocerans, and rotifers between the intake and discharge.

(ii) An arcsine transformation was used to test the equality of the percentage of live microzooplankters between the intake and discharge (Sokal and Rohlf, 1969).

c. Macrozooplankton and Ichthyoplankton

The same analyses described for microzooplankton were conducted, using macrozooplankton abundance and ichthyoplankton abundance. The major groups within the total macrozooplankton populations, cladocerans other than Leptodora, copepods, amphipods and Leptodora and total larvae within the ichthyoplankton populations, were analyzed. The mathematics of each statistical test are described in Appendix I-C.

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APPENDIX II

STATISTICAL PROCEDURES

Simple Linear Regression

Statistical Tests of Hypothesis

Analysis of Covariance

Bartlett's Test for Homogeneity of Variance

Least Significant Difference

T-Test

Paired T-Test

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Student-Newman-Kuels Procedure

Wilcoxon Rank Sum Test

Wilcoxon Matched-Pairs Signed Rank Test

Condition Factor

Faunal Affinity

Coefficient of Maturity

Species Diversity

SIMPLE LINEAR REGRESSION

Linear regression is used when the relationship of two random variables, is thought to be linear, or linearizable. Given a dependent variable Y and an independent variable X , it is assumed that the relationship is of the form:

$$Y = \alpha + \beta X + \epsilon$$

where α and β are unknown constants and ϵ is a random variable with mean 0 and variance σ^2 , independent of the value X .

The constants α and β are estimated from data by use of the least squares technique, providing $\hat{\alpha}$ and $\hat{\beta}$ as estimators of α and β which are the "best" (unbiased minimum variance) linear estimators.

If the data contains replicate measurements at several values of X , then the assumption of linearity may be tested. When this is not the case, one may use the coefficient of multiple determination, which is the proportion of the total variability of the system explained by the fitted equation, as a measure of goodness of fit.

One may also perform tests on the values of α and β , in particular, it is always desired to test whether $\beta = 0$ since, if it does, then X and Y are unrelated.

STATISTICAL TESTS OF HYPOTHESIS

Basically, this is a decision making tool when one can formulate either a two or three pronged situation, i.e., suppose there are two populations with means μ_1 and μ_2 , a two pronged ("1-tailed") test might be of the form:

$$H_o = \mu_1 > \mu_2 \text{ (null hypothesis)}$$

$$H_a = \mu_1 < \mu_2 \text{ (alternative hyp.)}$$

A 3-pronged ("2-tailed") test is of the form:

$$H_o = \mu_1 = \mu_2$$

$$H_a = \mu_1 \neq \mu_2 \text{ (i.e., either } \mu_1 > \mu_2 \text{ or } \mu_1 < \mu_2)$$

More complex hypotheses can also be formulated concerning 3 or more parameters.

There are three considerations to be made regarding such tests: sample size, power, and size ("significance level"). Defining a Type I error as rejecting the null hypothesis when, in reality, it is true, the significance level of a test is the probability of committing a type I error. Defining a Type II error as rejecting the alternative hypothesis when, in reality, it is true, the power of a test is the probability of not making a type II error. These three quantities are interrelated, i.e., increasing sample size increases power for fixed significance. Power sometimes cannot be determined.

ANALYSIS OF COVARIANCE

This might be loosely described as a combination of analysis of variance and linear regression. In analysis of variance, a response is categorized by one or more quantal factors and is thought to be determined by the levels of these factors, along with some unexplained, or random, element. In regression analysis, it is thought that the response can be determined by a linear combination of one or more other variables, along with some random element. When one has the situation that the response is highly dependent on such variables, it may be desirable to "adjust" the responses by these variables (called covariates or concomitant variables) when performing an analysis of variance.

One first would test whether or not the covariate(s) significantly contribute towards "explaining" the response and, depending upon the result of this test, one either performs a conventional ANOVA (if they do not) or an ANOVA using the "adjusted" responses (if they do).

BARTLETT'S TEST FOR HOMOGENEITY OF VARIANCE

Equality of variance in a group of samples is an important precondition for several statistical tests.

Bartlett's test, tests the hypothesis of homogeneity of variance $\sigma_1^2 = \sigma_2^2 = \dots = \sigma_k^2$. When $\sigma_1^2 = \sigma_2^2 = \dots = \sigma_k^2$ the sampling distribution of the χ^2 statistic is approximated by the χ^2 distribution having $(K-1)$ degrees of freedom. The larger the variation between the s_i^2 's the larger will be the value of the χ^2 statistic. When the observed value of the χ^2 statistic is larger than the critical value, the experimental data do not support the hypothesis being tested. The formula for Bartlett's test for homogeneity of variance are:

$$N-K = \sum_{i=1}^k (n_i - 1)$$

$$M = (N-K) \ln s_p^2 - \sum_{i=1}^k \left[(n_i - 1) \ln s_i^2 \right]$$

$$A = \frac{1}{3(k-1)} \left[\sum_{i=1}^k \left(\frac{1}{n_i - 1} \right) - \frac{1}{N-K} \right]$$

$$s_p^2 = \frac{\sum_{i=1}^k (n_i - 1) s_i^2}{N-K}$$

$v_1 = K-1 = \text{df for numerator and for } \chi^2 \text{ value}$

$$\chi^2 = \frac{M}{1 + A}$$

LEAST SIGNIFICANT DIFFERENCE

The Least Significant Difference (LSD) is a single value which, once computed, permits the investigator to look at a pair of means and tell whether they are significantly different.

The LSD is basically a Student's t test using a pooled error variance. Since the LSD need be calculated only once and takes advantage of the pooled error variance, its use is seen to be a time saver as compared with making individual t tests.

$$LSD(\alpha) = t_{\alpha} s_{\bar{d}}$$

where t_{α} = the tabular value of t for error degrees of freedom

$$s_{\bar{d}} = \sqrt{2s^2/r}$$

s^2 = error variance

r = number of observations per mean.

For the difference between two means to be significant the observed difference must exceed the LSD at the chosen α level.

T-TEST

To test the significance of the difference between two group means, a statistic known as the Student's "t" is employed. In a test of this sort the null hypothesis is that the two samples come from the same population; that is they must have the same parametric mean. Thus, the difference $(\mu_1 - \mu_2)$ is expected to be zero. We therefore test the deviation of the difference $(\bar{x}_1 - \bar{x}_2)$ from zero.

$$t = \frac{(\bar{x}_1 - \bar{x}_2) - (\mu_1 - \mu_2)}{\sqrt{\left[\frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2} \right] \left(\frac{n_1 + n_2}{n_1 n_2} \right)}}$$

The numerator represents a deviation between a single difference between two sample means \bar{x}_1 and \bar{x}_2 and the true difference between the means of the population represented by these means.

The denominator is a standard error of the difference between two means $s_{\bar{x}_1 - \bar{x}_2}$. The left portion in square brackets is a weighted average of the variances of the two samples s_1^2 and s_2^2 . The portion in parenthesis is the factor by which the average variance within groups must be multiplied in order to convert it into a variance of the difference of means.

The calculated "t" statistic is compared to the tabulated t value at the set level of significance with $(n_1 + n_2 - 2)$ degrees of freedom.

The null hypothesis is rejected when t calculated $\begin{cases} \leq t_{\alpha/2} (n_1 + n_2 - 2) \\ \geq t_{1-\alpha/2} (n_1 + n_2 - 2) \end{cases}$

The null hypothesis is not rejected otherwise.

PAIRED t-TEST

Data frequently occur in pairs. The variation from pair to pair is incidental although probably unavoidable. The main interest is to compare the effects of the two treatments and see if there is a difference between them. To eliminate the effects of treatments only, the method known as Student's paired t-test, is to take the difference between the two treatments within each pair, as denoted by $D = X_1 - X_2$. The variable "D" will be regarded as the variable to be studied.

In particular we want to test the null hypothesis that the true mean value of the variable "D" is zero.

$$t_{\text{paired}} = \frac{\bar{D}}{S_{\bar{D}}}$$

where

$$D_i = X_{1i} - X_{2i}$$

$$\bar{D} = \frac{1}{n} \sum_{i=1}^n D_i$$

$$S_D = \sqrt{\frac{\sum D_i^2 - \frac{(\sum D_i)^2}{n}}{n-1}}$$

$$S_{\bar{D}} = \frac{S_D}{\sqrt{n}}$$

The calculated "t" statistic is compared to the tabulated t value at the chosen level of significance with (n-1) degrees of freedom, where n is equal to the number of pairs.

The null hypothesis is rejected when t calculated

The null hypothesis is not rejected otherwise.

$$\begin{cases} \leq t_{\alpha/2} (n-1) \\ \geq t_{1-\alpha/2} (n-1) \end{cases}$$

TWO-WAY ANOVA

When one is dealing with a population in which each object may be classified according to two factors, but is otherwise homogeneous, then the analysis of variance may be used to determine whether varying either of the factors will affect the response.

Suppose we have a factor A, having a levels, and a factor B, having b levels. The analysis of variance may permit us to compare the means of the different levels of A by adjusting for the fact that the population is not homogeneous in factor B. Similarly, one may compare the means of the different levels of B, adjusting for non-homogeneity in A.

Let"

y_{ij} = a response from level i of factor A and level j of factor B

μ = the mean of the overall population

\bar{A}_i = the mean the population being at level i of factor A

\bar{B}_j = the mean the population being at level j of factor B

\bar{C}_{ij} = the mean the population being at both level i of A and level j of B

ϵ = a random variable having mean 0

The model used is: $y_{ij} = \bar{C}_{ij} + \epsilon$

which can be written as:

$$y_{ij} = \mu + (\bar{A}_i - \mu) + (\bar{B}_j - \mu) + (\bar{C}_{ij} - \bar{A}_i - \bar{B}_j + \mu) + \epsilon$$

Let:

$$\alpha_i = \bar{A}_i - \mu$$

$$\beta_j = \bar{B}_j - \mu$$

$$\gamma_{ij} = \bar{C}_{ij} - \bar{A}_i - \bar{B}_j + \mu$$

Then we have: $y_{ij} = \mu + \alpha_i + \beta_j + \gamma_{ij} + \epsilon$

If it is the case that $\bar{A}_1 = \bar{A}_2 = \dots = \bar{A}_a$, then it is also the case that

$\alpha_1 = \alpha_2 = \dots = \alpha_a = 0$. Thus, we test the null hypothesis:

$H_0: \alpha_1 = \alpha_2 = \dots = \alpha_a = 0$. Acceptance of this implies that $\bar{A}_1 = \bar{A}_2 = \dots = \bar{A}_a$.

If $\bar{B}_1 = \bar{B}_2 = \dots = \bar{B}_b$, then $B_1 = B_2 = \dots = B_b = 0$ and by testing

$H_0: B_1 = \dots = B_b$, one can draw inferences about $\bar{B}_1, \dots, \bar{B}_b$.

The term α_{ij} is referred to as the interaction of level i of A and level j of B .

One tests the null hypothesis:

$H_0: \gamma_{11} = \gamma_{12} = \dots = \gamma_{16} = \gamma_{21} = \dots = \gamma_{26} = \dots = \gamma_{a1} = \dots = \gamma_{ab}$

If it is accepted, then it is said that there is no interaction and tests on A and B are valid.

If it is rejected, then it is said that there is interaction between A and B , and tests on A and B are not performed. However, if we should wish to assess the gross effects of these variables, we could test them over the error mean square.

STUDENT-NEWMAN-KEULS PROCEDURE

After performing an analysis of variance, if one finds that a source of variation between means is significant, one may wish to perform an a posteriori test to determine which of those means differ from one another.

The Student-Newman-Keuls procedure (SNK) permits these tests to be performed while maintaining a specified overall "protection level" (i.e., the probability of concluding that two means differ when, in reality, they do not, is a Type I error. Maintaining a protection level of $\alpha\%$ assures us of a risk of no greater than $(100-\alpha)\%$ of making any Type I errors.

The result of this test will be sets of means which do not differ significantly among themselves.

The procedure is based on order statistics of the Studentized range.

WILCOXON RANK SUM TEST

The Wilcoxon two-sample test for unpaired observations is as follows where $n_1 \leq n_2$.

- i) rank the observations for both samples together from smallest to largest
(Tied observations, when they occur, are given the mean rank)
- ii) add the ranks for the smaller sample. Call this sum T .
- iii) compute $T' = n_1 (n_1 + n_2 - 1) - T$, the value you would get for the smaller sample if the observations had been ranked largest to smallest (It is not the sum of the ranks of the other sample)
- iv) compare the smaller rank sum (i.e., $\min(T, T')$) with the tabulated values.

Small values of this test criterion lead to rejection of the null hypothesis.

For values of n_1 and n_2 outside the limits of the table calculate

$$Z = (|\mu - T| - 1/2) / \sigma$$

where $\mu = n_1 (n_1 + n_2 + 1) / 2$

and $\sigma = \sqrt{n_1 n_2 (n_1 + n_2 + 1) / 6}$

The approximate normal deviate Z , is referred to the table of the normal distribution to give the significance probability (p).

WILCOXON MATCHED - PAIRS SIGNED RANK TEST

The Wilcoxon Matched-Pairs signed rank test is a non-parametric test which corresponds to the parametric paired t-test.

The steps in this procedure are:

- i) find the difference of each pair
- ii) rank these differences from smallest to largest without regard to sign
- iii) assign to the ranks the signs of the original differences
- iv) compute the sum of the positive or negative ranks, whichever sum is smaller. Let this sum = T.
- v) compare T disregarding the sign with the critical value in the table to judge significance.

If an observed T is less than or equal to the critical value from the table under a particular significance level for the observed value of N, the null hypothesis may be rejected at that level of significance. On occasion the difference of some pairs may be zero. Such pairs are dropped from the analysis. Thus the value of N is equal to the number of matched pairs minus the number of pairs whose difference is equal to zero.

Beyond the range of the table the approximate normal deviate may be calculated:

$$Z = (|T - \mu| - 1/2) / \sigma$$

where T is the smaller rank sum, and

$$\mu = n(n + 1)/4; \quad \sigma = \sqrt{(2n + 1) \mu / 6}$$

The number -1/2 is a correction for continuity. As usual, $Z > 1.96$ signifies rejection at the 5% level.

CONDITION FACTOR

The 'condition factor' (K), calculated from a formula of the type:

$$K = \frac{w}{l^3}$$

has often been used to investigate seasonal and habitat differences in 'condition', 'fatness' or general 'well-being'. For some purposes such factors do provide a useful comparison of the weights of individual fish relative to length even though they may confound two sources of variability: differences among individuals of a given length, and of any change in relative weight that are a normal consequence of the growth in the species concerned (when growth is allometric). Of course if b is close to 3, comparisons using the above formula will reflect individual variability almost entirely.

When a large and representative body of data is available for an allometrically-growing species so that a sufficiently accurate value of b can be computed, a condition factor of the type:

$$K = \frac{w}{l^b}$$

may be used to compare individual fish.

Another method is to calculate for each fish (from the formula or a graph) the 'expected' weight for its observed length-actually the geometric mean of the weight distribution for the given length. Then a ratio, k, is calculated for each fish from the formula:

$$K = w_o / \hat{w}$$

w_o = observed individual weight

\hat{w} = 'expected' geometric mean weight for the observed length

FAUNAL AFFINITY

The species and number components of a sample were compared between dates and locations by use of an affinity index. Affinity values were calculated by calculating the present species composition of each collection, then summing the lowest values between the common species of two collections.

Assuming the total fauna of Station A is 50% alewives and of Station B is 30%, the value (%) common between those two stations is the lower of the two, or 30. This summing of common values is then repeated for each species represented at those stations to obtain the affinity or similarity index. The more similar the distribution of species numbers between two locations, the higher the affinity values. The level at which locations are considered to be similar is subject to individual definition. In the case of fish communities, which show large natural variations in diversity, a value of 50% is considered to indicate similarity and a value of 75% to indicate close similarity.

COEFFICIENT OF MATURITY

A record of the state of maturity of fish examined is often required.

The gonad weight may be translated into a coefficient of maturity expressed as $\frac{\text{gonad weight}}{\text{fish weight-gonad weight}} \times 100$.

When the gonad weight is expressed as a percentage of the body weight of a fish, we have a value which can be graphed against time to show time of spawning. This is possible because the weight of the gonads increases until the fish spawns, at which time gonad weight drops off sharply. The shorter and more well-defined the spawning period, the more abrupt and obvious is the spawning drop in the graph.

SPECIES DIVERSITY

When biological sampling is directed toward assessing environmental change, it is necessary to analyze fish collections as a community of interacting species having measurable community parameters such as species diversity, species associations, and faunal homogeneity. Measurements of community parameters are especially important when the environmental impact is directed toward species which are not abundant enough to receive analysis of life history parameters.

Species diversity is a community parameter which is sensitive to changes within the less abundant species. Moreover, species diversity is easily calculated since the total data required are the numbers of individuals caught for each species. By reducing the mass of data obtained from any fish collection to a single value representing the diversity of the collection, it is possible to apply statistical analyses to spatial or temporal series of collections.

The diversity of a community is dependent upon the number of species present (species richness) and the distribution of individuals among the species (species evenness or equatability). Several equations from information theory can be used to relate the number of individuals and the number of species to community structure. The most frequently used index is Shannon's formula which expresses diversity, H' , as information content in bits per individual. As diversity increases the information content per species decreases.

$$H' = - \sum_{i=1}^S \frac{n_i}{N} \log \frac{n_i}{N}$$

Where: n_i = number caught of the i species

N = total number caught

S = number of species

Diversity can also be defined in terms of Brillouin's formula which takes into account the patchy distribution of fishes (Pielou, 1966).

$$H' = \frac{1}{N} \log \frac{N!}{n_1! n_2! \dots n_n!}$$

Because H' is influenced by species richness and species evenness, an accurate description of diversity includes H' and its component parts, species richness, d (Margalef, 1951), and evenness, J (Pielou, 1966).

$$d = \frac{S-1}{\log N}$$

$$J = \frac{H'}{H_{\max}}$$

Where: S = number of species

H_{\max} = the maximum possible diversity with individuals evenly divided among species

Species richness can be dependent upon sample size because the number of species caught is related to the number of individuals caught. Species diversity, H' , is not dependent upon sample size given that the collection method is adequately sampling the community.

There is considerable debate as to the accurate mathematical description of diversity as well as its practical application. However, there is general accep-

tance of the observation that environments under stress are less diverse than "healthy" environments. In terms of diversity indices, an environmental stress tends to eliminate certain species either by avoidance or death. These communities of reduced species tend to have one or two numerically dominant species. Thus, diversity, H' , species richness, d , and evenness, J , are all reduced.

Because of the relation between environmental stress and diversity, changes in diversity indices have been used as indicators of pollution (Wilhm and Dorris, 1966, 1968; Johnson, 1970; Chu-fa Tsai, 1973). Using diversity indices to identify pollution is preferable to using the concentration of indicator species or change in the life history parameters because values for indices can be analyzed statistically when sufficient data are available. For example, non-parametric ANOVA can be used to statistically evaluate changes in diversity with time or within a sampling area. If a statistical change in diversity values is confirmed, the source of environmental stress which is related to the variation in diversity can be identified using a multiple regression analysis among water quality data.

TABLE IIIA-1

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) X Replicate _____

Date: 4/2/73	10				20				40				50			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP			No Sample				No Sample				No Sample				No Sample	
A. GREEN'S																
<u>Actinastrum</u> sp.....																
<u>A. gracillimum</u>																
<u>A. hantzschii</u>									411							
<u>Ankistrodesmus</u> sp.																
<u>A. convolutus</u>																
<u>A. falcatus</u>																
<u>Arthrodesmus</u> sp.																
<u>Botryococcus Braunii</u>																
<u>B. protuberans</u>																
<u>B. sudeticus</u>																
<u>Carteria cordiformis</u>																
<u>Characium</u> sp.....																
<u>C. ornithocephalum</u>																
<u>Chlamydomonas</u> sp.	410	814			792	367										
<u>C. epiphytica</u>																
<u>C. pseudocervyi</u>																
<u>Chorella ellipsoidica</u>																
<u>C. vulgaris</u>																
<u>Chlorococcum</u> sp.																
<u>Chodatella</u> sp.																
<u>Cladophora filament</u>																
<u>Closteriopsis longissima</u>																
<u>Closterium</u> sp.																
<u>Coelastrum</u> sp.																
<u>C. carbricum</u>																
<u>C. microporum</u>																
<u>Cosmarium</u> sp.																
<u>C. coronatum</u>																
<u>C. depressum</u>																
<u>C. formosulum</u>																
<u>C. nitidulum</u>																
<u>Crucigenia</u> sp.																
<u>C. lauterbornii</u>																
<u>C. quadrata</u>																

TABLE IIIA-1 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) X Replicate _____

Date: 4/2/73

	10				20				40				50			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.																
<u>D. ehrenbergianum</u>																
<u>D. pulchellum</u>																
<u>Dinorhynchococcus lunatus</u>																
<u>Echinosphaerella limnetica</u>																
<u>Errerella borheniensis</u>																
<u>Eudorina elegans</u>																
<u>Francelia</u> sp.																
<u>F. droescheri</u>																
<u>F. ovalis</u>																
<u>Gleocystis</u> sp.																
<u>G. amela</u>																
<u>G. gigas</u>																
<u>G. planctonica</u>																
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>	6556					1101			411			2981		1709		
<u>G. radiata</u>		15466		7913	9504	13952		366	6987	17787		6707	3452	12823		825
<u>Genium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.						2937			63705	13976		46207	1535	21021		
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>																
<u>K. obesa</u>																
<u>K. subsolitaria</u>																
<u>Lagerheimia ciliata</u>																
<u>L. longisetia</u>																
<u>L. subsalsia</u>																
<u>L. quadrisetia</u>																
<u>Microactinium</u> sp.																
<u>H. pusillum</u>				2082												
<u>Microscora</u> sp.	4100															
<u>Mouzeotia</u> sp.																
<u>Mechrocystium Agardhianum</u>												5216	9590	49335		
<u>M. limneticum</u>																
<u>M. lunatum</u>																

TABLE. IIIA-1 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28µ) X Replicate

Date: 4/2/73	10				20				40				50			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>N. obesus</u>		8140														
<u>Oedocoenium</u> sp.																
<u>Oocystis</u> sp.																
<u>O. Borgei</u>																
<u>O. parva</u>																
<u>O. solitaria</u>																
<u>Pandorina morum</u>																
<u>Pediastrum</u> sp.	3278															
<u>P. biradiatum</u>																
<u>P. Boryanum</u>																
<u>P. duplex</u>																
<u>P. simplex</u>																
<u>P. tetras</u>																
<u>Planktosphaeria</u> sp.																
<u>Pleodorina californica</u>																
<u>Polvedriopsis quadrispina</u>																
<u>Quadrigula chodatii</u>																
<u>Q. lacustris</u>																
<u>Scenedesmus</u> sp.																
<u>S. abundans</u>																
<u>S. acuminatus</u>																
<u>S. bijuga</u>																
<u>S. biradiatum</u>																
<u>S. Brasiliensis</u>																
<u>S. denticulatus</u>																
<u>S. dimorphus</u>																
<u>S. longus</u>																
<u>S. obliquus</u>																
<u>S. quadricauda</u>						1469				1694				1709		
<u>Schizochlamys gelatinosa</u>																
<u>Schroederia</u> sp.																
<u>S. setigera</u>																
<u>Selenastrum minutum</u>																
<u>S. Westii</u>																
<u>Schaerocystis</u> sp.																
<u>S. Schroteri</u>																

TABLE IIIA-1 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) X Replicate _____

Date: 4/2/73

	10				20				40				50			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....																
<u>Staurastrum</u> sp.																
<u>S. cuspidatum</u>																
<u>S. gracile</u>																
<u>Scenedesmus tenuis</u>																
<u>Tetradlepis</u> sp.																
<u>T. staurogeniaeforme</u>																
<u>Tetradlepis caudatum</u>																
<u>T. minimum</u>																
<u>T. muticum</u>																
<u>T. pentadactylum</u>																
<u>T. regulare</u>																
<u>Tetradlepis</u> sp.																
<u>T. lacustris</u>																
<u>T. lamellosa</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>																
<u>T. triappendiculata</u>						7343								429		
<u>Ulothrix</u> sp.																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Urogonia</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....		2442								20550						
UID green.....																

TABLE IIIA-1 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28μ) X Replicate _____

Date: 4/2/73

	10				20				40				50			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	14344	26862		9995	10296	27169		366	92064	33881		61111	15344	87026		825
% of TOTAL.....	15.8	14.0		6.1	9.0	22.8		0.4	46.1	30.8		57.3	27.8	57.5		1.7
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....		46398		44145	36036	24600		62909	33291	44044		28693	26852	36894		7425
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....																
Cyclotella sp.		4884		3748	1980	734			3288	2117				1287		1650
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. capucina.....		2035		2915	792	2203			822				767	1716		
F. crotonensis.....		2035		832	1980	7343			822	6353		8197		3432		10725
Gomphonema sp.																
Gyrosigma sp.																
Melosira sp.	76204	96459		93703	56232	51770		35478	57540	19481				9867		23100
M. binderana.....																

TABLE IIIA-1 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28µ) X Replicate _____

Date: 4/2/73

	10				20				40				50			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.									411							
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. triuncinata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. siria</u>																
<u>Knociosiphonia</u> sp.																
<u>Stechanodiscus</u> sp.		814		832	369											
<u>S. astraea</u>																
<u>S. hantzschii</u>																
<u>S. niagarae</u>																
<u>Surirella</u> sp.		3663		3331	2772	1101		1463	4521	424		1863	767	1716		1375
<u>Synedra</u> sp.		4477		2498		734		732	3288	2965		4099	2685	5577		550
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>		2442							411				4603			
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	76204	163207		152004	100161	88485		100582	104394	75384		42852	35674	60489		44825
% of TOTAL.....	83.8	85.3		92.9	87.2	74.4		98.6	52.3	68.5		40.2	64.6	40.0		94.8
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.		407				1834						373		429		
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Ullmannia</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....		407				1834						373		429		
% of TOTAL.....		0.2				1.5						0.4		0.3		

TABLE IIIA-1 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) x Replicate _____

	10				20				40				50			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. quadriduplicatum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>																
<i>A. flos-aquae</i>																
<i>A. spiroides</i>																
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minutus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>																
<i>Aphanocapsa</i> sp.																
<i>A. endophytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanothece</i> sp.																
<i>Chroococcus</i> sp.				1249	1980	1101			1650							
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium Kuetzingianum</i> ...																
<i>C. Naegelianum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rubeitris</i>																
<i>Gomphosphaeria</i> sp.																
<i>G. arctica</i>																
<i>G. lacustris</i>																
<i>Lynabya</i> sp.																

TABLE IIIA-1 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) ^x Replicate _____

Date: 4/2/73

	10				20				40				50			
	ISPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	ISPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Disquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....				1249	1980	1101			1650							
% of TOTAL.....				0.8	1.7	0.9			0.8							
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>																
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculum</i>																
<i>G. quadrident</i>	410	814		416	2376	367		1097	1648	847		2235	4219	3423		1650
<i>Glenodinium</i> sp.																
<i>Peridinium cinctum</i>																
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	410	814		416	2376	367		1097	1648	847		2235	4219	3423		1650
% of TOTAL.....	0.5	0.4		0.3	2.1	0.3		1.0	0.8	0.8		2.1	7.6	2.3		3.5

TABLE IIIA-1 (continued)

Nine Mile Point Phytoplankton
cells/L
Net (>28μ) X Replicate

Whole Water

Date: 4/2/73

	10				20				40				50			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	90958	191290		163664	114813	118956		102045	199756	110112		106571	55237	151367		47300

TABLE IIIA-2

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28µ) X Replicate

Date: 5/16/73	10				20				30				40			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>																
<i>Ankistrodesmus</i> sp.	952				952	3850	534	7392	435							
<i>A. convolutus</i>																
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Betrvococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sulcatus</i>																
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.			9296													
<i>C. epithytica</i>																
<i>C. pseudocertyi</i>																
<i>Chorella ellipsoides</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora filament</i>																
<i>Closterionopsis longissima</i>																
<i>Closterium</i> sp.							534									
<i>Coelastrum</i> sp.																
<i>C. canaliculatum</i>																
<i>C. microporum</i>																
<i>Cosmarium</i> sp.																
<i>C. crenatum</i>																
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Crucifera</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-2 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>20u) _____ X _____ Replicate _____

Date: 5/16/73

	10				20				30				40			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>																
<i>D. pulchellum</i>								7392		23100						
<i>Dimorhochoccus lunatus</i>																
<i>Echinosthaerella limnetica</i>																
<i>Errerella borheniensis</i>																
<i>Eudorina elegans</i>																
<i>Franceia</i> sp.																
<i>F. droescheri</i>																
<i>F. ovalis</i>																
<i>Gleocystis</i> sp.																
<i>G. assia</i>																
<i>G. gigas</i>																
<i>G. planctonica</i>																
<i>G. vesticulosa</i>																
<i>Golenkinia paucispina</i>	2379	429	1394	7871	2379	1444						10230		880	2407	
<i>G. radiata</i>	6661		1394	1749	6661	1444	534	1386	4780	5544	4282	4604	4758	3080	4813	3960
<i>Goniim</i> sp.																
<i>G. socialis</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>	18556	26598	21381	6560	18556	21177	66154	45276	13035	18480	59475	45524	9040	62920		55440
<i>Kirchneriella lunaris</i>																
<i>K. obesa</i>																
<i>K. subsolitaria</i>																
<i>Lagerheimia ciliata</i>																
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Microactinium</i> sp.																
<i>H. pusillum</i>	12371		3718	8746	12371	2888				4620		2558			3850	
<i>Nitzschia</i> sp.			23240	875			4268	5082		2310		7161	8089			3960
<i>Noctecia</i> sp.																
<i>Nectrocyclus Agardhianum</i>																
<i>N. liracticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-2 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) _____ X _____ Replicate

Date: 5/16/73

	10				20				30				40			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Oedoconium</i> sp.																
<i>Oocystis</i> sp.																
<i>O. Borgel</i>																
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina morum</i>																
<i>Pediastrum</i> sp.			7437													
<i>P. biradiatum</i>																
<i>P. Borvanum</i>																
<i>P. duplex</i>																
<i>P. simplex</i>																
<i>P. tetras</i>																
<i>Planctosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedriocsis quadrispina</i>																
<i>Quadrigula Chodatii</i>																
<i>Q. lacustris</i>													1903		1925	
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>																
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	7613	3432	3718	3498	7613	5776	2134		3476	8778	1903	6138	1903		3850	3960
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroeteri</i>																

TABLE IIIA-2 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X _____ Replicate _____

Date: 5/16/73

	10				20				30				40			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....																
<u>Stauroastrum</u> sp.																
<u>S. cuspidatum</u>																
<u>S. gracile</u>																
<u>Stigeoclonium tenue</u>																
<u>Tetradescus</u> sp.																
<u>T. staurogeniaeforme</u>																
<u>Tetradion caudatum</u>																
<u>T. minimum</u>																
<u>T. muticum</u>																
<u>T. pentadricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. lamellosa</u>																
<u>Trebharia</u> sp.																
<u>T. setigerum</u>																
<u>T. triaopendiculata</u>																
<u>Ulothrix</u> sp.....																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygema</u> sp.				3498								2558				
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-2 (continued).

Nine Mile Point Phytoplankton
cell/L

Whole Water Net (>28μ) X Replicate

Date: 5/16/73

	10				20				30				40			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	48532	30459	71578	32797	48532	36579	74158	66528	21726	64680	65660	78773	25693	68200	18289	68805
% of TOTAL.....	32.5	34.3	47.4	39.1	32.6	28.2	68.5	38.1	27.5	30.4	57.7	53.3	22.5	43.2	20.2	39.9
B. EUGLENOIDS																
Euglena sp.	476					481		924								
Phacus sp.																
TOTAL EUGLENOIDS.....	476					481		924								
% of TOTAL.....	0.3					0.4		0.5								
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....	7137	31317	23240	10058	7137	24546	16539	24024	9559	14784	14274	23018	22838	24640	14439	21285
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....												512				
Cyclotella sp.																
C. bodanica.....																
C. costata.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. caucutina.....																
F. cretensis.....	2379		465	1312	2379	12514	1067	18942	435	13860			952	880	963	17325
Gomphonema sp.																
Gyrodinium sp.																
Helosira sp.	5710	17589	36719	14431	5710	16846		40194		25410	9516	6138	25217	9240	4813	16335
M. binderana.....																

TABLE IIIA-2 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water. Net (>28µ) X Replicate

Date: 5/16/73	10				20				30				40			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.																
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. triopunctata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhicosphenia</u> sp.		429														
<u>Sterhanodiscus</u> sp.			465											440	481	
<u>S. astraea</u>																
<u>S. hantzschii</u>	56144	4719	8831	10058	56144	31285	8536	14322	13470	42504	16177	12276	18080	20240	38504	15345
<u>S. niagarae</u>											1427					
<u>Surirella</u> sp.										462		1535	1903	880	9626	990
<u>Synedra</u> sp.	1427	2145	1394	1312	1427	1444	1601	924								
<u>Tabellaria</u> sp.	9992		6507		9992		3201	5544	9994			6138		33000		
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
<u>UID pennate</u>																
TOTAL DIATOMS.....	82789	56199	77621	37171	82789	86635	30944	103950	33458	97020	41394	49617	68990	89320	68826	71280
% of TOTAL.....	55.4	63.3	51.4	44.3	55.6	66.7	28.6	59.5	42.3	45.7	36.4	33.6	60.4	56.5	76.1	41.4
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.	476				476	963					1427				481	
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mailamonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....	476				476	963					1427				481	
% of TOTAL.....	0.3				0.3	0.7					1.3				0.5	

TABLE IIIA-2 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) X Replicate _____

Date: 5/16/73

	10				20				30				40			
	10PW	10PP	FITZ	NMPE	20PW	20PP	FITZ	NMPE	30PW	30PP	FITZ	NMPE	40PW	40PP	FITZ	NMPE
E. BLUE-GREENS																
<u>Amenellum punctata</u>																
<u>A. quadruplicatum</u>																
<u>Anabaena</u> sp.																
<u>A. circinalis</u>																
<u>A. flos-aquae</u>																
<u>A. spiroides</u>																
<u>Anacystis</u> sp.																
<u>A. cyanea</u>																
<u>A. dispersus</u>																
<u>A. limneticus</u>																
<u>A. minutus</u>																
<u>A. minor</u>																
<u>A. Prescottii</u>																
<u>Aphanocapsa</u> sp.																
<u>A. endophytica</u>																
<u>A. pulchra</u>																
<u>A. rivularis</u>																
<u>Aphanizomenon</u> sp.																
<u>A. flos-aquae</u>																
<u>Aphanotheca</u> sp.																
<u>Chroococcus</u> sp.	952				952			924	869			1023	1903			990
<u>C. limneticus</u>																
<u>C. minutus</u>																
<u>Coelosphaerium Kuetzingianum</u> ...																
<u>C. Naegelianum</u>																
<u>Gloeocapsa</u> sp.																
<u>G. aerogenosa</u>																
<u>G. punctata</u>																
<u>Gloeotheca</u> sp.																
<u>G. linearis</u>																
<u>G. rupestris</u>																
<u>Gomphosphaeria</u> sp.																
<u>G. arctica</u>																
<u>G. lactaris</u>																
<u>Lurebya</u> sp.																

TABLE IIIA-2(continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) ☒ Replicate _____

	10				20				30				40			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 5/16/73																
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.	14274			13120	14274				21725	46200		15345	14274			24750
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	15226			13120	15226			924	22594	46200		16368	16177			25740
% of TOTAL.....	10.2			15.6	10.2			0.5	28.6	21.7		11.1	14.2			14.9
P. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>																
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>																
<i>G. quadridens</i>	1903	2145	1859	875	1903	5294	3201	2310	1304	4620	5234	3069	3331	528	2888	6435
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>																
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	1903	2145	1859	875	1903	5294	3201	2310	1304	4620	5234	3069	3331	528	2888	6435
% of TOTAL.....	1.3	2.4	1.2	1.0	1.3	4.1	3.0	1.3	1.6	2.2	4.6	2.1	2.9	0.3	3.2	3.7

TABLE IIIA-2 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net(>28 μ) X Replicate

Date: 5/16/73

	10				20				30				40			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
<u>Bacteriastrum</u> sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	149402	88803	151058	83963	148926	129952	108303	174636	79082	212520	113715	147827	114191	158048	90484	172260

TABLE IIIA-3

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) ^x Replicate _____

Date: 6/15/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
Actinastrum sp.....							2003		3661				5429	3553		
A. gracillimum.....	2760	1163		3747	2046		12018				1874	5233			3447	339
A. hantzschii.....	394		129	156	1534		501				1093		623		312	
Ankistrodesmus sp.																
A. convolutus.....																
A. falcatus.....																
Arthrodesmus sp.																
Botryococcus Braunii.....																
B. protuberans.....																
B. sudeticus.....																
Carteria cordiformis.....																
Characium sp.....																
C. ornithocephalum.....																
Chlamydomonas sp.																
C. epiphytica.....																
C. pseudocortyi.....																
Chorella ellipsoidea.....																
C. vulgaris.....																
Chlorococcum sp.													356			
Chodatella sp.....	99															
Cladophora filament.....											937					
Closteriopsis longissima.....	99		129	156	511			210		396	468				468	
Closterium sp.								1252			312				156	
Coelastrum sp.																
C. cambricum.....																
C. microporum.....			12405	9993				6719			16863	6202				5427
Cosmarium sp.																
C. crenatum.....																
C. depressum.....																
C. formosulum.....																
C. nitidulum.....																
Crucigenia sp.																
C. lauterbornii.....																
C. quadrata.....																

TABLE IIIA-3 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ x _____ Replicate _____

Date: 6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. phrenbergianum</i>		4652	3618			1980		2520				1938				
<i>D. pulchellum</i>								1680								
<i>Dinorhynchococcus lunatus</i>																
<i>Echinosphaerella limnetica</i>																
<i>Errerella borhemensis</i>																
<i>Euderina elegans</i>																
<i>Fraxella</i> sp.																
<i>F. druescheri</i>																
<i>F. ovalis</i>																
<i>Gleocystis</i> sp.																
<i>G. ampla</i>																
<i>G. gigas</i>																
<i>G. planctonica</i>																
<i>G. vesticulosa</i>	6309							420	1464	396				646		
<i>Golankinia paucispina</i>									183		468					
<i>G. radiata</i>												194				
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.	2366	17153		9368	8439		6259	10079	25628		9524		7565	12114	7963	2883
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>																
<i>K. obesa</i>																
<i>K. subsolitaria</i>																
<i>Lagerheimia ciliata</i>																
<i>L. longiseta</i>							250	250	183	2574		194				
<i>L. subsalsa</i>																
<i>L. quadrisetia</i>											781					2544
<i>Microactinium</i> sp.																
<i>M. pusillum</i>	10252		29332		2046		50824	6719	2929		23420	4070	1068	646	5933	
<i>Microscora</i> sp.																
<i>Mougeotia</i> sp.	2267			1874	3580	743	3004	7769	2014	792	4684	2326	4005	808	4996	
<i>Nectrocycium Agardhianum</i>																
<i>N. limneticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-3 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
N. obesum.....																
Oedoonium sp.				4528	1534		501			3168	468	2132	1335		468	
Oocystis sp.																
O. Borgel.....																
O. parva.....																
O. solitaria.....																
Pandorina vorax.....									2929						7495	
Pediastrum sp.																
P. biradiatum.....																
P. Borvanum.....			2067		12787							3101				
P. duclex.....	39531	4652	14472	2498			16023	3360			26231	3101	801	2584	4996	8141
P. simplex.....											1874	1550				
P. tetras.....				1250			2003					1590				
Planktosphaeria sp.																
Pleodorina californica.....																
Polyedriopsis quadrispina.....	99					990		250					89			
Quadrigula Chodatii.....																
Q. lacustris.....																
Scenedesmus sp.																
S. abundans.....				625				840								
S. acuminatus.....	2169	1163	1551		1023		6009				3744	194	356	646	625	
S. bijugus.....			258	625			2003	840		792	937	387			937	678
S. biradiatum.....																
S. Brasiliensis.....																
S. denticulatus.....																
S. dimorphus.....																
S. longus.....																
S. obliquus.....			517	394			3004				937		356			
S. quadricauda.....	8084	581	7753	2186	2046		13019	4200	6956	3168	9368	3295	3560		5021	678
Schizochlamys gelatinosa.....																
Schroederia sp.																
S. setigera.....																
Selenastrum minutum.....																
S. Nestii.....																
Sphaerocystis sp.																
S. Schroteri.....																

TABLE IIIA-3 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28µ) X Replicate

Date: 6/15/73

	10				20				40				60			
	IMTW	NMPP	FITZ	NGPE	NMPW	NMPP	FITZ	NGPE	NMPW	NMPP	FITZ	NGPE	NMPW	NMPP	FITZ	NGPE
<i>Spondylosium</i> sp.....																
<i>Staurastrum</i> sp.	99				2556		751	210			468					
<i>S. cuspidatum</i>																
<i>S. gracile</i>																
<i>Stigeoclonium tenue</i>																
<i>Tetradescmus</i> sp.																
<i>T. staurogeniaeforme</i>																
<i>Tetradedron caudatum</i>																
<i>T. minimum</i>																
<i>T. muticum</i>																
<i>T. pseudodricum</i>																
<i>T. regulare</i>																
<i>Tetraspora</i> sp.																
<i>T. lacustris</i>																
<i>T. lanellosa</i>																
<i>Treubaria</i> sp.																
<i>T. setigerum</i>																
<i>T. triacanthulata</i>																
<i>Ulothrix</i> sp.	50473	1744	11888	1561	27108		24786	6299	7871		34350	12405	17088	5851	13584	6275
<i>U. subconstricta</i>																
<i>U. subtilissima</i>																
<i>U. zonata</i>																
<i>Urenema</i> sp.																
<i>Volvox</i> sp.																
<i>V. aureus</i>																
<i>Zygnema</i> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....				312												
UID flagellate.....												581				
UID filamentous.....																170
UID green.....																

TABLE IIIA-3 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28µ) _____ X _____ Replicate _____

Date: 6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	125001	30174	80501	39273	65210	3713	142958	45442	54368	12354	138801	48493	42631	26166	57347	27135
% of TOTAL.....	68.9	59.9	55.5	26.5	44.3	16.5	51.3	31.6	46.9	27.3	46.9	9.3	38.9	37.5	46.5	32.5
B. EUGLENOIDS																
Euglena sp.	493															
Phacus sp.					256				183				89			
TOTAL EUGLENOIDS.....	493				256				183				89			
% of TOTAL.....	0.3				0.2				0.2				0.1			
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....	2662	2762	5686	1874	2557	495	8012	16798	2563	990	14052	4652	5340	1777	4060	848
Cocconeis sp.																
Coscinodiscus sp.	493	436	129				751		183		1095		356	485	781	
C. subtilis.....																
Cyclotella sp.	18336	145	8657	2342	24551			9869	6407	6138		46905	14329	3069		2544
C. bodanica.....																
C. conta.....																
C. meneghiniana.....		145														
Cyclotella sp.																
Diatoms sp.																
D. elongatum.....	197	2762	15118	34506	1279		27520	30027	366		625	36245	178	12437		15094
Fragilaria sp.																
F. capucina.....	11731		2584		8951	5693	501	1260	17207	198	14052	1551	4984	8238	5465	
F. crotonensis.....	6703	5524	5039	16394	2557		20530		5126	16434	30447	775	11481	969	9365	5088
Gomphonema sp.																
Gyrodinium sp.	690															
Melosira sp.	3549	2181	4264	6090	2813		2504	1260		396	625	194	1958	1131		1866
M. binderana.....											5777	8334				

TABLE IIIA-3 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water. Net (>28μ) X Replicate

Date: 6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Meridion</i> sp.	591				1534		501			396	625	194			781	
<i>Navicula</i> sp.																
<i>N. confervacea</i>																
<i>N. truncata</i>																
<i>Nitzschia</i> sp.							501									
<i>N. acicularis</i>																
<i>N. sigma</i>							50824									
<i>Phaeocystis</i> sp.	99													4684		
<i>Stechanodiscus</i> sp.																
<i>S. astraea</i>																
<i>S. hantzschii</i>	3253	1163	14343	26074	5115	3713		23727	6407		27562	16475	2136		21547	4918
<i>S. niagarae</i>		145			511											
<i>Surirella</i> sp.																
<i>Synedra</i> sp.	1676		129	625	1534	495	751	420		198	468		1068		156	170
<i>Tabellaria</i> sp.																
<i>T. fenestrata</i>		1599	2197	5464	6905	3713	3004	1260	2746	990	29041	18026	2492	485	4060	1357
<i>T. flocculosa</i>																
UID pennate.....																
TOTAL DIATOMS.....	49980	16862	58146	93369	58307	14109	115399	84621	41005	25740	124369	333351	44322	33275	46215	31885
% of TOTAL.....	27.6	33.5	40.1	62.9	39.6	62.6	41.4	58.9	35.4	56.9	42.0	64.1	40.5	47.7	37.5	38.1
D. GOLDEN-BROWNS																
<i>Dinobryon</i> sp.	3450	2181	129	2030	3836	2723	5758		5126			2784	2759	8561	1874	678
<i>D. bavaricum</i>																
<i>D. cylindricum</i>								6509	2929		14052	3579			17019	
<i>D. divergens</i>												3876				
<i>D. sertularia</i>							3435					6362				18486
<i>D. sociale</i>			1034	6558	7928					2772	3435					
<i>Mallanonas</i> sp.										792						
<i>Synura</i> sp.					9207											
TOTAL GOLDEN-BROWNS.....	3450	2182	1163	8588	20971	2723	9193	6509	8421	3564	17487	16281	2759	8561	18893	19164
% of TOTAL.....	2.0	4.3	0.8	5.8	14.2	12.1	3.3	4.5	7.3	7.9	5.9	3.1	2.5	12.3	15.3	22.9

TABLE IIIA-3 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) ^x Replicate _____

Date: 6/15/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. quadruplicatum</i>																
<i>Anabaena</i> sp.	986		5039	5152			10015	1050	3661	3168	12179		9790	485		3222
<i>A. circinalis</i>																
<i>A. flos-aquae</i>																
<i>A. spiroides</i>																
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minus</i>																
<i>A. minor</i>																
<i>A. Prescotti</i>																
<i>Aphanocapsa</i> sp.																
<i>A. endorhiza</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanothece</i> sp.																
<i>Chroococcus</i> sp.	789				1023			2100	4210			5621	1780			
<i>C. limneticus</i>																
<i>C. minus</i>																
<i>Coelosphaerium Kuetszingianum</i> ...																
<i>C. Macellianum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. limnetis</i>																
<i>G. rivularis</i>																
<i>G. rubea</i>																
<i>Gomphonema sp.</i>																
<i>G. acuminatum</i>																
<i>G. lacustris</i>																
<i>Lyngbya</i> sp.																

TABLE IIIA-3 (continued)

Nine Mile Point Phytoplankton

cells/L
Whole Water _____ Net(>28 μ) _____ X Replicate _____

Date: 6/15/73

	10				20				40				60			
	BMFW	BMFP	FITZ	NMPE	BMFW	BMFP	FITZ	NMPE	BMFW	BMFP	FITZ	NMPE	BMFW	BMFP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp. 2.....																
<i>Oscillatoria</i> sp.	591	1018	129	2030	1534	1485	1252	3780	3844	396	2654	115907	8010	1292	937	2030
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	2366	1018	5168	7182	2557	1485	11267	6930	11715	3564	14833	121528	19580	1777	937	5252
% of TOTAL.....	1.3	2.0	3.6	4.8	2.0	6.6	4.0	4.8	10.1	7.9	5.0	23.4	17.9	2.5	0.8	6.3
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>																
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>		145				495										
<i>G. quadridens</i>																
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>								210								
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....		145				495		210								
% of TOTAL.....		0.3				2.2		0.1								

TABLE IIIA-3 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water Net (>28 μ) X Replicate

Date: 6/15/73

	10				20				40				60			
	NMFW	NMPP	FITZ	NMPE	NMFW	NMPP	FITZ	NMPE	NMFW	NMPP	FITZ	NMPE	NMFW	NMPP	FITZ	NMPE
G. OTHERS																
<u>Bacteriastrum</u> sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	181290	50381	144978	148413	147301	22525	278817	143712	115692	45222	295470	519653	109381	59779	123392	83606

TABLE IIIA-4

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) X Replicate _____

Date: 7/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<u>Actinastrum</u> sp.....																
<u>A. gracillimum</u>																
<u>A. hantzschii</u>																
<u>Arthrodesmus</u> sp.													1597			1772
<u>A. convolutus</u>																
<u>A. falcatus</u>																
<u>Arthrodesmus</u> sp.																
<u>Botryococcus Braunii</u>																
<u>B. protuberans</u>																
<u>B. sudeticus</u>																
<u>Carteria cordiformis</u>																
<u>Characium</u> sp.....																
<u>C. ornithocephalum</u>																
<u>Chlamydomonas</u> sp.		1164			419											
<u>C. epiphytica</u>	21245	5004	7262						599	10514			5591	24098	4321	
<u>C. pseudopertyi</u>	559		279													
<u>Chorella ellipsoidea</u>																
<u>C. vulgaris</u>																
<u>Chlorococcum</u> sp.																
<u>Chodatella</u> sp.																
<u>Cladophora</u> filament.....																
<u>Closteriopsis longissima</u>		815	279	614	1257		787	879	1797	1107		1660	799	301		443
<u>Closterium</u> sp.																
<u>Coelastrum</u> sp.																
<u>C. caribicum</u>																
<u>C. microporum</u>	78273	40385	13965	2458	5279	3352	28342	84343	59903	92969	27726	39836	73480	33436	3184	45618
<u>Cosmarium</u> sp.																
<u>C. crenatum</u>																
<u>C. depressum</u>																
<u>C. formosulum</u>																
<u>C. nitidulum</u>																
<u>Crucigenia</u> sp.																
<u>C. lauterbornii</u>																
<u>C. quadrata</u>																

TABLE IIIA-4 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>20µ) X Replicate

Date: 7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>							2099									
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>								7029	111419	2214				5322		
<i>D. pulchellum</i>	3355	6983		1229	1676	5586										
<i>Dinorthisococcus lunatus</i>																
<i>Echinosthaerella limnetica</i>																
<i>Errerella borhemensis</i>		11638		9217												
<i>Eudorina elegans</i>	53673	168405	15641	121663	169256	55301	98149	119486	121003	68620	208974	3320	35143	163966	20014	31888
<i>Franceia</i> sp.																
<i>F. droescheri</i>																
<i>F. ovalis</i>																
<i>Gleocystis gigas</i>	6709	5470	838	922	5027	3072	1575	1757	9584	4980	1027	1245	3594	8033	910	2214
<i>G. amela</i>		4655					1050		4193							2214
<i>G.</i> sp.																
<i>G. planctonica</i>																
<i>G. vesticulosa</i>	200714	198199	110882	104766	249275	50553	116256	113775	75477	82454	94988	141502	72682	192783	13873	99207
<i>Golenkinia paucispina</i>																
<i>G. radiata</i>																
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>		11638								4427		415		399		
<i>K. obesa</i>																
<i>K. subsolitaria</i>																
<i>Lagerheimia ciliata</i>				614							4108					
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Microactinium</i> sp.																
<i>M. pusillum</i>		37242			3352								3195	20684	2729	
<i>Microspora</i> sp.																
<i>Mougeotia</i> sp.	2795	15479	13765		6703	2234	4461	4393			16944	20748	17971			19930
<i>Nechrocyclium Agardhianum</i>		6168	2234	2458	25137		16796		12580		10269		3195	6727	3639	6200
<i>N. limneticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-4. (continued).

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate

Date: 7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesum</i>																
<i>Oedoconium</i> sp.																
<i>Oocystis</i> sp.																
<i>O. Borgesi</i>	26227	22113	8938	9217	20948	6424	14171	13618	26357	32096	9242	11619	17571	15362	3184	6643
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina norum</i>	174436	44225	8938	78651	172607	19551	63508	161657	3594	97396	96529	13279	51117	155331	24108	106291
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. Boryanum</i>	17891		4469	14747	18434	8938	20994	42171		8854	16430	26558	19169			56690
<i>P. duplex</i>	8945	42712	49436	14747	67032	26813	46188	20207	67091	75260	65722	89631	35143	69583	455	77949
<i>P. simplex</i>	4473				13406		8398		9584			3320		5322		
<i>P. tetras</i>							2099	3514								
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedricosis quadrispina</i>																
<i>Quadrigula Chodatii</i>	2236					1676	1050	3514					799		910	
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>				2458				1757						1305		
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>	3914	3142			1676		2099							4016		
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	6709	9311	1117	3687	13406	4469	3149	1757	14377	8301	2054	1660	3195			1772
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-4 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) X Replicate _____

Date: 7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Scenedesmus</u> sp.....		349					262	879	1198	553	1027		399	602	227	
<u>Staurastrum</u> sp.																
<u>S. cuspidatum</u>																
<u>S. gracile</u>																
<u>Stigeoclonium tenue</u>																
<u>Tetradococcus</u> sp.																
<u>T. staurogeniaeformis</u>																
<u>Tetradocyon caudatum</u>																
<u>T. minimum</u>																
<u>T. muticum</u>																
<u>T. peptidocarpum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. lacellosa</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>																
<u>T. triappendiculata</u>																
<u>Ulothrix</u> sp.																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>													3994			
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygomena</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-4 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water Net (>28μ) X Replicate

Date: 7/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	612154	635097	238243	367448	774890	187969	431433	580736	518756	489745	555040	354793	349033	706871	83012	363169
% of TOTAL.....	38.17	53.92	45.79	58.06	47.63	31.81	52.7	78.41	53.03	58.45	57.29	35.52	28.50	49.37	31.71	66.88
B. EUGLENOIDS																
Euglena sp.	3355		279											1707	227	
Phacus sp.																
TOTAL EUGLENOIDS.....	3355		279											1707	227	
% of TOTAL.....	0.21		0.05											.12	.09	
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....																
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	559		279		419		1837				513		799	301		
Cyclotella sp.	10064	15517	2793	2151	25137	5307	8398	879	20367	7194	6161	1660	6390	4719	1365	3543
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. catucina.....					838											
F. crotonensis.....		10125		15362	419	279	13122	6589		5534	513	16598	5990	20082		6643
Gomphonema sp.																
Gyrosigma sp.																
Melosira sp.		2328					2099									
M. binderana.....																

TABLE IIIA-4 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28u) X Replicate _____

Date: 7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.													399			
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. truncata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhoicosphenia</u> sp.																
<u>Stechanodiscus</u> sp.																
<u>S. astraea</u>																
<u>S. hantzschii</u>			279				262									
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	10623	27970	3351	17513	26813	5586	25718	7468	20367	12728	7187	18258	13578	25102	1365	10186
% of TOTAL.....	.66	2.38	.64	2.77	1.65	.95	3.14	1.01	2.08	1.52	.74	1.83	1.11	1.75	.52	1.88
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Hallarenas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-4 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) X Replicate _____

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<u>Amenellum punctata</u>																
<u>A. quadrivolvicatum</u>																
<u>Arabaena sp.</u>													3195		4549	1329
<u>A. circinalis</u>																
<u>A. flos-acuae</u>																
<u>A. spiroides</u>																
<u>Anacystis sp.</u>																
<u>A. cyanea</u>																
<u>A. dispersus</u>																
<u>A. limneticus</u>																
<u>A. minutus</u>																
<u>A. minor</u>																
<u>A. Prescottii</u>																
<u>Aphanocapsa sp.</u>																
<u>A. endophytica</u>																
<u>A. pulchra</u>																
<u>A. rivularis</u>																
<u>Aphanizomenon sp.</u>																
<u>A. flos-acuae</u>																
<u>Aphanotheca sp.</u>																
<u>Chroococcus sp.</u>			2234								35417			6024		
<u>C. limneticus</u>																
<u>C. minutus</u>																
<u>Coelosphaerium Kuetzingianum</u> ...																
<u>C. Naegelianum</u>																
<u>Gloeocapsa sp.</u>																
<u>G. aerogenosa</u>																
<u>G. punctata</u>																
<u>Gloeotheca sp.</u>																
<u>G. linearis</u>																
<u>G. rupestris</u>																
<u>Gomphosphaeria sp.</u>																
<u>G. asonina</u>																
<u>G. lacustris</u>												3320	39935	50204		
<u>Synechysp. sp.</u>																

TABLE IIIA-4 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) ☒ Replicate _____

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 7/20/73																
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Disquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>															7278	
<i>Microcystis aeruginosa</i>	899576	479843	240198	212910	572286	351918	294446	92250	331860	273926	296261	568910	700061	503747	148739	145711
<i>M. incerta</i>																
<i>Notoc sp.</i>																
<i>Oscillatoria sp.</i>	559															
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>	54791	24440	34075	30109	199420	40499	62721	51836	80269	18262	81639	47720	84662	75005	13418	15944
<i>Stigeoclena sp.</i>																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	954926	504283	276507	243019	771706	392417	357167	144086	412129	327605	377900	619950	827853	634980	173984	162984
% of TOTAL.....	59.53	42.81	53.15	38.40	47.43	66.40	43.62	19.45	42.13	39.10	39.00	62.07	67.59	44.35	66.46	30.02
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>	559		279		419					553			399			443
<i>Glenodinium sp.</i>																
<i>G. palustre</i>																
<i>G. pulvisculus</i>	559	1164	279		15501	838	262		10183	1660	2567	3735	20367	6024		3100
<i>G. quadridens</i>																
<i>Gymnodinium sp.</i>																
<i>Peridinium cinctum</i>	21805	9311	1341	4916	37706	4190	4199	8346	16773	5534	26186	2075	13578	57233	3184	3100
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	22923	10475	1899	4916	53626	5028	4461	8346	26956	7747	28753	5810	34344	63257	3184	6643
% of TOTAL.....	1.43	.89	.37	.78	3.30	.85	.55	1.13	2.76	.93	2.97	.58	2.8	4.42	1.22	1.22

TABLE IIIA-4 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate

Date: 7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrum sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	1603981	1177825	520279	632896	1627035	591000	818779	740636	978208	837825	968880	998811	1224808	1431917	261772	542982

TABLE IIIA-5

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) X Replicate _____

Date: 7/26/73

GROUP

A. GREENS

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Actinastrum sp.....																
A. gracillimum.....																
A. hantzschii.....		3862				5650			2318	3619	2533	3765		22247	4414	
Ankistrodesmus sp.	7808	351	706			706			290	452		941				3192
A. convolutus.....																
A. falcatus.....																
Arthrodesmus sp.																
Botryococcus Braunii.....																
B. protuberans.....																
B. sudeticus.....																
Carteria cordiformis.....																
Characium sp.....																
C. ornithocephalum.....																
Chlamydomonas sp.	1952		3178	750			275	275	7534	2262	2322	8158	1192		4966	6584
C. epiphytica.....												628				
C. pseudocertvi.....																
Chorella ellipsoidea.....																
C. vulgaris.....																
Chlorococcum sp.																
Chodatella sp.																
Cladophora filament.....																
Closteriopsis longissima.....	1220	1931	2472	1501	1029	3060	2745	1922	2318	905	1267	1883	1192	2317	4966	2793
Closterium sp.							275									
Coelastrum sp.																
C. canbricum.....																
C. microporum.....	44896	78124	89692	74288	41175	85218	53802	47214	56791	123062	100688	37025	52438	64886	112557	89376
Cosmarium sp.							549		869		211	941			1655	599
C. crenatum.....																
C. depressum.....																
C. formosulum.....																
C. nitidulum.....																
Crucigenia sp.																
C. lauterbornii.....																
C. quadrata.....																

TABLE IIIA-5. (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>20μ) X Replicate _____

Date: 7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.																
<u>D. ehrenbergianum</u>			9887			15537					10132	31064	7151			6384
<u>D. pulchellum</u>	24400	70575	12006		8235	41432	1373		59689	88678	23642	68403	85808	34297	57382	57264
<u>Dinorhynchococcus lunatus</u>																
<u>Echinocchaerella limnetica</u>	8540	38974		6003	5490	80039			64904	28956	78101	30122	9534	14831	17656	40499
<u>Errerella borheniensis</u>	41968	72331	79099	130191	45979	99343	107604	87840	39986	110394	103854	48949	96534	109379	90487	3192
<u>Eudorina elegans</u>																
<u>Francia</u> sp.																
<u>F. droescheri</u>																
<u>F. ovalis</u>																
<u>Gleocystis</u> sp.																
<u>G. arpa</u>												2824				
<u>G. gigas</u>	2196	10358	6003	2626	1716	1177		1921	290	1810	14776	6903	4171	463	4966	
<u>G. planctonica</u>																
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>	65392	158356	262720	231492	165386	218225	55998		111844	144779	230505	409162	402821	185388	291324	280697
<u>G. radiata</u>			353													
<u>Gonium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.																
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>											13509			14831		
<u>K. obesa</u>																
<u>K. subsolitaria</u>																
<u>Lagerheimia ciliata</u>	732	351					834		1159	452		314	111		2207	
<u>L. longiseta</u>																
<u>L. subsalsa</u>																
<u>L. quadriseta</u>																
<u>Micractinium</u> sp.																
<u>M. pusillum</u>	244		73096			706	7137					30436				6384
<u>Microscocra</u> sp.																
<u>Mougeotia</u> sp.	4880	15274	5650	18009	6863	7533		6588			17309	2510		3708	8828	9177
<u>Neochrocytium Agardhianum</u>		10182	4238	9005	3431	15537	2196		2318		1689	5020	4767	7416	4414	
<u>N. limneticum</u>																
<u>N. lunatum</u>																

TABLE IIIA-5 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) x Replicate

Date: 7/26/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>		1053			1373	1648							5959			
<i>Oedogonium</i> sp.									2898		5488				4966	1596
<i>Oocystis</i> sp.	17812	335320	28956	7129	13725	28955	18941	9882	8113	7239	51716	26985	2384	18539	8828	14364
<i>O. Borgel</i>																
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina vorum</i>	191296	94802	117236	43522	96075	49907	46616		23180	133921	16887	6272	35753	259543	22070	3192
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. Borvanum</i>		9305	25425	6003	10294	26366			9272	7239	7800	18199			17656	14364
<i>P. duplex</i>	42944	108496	86162	113683	76860	161962	84272	26352	25498	68770	143960	130844	100110	177972	66210	108528
<i>P. simplex</i>		5618		6003	5490	8475	15372	19764	12749	7239	16887				8828	1384
<i>P. tetras</i>					1716	7533	4392	2196	6954			2510	3575		4414	
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>												10041				
<i>Polyedriocsis quadrispina</i>																
<i>Quadricula Chodatii</i>			1059	1876								7531				
<i>Q. lacustris</i>	488								1159		1689					
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>	7808	702	4237	3002	4804	3767	4941	5490	4057	3619	1689		7151	3708		3990
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>	976	702	1059				2196	1098	4636	6334	3377	2510		1854		4788
<i>S. dimorphus</i>		2809	5650		2745	9416	6588		4636	6787	844	7531	4767	3708	8276	2195
<i>S. longus</i>						1883			2318							
<i>S. obliquus</i>																
<i>S. quadricauda</i>	17568	16854	5650	7879	5490	20010	16470	9882	6664	10406	20897	14434	6555	16685	4414	11172
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-5 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ X _____ Replicate _____

Date: 7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Secodiosium</i> sp.....												628			1104	
<i>Staurastrum</i> sp.																
<i>S. cuspidatum</i>																
<i>S. gracile</i>	244	351	2119	375	1029	942	549	1647	1159	2262	6333	1883		927	2759	1796
<i>Stigeoclonium tenue</i>																
<i>Tetradosmus</i> sp.																
<i>T. staurogeniaeforme</i>																
<i>Tetraedron caudatum</i>																
<i>T. minimum</i>		176	353													
<i>T. muticum</i>																
<i>T. pentaedricum</i>																
<i>T. regulare</i>																
<i>Tetraspora</i> sp.																
<i>T. lacustris</i>																
<i>T. lamellosa</i>						1883					10132					
<i>Treubaria</i> sp.																
<i>T. setigerum</i>		176					824		290							
<i>T. triaependiculata</i>																
<i>Ulothrix</i> sp.																
<i>U. subconstricta</i>																
<i>U. subtilissima</i>																
<i>U. zonata</i>																
<i>Uronema</i> sp.																
<i>Volvox</i> sp.	244000															
<i>V. aureus</i>																
<i>Zygnema</i> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-5 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water Net (>28μ) X Replicate

Date: 7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....	732															
TOTAL GREENS.....	728096	1037033	827006	66337	498905	896910	441136	174857	463893	759185	888237	918420	831973	782519	755447	670510
% of TOTAL.....	90.3	86.2	82.2	33.1	81.9	59.6	66.6	87.0	84.7	83.8	78.5	65.2	77.9	82.1	94.2	71.3
B. EUGLENOIDS																
Euglena sp.	488														552	
Phacus sp.																
TOTAL EUGLENOIDS.....	488														552	
% of TOTAL.....	0.1														0.1	
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....			2825		686	3531				1357			1788			
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	1220	1229	2119	375	343	1883	7412	549		1357	633	1255	596	5562		
Cyclotella sp.	2684	3511	6356	375	1716	5414			580	2715	1900		596		552	599
C. bodanica.....																
C. comata.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. caucucina.....	10980		21187		6863	17656		19215		4524				34760		36908
F. cretonensis.....		31952	25778	48024	10294	58382					49183	35457	42308		16553	12569
Gomphonema sp.																
Gyrodinium sp.																
Melosira sp.					1029	1883	1098				422			4171		399
M. binderana.....																

TABLE IIIA-5 (continued)

Nine Mile Point Phytoplankton
cell/L x

Whole Water Net (>28µ) Replicate

Date: 7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.																
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. crumetata</u>																
<u>Nitzschia</u> sp.		176														
<u>N. apicularis</u>																
<u>N. sigma</u>																
<u>Rhizosolenia</u> sp.																
<u>Stellarodiscus</u> sp.																
<u>S. asuvaca</u>																
<u>S. hantzschii</u>										4524						
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	14884	36868	58265	48774	20931	88749	8510	19764	580	14477	52138	36712	45288	44493	17105	50475
% of TOTAL.....	1.8	3.1	5.8	24.4	3.4	5.9	1.3	10.0	0.1	1.6	4.7	2.7	4.2	4.7	2.1	5.4
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallomonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-5 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) X Replicate _____

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Agmenellum punctata</i>																
<i>A. quadricollicatum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>																
<i>A. flos-aquae</i>																
<i>A. spiroides</i>			14125		37744	7062						31064			5187	
<i>Anacyclis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>																
<i>Achanocapsa</i> sp.	12200	31601	49437	37519	17156	180089	31568		905	422	31378	19068	28735	3862	40299	
<i>A. endophytica</i>														13974		
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Achanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanothece</i> sp.																
<i>Chroococcus</i> sp.									6954	18097		40163			79800	
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium Kuetzingianum</i> ...		71980	26484		17156	153017			37668	67865	31663	31378	128712	57934		
<i>C. Naegelianum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>											9288					
<i>G. rucestris</i>																
<i>Gonchostrhaeria</i> sp.																
<i>G. ananina</i>		2633														
<i>G. lacustris</i>								4392	4636	21717	66703		7416	4414	3192	
<i>Lyngbya</i> sp.																

TABLE IIIA-5 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net(>28 μ) _____ X Replicate _____

Date: 7/26/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquestii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>	1952	6145	17656	33767		147131	109800		2028		55938	303734	29795			79800
<i>M. incerta</i>																
<i>Nostoc</i> sp.		527													552	
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>		1931	11300			3531	54900		869		2111	10041				7182
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	14152	114817	119002	71286	72056	490830	196268	4392	52122	108584	166125	447758	147780	94085	22622	215460
% of TOTAL.....	1.8	9.5	11.8	35.6	11.8	32.6	29.6	2.2	9.5	12.0	14.7	31.8	13.8	9.9	2.8	22.9
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>											633					200
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>	37576	10709	1412		14411	22364	15647	2196	21442	14478	11821		31582	22710		798
<i>G. quadridentatus</i>	488		353		343	235			290	905	844		4767			
<i>Gyrodinium</i> sp.																
<i>Peridinium cinctum</i>	2196	3862	1059	13882	343	4708	549		6954	7691	11610	6589	4767	7416	6621	3192
<i>P. inconspicuum</i>	8052	176	353		2059	471	549		2318	452	422		1788	1854		
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	48312	14747	3177	13882	17156	27778	16745	2196	31004	23526	25330	6589	42904	31980	6621	4190
% of TOTAL.....	6.0	1.2	0.3	7.0	2.8	1.8	2.5	1.1	5.7	2.6	2.2	0.5	4.0	3.3	0.8	4.5

TABLE IIIA-5 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) _____ X _____ Replicate _____

Date: 7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	805932	1203465	1007450	200279	609048	1504267	662659	201209	547632	905772	1131830	1409479	1067945	953077	802347	940635

TABLE IIIA-6

Nine Mile Point Phytoplankton
cells/L X

Whole Water Net (>28u) Replicate

Date: 8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>	886	2465		2099	4878									9097		
<i>Arthrodesmus</i> sp.	148	308		1837	1626	257	503	1209	1540	194				227		
<i>A. convolutus</i>																
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudeticus</i>																
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.	1181				325			605	924				515			
<i>C. epiphytica</i>	738				1626							1997		682	4416	
<i>C. pseudocertyl</i>																
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora filament</i>																
<i>Closteriopsis longissima</i>	1476	924	1448	525	2276	770		1815	2465	2516	907	799	3260	1365	1717	682
<i>Closterium</i> sp.							168									
<i>Coelastrum</i> sp.																
<i>C. canaliculatum</i>		5545														
<i>C. microporum</i>	886	7394	2107	35690		24646	14747	4838	12323		14514	4792	9608	8187	23550	
<i>Cosmarium</i> sp.		616		262									5319			
<i>C. crenatum</i>		616		1575		770				194	605	200	343	227	736	455
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>		308	132													
<i>Crucigenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-6 (continued)

Nine Mile Point Phytoplankton
cells/L

X

Whole Water _____ Net (>28μ) _____ Replicate _____

Date: 8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>		8626				8215	16088	3628	19100		9676	5591			7850	
<i>D. pulchellum</i>	22440	4929	8427		20812	4621		20863		26318	50797	7188	10980	21833		29566
<i>Dimorhacoccus lunatus</i>																
<i>Echinopsoraella limnetica</i>	148														245	
<i>Erreria borheniensis</i>	4724			7348	18210		32175		9858	6192		19169		69139	7850	
<i>Eudorina elegans</i>	27164	44362	2107	20994	13007	21051	21115	21770	71472	32511	27818	19169	37059	14556	21588	16375
<i>Francia</i> sp.																
<i>F. droescheri</i>																
<i>F. ovalis</i>																
<i>Gleocystis</i> sp.					1301		838	302				399	172	227	245	
<i>G. amara</i>																
<i>G. gigas</i>	295	308		262					308			2396		3639		227
<i>G. planctonica</i>	1181															
<i>G. vesticulosa</i>	71748	123228	4213	79516	78695	131957	133897	33260	164509	221381	97664	164732	109290	81875	155530	68229
<i>Golenkinia paucispina</i>																
<i>G. radiata</i>																
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>				5773												
<i>K. obesa</i>																
<i>K. subsolitaria</i>																
<i>Lagorheimia ciliata</i>																
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Microactinium</i> sp.																
<i>M. pusillum</i>	2362				3902											
<i>Microstora</i> sp.																
<i>Mougeotia</i> sp.		31731	16590	6561		21308	14244		2465	9676	4535	3594	19387	910	4906	1819
<i>Nephrocystis Agardhianum</i>																910
<i>N. limneticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-6 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate

Date: 8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Oedozonium</i> sp.		38817	30547	4461		42873	20612	69242	4929	17223	18142	7987		32977	48327	4094
<i>Oocystis</i> sp.	10186	6778	527	7873	12032	4878	3687	1814	6161	1548	9676	2995	4804	5913	981	1365
<i>O. borealis</i>		616		3412				907	1848				3431	910		
<i>O. parva</i>							168			194						
<i>O. solitaria</i>							2681			3096	9676		21961			3639
<i>Pandorina</i> <i>porum</i>	8267		8427	7348	2601	3081										
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>		2156					5263									
<i>P. boryanum</i>		24646	6320	34641	14308	24545	31505	41424	29575	9286	14514	28753	16471	34569	11284	47305
<i>P. duplex</i>	4577	20949	18829	388	32519	3081	33851	4838	54220	27864	3024	5591	46667	26739	26739	32750
<i>P. simplex</i>	23030															
<i>P. tetras</i>																
<i>Planktoschaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedriopsis quadrispina</i>																
<i>Quadrigula chodatii</i>							670	1209								
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>		2465		2624			838	2419	3389	1548		1597		910	981	
<i>S. biradiatum</i>																
<i>S. brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	6939	1232			1301	1027	670	605	1232				2059			
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroeteri</i>																

TABLE IIIA-6 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X _____ Replicate _____

Date: 8/13/73

	10				20				40				60			
	NMHW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....																
<u>Staurastrum</u> sp.....													5147	227		
<u>S. cuspidatum</u>																
<u>S. gracile</u>	2067	5545	4477	2624	3252	6418	2849	1814	3389	4838	5443	3994		3184	3189	2957
<u>Stigeoclonium tenue</u>						1027										
<u>Tetrademus</u> sp.....																
<u>T. staurogeniaeforme</u>																
<u>Tetradron caudatum</u>																
<u>T. minimum</u>	148				325			302	308				172			
<u>T. muticum</u>																
<u>T. pentaedricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.....																
<u>T. lacustris</u>																
<u>T. lacellosa</u>				2099												
<u>Treubaria</u> sp.....																
<u>T. setigerum</u>													399			
<u>T. triaependiculata</u>																
<u>Ulothrix</u> sp.....																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.....																
<u>Volvox</u> sp.....																
<u>V. aureus</u>																
<u>Zygnera</u> sp.....																
UID biflagellate.....																
UID crescent-shaped cell.....	148															
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-6 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water Net (>28μ) X Replicate

Date: 8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....	443	1232		5249	2601	1284			924							
UID unicellular.....																
UID zygospor.....																
TOTAL GREENS.....	191182	335796	104151	233161	215597	301910	336569	212863	390939	364579	266991	281342	296645	317491	320134	210373
% of TOTAL.....	55.2	78.6	74.0	61.6	45.6	69.9	68.0	37.2	62.3	82.3	63.3	53.5	68.5	58.4	69.1	67.7
B. EUGLENOIDS																
Euglena sp.				262	325											
Phacus sp.																
TOTAL EUGLENOIDS.....				262	325											
% of TOTAL.....				0.06	0.07											
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....		3081					335									
Cocconeis sp.																
Coscinodiscus sp.	6348	924		262	3902	257	670	2117	924			200			981	
C. subtilis.....																
Cyclotella sp.	1181			787		257	335	302	924	581	605		172	1365		277
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. capucina.....		6161														
F. crotonensis.....		3081				1540	2514	3931	14787			19968		2274	245	
Gomphonema sp.																
Gyrosigma sp.																
Halosira sp.	2953				4878											
H. binderana.....																

TABLE IIIA-6 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28u) X Replicate _____

Date: 8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.			132					302								
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. triuncinata</u>																
<u>Nitzschia</u> sp.		308		262												
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhoicosphenia</u> sp.																
<u>Stechanodiscus</u> sp.																
<u>S. astraea</u>																
<u>S. hantzschii</u>	1181								308							
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
<u>UID pennate</u>																
TOTAL DIATOMS.....	11663	13555	132	1311	8780	2054	3854	6652	16943	581	605	20168	172	8188	1226	277
% of TOTAL.....	3.4	3.2	0.1	0.3	1.86	0.5	0.8	1.2	2.7	0.1	0.14	3.8	0.3	1.5	0.3	0.09
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallaronas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-6 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28u) _____ X _____ Replicate _____

Date: 8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<u>Amenellum punctata</u>																
<u>A. quadruplicatum</u>																
<u>Arabaena sp.</u>							5027						172			
<u>A. circinalis</u>											6047					
<u>A. flos-aquae</u>	738	3697		17058	42274				16944			5591		2274	2453	
<u>A. spiroides</u>				6561		257	10055	90701				1997			12266	
<u>Aracystis sp.</u>																
<u>A. cyanea</u>																
<u>A. dispersus</u>																
<u>A. limneticus</u>																
<u>A. minutus</u>																
<u>A. minor</u>																
<u>A. Prescottii</u>																
<u>Achanocapsa sp.</u>			13167	1575												
<u>A. endorhytica</u>																
<u>A. pulchra</u>																
<u>A. rivularis</u>																
<u>Achanizomenon sp.</u>																
<u>A. flos-aquae</u>																
<u>Achanotheca sp.</u>																
<u>Chroococcus sp.</u>	2067				1301			7257		1548		1997			3926	
<u>C. limneticus</u>																
<u>C. minutus</u>																
<u>Coelosphaerium Kuotzingianum</u> ...					65037		25137	30237			19351	19968		75052	36797	14556
<u>C. Macgillanum</u>																
<u>Gloeocapsa sp.</u>																
<u>G. aeruginosa</u>																
<u>G. punctata</u>																
<u>Gloeotheca sp.</u>					8455											
<u>G. linearis</u>																
<u>G. rupestris</u>																
<u>Gomphosphaeria sp.</u>																
<u>G. acronia</u>																
<u>G. lacustris</u>		27726		18370	7804	35942			46211	37155	48378		65883			
<u>Lynceba sp.</u>																

TABLE IIIA-6 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) ☒ Replicate _____

	110				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 8/13/73																
<i>L. aerugineo-coerulea</i>																
<i>L. birgei</i>																
<i>L. bisnetii</i>																
<i>L. limnetica</i>																
<i>Verisocodia tenuissina</i>																
<i>Microcystis aeruginosa</i>	39860	12323	11455	54061	49753	77018	53961	172953	70856	2903		173118	17500	109166	44647	46623
<i>M. incerta</i>									24646							
<i>Nostoc</i> sp.												399				
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>	1329	13863	9875	6298	8780	3081	14747	3628	7394			2995		2274	1117	
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	43994	57609	34497	103923	183404	116298	108927	304776	166051	41606	73776	206065	83555	188766	101206	73915
% of TOTAL.....	12.7	13.5	24.5	27.3	38.8	26.9	22.0	53.2	26.4	9.3	17.5	39.2	19.3	34.7	21.9	23.8
P. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>	591	1848	1053	1575	3577	1284	670	1209	4929	4644	4233	1997	3260	682	981	1592
<i>Glenodinium</i> sp.	83559	1232	527	18370	23413	257	3184	16025	1540	774	5745	2196	1544	3411	1717	1819
<i>G. palustre</i>																
<i>G. pulvisculus</i>																
<i>G. quadridens</i>													172			
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>	15649	17252	395	22569	37721	10012	41727	31144	47443	30575	70149	13977	47525	24790	37779	22743
<i>P. inconspicuum</i>					325											
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	99799	20332	1975	42514	65036	11553	45581	48378	53912	35993	80127	18170	52501	28883	40477	26154
% of TOTAL.....	28.8	4.8	1.4	11.2	13.7	2.7	9.2	8.4	8.6	8.1	19.0	3.5	12.1	5.3	8.7	8.4

TABLE IIIA-6 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net(>28 μ) X Replicate _____

Date: 8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrum sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	346618	427292	140755	381171	473142	431815	494931	572669	627845	442759	421449	525745	432873	543328	463043	310719

TABLE IIIA-7

Nine Mile Point Phytoplankton

cells/L

Whole Water _____ Net (>28µ) X Replicate _____

Date: 8/23/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP															no sample	
A. GREENS																
Actinastrum sp.....																
A. gracillimum.....																
A. hantzschii.....			1660		1586			299								
Ankistrodesmus sp.																
A. convolutus.....																
A. falcatus.....																
Arthrodesmus sp.																
Botryococcus Braunii.....																
B. protuberans.....																
B. sudeticus.....																
Carteria cordiformis.....																
Characium sp.....																
C. ornithocephalum.....																
Chlamydomonas sp.				640				747		565						
C. eoliphtica.....																
C. pseudopertvi.....																
Chorella ellipsoidea.....																
C. vulgaris.....																
Chlorococcum sp.																
Chodatella sp.																
Cladophora filament.....																
Closteriopsis longissima.....			830	377	198	936	177	299	286	377		359	200	457		335
Closterium sp.																
Coelastrum sp.																
C. canbricum.....																
C. microporum.....	3256	46735	3320	18073		37425	45275	11958	2165	3389	15729	10414	15974	20729		11395
Cosmarium sp.	136	548	415			702	1238	598	531		291	120	200	610		168
C. crenatum.....												120				
C. depressum.....																
C. formosulum.....																
C. nitidulum.....																
Crucigenia sp.																
C. lauterbornii.....																
C. quadrata.....																

TABLE IIIA-7 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ X _____ Replicate _____

Date: 8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>	4341				6346	7485	15917	9566	3269		6408	1915	12779	16766		5698
<i>D. pulchellum</i>	22791		40459	1883	24590		2830	23317	10623	18827	2621	21546		4877		24467
<i>Dinorhynchococcus lunatus</i>																
<i>Echinosphaerella limnetica</i>																
<i>Errerella borhemensis</i>							17686			28240	4369		6390			
<i>Eudorina elegans</i>	14109		5809	4029	9320	11227	5659	11958	3800	14685	12525	8618	6390	1219		
<i>Francia</i> sp.																
<i>F. Druescheri</i>																
<i>F. ovalis</i>																
<i>Gleocystis</i> sp.	543	2921	1660													
<i>G. ampla</i>																
<i>G. gigas</i>																
<i>G. planctonica</i>			11826	10543				15844			14564	19870				
<i>G. vesticulosa</i>	7190	78214	28632	11183	54335	41401	71272	8968	21655	35394	10194	13885	45526	45574		53626
<i>Golenkinia paucispina</i>	136			113												
<i>G. radiata</i>	271			640												
<i>Gonium</i> sp.									123	188						
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>	2171	5842	3735													
<i>K. obesa</i>																
<i>K. subsolitaria</i>							5659		409	5083	2913	2155		610		6033
<i>Lagerheimia ciliata</i>																
<i>L. longiseta</i>																
<i>L. subsalsia</i>																
<i>L. quadriseta</i>																
<i>Micractinium</i> sp.																
<i>M. pusillum</i>	15465		12034	1996					2451	6778	7573			4877		
<i>Microstora</i> sp.																
<i>Mougeotia</i> sp.		2556	415		2975	468		4185	4903		6117	8858	3394	1219		9049
<i>Nephroclytium Agardhianum</i>																
<i>N. limneticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-7 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesum</i>																
<i>Oedogonium</i> sp.	1357						4068	14349	1757			15322	1398	4938		3687
<i>Oocystis</i> sp.																
<i>O. Borgei</i>	543		6224	4631	793	936	6367	3438	2860	4707	1456	3112	3594			4525
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina morum</i>	1085	2921	7469				1415	2392	2165	1130						6033
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>								2392	1103			3830				
<i>P. Boryanum</i>								21823	10909	6024	4660	1915	12779	9755		2681
<i>P. duplex</i>	26047	26289	19918	19580	19037	26197	33956	21823	10909	6024	4660	1915	12779	9755		2681
<i>P. simplex</i>	8004	7302	64734	6024	9519	3742	22637	9566	2983	27110	10486	13406	25558	9755		26813
<i>P. tetras</i>																
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedriopsis quadrispina</i>																
<i>Quadrigula Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>	1085								531							
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>					397											
<i>S. obliquus</i>																
<i>S. quadricauda</i>	543	730	830	489		936	707	598	531	3012			799	2439		
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-7 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) X Replicate _____

Date: 8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Sponcylosium</u> sp.																
<u>Staurastrum</u> sp.							1238	448					799			
<u>S. cuspidatum</u>						234										
<u>S. gracile</u>	1085	1643	830	753	793	1403		448	817	565	291	1676		610		1005
<u>Sticoclonium tenue</u>	271		5187					598								
<u>Tetradescus</u> sp.																
<u>T. staurogeniaeforme</u>																
<u>Tetraedron caudatum</u>																
<u>T. minus</u>																
<u>T. muticum</u>																
<u>T. pentadricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. lamellosa</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>		183										120		152		
<u>T. triacanthulata</u>																
<u>Ulothrix</u> sp.																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygneva</u> sp.																
UID biflagellate																
UID crescent-shaped cell																
UID colony																
UID 3-celled colony																
UID 4-celled colony																
UID 8-celled colony																
UID desmid	543	730		113	595			1195		377						
UID flagellate																
UID filamentous																
UID green																

TABLE IIIA-7 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28μ) x Replicate _____

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 8/23/73																
UID quadriflagellate.....																
UID unicellular.....											146	120				
UID zygospore.....																
TOTAL GREENS.....	110972	176614	215987	81067	130484	133092	236101	144986	73871	156451	100343	127361	135780	124587		155515
% of TOTAL.....	21.1	34.7	28.3	26.8	26.5	23.9	37.1	14.8	22.2	15.5	18.8	19.7	30.1	32.2		21.6
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....																
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	136		207													
Cyclotella sp.				264	198					188						168
C. bodanica.....																
C. comta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. caucina.....	2035		10374	28880			8843	35873				35910				
F. crotonensis.....	2713	9128	6224			11695	8843	5231	17692	188265		6584	34943			49436
Gomphonera sp.																
Gyrosigma sp.			207													
Melosira sp.		365	8714	7531				2392		6778			1398	1219		
M. binderana.....																

TABLE IIIA-7 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28u) X Replicate _____

Date: 8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.						468										
<u>Mavicula</u> sp.																
<u>N. confervacea</u>																
<u>N. truncatata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhoicosphenia</u> sp.																
<u>Stechanodiscus</u> sp.																
<u>S. astraea</u>																
<u>S. hantzschii</u>																
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
<u>UID pennate</u>																
TOTAL DIATOMS.....	4884	9493	25726	36675	198	12163	17686	43496	17692	195231		42494	36341	1219		49604
% of TOTAL.....	0.9	1.9	3.4	12.1	0.04	2.2	2.8	4.4	5.3	19.3		6.6	8.0	0.3		6.9
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallanonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-7 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) X Replicate _____

Date: 8/23/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Agmenellum punctata</i>																
<i>A. quadruplicatum</i>																
<i>Anabaena</i> sp.	18992	17343			5949	19180				5648				22863		
<i>A. circinalis</i>			88594	3652	19831		45098	45588	92870		28544	35431	11981			60329
<i>A. flos-aquae</i>																
<i>A. spiroides</i>																
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minus</i>																
<i>A. minor</i>																
<i>A. Prescotti</i>																
<i>Aphanocapsa</i> sp.																
<i>A. endoshytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Achthyaenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Atharot</i> sp.																
<i>Chroococcus</i> sp.																
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium Kuetzingianum</i> ...	293026	165964	274911	7794	181449	228291	245828	30277	88539	188265	254861	175361	153750	195402		238801
<i>C. Naegelianum</i>																
<i>Gloeoecapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeothece</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphosphaeria</i> sp.																
<i>G. aronina</i>																
<i>G. lacustris</i>				3652				4484	531		4369	3591				
<i>Lyncebya</i> sp.																

TABLE IIIA-7 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) _____ X _____ Replicate _____

Date: 8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>	92927	133269	139012	166313	148729	159055	88428	370686	51767	455601	133256	234612	109023	28198		180986
<i>M. incerta</i>																
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>	136	548	415	113		2105	707			1318				305		
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>	1899	3651	10996		3569			68457	3269	6213	7573	24179	799	10669		33013
<i>Stigonema</i> sp.				3125												
UID crescent-shaped.....					198									2286		
UID filamentous.....																
TOTAL BLUE-GREENS.....	406980	320775	513928	184649	359725	408631	380061	791892	236976	657045	428603	473174	275553	259723		513129
% of TOTAL.....	77.4	62.9	67.5	60.9	73.0	73.5	59.7	80.6	71.4	65.1	80.2	73.1	61.0	67.0		71.2
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>	1085	2373	3942	264	793	1637	1945	1345	2451	565	4223	3711	3994	1524		2514
<i>Glenodinium</i> sp.																
<i>G. palustre</i>					793	234	354							152		
<i>G. pulvisculus</i>	407	365														
<i>G. quadridentis</i>			415						123		146					
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>	1221		1037	377	198	468		897	940		874	239		305		335
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>					397					753						
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	2713	2738	5394	641	2181	2339	2299	2242	3514	1318	5243	3950	3994	1981		2849
% of TOTAL.....	0.5	0.5	0.7	0.2	0.4	0.4	0.4	0.2	1.1	0.1	1.0	0.6	0.9	0.5		0.4

TABLE IIIA-7 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) _____ X Replicate _____

Date: 8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrum sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	525549	509620	761035	303032	492588	556225	636147	982616	332053	1010045	534189	646979	451668	387510		721097



TABLE IIIA-8

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) ☒ Replicate _____

	10				20				40				60			
	NMTW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 9/21/73																
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>	2419	4153	9584		5171	8459	2419	3543	6572		4341		3577	5267	7394	
<i>Ankistrodesmus</i> sp.					215											
<i>A. convolutus</i>																
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudeticus</i>			15974			27068	18142	25983	8763				32519			
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.			639				302		274				325			
<i>C. epiphytica</i>	2117	2967	639						274	559		1187			616	
<i>C. pseudopertyi</i>																
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora</i> filament.....																
<i>Closteriopsis longissima</i>	302	593	1278		862	634		295				297		219		1269
<i>Closterium</i> sp.																
<i>Coelastrum</i> sp.																
<i>C. cambricum</i>		18393		9858						40254		20766				
<i>C. microocorum</i>	26608	7120	44727	9458	37921	15226	70149	40155	10954	76036	23733	315609	15800	4929	112502	634
<i>Coscinium</i> sp.				616	215			148	274			297				
<i>C. crenatum</i>																
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Crucigenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-8 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) X Replicate _____

Date: 9/21/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>			3195	4929	17237								7804			
<i>D. pulchellum</i>	58054	80692	20447	36968	34474	13534	29027	1181		76036			2601	15142	4929	4229
<i>Dirorhynchococcus lunatus</i>					13789										308	13534
<i>Echinosphaerella limnetica</i>			319													
<i>Errerella borhamiensis</i>			10223		6895	10151	3628	14172	19169	35781			12357	3292	12323	6767
<i>Eudorina elegans</i>		13053							5477	2236	8682					10151
<i>Franceia</i> sp.																
<i>F. droescheri</i>																
<i>F. ovalis</i>	302				215					280						
<i>Gleocystis</i> sp.				308									325		1232	
<i>G. arpia</i>																
<i>G. gigas</i>											271					
<i>G. planctonica</i>			319												3697	
<i>G. vesticulosa</i>	32352			13555		6979	4838	10629		10063	26046	26106		18434		27068
<i>Golenkinia paucispina</i>																
<i>G. radiata</i>																
<i>Gonium</i> sp.										280					308	211
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>		9493						9448			8682					
<i>K. obesa</i>																
<i>K. subsolitaria</i>															4929	
<i>Lagerheimia ciliata</i>				308												
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Micractinium</i> sp.																
<i>M. pusillum</i>	9676	40939		27110	4309		4838	9448		40254	1085		16259		9858	846
<i>Microspora</i> sp.																
<i>Mougeotia</i> sp.	1512	593	958	616				3691		27955		5933	650	1756	308	
<i>Nesochrysis Agardhianum</i>	2419		4792					2362			6512				4929	
<i>N. limneticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-8 (continued).

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X _____ Replicate

Date: 9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesum</i>		2120														
<i>Oedogonium</i> sp.			3195		12497	2326	8466	3543	4929		1085				6161	2538
<i>Oocystis</i> sp.			958			846	1209				6512	593		4389		1692
<i>O. Borgei</i>																
<i>O. parva</i>				308										219		
<i>O. solitaria</i>											1085					
<i>Pandorina morum</i>																
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. borvanum</i>	4838							2362	13144	2236						
<i>P. dualex</i>	27818	18393	55270	49291	24562	23685	28422	20373	21907	32427	7868	52212	10406	3511	31423	20301
<i>P. simplex</i>	84965	112731	115013	142944	99112		58356	118104	172519	190370	90359	108578	95279	79002	82871	92412
<i>P. tetras</i>																
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedriopsis quadrispina</i>																
<i>Quadrigula Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>				2465				1772								
<i>S. bijuga</i>		2373		3697				295			1085	593				
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>		1187		2465	4309	6344	907	1181		559	1085	1187		878	1232	2115
<i>Schizoclamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>			639			211		295								
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-8 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) X Replicate _____

Date: 9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....																
<u>Staurastrum</u> sp.					215	211										
<u>S. cuspidatum</u>	302	297	639	308		211	605	443	274	280	271	297	650	219	308	634
<u>S. gracile</u>														219		
<u>Stigeoclonium tenue</u>																
<u>Tetradessius</u> sp.																
<u>T. staurogeniaeforme</u>																
<u>Tetraedron caudatum</u>																
<u>T. minus</u>			958													
<u>T. muticum</u>																
<u>T. pentaedricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.								9448								
<u>T. lacustris</u>																
<u>T. lamellosa</u>																
<u>Treubaria</u> sp.																
<u>T. satigerum</u>																
<u>T. triacopendiculata</u>																
<u>Ulothrix</u> sp.																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygnema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....	2419															
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-8 (continued)

Nine Mile Point Phytoplankton,
cell/L

Whole Water _____ Net (>28µ) _____ X _____ Replicate _____

Date: 9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....					431											
UID unicellular.....	4535	6230	7668	4005			14816		3286	4752		3560	2927	878	1848	
UID zygospora.....																
TOTAL GREENS.....	260638	326327	297434	309609	262429	115885	246124	278871	267816	540917	186946	245339	201288	149444	179911	297749
% of TOTAL.....	55.6	57.1	29.8	71.8	48.9	46.1	45.1	54.7	38.9	80.2	46.9	45.8	46.9	31.9	26.6	61.8
B. EUGLENOIDS																
Euglena sp.		297					1209		1095			297		219		
Phacus sp.																
TOTAL EUGLENOIDS.....		297					1209		1095			297		219		
% of TOTAL.....		0.5					.22		.16			.06		0.05		
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....																
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	302	1187	639							1118						
Cyclotella sp.	1209		319	924			302		548	280	543		325	6584		
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....												2077				
Fragilaria sp.												34116	3252	63641	184842	21147
F. capucina.....	30237	59332	6390	30807	64638	6344	21166		32861		135660			10973	6161	
F. crotonensis.....					5387		6047	25835								
Gomphonema sp.																
Gyrodinium sp.																
Heliosira sp.	6047		4153		5387	5287		2510	5477		9225		1951	1317	3697	3172
M. binderana.....																

TABLE IIIA-8 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water. Net (>28u) X Replicate

Date: 9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Meridion</i> sp.																
<i>Navicula</i> sp.																
<i>N. confervacea</i>																
<i>N. truncata</i>																
<i>Nitzschia</i> sp.																
<i>N. acicularis</i>																
<i>N. sigma</i>																
<i>Phaeosiphonia</i> sp.																
<i>Stechirodiscus</i> sp.																
<i>S. astraea</i>																
<i>S. hantzschii</i>	4838	1187	319	1540		3172	605	443	9311	3355	8411	593	325	5486	2465	
<i>S. niagarae</i>																
<i>Surirella</i> sp.																
<i>Synedra</i> sp.						211										
<i>Tabellaria</i> sp.																
<i>T. fenestrata</i>																
<i>T. flocculosa</i>																
UID pennate.....																
TOTAL DIATOMS.....	42633	61706	11820	33271	75412	15014	28120	28788	48197	4753	153839	36786	5853	88001	197165	24319
% of TOTAL.....	9.1	10.8	1.2	7.7	14.1	5.9	5.2	6.7	7.0	.70	38.6	6.8	1.4	18.8	29.1	5.05
D. GOLDEN-BROWNS																
<i>Dinobryon</i> sp.																
<i>D. bavaricum</i>																
<i>D. cylindricum</i>																
<i>D. divergens</i>																
<i>D. sertularia</i>																
<i>D. sociale</i>																
<i>Kallionomas</i> sp.																
<i>Synura</i> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-8 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate

Date: 9/21/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. quadruplicatum</i>																
<i>Anabaena</i> sp.		8900		9242								14833			9242	
<i>A. circinalis</i>		7417					18142		5477				32519			
<i>A. flos-aquae</i>	9070			7702								23733	976	13167	9242	
<i>A. spiroides</i>			13418				10583	8563	2738				16259	2195	8010	
<i>A. acyrtis</i> sp.											24419					
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>																
<i>Achanocapsa</i> sp.			15974	15404	10773		3024				3256	4153				1057
<i>A. endorhytica</i>																
<i>A. pulchra</i>		29666														
<i>A. rivularis</i>																
<i>Achanizomenon</i> sp.																
<i>A. flos-aquae</i>															3072	
<i>Achanothece</i> sp.																
<i>Chroococcus</i> sp.			5431		1724			2362			4341					
<i>C. limneticus</i>	3628	1187				3384		1181	1917	2236	1085	7713	1301	1317	2773	1903
<i>C. minutus</i>																
<i>Coelosphaerium Kuetszingianum</i> ...		29666	23961		13789				68460	13977		74165	40648	39501		
<i>C. Maegelianum</i>	45355		19169	15404	27579	27068	51402	33364	130074	27955	8682	29666	81296	50474	115526	40602
<i>Gloeocapsa</i> sp.																
<i>G. aerogonosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.				1540												
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphosphaeria</i> sp.																
<i>G. atrovirens</i>																
<i>G. lacustris</i>	7257	23733	79870	1232	96526	81204	15118	42517		15375	8682	23733		46085		54136
<i>Lyngbya</i> sp.												297				

TABLE IIIA-8 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) X Replicate _____

	10				20				40				60			
	NMPW	NMP	FITZ	NMPE	NMPW	NMP	FITZ	NMPE	NMPW	NMP	FITZ	NMPE	NMPW	NMP	FITZ	NMPE
Date: 9/21/73																
<u>L. aerugineo-coerulea</u>																
<u>L. Birgei</u>																
<u>L. Diquetii</u>																
<u>L. limnetica</u>												297				211
<u>Merismopedia tenuissima</u>																
<u>Microcystis aeruginosa</u>	84057	72088	79870	32347			3024	33955	16978	59543		63782	32519	63641	113986	42294
<u>M. incerta</u>			399350		43092		151183		136920				9756		30807	17340
<u>Nostoc sp.</u>																
<u>Oscillatoria sp.</u>																
<u>O. limnetica</u>																
<u>O. subbrevis</u>																
<u>Phormidium mucicola</u>	5140	5340	14696	4005	215		7861		3286	4193		8900	3252	6803	9242	423
<u>Stigonema sp.</u>																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	154507	177997	683687	86876	193698	111656	260337	121942	365850	123279	50465	251272	218526	226255	299136	157966
% of TOTAL.....	32.9	31.1	68.5	20.1	36.1	44.4	47.7	28.3	53.2	18.3	12.7	46.9	50.9	48.4	44.1	32.8
F: DINOFAGELLATES																
<u>Ceratium hirundinella</u>		297	639		1293	846	605	591			1357			658		423
<u>Glenodinium sp.</u>																
<u>G. palustre</u>																
<u>G. pulvisculus</u>	9978	4153	3514	308	2586	6979	6954	443	3286	4193	5426	1187	1626	2414	616	634
<u>G. quadridens</u>	605				431	211			822	1118		297	650	219	616	
<u>Gymnodinium sp.</u>																
<u>Peridinium cinctum</u>	302	890	639	924		423	2721	295		280	271	297	650	439		211
<u>P. inconspicuum</u>						423										
<u>P. wisconsinensis</u>																
UID dinoflagellate.....																
TOTAL DINOFAGELLATES.....	10885	5340	4792	1232	4310	8882	10280	1329	4108	5591	7054	1781	2926	3730	1232	1268
% of TOTAL.....	2.3	.93	.48	.29	.80	3.5	1.9	.31	.60	.83	1.8	.33	.68	.80	.18	.26

TABLE IIIA-8 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net(>28 μ) _____ X _____ Replicate _____

Date: 9/21/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
<u>Bacteriastrum</u> sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	468663	571667	997733	430988	535849	251437	546070	430930	687066	674540	398304	535475	428593	467649	677444	481302

TABLE IIIA-9

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) x Replicate _____

Date: 10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<u>Actinastrum</u> sp.....									9700							
<u>A. gracillimum</u>																
<u>A. hantzschii</u>																
<u>Ankistrodesmus</u> sp.																
<u>A. convolutus</u>						100										
<u>A. falcatus</u>						6400										
<u>Archirodesmus</u> sp.			1000													
<u>Botryococcus</u> sp.																
<u>B. protuberans</u>																
<u>B. sudeticus</u>																
<u>Carteria cordiformis</u>					1000	600				800			400	400		
<u>Characium</u> sp.....																
<u>C. ornithocephalum</u>												100				
<u>Chlamydomonas</u> sp.																
<u>C. epiphytica</u>																
<u>C. pseudocortyi</u>																
<u>Chorella ellipsoidea</u>																
<u>C. vulgaris</u>																
<u>Chlorococcum</u> sp.																
<u>Chodatella</u> sp.																
<u>Cladophora filament</u>																
<u>Closteriopsis longissima</u>	1800	3000	3500	3300	2900	700	6500	2800	4700	2800	3700	2500	500	4000	3600	3700
<u>Closterium</u> sp.																
<u>Coelastrum</u> sp.																
<u>C. canbriacum</u>					5200							3800	3400			12500
<u>C. microporum</u>					700	100		900				100	100	400	1100	
<u>Cosmarium</u> sp.	300		600	300												
<u>C. cronatum</u>																
<u>C. depressum</u>																
<u>C. formosulum</u>																
<u>C. nitidulum</u>																
<u>Crucigenia</u> sp.																
<u>C. lauterbornii</u>																
<u>C. quadreta</u>																

TABLE IIIA-9 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) X Replicate _____

Date: 10/25/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.				36400		3300						8100	4000			
<u>D. ehrenbergianum</u>																
<u>D. pulchellum</u>																
<u>Dimorphococcus lunatus</u>																
<u>Echinosphaerella limnetica</u>																
<u>Erreria borhemiensis</u>																
<u>Eudorina elegans</u>						3200						2000	9700	10000	3200	
<u>Francelia</u> sp.	700															
<u>F. droescheri</u>																
<u>F. ovalis</u>																
<u>Gleocystis</u> sp.							1500	300			4000	100	700			
<u>G. amphioxys</u>																
<u>G. gigas</u>																
<u>G. planctonica</u>																
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>																
<u>G. radiata</u>																
<u>Gonium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.																
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>						100		5000				1200				
<u>K. obesa</u>																
<u>K. subsolitaria</u>																
<u>Lagerheimia ciliata</u>																
<u>L. longiseta</u>																
<u>L. subsalsa</u>																
<u>L. quadriseta</u>																
<u>Micractinium</u> sp.																
<u>M. pusillum</u>																
<u>Microspora</u> sp.																
<u>Mougeotia</u> sp.									5400							
<u>Nephroclytus Agardhianum</u>																
<u>N. limneticum</u>																
<u>N. lunatum</u>																

TABLE IIIA-9 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X _____ Replicate

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 10/25/73																
<i>N. obesus</i>																
<i>Oedogonium</i> sp.							1500		23600		5500	300	300	1600		
<i>Oocystis</i> sp.																
<i>O. boreal</i>																
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina</i> <i>porum</i>	12300	21900	4500	10400								2300	500	11600	20900	5400
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. boryanum</i>				1700								900				2900
<i>P. simplex</i>		2100	10600	2300		3100	8000	10000				4600	900			9500
<i>P. simplex</i>		45900	19300		10400	8400	4500	33900	6200	33600	24900	5600	4500	10400		16400
<i>P. tetras</i>													300			
<i>Planktosphaeria</i> sp.		6000	12200	2600		3000		10000	12800	800	29300	900		12800		4400
<i>Pleodorina</i> <i>californica</i>																
<i>Polyedricosis</i> <i>quadrispina</i>																
<i>Quadrigula</i> <i>Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>																
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>				700		400				1100		300	300			
<i>Schizochlamys</i> <i>gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum</i> <i>pinutum</i>																
<i>S. Westii</i>																
<i>Schaerocystis</i> sp.																
<i>S. Schroeteri</i>																

TABLE IIIA-9 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate

Date: 10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Spondylosium</i> sp.....	900	3000	300	1300	2000	900	6000	1900	3100	1400	2900	900	600	1600	2200	1500
<i>Staurastrum</i> sp.																
<i>S. cuspidatum</i>																
<i>S. gracile</i>																
<i>Stigeoclonium tenue</i>																
<i>Tetradescmus</i> sp.																
<i>T. staurogeniaeforme</i>																
<i>Tetraedron caudatum</i>																
<i>T. minimum</i>																
<i>T. muticum</i>																
<i>T. pentaedricum</i>																
<i>T. regulare</i>																
<i>Tetrastora</i> sp.																
<i>T. lacustris</i>																
<i>T. lamellosa</i>																
<i>Treubaria</i> sp.										600						
<i>T. setigerum</i>																
<i>T. triaopendiculata</i>			43500	9400			38500	40800			54300	9100			8700	67200
<i>Ulothrix</i> sp.										19200		12500	8300	28000	182800	13700
<i>U. subconstricta</i>	31100	66600			38400	5300			41900							
<i>U. subtilissima</i>		19500	15500	18500		5400										
<i>U. zonata</i>							9000	5000	46100		2200					
<i>Uronema</i> sp.																
<i>Volvox</i> sp.																
<i>V. aureus</i>																
<i>Zygnema</i> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....								300			1100		300			
UID green.....																

TABLE IIIA-9 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28µ) x Replicate _____

Date: 10/25/73	10'				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	47100	168000	111000	86900	60600	41000	75500	110900	153500	60300	127900	55300	34800	263600	53400	123500
% of TOTAL.....	18.33	57.20	28.68	23.42	16.98	23.62	13.58	12.81	40.45	20.38	15.45	16.13	15.93	44.35	22.99	33.08
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....	11500	15600	5800	14700	5500	6000	21500	10300	35700	8100	8400	800	5700	15200	6500	30800
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....			300				3500				2200					
Cyclotella sp.	1500	1500	600						3100						2200	200
C. bodanica.....				1600	1300	800	2500	3100		1900	1500	1200	900	2800		
C. coata.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. caudata.....	38200	37500	85400	19800	73100	2000	22500	84000	156600	38900	49900	72900	34800	152000	10800	82100
F. crotonensis.....	3500	31500		25400	4900	21200	32500	43600		6100	24200	16500	5500	23600	36100	39100
Gomphonema sp.																
Gyrodinium sp.																
Helosira sp.																
M. binderana.....	4100					3100		6800	7400	4200	20000	3000	3000	1600	21700	

TABLE IIIA-9 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28u) X Replicate _____

Date: 10/25/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.																
<u>Navicula</u> sp.																
<u>N. confervacea</u>						100										
<u>N. triuncinata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhicossthenia</u> sp.																
<u>Stechanodiscus</u> sp.			1000			100		300	1900				800		400	
<u>S. astraea</u>																
<u>S. hantzschii</u>																
<u>S. niagarae</u>							500				700					
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.	72300	1200	41000	4600	2900	5700	11500	6800	9300		19100	5200	2100	54000	18800	
<u>T. fenestrata</u>													400			
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	131100	87300	134100	66100	87700	39000	94500	154900	214000	61400	126000	99600	52400	250000	96500	152200
% of TOTAL.....	51.01	29.72	34.64	17.81	24.57	22.47	17.00	17.89	56.39	20.75	15.22	29.05	23.99	42.06	41.54	40.76
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallomonas</u> sp.				300			1000	300			400	700			1100	
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....				300			1000	300			400	700			1100	
% of TOTAL.....				0.08			0.18	0.03			0.05	0.20			0.47	

TABLE IIIA-9 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X _____ Replicate _____

Date: 10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Agmenellum punctata</i>												300				
<i>A. quadruplicatum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>																
<i>A. flos-aquae</i>				1000		3600							800			4400
<i>A. spiroides</i>																
<i>Anacystis</i> sp.							125000								17700	15900
<i>A. cylindrica</i>																
<i>A. dispersus</i>			6000					10000								
<i>A. limneticus</i>		3600		8100			2000	12100		8300	2900	7800				
<i>A. minutus</i>												13300				
<i>A. minor</i>																
<i>A. Prescotti</i>																
<i>Aphanocapsa</i> sp.																
<i>A. endophytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanothece</i> sp.																
<i>Chroococcus</i> sp.																
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium kuetzingianum</i> ...																
<i>C. Naegelianum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphonema</i> sp.	77600	34500			208000	89600				165300			130100	80000		
<i>G. apomina</i>										2200						
<i>G. lacustris</i>			135700	208000			257500	557500			539000	165700			56000	77000
<i>Lyngbya</i> sp.																

TABLE IIIA-9 (continued)

Nine Mile Point Phytoplankton
cells/L
Whole Water Net (>28 μ) X Replicate

Date: 10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>																
<i>Merismocedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.	300		300			200		18700	12000		31200	100			7600	200
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	77900	38100	142000	217100	208000	93400	384500	598300	12000	173600	573100	187200	130900	80000	81300	97500
% of TOTAL.....	30.31	12.98	36.68	58.50	58.26	53.80	69.16	69.09	3.16	58.67	69.23	54.59	59.94	13.46	35.00	26.11
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>		300		700			500	1600			400	100				
<i>Glenodinium</i> sp.	300				700	200				600			300	400		200
<i>G. palustre</i>																
<i>G. pulvisculus</i>																
<i>G. quadridens</i>																
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>																
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	300	300		700	700	200	500	1600		600	400	100	300	400		200
% of TOTAL.....	.12	.10		0.19	.20	.12	0.09	0.18		.20	0.05	0.03	.14	.07		0.05

TABLE IIIA-9 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) X Replicate _____

Date: 10/25/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrum sp.....	600													400		
UID branched filament.....																
TOTAL OTHERS.....	600													400		
% of TOTAL.....	0.23													0.07		
GRAND TOTAL.....	257000	293700	387100	371100	357000	173600	556000	866000	379500	295900	827800	342900	218400	594400	232300	373400

TABLE IIIA-10

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) X Replicate _____

Date: 11/20/73

GROUP

A. GREENS

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Actinastrum</u> sp.....																
<u>A. gracillimum</u>																
<u>A. hantzschii</u>																
<u>Ankistrodesmus</u> sp.																
<u>A. convolutus</u>																
<u>A. falcatus</u>																
<u>Arthrodesmus</u> sp.																
<u>Botryococcus Braunii</u>																
<u>B. protuberans</u>																
<u>B. sudeticus</u>																
<u>Carteria cordiformis</u>																
<u>Characium</u> sp.																
<u>C. ornithocephalum</u>																
<u>Chlamydomonas</u> sp.																
<u>C. epiphytica</u>																
<u>C. pseudocertyi</u>																
<u>Chorella ellipsoidea</u>																
<u>C. vulgaris</u>																
<u>Chlorococcum</u> sp.															400	
<u>Chodatella</u> sp.																
<u>Cladophora</u> filament.....																
<u>Closteriopsis longissima</u>	1200	2000	600	1100	6400	6200	2300	1800	1600	1700	1300	1700	2000	2800	3000	3200
<u>Closterium</u> sp.																
<u>Coelastrum</u> sp.																
<u>C. canbricum</u>																
<u>C. microporum</u>							2000	3700			300	200				
<u>Cosmarium</u> sp.	2500								200	600			200	200		
<u>C. crenatum</u>																
<u>C. depressum</u>																
<u>C. formosulum</u>																
<u>C. nitidulum</u>																
<u>Crucigenia</u> sp.																
<u>C. lauterbornii</u>																
<u>C. quadrata</u>																

TABLE IIIA-10 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>20) X Replicate _____

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.																
<u>D. ehrenbergianum</u>																
<u>D. pulchellum</u>																
<u>Dinorthiscoccus lunatus</u>																
<u>Echinosphaerella limnetica</u>																
<u>Errerella borhemensis</u>																
<u>Eudorina elegans</u>																
<u>Francoia</u> sp.																
<u>F. droescheri</u>																
<u>F. ovalis</u>																
<u>Gleocystis</u> sp.												200				
<u>G. anola</u>																
<u>G. gigas</u>																
<u>G. planctonica</u>																
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>																
<u>G. radiata</u>																
<u>Gonium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.																
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>																
<u>K. obesa</u>																
<u>K. subsolitaria</u>																
<u>Lagerheimia ciliata</u>																
<u>L. longiseta</u>																
<u>L. subsalsa</u>																
<u>L. quadriseta</u>																
<u>Microactinium</u> sp.																
<u>M. pusillum</u>																
<u>Microscora</u> sp.																
<u>Mougeotia</u> sp.																
<u>Nechrocytium Agardhianum</u>																
<u>N. limneticum</u>																
<u>N. lunatum</u>																

TABLE IIIA-10 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water Net (>28 μ) X Replicate

Date: 11/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>H. obesus</i>																
<i>Cedogonium</i> sp.												200				7600
<i>Oocystis</i> sp.																
<i>O. Borgel</i>																
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina morum</i>	11200	1400				4300				900	7200	7200				
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>				1800												
<i>P. Boryanum</i>								6400	5500	1300	4100	5700			5500	
<i>P. duclex</i>			14700						3700	3000	6100	7600	800	3500	14300	
<i>P. simplex</i>	34800		4700		20800	4100										
<i>P. tetras</i>																
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedriopsis quadrispina</i>																
<i>Quadrigula Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bifurca</i>										400						
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>												1000			1700	
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. seticera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-10 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Spondylosium sp.....																
Staurostrum sp.	7400	1000	600	3000	1600	2200	300	2300		600	1300	1900	700	1800	800	
S. cuspidatum.....																
S. gracile.....																
Stigeoclonium tenue.....																
Tetradescmus sp.																
T. staurogeniaeforme.....																
Tetraedron caudatum																
T. minimum.....																
T. puticum.....																
T. pentaedricum.....																
T. regulare.....																
Tetraspora sp.																
T. lacustris.....																
T. lamellosa.....																
Treubaria sp.																
T. setigerum.....																
T. triacopendiculata.....																
Ulothrix sp.																
U. subconstricta.....		4600			8600	8400			23200			12000	10300	7400		
U. subtilissima.....																
U. zonata.....																
Uronema sp.	62200			5700												24800
Volvox sp.																
V. aureus.....																
Zygnema sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....	100		800		1000		2800			3400					7100	

TABLE IIIA-10 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28μ) ✓ Replicate _____

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 11/20/73																
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	119400	9000	21400	11600	38400	25200	7400	14200	34200	11900	20300	37700	14000	15900	32800	35600
% of TOTAL.....	18.93	2.54	15.88	22.66	12.09	16.02	2.35	8.75	6.82	12.08	11.95	16.92	39.55	21.12	9.26	14.24
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....	77200	11600		8900	6100	15100		31700	8500	10100		12900	7700	4600	22700	22100
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....					300											
Cyclotella sp.	1200	500	1700				18300		1600		10000					
C. bodanica.....	2500			200	300	300	300		900			1200	500	400	800	1600
C. conta.....									500	700						1600
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. capucina.....	109500	4600		5500	16600	31100		12900	8100	6300		20500		12600	8400	27000
F. crotonensis.....	47300	10100		1100		31000		12000	33400	6300			2500	3000		5400
Gomphonema sp.																
Gyrosigma sp.																
Melosira sp.																
M. binderana.....	6200	2500				6500		13800		2400			4500	21500	1300	20500

TABLE IIIA-10 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28u) X Replicate _____

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Meridion</i> sp.				200												
<i>Navicula</i> sp.																
<i>N. confervacea</i>																
<i>N. truncata</i>																
<i>Nitzschia</i> sp.																
<i>N. acicularis</i>																
<i>N. sigma</i>																
<i>Rhoicosphenia</i> sp.																
<i>Stechanodiscus</i> sp.																
<i>S. astraea</i>																
<i>S. hantzschii</i>																
<i>S. niagarae</i>																
<i>Surirella</i> sp.																
<i>Synedra</i> sp.																
<i>Talellaria</i> sp.																
<i>T. fenestrata</i>	34800			900	9900	17000			20700	3300		200	6200	17300	13400	36200
<i>T. flocculosa</i>																
UID pennate.....			27000				35000				50600					
TOTAL DIATOMS.....	278700	293000	28700	16800	33200	101000	53300	71800	73000	28400	60600	34800	21400	59400	46600	114400
% of TOTAL.....	44.18	82.72	21.29	32.81	10.45	64.21	16.94	44.21	14.55	28.83	35.67	15.62	60.45	78.88	13.16	45.76
D. GOLDEN-BROWNS																
<i>Dinobryon</i> sp.																
<i>D. bavaricum</i>																
<i>D. cylindricum</i>																
<i>D. divergens</i>																
<i>D. sertularia</i>																
<i>D. sociale</i>																
<i>Mallanonas</i> sp.																
<i>Synura</i> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-10 (continued)

Nine Mile Point Phytoplankton

cells/L

Whole Water

Net (>28µ)

X

Replicate

Date: 11/20/73	10				20				40				60			
	NSPW	NSPP	FITZ	NMPE	NSPW	NSPP	FITZ	NMPE	NSPW	NSPP	FITZ	NMPE	NSPW	NSPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. cuspidicolum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>																
<i>A. flos-aquae</i>		300	15000													
<i>A. spiroides</i>																
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>						300										
<i>A. limneticus</i>		4200			5100		2000	7400		3600		1000			1700	
<i>A. minutus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>					600	2700										
<i>Aphanocapsa</i> sp.																
<i>A. endohylica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanotheca</i> sp.																
<i>Chroococcus</i> sp.																
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium Kuetzingianum</i> ...																
<i>C. Naegelianum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphosphaeria</i> sp.																
<i>G. isonira</i>													(30')	(30')	(60')	(60')
<i>G. lacustris</i>	232700	47600	69400	22800	240000	27300	250000	69000	394000	54300	88200	149300	21600	19300	273000	100000
<i>Lynebya</i> sp.																

TABLE IIIA-10 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) X Replicate _____

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.		100	300		300	800	2000		300	200	800					
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	232700	52200	84700	22800	246000	31100	254000	76400	394300	58100	89000	150300	21600	19300	274700	100000
% of TOTAL.....	36.89	14.74	62.83	44.53	77.46	19.77	80.71	47.04	78.59	58.99	52.38	67.46	100	100	77.58	40.0
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>																
<i>Glenodinium</i> sp.									200	100						
<i>G. palustre</i>																
<i>G. pulvisculus</i>																
<i>G. quadrident</i>																
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>																
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....									200	100						
% of TOTAL.....									.04	.1						

TABLE IIIA-10 (continued)

Nine Mile Point Phytoplankton
cells/L.Whole Water _____ Net (>28 μ) * X Replicate _____

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 11/20/73																
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	630800	354200	134800	51200	317600	157300	314700	162400	501700	98500	169900	222800	35400	75300	354100	250000

TABLE IIIA-11

Nine Mile Point Phytoplankton
cells/L

Whole Water X Net (>28μ) Replicate

6/15/73

Date:	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NITE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
Actinastrum sp.....	4658			8074												
A. gracillimum.....																
A. hantzschii.....																
Ankistrodesmus sp.																
A. convolutus.....																
A. falcatus.....																
Arthrodesmus sp.																
Botryococcus Braunii.....																
B. protuberans.....																
B. sudeticus.....																
Carteria cordiformis.....																
Characium sp.....																
C. ornithocephalum.....																
Chlamydomonas sp.																
C. epiphytica.....																
C. pseudoperlyi																
Chorella ellipsoidea.....																
C. vulgaris.....																
Chlorococcum sp.																
Chodatella sp.																
Cladophora filament.....																
Closteriopsis longissima.....																
Closterium sp.																
Coelastrum sp.																
C. canaliculatum.....																
C. microporum.....																
C. ocellatum.....																
C. crenatum.....																
C. depressum.....																
C. formosulum.....																
C. nitidulum.....																
Crucigenia sp.																
C. lauterbornii.....																
C. quadrata.....																

TABLE IIIA-11 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28u) _____ Replicate _____

6/15/73

	10				20				40				60			
	INPW	NPP	FITZ	NPPE	NMPW	NMP	FITZ	NPPE	NMPW	NMP	FITZ	NPPE	NMPW	NMP	FITZ	NPPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.																
<u>D. ehrenbergianum</u>																
<u>D. pulchellum</u>																
<u>Dinorhynchococcus lunatus</u>																
<u>Echinosticharella limnetica</u>																
<u>Errerella korhemiensis</u>																
<u>Eudorina elegans</u>																
<u>Francoia</u> sp.																
<u>F. Broescheri</u>																
<u>F. ovalis</u>																
<u>Gleocystis</u> sp.												16924				
<u>G. acuta</u>																
<u>G. gigas</u>																
<u>G. planctonica</u>																
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>																
<u>G. radiata</u>																
<u>Gonium</u> sp.																
<u>G. sociale</u>	82688	76707	203048	31288	208041	94630	67697	87980	77734	63803	91846	114237	90327	69690		81464
<u>Hyalotheca</u> sp.																
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>																
<u>K. obesa</u>																
<u>K. subsolitaria</u>																
<u>Lagerheimia ciliata</u>																
<u>L. longiseta</u>																
<u>L. subsalsa</u>																
<u>L. quadriseta</u>																
<u>Microactinium</u> sp.																
<u>M. pusillum</u>																
<u>Microscora</u> sp.																
<u>Neuteotia</u> sp.																
<u>Nephroclytus Agardhianum</u>																
<u>N. limneticum</u>																
<u>N. lunatum</u>																

TABLE IIIA-11 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28µ) _____ Replicate

6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Oedocoenium</i> sp.																
<i>Oocystis</i> sp.																
<i>O. boreal</i>																
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina morum</i>																
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. boryanum</i>																
<i>P. duplex</i>																
<i>P. simplex</i>																
<i>P. tetras</i>																
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedriopsis quadrispina</i>																
<i>Quadrigula Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>					5700				7231						9768	
<i>S. acuminatus</i>																
<i>S. bijuga</i>																
<i>S. biradiatum</i>																
<i>S. brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>																
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-11 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28µ) _____ Replicate _____

6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....																
<u>Staurastrum</u> sp.																
<u>S. cuspidatum</u>																
<u>S. gracile</u>																
<u>Stigeoclonium tenue</u>																
<u>Tetradescmus</u> sp.																
<u>T. staurogeniaeforme</u>																
<u>Tetradron caudatum</u>																
<u>T. minimum</u>																
<u>T. muticum</u>																
<u>T. pentadricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. lamellosa</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>																
<u>T. triappendiculata</u>																
<u>Ulothrix</u> sp.....																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvax</u> sp.																
<u>V. aureus</u>																
<u>Zygema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....									106658	10814	24223					
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....	11646		279424	100930	21374			182816		43256	77716		46189			
UID filamentous.....																
UID green.....																

TABLE IIIA-11 (continued)

Nine Mile Point Phytoplankton
 X cell/L
 Whole Water Net (>28μ) Replicate

6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....	18634	1009	11177	7065	4275	1893	11283	4570	9040	3244	14130		14370			
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	117626	77716	493649	147357	239390	96523	78980	275366	200663	121117	207915	131161	150886	99394	54701	81464
% of TOTAL.....	20.5	25.8	44.5	40.4	37.7	50.2	6.6	41.3	49.3	33.9	29.8	10.0	37.2	47.6	16.0	27.3
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.	11646	70651	72650	59549	38473	15141	28207	83410	15365	51907	37344	63465	25661	12567	29304	46092
Asterionella formosa.....						946										1072
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	17469	5047	14903	3028	7125	946	16924	7998	5432	1081	4037	16924	5132	3427		3216
Cyclotella sp.	52408	58539	190026	107995	86921	33121	276429	134827	47002	54070	180665	169240	36952	17137	34188	
C. bodanica.....																
C. comta.....																
C. monoghiniana.....		24223							21693	28116			40031	10282		
Cymbella sp.																
Diatoma sp.																
D. elongatum.....	17304	10093	5588	2019	82647		135394	29708		41093	43400	17927	25661	21707	47863	1072
Fragilaria sp.			50296	6056			225656				24223	131161	4106			22510
F. capucina.....																
F. crotonensis.....	6988	2019	65199	11102	17099	9463		7998	6327	4326	30279	38079				43948
Gomphonema sp.			1863		1143						2019					
Gyrodinium sp.	2329	1009		1009					904							
Heliosira sp.	138589	9084	89416	9084	62697	10409	146676	19424	16270	85686	64595	266553	88274	38095		2780
H. binderana.....																

TABLE IIIA-11 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water ☒ Net (>28µ) _____ Replicate _____

6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Meridion</i> sp.		1009														
<i>Navicula</i> sp.	20963	5047	18628	7065	9975	3785	11283	17139			16149	25386	2053	5712	5861	2144
<i>N. confervacea</i>								5713			6056		4106			
<i>N. tripointata</i>	10482		14903	1009	8550			1143	2712	2163			2053			
<i>Nitzschia</i> sp.	11650															
<i>N. acicularis</i>																
<i>N. sigma</i>																
<i>Rhoicosphenia</i> sp.			3726		2850		11283		904		3028			2284	977	
<i>Stechanodiscus</i> sp.	80358		61473		61272		5641	58273	28020		36335			2284	16606	60026
<i>S. astraea</i>																
<i>S. hantzschii</i>																
<i>S. niagarae</i>																
<i>Surirella</i> sp.		2019	3726		1425	1893		1143	1808	2163	2019			1142		
<i>Synedra</i> sp.	3493	4037	18628	4037	1425	4732			1808	3244	2019			4570	4884	2144
<i>Tabellaria</i> sp.	2329	13121	3726	2019	4275	946	39490	13711	904	2163		4231	7185	4570	1954	2144
<i>T. fenestrata</i>																
<i>T. flocculosa</i>																
UID pennate.....																
TOTAL DIATOMS.....	377173	206907	614751	217000	387302	81382	896983	380487	171746	226013	452168	732966	243267	124919	141637	212237
% of TOTAL.....	65.8	68.8	55.5	59.6	61.0	42.4	74.6	57.0	42.2	63.3	64.7	56.0	60.0	42.5	41.4	71.2
D. GOLDEN-BROWNS																
<i>Dinobryon</i> sp.																
<i>D. bavaricum</i>																
<i>D. cylindricum</i>																
<i>D. divergens</i>																
<i>D. sertularia</i>																
<i>D. sociale</i>																
<i>Mallomonas</i> sp.																
<i>Synura</i> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-11 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) _____ Replicate _____

6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<u>Agmenellum punctata</u>																
<u>A. quadruplicatum</u>																
<u>Anabaena</u> sp.	75700		18628					11426	27116		15140	359635			92796	
<u>A. circinalis</u>																
<u>A. flos-aquae</u>																
<u>A. sciroides</u>																
<u>Anacystis</u> sp.																
<u>A. cyanea</u>																
<u>A. distersus</u>																
<u>A. limneticus</u>																
<u>A. minutus</u>																
<u>A. minor</u>																
<u>A. Prescottii</u>																
<u>Aphanocapsa</u> sp.																
<u>A. endophytica</u>																
<u>A. pulchra</u>																
<u>A. rivularis</u>																
<u>Aphanizomenon</u> sp.																
<u>A. flos-aquae</u>																
<u>Aphanotheca</u> sp.																
<u>Chroococcus</u> sp.																
<u>C. limneticus</u>																
<u>C. minutus</u>																
<u>Coelosphaerium Kuetszingianum</u> ...																
<u>C. Macgillanum</u>																
<u>Gloeocapsa</u> sp.																
<u>G. aerocerosa</u>																
<u>G. punctata</u>																
<u>Gloeotheca</u> sp.																
<u>G. linearis</u>																
<u>G. ruscstris</u>																
<u>Gomphonema</u> sp.																
<u>G. aponina</u>																
<u>G. lacustris</u>																
<u>Lyncebya</u> sp.																

TABLE IIIA-11 (continued)

Nine Mile Point Phytoplankton
 Whole Water X cells/L Net (>28 μ) Replicate

6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>							214373					84620			43956	
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	75700		18628				214373	11426	27116		15140	444255			136752	
% of TOTAL.....	13.2		1.7				17.8	1.7	6.7		2.2	34.0			40.0	
F. DINOFAGELLATES																
<i>Ceratium hirundinella</i>																
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>																
<i>G. quadridens</i>																
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>	2329	16149			8550	14195	11283		7231	9733	23214		11290	20564	8791	4288
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFAGELLATES.....	2329	16149			8550	14195	11283		7231	9733	23214		11290	20564	8791	4288
% of TOTAL.....	.4	5.4			1.3	7.4	.9		1.8	2.7	3.3		2.8	9.9	2.6	1.4

TABLE IIIA-11 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net(>28 μ) Replicate

6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrum sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	572828	300772	1108400	364357	635242	192100	1201619	667279	406738	356863	698437	1308382	405443	244877	341881	297989

TABLE IIIA-12

Nine Mile Point Phytoplankton

X cells/L

Whole Water Net (>28µ) Replicate

7/20/73

Date:	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>																
<i>Arthrodesmus</i> sp.	2745	1347	6622		548	17570	3797	1647			534	5992	4110	2242		
<i>A. convolutus</i>																
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudeticus</i>																
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>				732		1830					534					
<i>Chlamydomonas</i> sp.	915	4040					949					11127				272
<i>C. eoliphytica</i>	915		45031	18302			4746						1370			543
<i>C. pseudocertvi</i>							1898						685			
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora</i> filament.....																
<i>Closteriopsis longissima</i>	2745	673	3973	2196	548	732	1898					1712		747		
<i>Closterium</i> sp.														747		
<i>Coelastrum</i> sp.														895	543	
<i>C. canaliculatum</i>																
<i>C. microdonum</i>	76868	127261	157610	11713	107917	52709	115802	118596	8628	75769	140923	82170	126030	95657	98417	80396
<i>Cosmarium</i> sp.																
<i>C. crenatum</i>																
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>										351						
<i>Crispidenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-12 (continued)

Nine Mile Point Phytoplankton
cells/L

7/20/73

Whole Water X Net (>20u) Replicate

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.									13085							
<u>D. ehrenbergianum</u>																
<u>D. pulchellum</u>			58276													
<u>Discorhacoccus lunatus</u>																
<u>Echinospaerella limnetica</u>																
<u>Erreraella borhemensis</u>																
<u>Eudorina elegans</u>	197659	75414	158934	5857	39442	46853 175697	190789	79064		33675	34163	136950	32877	35872		
<u>Francia</u> sp.																
<u>F. droescheri</u>																
<u>F. ovalis</u>																
<u>Gleocystis</u> sp.																
<u>G. amela</u>																
<u>G. gress</u>	2745				2191	1098					17082			20925		
<u>G. planctonica</u>	147329	26260	292703	99562	9860		71190			33676	34163	2568 13695	49316 7534	74732		13037
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>																
<u>G. radiata</u>																
<u>Gonium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.																
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>	27453	1347			548		949		2301		2135			2684		
<u>K. obesa</u>																
<u>K. subsolitaria</u>										22450						4346
<u>Lagerheimia ciliata</u>																
<u>L. longiseta</u>																
<u>L. subsalsa</u>																
<u>L. quadriseta</u>																
<u>Microactinium</u> sp.			42382													
<u>M. pusillum</u>																
<u>Microscora</u> sp.																
<u>Neurectia</u> sp.																
<u>Neurocyttum Agardhianum</u>	7321		21191				7594									2716
<u>N. limneticum</u>																
<u>N. lunatum</u>																

TABLE IIIA-12 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) Replicate

7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>H. obesus</i>		8080	5298	2928												
<i>Oedogonium</i> sp.							28476			2105						
<i>Oocystis</i> sp.	658865	137360	127147	23426	20816	26355	117701	59298	288		54981	71899	39042	68754	1789	24716
<i>O. Borgesi</i>																
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina dorum</i>	203150		74169	187410	43824	121524	68342	349198	4601	16838	269035		27398	316865		
<i>Pediastrum</i> sp.		10773								126282	8541					
<i>P. biradiatum</i>										5613			21918		72918	17383
<i>P. Borvianum</i>	14641	43094	45031	5857												
<i>P. duolex</i>	124452	129281	84765	169841	100795	67351	30374	372259		78576	25622	208849	54796	23914	157467	69532
<i>P. simplex</i>	1830	673						13177			4270	6848		83700	7158	
<i>P. tetras</i>	7321				4382	2928				5613		23966				
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedricosis quadrispina</i>																
<i>Quadrigula Choctatii</i>			10596								3203	6848	4110	1495		
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.							3797									
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>	10981	10100	39734	26355	30677	19034	17086	14824	1438	23853	34163	57348	30138	14946	41156	8691
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>	3660	2693					7594		1150		4270					
<i>S. dimorphus</i>								3294								
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	10981	16160	10596	5857	19721	6955	28476		1726	12277	28825	10272	12329	11957	90365	1086
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>	1830							3294			4804			1495		
<i>Schaerocystis</i> sp.																
<i>S. Schroeteri</i>																

TABLE IIIA-12 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) Replicate

7/20/73	10				20				40				60			
	IMTW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Scolecocyclus</i> sp.....																
<i>Staurastrum</i> sp.....	3660			732		366	949		144	2105		1712	685	2242	895	543
<i>S. cuspidatum</i>																
<i>S. gracile</i>																
<i>Stigeoclonium tenue</i>																
<i>Tetradasmus</i> sp.....																
<i>T. staurogeniaeforme</i>																
<i>Tetradron caudatum</i>																
<i>T. minimum</i>	3660	1347	1324	1464		1830	949	2471		1052	1601	856	2740			
<i>T. puticum</i>																
<i>T. pentadetricum</i>																
<i>T. regulare</i>																
<i>Tetraspora</i> sp.....																
<i>T. lacustris</i>																
<i>T. lamellosa</i>																
<i>Treubaria</i> sp.....																
<i>T. setigerum</i>												2568				
<i>T. triacanthulata</i>																
<i>Ulothrix</i> sp.....																
<i>U. subconstricta</i>																
<i>U. subtilissima</i>																
<i>U. zonata</i>										7016		8559				2716
<i>Urcinea</i> sp.....																
<i>Volvox</i> sp.....																
<i>V. aureus</i>						183018										
<i>Zygema</i> sp.....																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-12 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28u) Replicate

7/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....									144							
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	918747	595903	1185382	562232	381269	725850	703356	1017122	33505	447251	668849	653939	415078	756290	473744	226520
% of TOTAL.....	25.18	37.62	19.1	35.8	15.74	30.06	33.4	29.08	56.0	20.7	56.17	24.4	26.7	24.5	94.3	20.7
B. EUGLENOIDS																
<u>Euglena</u> sp.	2028755	620144	882084	753302	773494	1558215	7594	1853057	13085	1613258	107614	1473924	686315	168204		716505
<u>Phacus</u> sp.																
TOTAL EUGLENOIDS.....	2028755	620144	882084	753302	773494	1558215	7594	1853057	13085	1613258	107614	1473924	686315	168204		716505
% of TOTAL.....	55.6	39.15	14.2	47.9	31.94	64.54	.36	52.98	21.9	74.8	9.03	54.9	44.1	54.6		65.5
C. DIATOMS																
<u>Achnanthes</u> sp.																
<u>Asterionella formosa</u>																1630
<u>Cocconeis</u> sp.																
<u>Coscinodiscus</u> sp.																
<u>C. subtilis</u>	8236	4713	22516				2848		288			7703	685			
<u>Cyclotella</u> sp.	37519	42420	41058	5125	15886	2928	11390	18942		16838	18149	6848	13014	23914	11184	3531
<u>C. bodanica</u>																
<u>C. conta</u>																
<u>C. meneghiniana</u>																
<u>Cymbella</u> sp.																
<u>Diatoma</u> sp.																
<u>D. elongatum</u>																
<u>Fragilaria</u> sp.																
<u>F. capucina</u>																
<u>F. crotonensis</u>			59600	732							8007			26156		5790
<u>Gomphonema</u> sp.												34238			5368	5432
<u>Gyrodinium</u> sp.																
<u>Helosira</u> sp.																
<u>M. binderana</u>																

TABLE IIIA-12 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water. X Net (>28μ) _____ Replicate _____

7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.																
<u>Navicula</u> sp.															447	
<u>N. confervacea</u>																
<u>N. truncatata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhicosphenia</u> sp.						732										
<u>Stephanodiscus</u> sp.																
<u>S. astraea</u>																
<u>S. hantzschii</u>																
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.			2649													
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	45755	47133	125823	5857	15886	3660	14238	18942	288	16838	26156	48789	13699	50070	16999	17883
% of TOTAL.....	1.25	2.98	2.0	.37	.66	.15	.68	.54	.5	.78	2.2	1.82	0.9	1.62	3.38	1.60
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallanonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-12 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) Replicate

7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Agmenellum punctata</i>																
<i>A. quadruplicatum</i>																
<i>Anabaena</i> sp.		673	62249			10981				5613			61645			17655
<i>A. circinalis</i>																
<i>A. flos-aquae</i>																
<i>A. soliroides</i>																
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. distersus</i>																
<i>A. limneticus</i>																
<i>A. minutus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>																
<i>Aphanocapsa</i> sp.	528922	255868		209373		75403	629320				277576	351790	3425	570208		67359
<i>A. endohylica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanotheca</i> sp.																
<i>Chroococcus</i> sp.	7321		116552		13147		22781	59298	5033	28414		56492	35617	8968	9842	28519
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium Kuetzingianum</i> ...			198668			27453	474000			14031	26690	42797				
<i>C. Haegelianum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>		8080														
<i>G. rubestris</i>																
<i>Gomphosphaeria</i> sp.										16487						
<i>G. aconina</i>																
<i>G. lacustris</i>																
<i>Lynceba</i> sp.																

TABLE IIIA-12 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28 μ) Replicate

7/20/73	10				20				40				60			
	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>									7765							
<i>Merismopedia tenuissima</i>								26355								
<i>Microcystis aeruginosa</i>			3497872	29283	1199682			510620				42797	220552			
<i>M. incerta</i>																
<i>Nostoc</i> sp.					2191		7594						20548			
<i>Oscillatoria</i> sp.	915	3367														
<i>O. limnetica</i>																
<i>O. subbrevis</i>										702						3803
<i>Phormidium mucicola</i>	34773	37034	76818		3287		236351	3294			10676		61645			
<i>Sciaenena</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	571931	305022	3952159	238656	1218307	113837	1370046	599567	12798	65247	314942	493876	403432	579176	9842	117336
% of TOTAL.....	15.7	19.3	63.7	15.2	50.3	4.7	65.0	17.1	21.4	3.0	26.5	18.4	25.9	18.7	2.0	10.7
P. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>											1068	856				
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>	3660	6733	5298		6574		949	1647		3368	6939	4280	15069	9370	1342	12766
<i>G. quadridens</i>																
<i>Gymnodinium</i> sp.		673														
<i>Peridinium cinctum</i>	79613	8080	58276	10249	25199	12811	12340	7412	144	10524	65124	9415	21918	9715	447	4074
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	83273	15486	63574	10249	81773	12811	13289	9059	144	13892	73131	14551	36987	18085	1789	16840
% of TOTAL.....	2.28	.97	1.0	4.29	1.31	.53	.63	.25	.2	.64	6.1	1.54	2.4	0.6	3.62	1.5

TABLE IIIA-12 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28 μ) Replicate

7/20/73

	10				20				40				60			
	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	3648461	1583688	6209022	1570296	2420729	2414373	2108523	3497747	59820	2156486	1190692	2685079	1555511	3091825	502374	1094584

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28u) _____ Replicate _____

Date:	10				20				40				60			
	INPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>		9273		1166	9281										7925	
<i>Arthrodesmus</i> sp.	1190	1159			1160	3843	7616	1294	4314		574	8388	38675	24285	1083	8962
<i>A. convolutus</i>																
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. subeticus</i>																
<i>Carteria cordiformis</i>	36878	32455	31601	15745	42925		9139	863		7121	10331	3355	14503	29142	47646	1486
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.	3569					641	4569	15098	22528	21634	4018	6711	3223			16840
<i>C. coisphytica</i>																
<i>C. pseudocortyi</i>																
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora</i> filament.....																
<i>Closteriopsis longissima</i>		3477	1129	283		1281	1523	431	959		574	3355	3223	607	1083	
<i>Closterium</i> sp.								431								
<i>Coelastrum</i> sp.																
<i>C. caribricum</i>		74182				10249	1523	6902	38345	42728	9183					
<i>C. microporum</i>	95168	157638	133176	209938	111373	233157	353369	69021	172552	104150	101013	630801	24655	121425	173257	10599
<i>Cosmarium</i> sp.																
<i>C. crenatum</i>											574					495
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Crucigenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28u) _____ Replicate _____

7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>	38067	37091			4641		97481	27608	38345	113942	36732	40264	57566	29142	181920	61416
<i>D. pulchellum</i>											110196					
<i>Dirorhynchococcus lunatus</i>																
<i>Echinosthaerella linnetica</i>			144462	37322		10249	73111					187370	103132			31698
<i>Errerella borheniensis</i>		18546	18058	9331					3834	21364	45915			9714	17326	7925
<i>Eudorina elegans</i>																
<i>Franceia</i> sp.			1129				24370									
<i>F. droescheri</i>																
<i>F. ovalis</i>										1780						
<i>Glaucovstis</i> sp.																
<i>G. acuta</i>	2379						3046					1678				
<i>G. giras</i>												20132	6446			
<i>G. planctonica</i>	45205	4636	58688	8164	9281	137076	140129	40981	119828	76555	18366	77172	167590	8500	45480	123822
<i>G. vesticulosa</i>						640								1214	2166	
<i>Golenkinia paucispina</i>											574					
<i>G. radiata</i>																
<i>Goniun</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>					1160											
<i>K. obesa</i>																
<i>K. subsolitaria</i>																
<i>Lagerheimia ciliata</i>	1190				1160	2562	1523	2157	479	3560	1148		3223		2166	991
<i>L. longiseta</i>									1438							
<i>L. subsalsa</i>												5033		607	2166	
<i>L. quadriseta</i>	1190	1159			1160											
<i>Micractinium</i> sp.																
<i>M. pusillum</i>																
<i>Microstora</i> sp.																
<i>Mougeotia</i> sp.																
<i>Mechrocotium Agardhianum</i>								3451	3834		6313	13421		4857		3962
<i>M. linneticum</i>											4591					
<i>N. lunatus</i>																

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28 μ) Replicate

7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesum</i>																
<i>Oedocoonium</i> sp.																
<i>Oocystis</i> sp.	2855	9273			1160	13451	9139	8628	959	15133	4591	26843	3223		8663	26250
<i>O. borealis</i>	2379	20864	33858			32027	47127	19843	30197	40058	24679	6711	38675	24285	16243	6439
<i>O. parva</i>	1190	6955	4514	4082	4641	5765	1523	9059	14379	23145	5739			4857	10829	7925
<i>O. solitaria</i>	5710	129819	198636		148498	92238	438664	5902	15338	28486	55098		77349	106854		19811
<i>Pandorina morum</i>																
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. boryanum</i>	10934				1160	35870		17255					38675		8663	15849
<i>P. duplex</i>	38067	139092	397271	124796	92811	184476	268073	40118	130852	99700	22957	107370	270722	140853	116949	93609
<i>P. simplex</i>		9273				10249		10353			18366					
<i>P. tetras</i>			27087			20497	31986	5902	15338	8561	4591		25783	4857	25989	1981
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedrionis quadrispina</i>																
<i>Quadrigula Chodatii</i>	14275					10249										
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.			4514		2320			863						2429		
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. biuga</i>	20223	91569	30472	51318	51046	53165	108143	42707	107845	51630	72890	57041	91852	32785	27049	17335
<i>S. biradiatum</i>											2296					
<i>S. brasiliensis</i>																
<i>S. denticulatus</i>	9517	4636	18058	4665		12811	10662	3451	3834	10682	4591	13421	6446	14571		10401
<i>S. dimorphus</i>		18546					3046		1917	14243						1981
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	34498	66069	49659	13413	41765	85833	77680	20275	36428	32046	26401	77172	46732	25499	21657	19811
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>	4758	2318	7900	2916	3480	7687	12185	431		2671	6313		22560	6678	5414	495
<i>Selenastrum minutum</i>																
<i>S. Vestii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroeteri</i>																

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28µ) _____ Replicate _____

7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylium</u> sp.....	1190		1129	1166							1722	15099	1611		1083	
<u>Staurastrum</u> sp.		2318			1160	2562		863				1678	1611	1214		2972
<u>S. cuspidatum</u>																
<u>S. gracile</u>																
<u>Stigeoclonium tenue</u>																
<u>Tetradescmus</u> sp.																
<u>T. staurozoeniaeformis</u>																
<u>Tetradron caudatum</u>	1190	1159	2257	3499	3480		1523					5033				
<u>T. minimum</u>		2318			6961	2562	6093	3451	5752	4451	4591	1678	12892	3036	6497	4953
<u>T. muticum</u>					1160				479						2166	
<u>T. pentadetricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. lacellata</u>																
<u>Trembaria</u> sp.			1129	583			1523	1294	959		2296	3355	1611		1083	3467
<u>T. setigerum</u>																
<u>T. triacodenticulata</u>																
<u>Ulothrix</u> sp.....																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uromema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28µ) Replicate

7/26/73

	10'				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....	30930		4514	2333	4641	99284	89865	5177	7669	3561	19514	104015	98298	3036	4331	1981
UID unicellular.....									4793	18694						
UID zygospor.....																
TOTAL GREENS.....	403742	843825	1169241	490720	546424	1068424	1824631	365809	783195	740625	626737	1337096	1160276	600447	730909	601773
% of TOTAL.....	54.10	81.43	80.56	62.38	57.79	65.11	79.28	56.12	75.37	74.35	61.2	53.7	63.9	73.5	50.87	60.33
B. EUGLENOIDS																
Euglena sp.	27361	26659	53045	36739	11601	91598	108143	34510	8628	45399	29845	92271	19337	18821	14077	42595
Phacus sp.																
TOTAL EUGLENOIDS.....	27361	26659	53045	36739	11601	91598	108143	34510	8628	45399	29845	92271	19337	18821	14077	42595
% of TOTAL.....	3.67	2.57	3.66	4.67	1.23	5.58	4.70	5.29	0.83	4.56	2.9	3.7	1.1	2.30	0.98	4.27
C. DIATOMS																
Achnanthes sp.				4665												
Asterionella formosa.....																
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	7138	1159	3386			8968	18278	1294			1722			607	1083	
Cyclotella sp.		10432	7900	1166		1922		431	1917	4451	1148			6071		1981
C. bodanica.....																
C. costata.....																
C. meneghiniana.....																
Cymbella sp.																
Diatocsa sp.																
D. elongatum.....																
Fragilaria sp.				2624		10249	76157	18118	2379	1780	28697	23487	27394	16392		44576
F. capucina.....						33308		28765	18776	56081		85581	135361	1214		
F. crotonensis.....																
Gomphonema sp.																
Gyrodinium sp.		9273												9107		1486
Melosira sp.																
M. binderana.....																

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28u) Replicate

7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.																
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. triuncinata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sicra</u>																
<u>Phaeocystis</u> sp.																
<u>Stechanodiscus</u> sp.																
<u>S. astraea</u>																
<u>S. hantzschii</u>																
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	7138	20864	11286	8455		54447	94435	49608	21072	62312	31567	109048	162755	33391	1083	48043
% of TOTAL.....	0.96	2.01	0.78	1.07		3.32	4.10	7.61	2.03	6.26	3.1	4.4	9.0	4.09	0.08	4.82
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Halimnion</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water X Net (>28u) Replicate

7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<u>Amenellus punctata</u>																
<u>A. quadriduplicatum</u>																
<u>Anabaena</u> sp.	11896			29158	209985	16014		8628	119828	8902		16777			54143	4953
<u>A. circinalis</u>																
<u>A. flos-aquae</u>																
<u>A. spiroides</u>																
<u>Anacystis</u> sp.																
<u>A. cyanica</u>																
<u>A. dispersus</u>																
<u>A. limneticus</u>																
<u>A. minimus</u>																
<u>A. minor</u>																
<u>A. Prescotti</u>	23792					12811		21569				86091				
<u>Anhanocapsa</u> sp.																
<u>A. endophytica</u>																
<u>A. pulchra</u>																
<u>A. rivularis</u>																
<u>Aphanizocemon</u> sp.																
<u>A. flos-aquae</u>								431			1722	6711				
<u>Aphanothece</u> sp.	14275	18546	7900	9331	10249	18278	3451	5752			1722	6711				
<u>Chroococcus</u> sp.								3834					2429	8663	12994	
<u>C. limneticus</u>																
<u>C. minutus</u>																
<u>Coelosphaerium Kuetzingianum</u> ...																
<u>C. Naegelianum</u>								64707								49529
<u>Gloeocapsa</u> sp.																
<u>G. aerocenosia</u>																
<u>G. punctata</u>																
<u>Gloeotheca</u> sp.																
<u>G. linearis</u>																
<u>G. rupestris</u>																
<u>Gomchosphaeria</u> sp.						7687										
<u>G. acronia</u>																
<u>G. lacustris</u>			36116	23326	166541	114236	21569	23966			78055	377474	161144	63141	138606	138680
<u>Lyngbya</u> sp.																

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cells/L
Whole Water X Net (>28 μ) Replicate

7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>	2379						1523				1722	1678	3223	3036	2166	1981
<i>Merismopedia tenuissima</i>	202232	105478	165906	179030	112534	169103	95958	71178		109492	156111	525108	222379	59498		98067
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.									479						484037	495
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>	4758					3203	16755					5033	4834			
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	259332	124024	209922	240845	322519	385608	246750	191533	192204	118394	325423	939492	394009	147332	678952	293705
% of TOTAL.....	34.75	11.98	14.46	30.62	34.11	23.50	10.72	29.39	18.5	11.89	31.8	37.7	21.70	18.03	47.25	29.44
P. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>			1129	583		26262										
<i>Glenodinium</i> sp.																
<i>G. palustre</i>	29740	12750	2257		19722		6093	431	22048	19584	1722		58011	9107	2166	495
<i>G. pulvisculus</i>	9517				1160				479	1780			4834			
<i>G. quadridens</i>																
<i>Gymnodinium</i> sp.	1190	6955	9514	9331	1160	12811	21324	9922	7669	6231	6887	11744	14503	5678	7580	10896
<i>Peridinium cinctum</i>	9327	1159			42925	1922			3834	1780	1148		1611	1214	2166	
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	48774	20864	7900	9914	64967	40995	27417	10353	34030	29375	9757	11744	78959	16999	11912	11391
% of TOTAL.....	5.54	2.01	.54	1.26	6.87	2.49	1.20	1.59	3.27	2.95	1.0	0.5	4.3	2.08	0.83	1.14

TABLE IIIA-13 (continued)

Nine Mile Point Phytoplankton
cells/L.Whole Water X Net(>28 μ) Replicate

7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
<u>Bacteriastrium</u> sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	746347	1036236	1451394	786673	945511	1641072	2301376	651813	1039129	996105	1023329	2489651	1815336	816990	1436933	997507

TABLE IIIA-14

Nine Mile Point Phytoplankton
cells/LWhole Water ☒ Net (>28μ) _____ Replicate _____

Date: 8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....									6357							
<i>A. gracillimum</i>	17387				7321		8785		2384			22604		12362	4382	
<i>A. hantzschii</i>																
<i>Arakistrodessius</i> sp.																
<i>A. convolutus</i>	9563		1190	6710			2196	3416		6863	422	5651	13289	9271	1643	1546
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Betryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudeticus</i>			1190		37519	20498	5491									
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.																
<i>C. ornithocephalum</i>	6955	2440	1190	10066	17387		3294	11103		1525	1689		7594	4636	1643	8499
<i>Chlamydomonas</i> sp.																
<i>C. epiphytica</i>																
<i>C. pseudocortyi</i>																
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora</i> filament.....	869	2440	2379		1830	1281	1098	854	795	763	422	1413		1545	1096	
<i>Closteriopsis longissima</i>					6406											
<i>Closterium</i> sp.																
<i>Coelastrum</i> sp.																
<i>C. caabricum</i>	91280	273307	314059	199641	88764	71102	79064	13665	30198	146414	13512	39558	15187	13907	19721	67989
<i>C. microporum</i>							1098	56619					37968			
<i>Cosnarium</i> sp.	869	12201	1190	3355	915			854				1060	1898	1545		773
<i>C. crenatum</i>																
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Crucigenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-14 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28u) Replicate

8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.		39044						13665		24402					4930	24723
<u>D. ehrenbergianum</u>			48774		109811	10249						11302		37085		6181
<u>D. pulchellum</u>																
<u>Dinorhynchococcus lunatus</u>																
<u>Echinorhaerella limnetica</u>	2608				915				2384			2119	949			
<u>Errerella borheniensis</u>	6955	39044	19034	80528	29283		8785	54661	50860	24402		11302	79733	49447	8765	30904
<u>Eudorina elegans</u>								3416	12715	42704				12363		
<u>Franceia</u> sp.																
<u>F. droescheri</u>																
<u>F. ovalis</u>	6085	4880			71377				6357			2826	5695			
<u>Gleocystis</u> sp.																
<u>G. anna</u>	6085				915				795					10817		
<u>G. gigas</u>	38251														3286	
<u>G. planctonica</u>	118230			107370	47585	7046		6833	69932		13512	42383	335069	135979	50397	55628
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>								854	795				949	3090	548	773
<u>G. radiata</u>																
<u>Gonium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.																
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>																
<u>K. obesa</u>																
<u>K. subsolitaria</u>	1739	7321	2379	1678	1830					2288	845	706	2848		2191	773
<u>Lagerheimia ciliata</u>																
<u>L. longiseta</u>																
<u>L. subaerea</u>																
<u>L. quadriseta</u>																
<u>Micractinium</u> sp.	43467														3286	
<u>M. pusillum</u>																
<u>Microspora</u> sp.																
<u>Mougeotia</u> sp.				6711	14641			13665		15252	1689	9183	1898	16997	21912	6181
<u>Mesrocystium Agardhianum</u>												2826				27814
<u>M. limneticum</u>																
<u>M. lunatum</u>																

TABLE IIIA-14 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) Replicate

8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>M. obesus</i>		4880							6357	1525					12599	11589
<i>Cedogonium</i> sp.		112251	15465	53685	25623	42277	21962	45266			11823					
<i>Coorvatis</i> sp.	22603			40264	41179		2196	23914	14304	15252	2534	12009	16136	49447	16434	43266
<i>O. boreal</i>	75632	65886	24982	10066	62226	7687	14275	8541	24635	19064	1267	7471	949	66444	5478	9271
<i>O. larva</i>	3477	14641		28520		2562	2196	3416		3050		353	2848		548	
<i>O. solitaria</i>	34773				7321		17570		25430		6756	22604	41765		17530	
<i>Pandorina morum</i>																
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. servanum</i>	27819		102978	13421	87849		105418	81992	25430	2288	13512	16953	87327	98894	17530	
<i>P. duplex</i>	27819	90289		107370	65886	30747		54661		24402		11302	7594	24723	17530	37085
<i>P. simplex</i>																
<i>P. tetras</i>																
<i>Planococcus</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedriopsis quadrispina</i>									4768							
<i>Quadrifida chodatii</i>										3050			3797			
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.							4392									
<i>S. abundans</i>					5491											
<i>S. acuminatus</i>	72155	222062	65429	150990	218707	65978	109811	107615	57217	160903	13935	156817	243945	137524	47111	112800
<i>S. bituna</i>																
<i>S. biradiatum</i>																
<i>S. brasiliensis</i>						2562		2562	3179	6101				4636		6181
<i>S. denticulatus</i>	10432		9517							6101	1689					
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>	129531	29283	24982	72139	87849	3843	8785	42704	11126	25928	845	4238	37968	15452	3286	17770
<i>S. quadricauda</i>																
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.	6085		1190	13421	10066	2562	1098	3416			3800			15452	7121	4636
<i>S. setigera</i>																
<i>Solenastrium minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroeteri</i>																

TABLE IIIA-14 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) _____ Replicate _____

8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NOPE	NMPW	NMPP	FITZ	NOPE	NMPW	NMPP	FITZ	NOPE	NMPW	NMPP	FITZ	NOPE
<i>Spondylosium</i> sp.....																
<i>Staurostrum</i> sp.																
<i>S. cuspidatum</i>	5216	9761	2379	3355	7321	641	1098		795	763	845	2826	2848	1545	3286	2318
<i>S. gracile</i>	26080															
<i>Stigeoclonium tenue</i>																
<i>Tetradescmus</i> sp.																
<i>T. staurogeniaeforme</i>																
<i>Tetradron caudatum</i>	10432	4880	2379	3355	6406	641	1098	5125	795	5338	422	2826	3797	3090		4636
<i>T. minimum</i>						641	2196			1525			2848			
<i>T. muticum</i>																
<i>T. pentadricum</i>																
<i>T. regulare</i>																
<i>Tetraspora</i> sp.																
<i>T. lacustris</i>																
<i>T. lamellosa</i>																
<i>Treubaria</i> sp.	7824	2440	1190						795		422	1060	5695		1096	3090
<i>T. setigerum</i>		9761	4758	5033		1922		5125		6863	845			12362	4382	3863
<i>T. triappendiculata</i>	5216										1689					
<i>Ulothrix</i> sp.....																
<i>U. subconstricta</i>																
<i>U. subtilissima</i>																
<i>U. zonata</i>																
<i>Uronema</i> sp.																
<i>Volvox</i> sp.																
<i>V. aureus</i>																
<i>Zygnema</i> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-14 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28u) Replicate

8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....		12201		41942	16472	2562	1098	1708	1589	8389	12246	8830	32273	50992	21912	20860
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	815437	959012	646634	959620	1108178	274801	403004	576504	359992	555155	104721	411524	993816	789604	299643	509149
% of TOTAL.....	14.24	61.60	44.25	34.56	57.04	68.10	67.59	38.09	68.33	69.80	58.35	73.6	64.4	47.5	70.22	73.8
B. EUGLENOIDS																
Euglena sp.	107798	7321	1190	41942	53075	3203	2196		9536	21352	4645	6711	74987	41720	12052	15452
Phacus sp.																
TOTAL EUGLENOIDS.....	107798	7321	1190	41942	53075	3203	2196		9536	21352	4645	6711	74987	41720	12052	15452
% of TOTAL.....	1.88	.47	.08	1.51	2.73	.79	.37		1.81	2.69	2.59	1.2	4.9	2.5	2.82	2.2
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....																
Cocconeis sp.										3050		853			1643	
Coscinodiscus sp.																
C. subtilis.....	13040		1190	5033	42094	1922	2196	9395	2384	6863		706	949	6181	1096	773
Cyclotella sp.	55637		1190	1678	8236			2562	4768	1525	1689		3797		548	
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. catenula.....																
F. crotonensis.....																
Gomphonema sp.																
Gyrosigma sp.																
Melosira sp.																
M. binderana.....																

TABLE IIIA-14 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28μ) Replicate

8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.				1678	915			854				353				
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. truncatata</u>																
<u>Nitzschia</u> sp.														12362		
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhoicosolenia</u> sp.			1190													
<u>Sterrhociscus</u> sp.																
<u>S. astrea</u>																
<u>S. hantzschii</u>										763	422					
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	68677		3570	8389	51245	1922	2196	12811	7152	12201	2111	1412	4746	18543	3287	773
% of TOTAL.....	1.20		.24	.30	2.64	.48	.37	.85	1.36	1.53	1.18	.3	.3	1.1	.77	.1
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mailanonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-14 (continued)

Nine Mile Point Phytoplankton
cells/L
Whole Water X Net (>28μ) Replicate

8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Armenellum punctata</i>																
<i>A. quadriduplicatum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>	44336			33553					15894			11302	28476			
<i>A. flos-aquae</i>													6644			
<i>A. spiroides</i>													37968			
<i>Atacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minimus</i>																
<i>A. minor</i>																
<i>A. Prescotti</i>	412934		330714	167766	69547	10249		97366	64369			46621	117701			
<i>Achanocapsa</i> sp.																
<i>A. endophytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanothece</i> sp.				166088	7321	32669	17570	13665	22251	22877	22380	5651	29425	75716	15886	92713
<i>Chroococcus</i> sp.															7669	
<i>C. limneticus</i>																
<i>C. minutus</i>								109323		97610		26489	155669	154522		
<i>Coelosphaerium Kuetzingianum</i> ...		156175			183018											
<i>C. Macgregorianum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>									3179							
<i>Gloeotheca</i> sp.	12170															
<i>G. linearis</i>																
<i>G. rufescens</i>																
<i>Gomphosphaeria</i> sp.																
<i>G. acronia</i>		390438	247440	167766		61494					21113	22604	30375	154522	27390	38630
<i>G. lacustris</i>				5033			2196			1525	845			4090	1096	2318
<i>Lyngbya</i> sp.																

TABLE IIIA-14 (continued)

Nine Mile Point Phytoplankton
cells/L
Whole Water X Net (>28 μ) Replicate

8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.	34773															
<i>Oscillatoria</i> sp.					915				11920							
<i>O. limnetica</i>	2608				3660			1708								773
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.	2608															
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	509429	546613	578154	540206	264461	104412	19776	222062	117613	122012	44338	112667	406258	387850	52041	134434
% of TOTAL.....	8.90	35.11	39.56	19.46	13.61	25.87	3.32	14.67	22.32	15.34	24.71	20.2	26.4	41.9	12.20	20.5
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>	1739	7321	3569	1678	2745	1281		3416		3050	422	706	3797		548	1545
<i>Glenodinium</i> sp.																
<i>G. palustre</i>	4172810	12201	202235	1191140	356885	12811	139460	663623	8742	39654	15624	15540	34171	89622	36155	9271
<i>G. pulvisculum</i>			1190		915										23008	
<i>G. quadridens</i>																
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>	49552	24402	24982	33553	104320	5125	29649	35017	23046	41942	7601	10243	23730	26269		12362
<i>P. inconspicuum</i>					915				795							
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	4224101	43924	231976	1226371	465780	19217	169109	702056	32583	84646	23647	26489	61698	115891	59711	23178
% of TOTAL.....	73.78	2.82	15.87	44.17	23.98	4.76	28.36	46.39	6.18	10.64	13.18	4.7	4.0	7.0	14.0	3.4

TABLE IIIA-14 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28 μ) Replicate

8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrum sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	5725442	1556870	1461524	2776528	1942739	403555	596281	1513433	526876	795366	179462	558803	1541505	1662651	426734	689940

TABLE IIIA-15

Nine Mile Point Phytoplankton
cells/LWhole Water ☒ Net (>28µ) ☐ Replicate ☐

Date:	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>	7077	9360			1005	7304										
<i>A. hantzschii</i>		2340		3104	1251	913	5240	1251	575	11983					1501	
<i>Arthrodesmus</i> sp.														6253		
<i>A. convolutus</i>	1769		2257				2501			479		1940		2501		
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudeticus</i>																
<i>Carteria cordiformis</i>	7961		10157	1552			655		5177		3090		10044		3002	
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.	885	14039		6984	1251		655	10005	1150	1917	15452	1164	4305	5002	1501	6391
<i>C. epiphytica</i>																
<i>C. pseudocertvi</i>																
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcus</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora filament</i>																
<i>Closteriopsis longissima</i>	1769		1129	776		913		1251	288		3090					639
<i>Closterium</i> sp.			3386	1552												
<i>Coccolastrum</i> sp.																
<i>C. carbricum</i>		18719		201773												10225
<i>C. microporum</i>	77845	226970	103832	58980	53777	68475	89088	231366	36811	66147	95803	34146	57394	193847	26089	20451
<i>Cosmarium</i> sp.		1170	1129			913				4791					3002	
<i>C. crenatum</i>	885	1170				913		3752								639
<i>C. depressum</i>												388				
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Crucigenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-15 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28') Replicate

8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>				24834								6208				
<i>D. pulchellum</i>	129152	4680	153491	12417	55027	16434		40020	10353	17256	37085	9313		20010		
<i>Dirortheococcus lunatus</i>															1251	
<i>Echinosphaerella lirnetica</i>	127382		36116				20962		34510	30677						
<i>Errerella borheniensis</i>	81383	37438		18625	110055							6208	17218	40020	27019	
<i>Eudorina elegans</i>																
<i>Franseria</i> sp.																
<i>F. droescheri</i>		4680	1129				655		288	959						
<i>F. ovalis</i>		10530							1438	479		776				
<i>Gleocystis</i> sp.																
<i>G. anola</i>																
<i>G. gicas</i>				3104	5002	6391	1310	1251		479	1545	388		1251		
<i>G. planctonica</i>		7020			30015							6984				10225
<i>G. vesticulosa</i>	17692	37438		12417	135067	266596	5240	40020	9203	18694	66444	7761		70035		58795
<i>Golenkinia paucispina</i>					1251	3652			288			776	1435			
<i>G. radiata</i>	1769	3510			1251			5003				776		2501		639
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>																
<i>K. obesa</i>																
<i>K. subsolitaria</i>																
<i>Lagerholmia ciliata</i>	885	1170		776	3752	913	655	1251	2013	959				3002	639	
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>								1251								
<i>Micractinium</i> sp.																
<i>M. pusillum</i>				9313				12506								
<i>Microspora</i> sp.																
<i>Mougeotia</i> sp.			3386		1251							6596			4503	
<i>Nephrocyclum Agardhianum</i>					10005			3752	1150	5752		1552				
<i>N. lirneticum</i>																
<i>N. lunatum</i>						7304										

TABLE IIIA-15 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28 μ) Replicate

8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Cedogonium</i> sp.	8846	4680	3386	11641			5240		3451		57173	3880	12914		42030	3834
<i>Oocystis</i> sp.																
<i>O. Borgel</i>		12869	4514	1552	16258	3695	7861	18759	4026	9587	4636	6208	5739	8754	3002	
<i>O. farva</i>	27423	7020	12415	25610	23762	6391	9171	77539	6902	7190	43266	9701	27262	16258	6004	14060
<i>O. solitaria</i>	7077	2340	4514	7761			3257		3451	1438	16997		8609		3002	1278
<i>Pandorina morum</i>				18625			5240		5752							10225
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. Borvum</i>																
<i>P. duplex</i>		74877	72231	776			26202									
<i>P. simplex</i>	42461	28079	54173	24834	140070	115038			29909	53684	32450	18625		40020	24017	16616
<i>P. tetras</i>																
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedriopsis quadrispina</i>																
<i>Quadrigula Chodatii</i>												2328				
<i>Q. lacustris</i>									575							
<i>Sceerodesmus</i> sp.																
<i>S. abundans</i>		4678								1917						
<i>S. acuminatus</i>																
<i>S. bijugus</i>	28307	45628	75617	30266	28764	12782	26857	28764	14954	15338	41721	5044	24392	32516	42030	23646
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>		5850					2620				6181		2870			
<i>S. dimorphus</i>	7077							10005		3835						
<i>S. longus</i>								2501	1150							
<i>S. obliquus</i>																
<i>S. quadricauda</i>	12384	16379	2257	9313	7504	9130	5240	38769	9203	12462	18543	1552		32516	15011	16616
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.								7504								
<i>S. setigera</i>	4423		4514	2328	7504	6391	1965	3752			6181		4305	15007	4503	2556
<i>Solenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-15 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28µ) Replicate

8/23/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....					2501											
<u>Stauroastrum</u> sp.							1310									
<u>S. cuspidatum</u>	885	1170														
<u>S. gracile</u>		1170	2257	1552		1826	1310	1251		1438		388		1251	1501	639
<u>Stigeoclonium tenue</u>																
<u>Tetradescus</u> sp.																
<u>T. staurogeniaeform</u>																
<u>Tetraedron caudatum</u>							1310	1251	288	479		388				639
<u>T. minimum</u>															1501	
<u>T. muticum</u>																
<u>T. pentaedricum</u>																
<u>T. regulare</u>																
<u>Tetrastora</u> sp.																
<u>T. lacustris</u>																
<u>T. lacellosa</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>				2328	2501					959					1501	639
<u>T. triappendiculata</u>	1769	1170				2739										
<u>Ulathrix</u> sp.....																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygnema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....							2620									
UID desmid.....										5177						
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-15 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28μ) Replicate

8/23/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....		8190		11641	775037	34694	655	66283	4601	2876	29359	8149	4305	71286		
UID unicellular.....																
UID zygospor.....																
TOTAL GREENS.....	597106	594334	551890	504434	713861	573407	227819	609057	192683	267460	479016	141239	180792	560279	213721	199391
% of TOTAL.....	27.6	25.7	25.8	32.7	29.0	61.3	33.6	38.1	32.1	31.1	19.3	17.4	17.3	37.9	20.0	13.9
B. EUGLENOIDS																
Euglena sp.		26909	1129	1341	17905		10481	33767	4314	15818	30904	7761	15783	50025	10507	36428
Phacus sp.																
TOTAL EUGLENOIDS.....		26909	1129	1341	17905		10481	33767	4314	15818	30904	7761	15783	50025	10507	36428
% of TOTAL.....		1.2	0.1	0.1	0.7		1.5	2.1	0.7	1.8	1.2	1.0	1.5	3.4	1.0	2.5
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....					1251											
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....			1129													
Cyclotella sp.		4680	1129		1251		655		288	1917		1552	2870			
C. bodanica.....										479						
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. capucina.....	185766				62531		655									25563
F. crotonensis.....		1170														
Gomphonema sp.										19173						
Gyrodinium sp.						10956	22272									
Malosira sp.																
M. binderana.....																

TABLE IIIA-15 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water ☒ Net (>28μ) ☐ Replicate ☐

8/23/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.				776												
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. truncatata</u>																
<u>Nitzschia</u> sp.			36116									388				
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhodocyclotella</u> sp.																
<u>Storhanodiscus</u> sp.																
<u>S. astraea</u>																
<u>S. hantzschii</u>									288							
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	185776	5850	38374	776	65033	10956	23582		576	21569		1940	2870			25563
% of TOTAL.....	8.6	0.3	1.8	0.1	2.6	1.2	3.5		0.1	2.5		0.2	0.3			1.8
D. GOLDEN-BROWNS																
<u>Dirobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallanonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-15 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28µ) _____ Replicate _____

8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Agmenellum punctata</i>																
<i>A. quadriduplicatum</i>		17549		34146												
<i>Anabaena</i> sp.																
<i>A. circinalis</i>			103832	38803	12506	32868		137569	42563		54083			50025		
<i>A. flos-aquae</i>	36269	58497			25012	36520	45854			65188		31042			36026	
<i>A. spiroides</i>																
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. discorsus</i>																
<i>A. limneticus</i>																
<i>A. minimus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>																
<i>Achanocapsa</i> sp.	56614												440499		165117	
<i>A. endochytica</i>																
<i>A. pulchra</i>								62531				212638				
<i>A. rivularis</i>	390993				1056776	68475		237619	48602			339522		12506		
<i>Achanizomenon</i> sp.																
<i>A. flos-aquae</i>	885															
<i>Achanotheca</i> sp.																
<i>Chroococcus</i> sp.	31846	15209	104961	18625	42521		2620		11503	21090	9271		137746	112556	100571	
<i>C. limneticus</i>	7077		28215	3104		2782	2620	10005	2301	5752		4656	43046	10005	6004	
<i>C. minutus</i>						20086		10005						35017		
<i>Coelosphaerium Huetsingianum</i> ...	56614	1111451	288924		218859		117910		57517				45915			
<i>C. Macgillanum</i>			144462	190908		91300				23966	309043			312656		283448
<i>Gloeocapsa</i> sp.																
<i>G. serocerosa</i>																
<i>G. punctata</i>		28079											5739			
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. runestrus</i>								40020						62531		
<i>Goniosphaeria</i> sp.																
<i>G. sponira</i>																
<i>G. lacustris</i>	764294	18719	691838	37250	250125	91300	104809	880190	131139	199399		38803	160703	225112	528375	
<i>Lynceba</i> sp.		7020					2620		4601							

TABLE IIIA-15 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water X Net (>28 μ) Replicate

8/23/73	10				20				40				60			
	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>										959		776				
<i>L. Diquetii</i>																
<i>L. limnetica</i>	885				31266	2739		28764		959			1435	26263	6004	
<i>Merismocedia tenuissima</i>		386083	180578	609975	7504			40020								
<i>Microcystis aeruginosa</i>							134287		96053	229117	1537489	30266				885765
<i>M. incerta</i>																
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.	1769		2257	79157		1826	655									
<i>O. limnetica</i>																
<i>O. subbrevis</i>		32759								2876	46356		7174			
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	1347246	1675366	1545067	1011968	1644569	347896	411375	946723	394279	549306	1960878	657703	842257	846671	842097	1169213
% of TOTAL.....	62.3	72.4	72.1	65.5	66.7	37.2	60.6	59.1	65.8	63.8	79.2	81.2	80.4	57.2	78.8	81.3
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>	885	2340		776	5002		655	2501	1150	2397	6181	776	2870	12506	3002	5113
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>	31846	8190	3386	23281	18759	3652	2275	8754	6039	3355				8754		1917
<i>G. quadridens</i>		1170	1129	776					288	479		388	1435			
<i>Gymnodinium</i> sp.		1170														
<i>Peridinium cinctum</i>			1129	776			655		288	479		388	1435			
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>							1251							1251		
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	32731	12870	5644	25609	23761	3652	5836	11255	7765	6710	6181	1552	5740	22511	3002	7030
% of TOTAL.....	1.5	0.5	0.3	1.7	0.96	0.4	0.9	0.7	1.3	0.8	0.2	0.2	0.5	1.5	0.3	0.5

TABLE IIIA-15 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water x Net(>28 μ) Replicate

8/23/73

	10				20				40				60			
	NMFW	NMPP	FITZ	NMPE	NMFW	NMPP	FITZ	NMPE	NMFW	NMPP	FITZ	NMPE	NMFW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	2162859	2315329	2142104	1544128	2465129	935911	679093	1600802	599617	860863	2476979	810195	1047442	1479486	1069327	1437625

TABLE IIIA-16

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28u) Replicate

Date: 9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<u>Actinastrum</u> sp.....																
<u>A. gracillimum</u>																
<u>A. hantzschii</u>	5674			93949	12185	14153	11869	74170			55637	10371				
<u>Arkistrodesmus</u> sp.				2135				1854				1296	1129			
<u>A. convolutus</u>				4270				5563				6482	4514	1501		5648
<u>A. falcatus</u>	1891	1952	3211			5308	1484		2123	9934	1159					
<u>Arthrodesmus</u> sp.																
<u>Botryococcus Braunii</u>									708							
<u>B. protuberans</u>							44509		2535949							
<u>B. sudeticus</u>										4967	4636	3889	15801	15011		
<u>Carteria cordiformis</u>		4880	2837	6406	7616											
<u>Characium</u> sp.																
<u>C. ornithocephalum</u>			535			885										
<u>Chlamydomonas</u> sp.	9456	6833			3046	6192	3709		7076	1656		3889		10 507		9:029
<u>C. epiphytica</u>																
<u>C. pseudocertyi</u>																
<u>Chorella ellipsoidea</u>																
<u>C. vulgaris</u>																
<u>Chlorococcum</u> sp.																
<u>Chodatella</u> sp.																
<u>Cladophora filament</u>																
<u>Closteriopsis longissima</u>			535							1656	1159	1296	1129			
<u>Closterium</u> sp.	2837	3904												1501		
<u>Coelastrum</u> sp.																
<u>C. cambricum</u>	15129	93705				14153			724							
<u>C. microporum</u>	116308	135677	363956	286118	158407	379,487	286339	341183	377137	258272	361644	237237	338583	48034	155162	258.452
<u>Cosmarium</u> sp.														190635		
<u>C. crenatum</u>																
<u>C. depressum</u>																
<u>C. formosulum</u>																
<u>C. nitidulum</u>																
<u>Crucigenia</u> sp.																
<u>C. lauterbornii</u>				8541												
<u>C. quadrata</u>																

TABLE IIIA-16 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28') Replicate

9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>		3904														
<i>D. pulchellum</i>	3782			102490		2654		14834	2898227	105958	2318	145194	121890	18013	12009	
<i>Dirorhynchococcus lunatus</i>																
<i>Echinosphaerella limnetica</i>																
<i>Erreraella borhemiensis</i>			34255	153735			71214		42455				18058			
<i>Eudorina elegans</i>			17127	34163	24370					6622						
<i>Francelia</i> sp.																
<i>F. Droscheri</i>																
<i>F. ovalis</i>	1891	976	535							1656			1129			
<i>Gleocystis</i> sp.																
<i>G. ampla</i>						3538	742		12029							
<i>G. gicas</i>	9456		535					7417	4245				2257	15011	3135	
<i>G. planctonica</i>								14834	4953			5186				
<i>G. vesticulosa</i>	66192	120304	102764		6093	14153	20771	44502	18397	26489		20742				173806
<i>Golenkinia paucispina</i>						885		1854						1501		
<i>G. radiata</i>				1068		885	742								1567	
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>								14834			28978					
<i>Kirchneriella lunaris</i>																
<i>K. chesi</i>		23426				28307					1159					
<i>K. subsolitaria</i>							23738	7417								
<i>Lagerheimia ciliata</i>	946															
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Micractinium</i> sp.																
<i>M. pusillum</i>								252179	45 285			41484				36116
<i>Microspora</i> sp.																
<i>Mougeotia</i> sp.		4880				1769			6368			19446				
<i>Nephrocytium Agardhianum</i>	22694						5933									
<i>N. limneticum</i>								3709		6622	37092	15557	36116			4514
<i>N. lunatum</i>																

TABLE IIIA-16 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water X Net (>28μ) Replicate

9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>		3904	6423				5935									19186
<i>Oedocoenium</i> sp.			1070													
<i>Oocystis</i> sp.																
<i>O. Borgesi</i>	3904	24585	2141	6406		20346	2225	7417	12736	13245	13909	6481	1129	48034	6269	5643
<i>O. parva</i>	7809	13238	6423			16807		24105	19105	21523		12964	4514		7836	
<i>O. solitaria</i>	5857	5674	535	3203	4569					4967			2257	12009	6269	
<i>Pandorina norum</i>									11321							
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. Boryanum</i>	7809	5129							11321			20742			12538	
<i>P. duclex</i>	83944	90777	30508	42704		127381	59345	29668		26489	129821			24017		
<i>P. simplex</i>	70279	84158	128455	120639	48740	141534	124625	74170	154251	79468	55637	212606	54173	33023		80131
<i>P. tetras</i>																
<i>Planktoschaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedriopsis quadrispina</i>																
<i>Quadrigula Chodatii</i>													2257			
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.			6423		6093											
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>	19522	51062	16057	12811	24370	40691	26705	50065	31841	33112	32455	31113	155302	54038	40750	9029
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>	7809		5352								4636				6269	
<i>S. dimorphus</i>			4282		18278			22251	5661				2257		31346	
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	31235	30259	35860	37366	48740	57498	19287	46356	45992	76157	34773	22038	42887	55539	37615	37244
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>			2141	5338	7616	4423	2225	11126	2830	5622	2318	3889	10157	3002		
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Schaerocystis</i> sp.																
<i>S. Schroeteri</i>																

TABLE IIIA-16 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) _____ Replicate _____

9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Scenedesmus</u> sp.....	976		2141						708 11321		1159		1501			5643
<u>Staurastrum</u> sp.																
<u>S. cuspidatum</u>																
<u>S. gracile</u>																
<u>Stigeoclonium tenue</u>																
<u>Tetradococcus</u> sp.																
<u>T. staurogeniaeforme</u>																
<u>Tetradocyon caudatum</u>																
<u>T. minimum</u>																
<u>T. muticum</u>																
<u>T. pseudocentricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. laevigata</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>																
<u>T. triappendiculata</u>																
<u>Ulothrix</u> sp.																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zyrene</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-16 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28µ) Replicate

9/21/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NSPE	NMPW	NMPP	FITZ	NSPE	NMPW	NMPP	FITZ	NSPE	NMPW	NMPP	FITZ	NSPE
UID quadriflagellate.....	18546	2837	5888	1068	6093	127381	34865	100130	79956	4967		75190	1129		9404	4514
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	397638	664201	779989	923478	377739	1013738	746264	1168181	6343427	690382	774285	897092	716668	544886	316592	670399
% of TOTAL.....	34.2	58.8	66.3	69.7	54.7	52.6	68.6	65.8	89.4	51.7	37.4	52.9	57.2	33.2	27.2	98.2
B. EUGLENOIDS																
<i>Euglena</i> sp.	63446	76953	64228	68327	56356	132688	67505	53773	55191	72846	12750	80375	7900	46533	112845	
<i>Phacus</i> sp.																
TOTAL EUGLENOIDS.....	63446	76953	64228	68327	56356	132688	67505	53773	55191	72846	12750	80375	7900	46533	112845	
% of TOTAL.....	5.5	6.8	5.5	5.2	8.2	6.9	6.2	3.0	0.8	5.5	0.6	4.7	0.6	2.8	9.7	
C. DIATOMS																
<i>Achnanthes</i> sp.																
<i>Asterionella formosa</i>																
<i>Cocconeis</i> sp.							1484									
<i>Coscinodiscus</i> sp.																
<i>C. subtilis</i>	2928					884	2226	5563								
<i>Cyclotella</i> sp.	25378	11347	4817	3203	13708	3538	6676	7417	2123	13245	9273	3889	10157	19514	3135	
<i>C. bodanica</i>																
<i>C. conta</i>																
<i>C. meneghiniana</i>																
<i>Cymbella</i> sp.																
<i>Diatoma</i> sp.																
<i>D. elongatum</i>																
<i>Fragilaria</i> sp.																
<i>F. catenula</i>						44229	29673					226866	56431	300213		
<i>F. crotonensis</i>		15129				20346										
<i>Gomphonema</i> sp.																
<i>Gyrodinium</i> sp.																
<i>Helosira</i> sp.			4817			7077	4451									
<i>H. binderana</i>																

TABLE IIIA-16 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28μ) Replicate

9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.								1854								
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. truncatata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Phaeocystis</u> sp.																
<u>Scolecodiscus</u> sp.																
<u>S. astraea</u>	5856		535	1068			9644		12736						1129	
<u>S. hantzschii</u>																
<u>S. niscareae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	34162	26476	10169	4271	13708	76074	54154	14834	14859	13245	9273	230755	66588	319727	3135	1129
% of TOTAL.....	2.9	2.3	0.9	0.3	2.0	3.9	5.0	0.8	0.2	1.0	0.4	13.6	5.3	19.5	0.3	0.2
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallanomas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-16 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28u) Replicate

9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Achnanthes punctata</i>																
<i>A. quadricollicatum</i>																
<i>Anabaena</i> sp.	4880	24585	3747													
<i>A. circinalis</i>																
<i>A. flos-aquae</i>					7616	30076						1296	39501		156729	
<i>A. sciroidea</i>																
<i>Anaetatis</i> sp.										132447	115911			45032		
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minus</i>																
<i>A. minor</i>																
<i>A. Prescotti</i>																
<i>Achnanthes</i> sp.	436315	156968				123842	67505	231782	232085			20742	45144	136597	117547	
<i>A. endophytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Achnanthes</i> sp.																
<i>A. flos-aquae</i>				4270	1523						37092		10157	1501		
<i>Achnanthes</i> sp.																
<i>Chroococcus</i> sp.	11713		71721	103558	97481	50421			45285	66224	122866	60930	72231	27019	114412	
<i>C. limneticus</i>	7809	9456	41748		7616	31845	5935	14834	19105	8278	30137	2593	40630	6004	9404	2257
<i>C. minutus</i>			127385			145072	11869	81587	152129			186678			6269	6772
<i>Coelosphaerium Kuetzingianum</i> ...			17127	34163						26489	222550		72231		300920	
<i>C. Naegelianum</i>	97610	141839			97481	88459				105957		129638		450320		
<i>Gloeocapsa</i> sp.																
<i>G. aerocenosia</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphonema</i> sp.																
<i>G. acronia</i>																
<i>G. laetiviridis</i>			51382	170817		114996		185426	191045	79468	92729	64819	36116	48034		
<i>Lynobrya</i> sp.																

TABLE IIIA-16 (continued)

Nine Mile Point Phytoplankton
cells/L
Whole Water X Net(>28 μ) Replicate

9/21/73	10				20				40				60			
	IMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE
<i>L. aeruginosa-coerulea</i>						5308			2123							
<i>L. Birgei</i>																
<i>L. Diquetii</i>						1769	8902	7417	7076	3311		1296			3135	2257
<i>L. limnetica</i>		946	2141				2967									
<i>Merismopedia tenuissima</i>							74181									
<i>Microcystis aeruginosa</i>													102704			
<i>M. incerta</i>												579557				
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.	11713	4728														
<i>O. limnetica</i>	4880	946		2135	9139			9271		14900		6482		7505		
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>						7961			3538						15073	
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	574920	339468	315251	314943	220856	599749	171359	530317	652386	437084	1200842	474474	418714	722012	724089	11286
% of TOTAL.....	49.5	30.1	26.8	23.8	32.0	31.1	15.7	29.9	9.2	32.7	58.0	28.0	33.4	44.0	62.1	1.7
F. DINOFLLAGELLATES																
<i>Ceratium hirundinella</i>			535	1068	1523		742								3135	
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>	89801	18912	38001	9608	18278	106150	46734	9271	26888	120858	68388	9075	39501	6004	6269	
<i>G. quadridens</i>	976			2135	1523				2123		2318	5186	2257			
<i>Glenodinium</i> sp.	976	2837	535	1068			1484			1656	1159		1129	1501		
<i>Peridinium cinctum</i>																
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLLAGELLATES.....	91753	21749	39071	13879	21324	106150	48960	9271	29011	122514	71865	14261	42887	7505	9404	
% of TOTAL.....	7.9	1.9	3.3	1.0	3.1	5.5	4.5	0.5	0.4	9.2	3.5	0.8	3.4	0.5	0.8	

TABLE IIIA-16 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net(>28 μ) Replicate

9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	1161919	1128847	1177310	1324898	689983	1928399	1088242	1776376	7094874	1336071	2069015	1696957	1252747	1640663	1166065	682014

TABLE IIIA-17

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28u) _____ Replicate _____

Date: 10/25/73

GROUP

A. GREENS

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>													1826			
<i>Ankistrodesmus</i> sp.	1943			1007			1917		708	1214						
<i>A. convolutus</i>		344									1113			591	407	
<i>A. falcatus</i>														296	815	2328
<i>Archrodesmus</i> sp.																
<i>Bourgeoisococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudanicus</i>																
<i>Carteria cordiformis</i>	971			1007					708							
<i>Chetani</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.		687	1150		479	4793	1885	4953	1518			457	2283	591		
<i>C. coelestis</i>																
<i>C. pseudocertvi</i>																
<i>Chrorella ellipsoldea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladocora filament.</i>																
<i>Clesteropsis longissima</i>																
<i>Clesterium</i> sp.	971		1917		479	1917	943	2123	911	2227	457	457	457	296	407	4074
<i>Coelastrum</i> sp.																
<i>C. canaliculatum</i>																
<i>C. microperum</i>			12270										20999			
<i>Cosmarium</i> sp.	38852	31602	6135	16106	3835	21090	18853	38918	36428			23282	13695	887	35853	20953
<i>C. crenatum</i>																
<i>C. depressum</i>																
<i>C. formosum</i>	971								304	1113			457			
<i>C. nitidulum</i>																
<i>Crucigenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-17 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28u) _____ Replicate _____

10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>		10992	24541							304						
<i>D. pulchellum</i>																
<i>Dimorphococcus lunatus</i>																
<i>Echinosphaerella limnetica</i>																
<i>Errerella borhemiensis</i>																
<i>Eudorina elegans</i>																
<i>Franceia</i> sp.						7669	7669			14571		14608	10956		6519	
<i>F. droescheri</i>																
<i>F. ovalis</i>																
<i>Gleocystis</i> sp.									1415							
<i>G. amula</i>																
<i>G. gigas</i>	971						479						457			
<i>G. planctonica</i>																
<i>G. vesticulosa</i>																
<i>Golenkinia paucispina</i>	27196		5752				1917	30164	5661					3347		
<i>G. radiata</i>						479				304			457			
<i>Goniun</i> sp.																
<i>G. sociale</i>														296		
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>																
<i>K. obesa</i>																
<i>K. subsolitaria</i>										9714					3259	
<i>Lagerheimia ciliata</i>																
<i>L. longiseta</i>	971			1007			959			607					815	
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Microactinium</i> sp.									708							
<i>M. pusillum</i>																
<i>Microspora</i> sp.																
<i>Mougeotia</i> sp.					2967	13421		4713		1214		3652			12630	
<i>Mechrocystis Agardhianum</i>																
<i>M. limneticum</i>																
<i>M. lunatum</i>																

TABLE IIIA-17 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water X Net (>28μ) Replicate

10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Oedogonium</i> sp.	3885		8052			5752	20611			22160			17347	6503	3667	1164
<i>Oocystis</i> sp.																
<i>O. Borgesi</i>	7770	2061	3451	14092		2397	3835									
<i>O. parva</i>		1718	16872	3024	2374	479	12942	1885	11322	13357	4453	3652	6848	5320	3259	7566
<i>O. solitaria</i>	9713	1031	3451	1007			479	2357	8491	6678	1113	4109	13695	2365	5296	7566
<i>Pardorina porum</i>	31082		3068					3771							1630	1746
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. Boryanum</i>	7770									4857			7304		7333	
<i>P. denticulatus</i>			12270								21154				26075	13969
<i>P. simplex</i>					18990		5273							10345	6519	4656
<i>P. tetras</i>																
<i>Planctosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedrionia quadrispina</i>																
<i>Quadrigula chodatii</i>							1917									
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>	25254	4809	17639	36238		4793	17256	10369	34672	20642	21154		11413	1182	18741	10477
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>												1826				
<i>S. obliquus</i>																
<i>S. quadricauda</i>	38852	14771	2531	75495	11869	9587	33073	5185	22643	42499	13360	10043	27847	14188	22000	38414
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>			383				479									
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>			3068				11504	9426						2956		

TABLE IIIA-17 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) Replicate

10/25/73	10				20				40				60			
	HNW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Scenedesmus</i> sp.....																
<i>Staurastrum</i> sp.								471					457		1630	
<i>S. cuspidatum</i>																
<i>S. gracile</i>		344	1150		593		479	471						296		582
<i>Stigeoclonium tenue</i>																
<i>Tetradosmus</i> sp.																
<i>T. staurogeniaeformis</i>																
<i>Tetradron caudatum</i>																
<i>T. minimum</i>	971	687	383				1438		708	911	1113		913			
<i>T. muticum</i>																
<i>T. pentadetricum</i>															407	
<i>T. roculare</i>																
<i>Tetraspora</i> sp.																
<i>T. lacustris</i>																
<i>T. lacellosa</i>																
<i>Treubaria</i> sp.																
<i>T. setigerum</i>																
<i>T. triappendiculata</i>																
<i>Ulothrix</i> sp.									8491		8907					
<i>U. subconstricta</i>																
<i>U. subtilissima</i>																
<i>U. zonata</i>																
<i>Uronema</i> sp.																
<i>Volvox</i> sp.																
<i>V. aureus</i>																
<i>Zygnema</i> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-17 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water X Net (>28u) Replicate

10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....												457				
UID unicellular.....	56335		7286	14092	1780	10066	25884	3771	21228	13964	13360	913	18717	3842	1222	4074
UID zygospore.....																
TOTAL GREENS.....	254478	69046	131369	163075	38573	59436	175911	94264	162749	192157	89067	63456	156128	53501	158484	117569
% of TOTAL.....	60.0	42.2	21.5	28.8	14.9	24.2	31.6	29.9	33.2	42.0	19.2	13.5	24.7	21.6	47.6	35.7
B. EUGLENOIDS																
Euglena sp.	55364		10353	9059	8308	2876	10066	10840	17690	10018	28947	50672	73953	5616	109595	77411
Phacus sp.									708							
TOTAL EUGLENOIDS.....	55364		10353	9059	8308	2876	10066	10840	18398	10018	28947	50672	73953	5616	109595	77411
% of TOTAL.....	13.0		1.7	1.6	3.2	1.2	1.8	3.4	3.8	2.2	6.2	10.8	11.7	2.3	32.9	23.5
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....	5828	4122		26172	9495		5752	3771		4250			14152	1182	1222	4656
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	2914		2301			479		943		1518						
Cyclotella sp.		1374	383	2013	1780			471		607	1113		3196	296	1222	1164
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. caucurina.....	48565		134208	90594			95865	23566	70760	75891	111335	136950	91300	103451		
F. crotonensis.....						23966			10614				22825			
Gomphonema sp.																
Gyrodinium sp.																
Melosira sp.	25254															
M. binderana.....																

TABLE IIIA-17 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water. y Net (>28µ) Replicate

10/25/74	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Meridion</i> sp.																
<i>Navicula</i> sp.			1150					943								
<i>N. confervacea</i>																
<i>N. trilineolata</i>																
<i>Nitzschia</i> sp.																
<i>N. acicularis</i>																
<i>N. sicca</i>																
<i>Rhoicosphenia</i> sp.																
<i>Stechanodiscus</i> sp.		1374	1150						1415	304		457			407	582
<i>S. astraea</i>																
<i>S. hantzschii</i>																
<i>S. niagarae</i>																
<i>Suriella</i> sp.																
<i>Synedra</i> sp.																
<i>Tabellaria</i> sp.																
<i>T. fenestrata</i>		8588	17255			13421	17256	9426		10321	8907		15521		5296	
<i>T. flocculosa</i>																
UID pennate.....																
TOTAL DIATOMS.....	82561	15458	156447	118779	11275	37866	118873	39120	82789	92891	121355	137407	146994	104929	8147	6402
% of TOTAL.....	19.5	9.5	25.6	21.0	4.4	15.4	21.4	12.4	16.9	20.3	26.2	29.3	23.3	42.4	2.4	1.9
D. GOLDEN-BROWNS																
<i>Dinobryon</i> sp.																
<i>D. bavaricum</i>																
<i>D. cylindricum</i>																
<i>D. divergens</i>																
<i>D. sertularia</i>																
<i>D. sociale</i>																
<i>Hallamonas</i> sp.																
<i>Synura</i> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-17 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) Replicate

10/25/73	10				20				40				60			
	IMPW	IMP	FITZ	NPPE	IMPW	IMP	FITZ	NPPE	IMPW	IMP	FITZ	NPPE	IMPW	IMP	FITZ	NPPE
E. BLUE-GREENS																
<i>Asterionella punctata</i>																
<i>A. quadruplicatum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>																
<i>A. flos-aquae</i>										1821						
<i>A. spiroides</i>																
<i>A. crustis</i> sp.																
<i>A. crassa</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minutus</i>																
<i>A. minor</i>																
<i>A. Prescotti</i>																
<i>Aphanizomenon</i> sp.			40646				4242					54780				
<i>A. endorhizica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>	1943				4748										2910	
<i>Aphanizomenon</i> sp.																
<i>Chroococcus</i> sp.		11679			5341	959	6711			607		7761	2739	591	6519	9895
<i>C. limneticus</i>			3068		593					1214		4109	6391		2852	
<i>C. minutus</i>							26842			19428			51128			
<i>Coelosphaerium Kuetzingianum</i> ...	7770							47132	35380		213763	87648			45630	111751
<i>C. micellianum</i>		43969		193276	113942			117830	106140	121426			91300	82761		
<i>Gloeotheca</i> sp.		21984	249242			143798	191730									
<i>G. aerocerosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.													7304			
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>	9713		15338	64422	75962		23966		70760	15178			91300			
<i>Lyngbya</i> sp.																

TABLE IIIA-17 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28 μ) Replicate

10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>L. aerugineo-coerulea</u>							2397			607			2283			
<u>L. Birgei</u>																
<u>L. Diquetii</u>																
<u>L. limnetica</u>	3885							471		1214	1113			296		
<u>Merismopedia tenuissima</u>									12737		6680					
<u>Microcystis aeruginosa</u>																
<u>M. incerta</u>																
<u>Moorea sp.</u>																
<u>Oscillatoria sp.</u>																
<u>O. limnetica</u>		1374	383	14092		479						1370			815	2328
<u>O. subbrevis</u>																
<u>Phormidium mucicola</u>	2914															
<u>Stictonema sp.</u>																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	26225	79006	308677	271790	200586	145236	251646	169675	225017	161495	221556	155668	252445	83648	55816	126884
% of TOTAL.....	6.2	48.3	50.5	48.0	77.5	59.2	45.2	53.8	46.0	35.3	47.8	33.1	40.0	33.8	16.8	38.5
F. DINOFAGELLATES																
<u>Ceratium hirundinella</u>								471								
<u>Glenodinium sp.</u>																
<u>G. palustre</u>																
<u>G. pulvisculum</u>	5828		3834					943	708	1214			1370			1164
<u>G. quadridens</u>																
<u>Glenodinium sp.</u>																
<u>Peridinium cinctum</u>											2227	2283			815	
<u>P. inconspicuum</u>				4026												
<u>P. wisconsinensis</u>																
UID dinoflagellate.....																
TOTAL DINOFAGELLATES.....	5828		3834	4026				1414	708	1214	2227	2283	1370		815	1164
% of TOTAL.....	14.		0.6	0.7				0.4	0.1	0.3	0.5	0.5	0.2		0.2	0.4

TABLE IIIA-17 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28 μ) Replicate

10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	424456	163510	610680	566729	258742	245414	556496	315313	489661	457775	463152	469486	630890	247694	332857	329430

TABLE IIIA-18

Nine Mile Point Phytoplankton
cells/L

Whole Water X Net (>28μ) Replicate

Date: 11/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>																
<i>Ambistredonius</i> sp.																
<i>A. convolutus</i>					3562								1340		444	
<i>A. falcatus</i>		710		674	1187			686		958	2748	1054			1331	
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudeticus</i>																
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.																
<i>C. coithytica</i>																
<i>C. pseudocrypti</i>																
<i>Chorolla ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora filament</i>																
<i>Closteriopsis longissima</i>	2052		1323	674	1187	686		1372	2579		2748	2107		1340		887
<i>Closterium</i> sp.																
<i>Coelastrum</i> sp.																
<i>C. canaliculatum</i>																
<i>C. microporum</i>		5678				5489		5489						4020		
<i>Cosmarium</i> sp.						686										
<i>C. crenatum</i>																
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Cryptomonas</i> sp.																
<i>C. leuterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-18 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28μ) Replicate

11/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.																
<u>D. ehrenbergianum</u>																
<u>D. pulchellum</u>																
<u>Dinorhochococcus lunatus</u>																
<u>Echinosthaerella limnetica</u>																
<u>Erreraella borheniensis</u>																
<u>Eudorina elegans</u>					14249											
<u>Francoia</u> sp.																
<u>F. Gracescheri</u>																
<u>F. ovalis</u>																
<u>Gleocystis</u> sp.																
<u>G. amela</u>																
<u>G. gigas</u>																
<u>G. planctonica</u>																
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>																
<u>G. radiata</u>																
<u>Gonium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.													9706			
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>																
<u>K. obesa</u>																
<u>K. subsolitaria</u>																
<u>Lagerheimia ciliata</u>																
<u>L. longiseta</u>																
<u>L. subsalsa</u>																
<u>L. quadriseta</u>																
<u>Microactinium</u> sp.																
<u>M. pusillum</u>																
<u>Microstora</u> sp.																
<u>Mougeotia</u> sp.					26123					958	7327			13398		
<u>Neochrocyttum Agardhianum</u>																
<u>N. limneticum</u>																
<u>N. lunatum</u>																

TABLE IIIA-18 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water X Net (>28μ) Replicate

11/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>H. obesus</i>																
<i>Cedronium</i> sp.										11499						
<i>Oocystis</i> sp.																
<i>O. Borgel</i>				674									1456			2218
<i>O. parva</i>	3078	2839	6614		4750	5489					2748	2107				3549
<i>O. solitaria</i>		3549		8766		2058		10978	7737	3833	916	4215		4020		2218
<i>Pandorina norum</i>					14249	5489								1340		
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. boryanum</i>																
<i>P. dualex</i>																
<i>P. simplex</i>																3549
<i>P. tetras</i>																
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvodricosis quadrispina</i>																
<i>Quadrigula Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>	12312	20584		25624	11874	19212		21270	10316	11499		7376	1941			14198
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>			5292													
<i>S. dinorplus</i>											2748					
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	14364	2839	6614	9440	5937	13723		21956	12035	1916	3663	4215		10719		9761
<i>Schizocylus gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Schaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-18 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28µ) _____ Replicate _____

11/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylium</u> sp.....																
<u>Staurostrum</u> sp.																
<u>S. cuspidatum</u>																
<u>S. gracile</u>						686										
<u>Sticeoclonium tenue</u>																
<u>Tetradasmus</u> sp.																
<u>T. staurospiraeforme</u>																
<u>Tetradron caudatum</u>												1054				1775
<u>T. minimum</u>																
<u>T. muticum</u>																
<u>T. pentactricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. lamellosa</u>																
<u>Trembaria</u> sp.																
<u>T. setigerum</u>																
<u>T. triacanthiculata</u>																
<u>Ulothrix</u> sp.....																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....	1026							686	860	958			485	1340		
UID filamentous.....																
UID green.....																

TABLE IIIA-18 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water X Net (>28u) Replicate

11/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....		6388	18520	12138	4750	1372		2745 1372	6877	4791	9158	1054		17418		887
UID zygospore.....																
TOTAL GREENS.....	32832	42587	38363	58990	87868	54890		66554	40404	36412	32056	23182	13588	54935		40817
% of TOTAL.....	14.2	32.6	59.2	62.3	91.4	55.2		33.2	25.1	64.4	38.5	15.9	65.1	59.9		42.6
B. EUGLENOIDS																
<i>Euglena</i> sp.	3078		7937	4720	4750			2058	860	2875	6411	1054		5359		2662
<i>Phacus</i> sp.																
TOTAL EUGLENOIDS.....	3078		7937	4720	4750			2058	860	2875	6411	1054		5359		2662
% of TOTAL.....	1.3		12.2	5.1	4.9			1.0	0.5	5.1	7.7	0.7		5.8		2.8
C. DIATOMS																
<i>Achnanthes</i> sp.																
<i>Asterionella formosa</i>	36936	11358	10583	674		2058		2745	13754	2875	23812		971	5359		7986
<i>Cocconeis</i> sp.																
<i>Coscinodiscus</i> sp.																
<i>C. subtilis</i>																
<i>Cyclotella</i> sp.	1026	7808		4720		6861		20584	4298	13415		4215	971	2680		3106
<i>C. bodanica</i>																
<i>C. cecata</i>																
<i>C. meneghiniana</i>																
<i>Cymbella</i> sp.																
<i>Diatoma</i> sp.																
<i>D. elongatum</i>																
<i>Fragilaria</i> sp.																
<i>F. capucina</i>									68770				4853			13310
<i>F. crotonensis</i>																11536
<i>Gomphonema</i> sp.																
<i>Gyrosigma</i> sp.																
<i>Helosira</i> sp.												2107				
<i>M. binderana</i>																

TABLE IIIA-18 (continued)

Nine Mile Point Phytoplankton
coll/LWhole Water y Net (>28u) Replicate

11/20/73	10				20				40				60			
	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE	IMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.																
<u>Navicula</u> sp.		2129						686			916					
<u>N. confervacea</u>																
<u>N. truncatata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Phaeosolenia</u> sp.																
<u>Stechanodiscus</u> sp.	3078	710	5292	12812	2375			686	12894	958	7327	2107		4020		3106
<u>S. astraea</u>																
<u>S. hantzschii</u>																
<u>S. niagarae</u>																
<u>Surirella</u> sp.						1372										
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>								6861	6877		10990			1340		3106
<u>T. flocculosa</u>																
<u>UID pennate</u>																
TOTAL DIATOMS.....	41040	22005	15875	18206	2375	10291		31562	106593	17248	43045	8429	6795	13399		42150
% of TOTAL.....	17.7	16.8	24.5	19.6	2.5	10.3		15.8	66.3	30.5	51.6	5.8	32.6	14.6		44.0
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. pavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Haeteronax</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-18 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water X Net (>28μ) _____ Replicate _____

11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. quadruplicatum</i>																
<i>A. sp.</i>																
<i>A. circinalis</i>																
<i>A. flos-aquae</i>				2697					12894							
<i>A. spiroides</i>																
<i>A. sp.</i>																
<i>A. cyanea</i>																
<i>A. discorsus</i>																
<i>A. limneticus</i>																
<i>A. minus</i>																
<i>A. minor</i>																
<i>A. Prescotti</i>																
<i>Achanocapsa</i> sp.																
<i>A. endophytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Achanicoceros</i> sp.																
<i>A. flos-aquae</i>																
<i>Achanothece</i> sp.																
<i>Chroococcus</i> sp.	4104		2646								1832			2680		
<i>C. limneticus</i>																
<i>C. minus</i>																
<i>Coelosphaerium Kuetzingianum</i> ...	131329	45427		3372				87826						5359		1775-5679
<i>C. Kuetzingianum</i>						34307						105374				
<i>Gloeocapsa</i> sp.																
<i>G. aerocerosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphonema</i> sp.																
<i>G. areolaris</i>																
<i>G. lacustris</i>														10048		
<i>Lynceba</i> sp.																

TABLE IIIA-18 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net (>28 μ) Replicate

11/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>	1026				1187			686					485			
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>	18468	19874		6069				11664				6322				2662
<i>M. incerta</i>																
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>		710										1054				
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	154927	66011	2646	12138	1187	34307		100176	12894		1832	112750	485	18087		10116
% of TOTAL.....	66.8	50.5	4.1	13.0	1.2	34.5		50.0	8.0		2.2	77.5	2.3	19.7		10.6
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>																
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>																
<i>G. quadridens</i>																
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>																
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....																
% of TOTAL.....																

TABLE IIIA-18 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water X Net(>28 μ) Replicate

11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrum sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	231877	130603	64821	93054	96180	99488		200350	160751	56535	83344	145415	20868	91780		95745

TABLE IIIA-19

Nine Mile Point Phytoplankton

cells/L

Whole Water _____ Net (>28µ) X Replicate X

Date: 6/15/73

GROUP

A. GREENS

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>	2967		11651	17875			4176	2259	3149		6863	19397			1883	
<i>A. hantzschii</i>																
<i>Ankistrodesmus</i> sp.	3337				706		348				172	485	814	400		
<i>A. convolutus</i>	371															
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudeticus</i>																
<i>Carteria cordiformis</i>																
<i>Castracium</i> sp.....							348									
<i>C. ornithocephalum</i>							696	1506	525				610			
<i>Chlamydomonas</i> sp.	1483		583													
<i>C. eoliphytica</i>																
<i>C. pseudocortyi</i>																
<i>Chorolla ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora filament</i>																
<i>Closteriopsis longissima</i>	371		874				348	753	525		515			133		
<i>Closterium</i> sp.			291					377		323	172					
<i>Coelastrum</i> sp.																
<i>C. canaliculatum</i>																
<i>C. microdonum</i>	35599						2784	26357			7892	7759				9037
<i>Cosmarium</i> sp.																
<i>C. granatum</i>																
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Crucicella</i> sp.																
<i>C. latericornis</i>																
<i>C. quadrata</i>																

TABLE IIIA-19 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>20μ) X Replicate X

Date: 6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. ehrenbergianum</i>	5933			5107			5568				5490		814			
<i>D. pulchellum</i>																
<i>Dimorhochococcus lunatus</i>																
<i>Echirostocharella limnetica</i>				3192												
<i>Erarella borheniensis</i>			9321													
<i>Eudorina elegans</i>																
<i>Francoia</i> sp.																
<i>F. Broescheri</i>																
<i>F. ovalis</i>				319					525							
<i>Gleocystis</i> sp.																
<i>G. amula</i>																
<i>G. gigas</i>																
<i>G. planctonica</i>																
<i>G. vesticulosa</i>								377					12209			2008
<i>Golenkinia paucispina</i>													203			2510
<i>G. radiata</i>	742		583				696									
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.		484	16311	3192	9652			1769		9684	28824			11064	32724	15061
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>																
<i>K. chesa</i>																
<i>K. subsolitaria</i>																
<i>Lacertheimia ciliata</i>																
<i>L. longiseta</i>																
<i>L. subsalsa</i>	371				235		696						1221	133		
<i>L. quadriseta</i>																
<i>Microactinium</i> sp.																
<i>M. pusillum</i>	40049		26797		1883		6612	16944	6298	10652	27451	7910	7326		1883	
<i>Microscora</i> sp.																
<i>Monogeotia</i> sp.	15945	5808	2039	6384	2119	550	7308	753	3674			31035	814	2933	3531	5020
<i>Neohrocystium Agardhianum</i>																
<i>N. limneticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-19 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ X Replicate _____ X

Date: 6/15/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Oedogonium</i> sp.											2745	8729			4473	
<i>Oocystis</i> sp.																
<i>O. borei</i>							1044									
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina morum</i>	2967															
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. porvanum</i>	6675		23302				5568	12049		5165						
<i>P. duplex</i>			13981		1883	4400	33408		8398	2582	16471		6512	4266		12551
<i>P. simplex</i>																
<i>P. tetras</i>							5568			2582	1373					
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedrionosis quadrispina</i>																
<i>Quadrigula Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>	1483	484	1165		706	275	2784	3012	4199 2099 8398	1291	1373			533	1883	
<i>S. bijuga</i>																
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>	17429		2330				9744					7759				
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	15204		12233	1277	3296		6960	1506	2099		8750	5819	2645	2133	3767	2008
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>	1112													203		
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-19 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X _____ Replicate _____ X _____

Date: 6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....																
<u>Staurastrum</u> sp.																
<u>S. cuspidatum</u>																
<u>S. gracile</u>																
<u>Sticoclonium tenue</u>																
<u>Tetradosmus</u> sp.																
<u>T. staurogeniaeformis</u>																
<u>Tetradron caudatum</u>																
<u>T. minimum</u>							348									
<u>T. muticum</u>																
<u>T. pseudodricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. larellosa</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>													203			
<u>T. triacunculata</u>																
<u>Ulothrix</u> sp.....	63411		34952	319	15772		23316	2636	12072		21789	15033	4070		19350	15061
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygnema</u> sp.																
UID biflagellate.....							696					485				
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....													610			

TABLE IIIA-19 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28u) X Replicate X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 6/15/73																
UID quadriflagellate.....	12608						8352	753				12608	3663			
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	228057	6776	156413	37665	36252	5225	127368	86979	51961	32279	129880	112019	41917	21595	73449	63256
% of TOTAL.....	44.8	20.3	67.9	27.4	67.3	20.1	43.7	35.5	45.0	39.4	54.4	35.4	46.5	39.6	53.2	44.1
B. EUGLENOIDS																
Euglena sp.					235								203			
Phacus sp.					235								203			
TOTAL EUGLENOIDS.....					0.4								0.2			
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.	35599	7018	10194	3830	3296	413	26796	6401	5773	6940	10466	19882	11192	1733	6121	1506
Asterionella formosa.....																
Cocconeis sp.	371			958					525		172		203			
Coscinodiscus sp.																
C. subtilis.....	1483	12342	874	1915	235		1392	6778	3674	807			407		235	2008
Cyclotella sp.																
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.	34858		15437	41496	2119		21576	43301	37265		22990	5334	3459		10358	21086
D. elongatum.....																
Fragilaria sp.		2178	21845		5885	6188	17400		525	1291	17329	48493		7731	27072	1004
F. caucina.....	92706						5568			1130		1940	10175	1733		5020
F. crotonensis.....																
Gomphonema sp.																
Gyrosigma sp.	4450				235	550		6778		1937	5662			133		7531
Malcsira sp.																
M. binderana.....																

TABLE IIIA-19 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28µ) X Replicate _____ X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 6/15/73																
<u>Meridion</u> sp.	371		291	319											471	
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. truncata</u>																
<u>Nitzschia</u> sp.																
<u>N. aricularis</u>																
<u>N. sigma</u>																
<u>Rhizosolenia</u> sp.																
<u>Scheranodiscus</u> sp.										646						
<u>S. astraea</u>																
<u>S. hantzschii</u>	88627		4660	11172	3060	6875	37584	25981	3674	10975	25049	16972	14244	10397	5650	27110
<u>S. niagarae</u>																
<u>Surirella</u> sp.						275										
<u>Synedra</u> sp.	6112	484			471					646			407	667		
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>	4821	1210	2330		706	3988				3712				1600	4237	
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	264398	23232	65631	59690	16007	18289	110316	89239	51436	34379	181668	92621	40087	23994	54144	65265
% of TOTAL.....	52.0	69.6	28.5	43.4	29.7	70.4	37.9	36.5	44.5	41.9	34.2	29.3	43.5	44.0	39.2	45.5
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.													5901		6177	
<u>D. bavaricum</u>																
<u>D. cylindricum</u>										6133				5599		
<u>D. divergens</u>										323						
<u>D. sertularia</u>	4450	1936	291	7342	1412	2063	5568		10497	4519	16985	8729		2000	9181	
<u>D. sociale</u>																
<u>Mallomonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....	4450	1936	291	7342	1412	2063	5568		10497	4519	16985	8729	5901	7599	10358	
% of TOTAL.....	0.9	5.8	0.13	5.3	2.6	7.9	1.9		9.1	13.4	7.1	2.8	6.4	13.9	7.5	

TABLE IIIA-19 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ X Replicate _____ X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. quadruplicatum</i>								753		3228						1506
<i>Anabaena</i> sp.																
<i>A. circinalis</i>	5562		7282	28728			34104	56480			1373	96985	4070			8033
<i>A. flos-aquae</i>																
<i>A. spiroides</i>																
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minutus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>																
<i>Aphanocapsa</i> sp.																
<i>A. endophytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanothece</i> sp.																
<i>Chroococcus</i> sp.							696									
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium Kuetzingianum</i> ...																
<i>C. Macellianum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphonema</i> sp.																
<i>G. arcuata</i>																
<i>G. lacustris</i>																
<i>Lynceba</i> sp.				319												

TABLE IIIA-19 (continued)

Nine Mile Point Phytoplankton
cells/L
Whole Water _____ Net (>28 μ) _____ X Replicate _____ X

Date: 6/15/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>L. aeruginoso-coerulea</u>							696									
<u>L. Birgei</u>																
<u>L. Diquetii</u>																
<u>L. limnetica</u>	2697															
<u>Merismopedia tenuissima</u>							10440					970				
<u>Microcystis aeruginosa</u>																
<u>N. incerta</u>																
<u>Nostoc sp.</u>																
<u>Oscillatoria sp.</u>	2596	726		3830		138	1392	3389	1575	968	8579	4849		1066		3514
<u>O. limnetica</u>																
<u>O. subbrevis</u>																
<u>Phormidium mucicola</u>																
<u>Stigonema sp.</u>																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	10855	726	7282	32877		138	47328	60622	1575	4196	9952	102804	4070	1066		13053
% of TOTAL.....	2.1	2.2	3.2	23.9		0.5	16.2	24.8	1.4	5.1	4.2	32.5	4.4	1.9		9.1
F. DINOFLAGELLATES																
<u>Ceratium hirundinella</u>																
<u>Glenodinium sp.</u>														133		
<u>G. palustre</u>	742		874				348				172				235	
<u>G. pulvisculus</u>																
<u>G. quadricornis</u>																
<u>Gymnodinium sp.</u>		726				275	348	377		161				133		
<u>Peridinium cinctum</u>																
<u>P. inconspicuum</u>																
<u>P. wisconsinensis</u>																
UID dinoflagellate.....	742	726	874			275	696	377		161	172			266	235	
TOTAL DINOFLAGELLATES.....	0.20	2.2	0.40			1.10	0.20	0.20		0.2	0.07			0.5	0.20	
% of TOTAL.....																

TABLE IIIA-19 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net(>28 μ) X Replicate X

Date: 6/15/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	508502	33396	230491	137574	53906	25990	291276	244748	115469	181990	238657	316173	92178	54520	138186	141574

TABLE IIIA-20

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) X Replicate X

7/20/73		10				20				40				60			
Date:		NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																	
A. GREENS																	
<u>Actinastrum</u> sp.....																	
<u>A. gracillimum</u>																	
<u>A. hantzschii</u>																	
<u>Ankistrodesmus</u> sp.																	
<u>A. convolutus</u>				1540				814				1083				495	
<u>A. falcatus</u>																	
<u>Arthrodesmus</u> sp.																	
<u>Botryococcus Braunii</u>																	
<u>B. protuberans</u>																	
<u>B. sulcatus</u>																	
<u>Carteria cordiformis</u>																	
<u>Characium</u> sp.....																	
<u>C. ornithocephalum</u>																	
<u>Chlamydomonas</u> sp.	718	1951	10269	890	10428	7501	13093	407	8810	8784	7381				4039	247	
<u>C. epiphytica</u>		4227	4108	5933				407	13023	7137		541			14810		
<u>C. pseudoperlyi</u>																	
<u>Chorella ellipsoidea</u>																	
<u>C. vulgaris</u>																	
<u>Chlorococcum</u> sp.																	
<u>Chodatella</u> sp.																	
<u>Chlorothra filament</u>																	
<u>Closteriopsis longissima</u>	718	325	1540	297		750	485	2849	1149			1083			573	495	
<u>Closterium</u> sp.																	
<u>Coelastrum</u> sp.																	
<u>C. caribicum</u>		10406															
<u>C. microporum</u>	135979	91702	102690	75945	27808	37506	120261	16279	29111	39528	80520	17324		38416	21542	3958	
<u>Cosmarium</u> sp.																	
<u>C. crenatum</u>	239																
<u>C. depressum</u>																	
<u>C. formosulum</u>																	
<u>C. nitidulum</u>																	
<u>Crucigenia</u> sp.																	
<u>C. lauterbornii</u>																	
<u>C. quadrata</u>																	

TABLE IIIA-20 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>2M) X Replicate X

7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.																
<i>D. chrenbergianum</i>			2054			8251	31035	3256				8662			21542	7916
<i>D. pulchellum</i>				16613				6512								
<i>Dinorthisporococcus lunatus</i>																
<i>Echinosthaerella linnetica</i>																
<i>Erreraella borheniensis</i>				18986					4596			54138				
<i>Eudorina elegans</i>	67032	29917	2054	51026	37078	18753	62070	52907	45965	17568		17324		7405	67319	247
<i>Fraucia</i> sp.																
<i>F. droescheri</i>																
<i>F. ovalis</i>																
<i>Gleocystis</i> sp.																
<i>G. arcta</i>							1940									
<i>G. gigas</i>				297												495
<i>G. planctonica</i>							1455		766							
<i>G. vesticulosa</i>	74693	103409	196138	90185	78790	82513	209488	11513	188456	62037	90585	182443		43044	6059	55908
<i>Golenkinia paucispina</i>															121174	
<i>G. radiata</i>																
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>											32208					
<i>K. obesa</i>				18986												
<i>K. subsolitaria</i>																
<i>Lagerheimia ciliata</i>																495
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Microactinium</i> sp.																
<i>M. pusillum</i>			4108					814								
<i>Microscora</i> sp.															1851	1979
<i>Mougeotia</i> sp.	3830	5528	9242								2684	4331				
<i>Nephrocystium Agardhianum</i>						3000		3256	18386							
<i>N. limneticum</i>			16430				12608									
<i>N. lunatum</i>																

TABLE IIITA-20 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicatey

7/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>M. obesus</i>																
<i>Oedogonium</i> sp.	3830								1915							
<i>Oocystis</i> sp.																
<i>O. Borgesi</i>	2873	3252	3594	2670	4635	14627	16972	19942	7278	25803	4697	8662			27601	4205
<i>O. parva</i>	3830	1301	1540	2373		8626	16003			2196	6039	8662				4948
<i>O. solitaria</i>	239	2927	2054		1159	1500	970	813	2681		2013	4331			4712	2226
<i>Pandorina</i> <i>porum</i>	243230	182104	124768	204992	194651	186030	318111	153024	55158	149328	429440	25986		88865	59241	19790
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. boryanum</i>			16430			21003	19397		766	8784	10736			7405	21542	
<i>P. duxleyi</i>	72778	127798	105771	166426		75012	100864	52907	5746	51057	85888	181902		99973		31665
<i>P. simplex</i>	15322	10406	16430			6001					10736	25986			18849	
<i>P. tetras</i>														1851	8078	
<i>Planktoschaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedriopsis quadrispina</i>																
<i>Quadrigula chodatii</i>									766	2196	5368					
<i>Q. lacustris</i>				1187												
<i>Sceerodesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>	3830		1027	2373		750		1628	6129		2684					
<i>S. biradiatum</i>																
<i>S. brasiliensis</i>																
<i>S. denticulatus</i>						1500										
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	4309	1626	5135	1187		9001	1940	2442	18386	1647		2707		926	2693	
<i>Schizochlamys gelatinosa</i>														4860		
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																247
<i>S. Nestii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-20 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) X Replicate x

7/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Spondylosium</i> sp.....																
<i>Staurastrum</i> sp.....																
<i>S. cuspidatum</i>																
<i>S. gracile</i>	479	325	513					1628								
<i>Stigeoclonium tenue</i>																
<i>Tetradleimus</i> sp.....																
<i>T. staurogeniaeforme</i>																
<i>Tetradlemon caudatum</i>																
<i>T. minimum</i>																
<i>T. muticum</i>																
<i>T. pentaedricum</i>																
<i>T. regulare</i>																
<i>Tetraspora</i> sp.....																
<i>T. lacustris</i>																
<i>T. lacellosa</i>																
<i>Treubaria</i> sp.....																
<i>T. setigerum</i>																
<i>T. triacanthulata</i>																
<i>Ulothrix</i> sp.....																
<i>U. subconstricta</i>																
<i>U. subtilissima</i>																
<i>U. zonata</i>																
<i>Uronema</i> sp.....																
<i>Volvox</i> sp.....																
<i>V. aureus</i>				593320												
<i>Zygnema</i> sp.....																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-20 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28µ) _____ X _____ Replicate _____ y

7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....			8215		12745	3751	9214	7733			6710	2707				2474
UID zygospore.....									383							
TOTAL GREENS.....	633929	577204	635650	1253686	367294	486075	935906	339131	409470	376065	777689	547872		294596	399874	138532
% of TOTAL.....	88.8	67.5	44.3	83.6	19.0	54.6	56.4	45.8	18.1	29.8	57.8	34.3		52.5	35.6	45.0
B. EUGLENOIDS																
<i>Euglena</i> sp.	2155			889		375	485	407	1149		2684					
<i>Phacus</i> sp.																
TOTAL EUGLENOIDS.....	2155			889		375	485	407	1149		2684					
% of TOTAL.....	0.3			0.1		0.04	0.03	0.04	0.1		0.2					
C. DIATOMS																
<i>Achnanthes</i> sp.																
<i>Asterionella formosa</i>						1500						8662				
<i>Cocconeis</i> sp.																
<i>Coscinodiscus</i> sp.																
<i>C. subtilis</i>	3112	4878	3081	593	16221	7501	9699	1221	14939	9882	6710	541			8078	495
<i>Cyclotella</i> sp.	239	2927				1500			3447	2800				1157		
<i>C. bodanica</i>																
<i>C. conta</i>																
<i>C. meneghiniana</i>																
<i>Gymbella</i> sp.																
<i>Diatoma</i> sp.																
<i>D. elongatum</i>																
<i>Fragilaria</i> sp.																
<i>F. carucina</i>				11866				16279			50325					
<i>F. crotocensis</i>			2054			18753	14548		5746			8662			20196	
<i>Gomphonema</i> sp.																
<i>Gyrosigma</i> sp.																
<i>Melosira</i> sp.																
<i>M. binderana</i>																

TABLE IIIA-20 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28u) x Replicate x

7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Veridion</u> sp.																
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. triuncinata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Enicostichia</u> sp.																
<u>Steranodiscus</u> sp.																
<u>S. astraea</u>																
<u>S. hantzschii</u>																
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	3351	7805	5135	12459	16221	29254	24247	17500	24132	12682	57035	17865		5323	28274	495
% of TOTAL.....	0.5	0.9	0.4	0.8	0.8	3.3	1.5	2.4	1.1	1.0	4.2	1.1		0.9	2.5	0.2
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallacnas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-20 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate X

7/20/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<u>Amenellum punctata</u>																
<u>A. quadruplicatum</u>																
<u>Anabaena</u> sp.																
<u>A. circinalis</u>																
<u>A. flos-aquae</u>									5746	5490	4026	6497			6732	
<u>A. spiroides</u>																
<u>Anacyclops</u> sp.																
<u>A. crassa</u>																
<u>A. dispersus</u>																
<u>A. linneticus</u>																
<u>A. minimus</u>																
<u>A. minor</u>																
<u>A. Prescotti</u>																
<u>Aphanocapsa</u> sp.						7501										
<u>A. endophytica</u>																
<u>A. pulchra</u>							14548	30524			6710	21655				
<u>A. rivularis</u>																
<u>Aphanizomenon</u> sp.																
<u>A. flos-aquae</u>	718	1301	4621	7120	18539	2625	4364		7278	4941	2684	3790			1346	1484
<u>Aphanotheca</u> sp.																
<u>Chroococcus</u> sp.		10406	200246													
<u>C. limneticus</u>	3591		4108												16157	
<u>C. minutus</u>																
<u>Coelosphaerium Kuetzingianum</u> ...					57934											
<u>C. Macgellianum</u>				18986												
<u>Gloeocapsa</u> sp.																
<u>G. aerococcosa</u>																
<u>G. punctata</u>																
<u>Gloeotheca</u> sp.																
<u>G. linearis</u>																
<u>G. rubestris</u>																
<u>Gonchosphaeria</u> sp.																
<u>G. atonina</u>																
<u>G. lacustris</u>									7661							
<u>Lynceba</u> sp.																

TABLE IIIA-20 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) X Replicate X

7/20/73

	10				20				40				60			
	NMPP	NMPP	FITZ	NMPE	NMPP	NMPP	FITZ	NMPE	NMPP	NMPP	FITZ	NMPE	NMPP	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>			1027									541				
<i>Merismopedia tenuissima</i>		246815	364036	203212	1332476	270783	556694	345933	1665841	827892	318725	924669		248314	618662	456492
<i>Microcystis aeruginosa</i>	62723		102690													
<i>M. incerta</i>																
<i>Nostoc</i> sp.									383							5795
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>		5853	103717		115868	88514	108138	4070	106868	19764	125477	66589			32313	2474
<i>Phormidium mucicola</i>																
<i>Sticonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	67032	264375	790714	229318	1524817	369423	683744	380527	1793777	858087	457622	1023741		248314	675210	165745
% of TOTAL.....	9.4	30.9	55.2	15.3	79.0	41.5	41.2	51.3	79.4	68.1	34.0	64.1		44.3	60.1	53.9
F. DINOFLLAGELLATES																
<i>Ceratium hirundinella</i>	239										671			1389		
<i>Glenodinium</i> sp.																
<i>G. palustre</i>		1301			5793	750	1455		21450	1098	2684	4872			673	742
<i>G. pulvisculus</i>							485			1098						
<i>G. quadridens</i>	239															
<i>Gyrodinium</i> sp.																
<i>Peridinium cinctum</i>	6703	4878	2054	2373	16221	3751	11153	3663	8810	10980	46970	3790		11340	20196	1732
<i>P. inconspicuum</i>							485									247
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLLAGELLATES.....	7181	6179	2054	2373	22014	4501	13578	3663	30260	13176	50325	8662		12729	20869	2721
% of TOTAL.....	1.0	0.7	0.1	0.2	1.1	0.5	0.8	0.5	1.3	1.0	3.7	0.5		2.3	1.9	0.9

TABLE IIIA-20 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net(>28 μ) _____ X Replicate _____ X

7/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	713648	855563	143353	1498725	1930346	889628	1657960	741228	2258788	126010	1345355	1598140		560962	1124227	307493

TABLE IIIA-21

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28u) _____ XReplicate X

Date:	10				20				40				60			
	NMPW	NMPP	FITZ	NSPE	NMPW	NMPP	FITZ	NSPE	NMPW	NMPP	FITZ	NSPE	NMPW	NMPP	FITZ	NSPE
7/26/73																
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>		31110	11455			16773	4855		1955	2135	1957 559	4944			1915	
<i>Arthrodesmus</i> sp.																
<i>A. convolutus</i>													1280			
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sudeticus</i>				23912												
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.	1708	5833	4740	3363	2648	9225 2097	3035		5446 279	8540		10594	9600	11741	120	7945
<i>C. eichveticus</i>																
<i>C. pseudocertvi</i>																
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora filament</i>																
<i>Closteriopsis longissima</i>	732	4667	1448	5604	530	3774	3035		279 140	2402	3355	1059	1920	4193	1317	1766
<i>Closterium</i> sp.																
<i>Coelastrum</i> sp.																
<i>C. caribicum</i>			2107	5978		6709	9711		11172	23485		42374	10240	53674		51202
<i>C. microperum</i>	21472	358543	20541	118813	38137	70867 419	61906		27651	67786	72133	31075	30721	103994	19631	112998
<i>Cosmarium</i> sp.																
<i>C. crenatum</i>																
<i>C. depressum</i>			132	374												
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Crucigenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-21 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28u) X Replicate X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
7/26/73																
<i>Dactylococcus infusionum</i>																
<i>Dicystosphaerium</i> sp.																
<i>D. ehrenbergianum</i>				59780												
<i>D. pulchellum</i>	20740	81275	43714	34374	79452	168571	4855		69825	60314	69327	132773	5120	88059	42972	213196
<i>Dinorchochococcus lunatus</i>													97285			
<i>Echinosphaerella limnetica</i>																
<i>Errerella borhemensis</i>	35136	62220			33900	253275										
<i>Evdorina elegans</i>	25376	59109	10534	17934	2119	98123	33988		5586	17080	30191	57205		85543	23940	42374
<i>Francoia</i> sp.										66185	32707	21540		54094	19152	10594
<i>F. broescheri</i>																
<i>F. ovalis</i>									140			706				
<i>Gleocystis</i> sp.																
<i>G. acula</i>		2333														
<i>G. gigas</i>		1944			14301	1677										
<i>G. planctonica</i>			263			8387	2428					3884	12801	1258		441
<i>G. vesticulosa</i>	35136	170716	134172	189428	141954	212600	194126		74154	272213	215250	246478	4480	347625	99710	354444
<i>Golenkinia paucispina</i>													276493			
<i>G. radiata</i>		778		374												
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>																
<i>K. chesa</i>																
<i>K. subsolitaria</i>																
<i>Lagerheimia ciliata</i>																
<i>L. longiseta</i>									279	267		2825		419	359	1766
<i>L. subsalsa</i>																
<i>L. quadriseta</i>				374												
<i>Microactinium</i> sp.																
<i>M. pusillum</i>		34221	8690	35868	42904	20967	12745		1117	38964		24718		6290		22070
<i>Microstora</i> sp.																
<i>Moureaotia</i> sp.		7000	3150	747	11653					1068	3355			6290		2648
<i>Nephrocvtium Agardhianum</i>			1053						1117	2135	10064					
<i>N. limneticum</i>																
<i>N. lunatum</i>		5444														

TABLE IIIA-21 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28µ) X Replicate X

7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. cbesum</i>																
<i>Oedoonium</i> sp.	4636		922		5297	25160			4190			5297		14677		
<i>Cocystis</i> sp.																
<i>O. Borgesi</i>	2928	31499	3423	18308	16420	27676	8497		6703	12009	19289	17656	16001	9645	11012	25601
<i>O. parva</i>	9760	1556	10270	14945	12712		4855		1676	17080			10240	5032		1766
<i>O. solitaria</i>		4278	2502	374	4237	1677	607		140	1868				5032		883
<i>Pandorina</i> <i>porum</i>	281088	236436	61095	134505	110173	6709	77686		20110	51240	41373		71683	60384	11970	38843
<i>Pediatrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. Boryanum</i>		18667	3423	8967	29662	24321			2514	12810	3634	2825		6709	718	3531
<i>P. duplex</i>	45628	161772	51220	107604	50849	80092	53409		61586	138775	105109	210813	92164	86382	48838	86514
<i>P. simplex</i>	5368								3352	3736	4473		40962		958	
<i>P. tetras</i>			527	4484	4237	13419			1117	2135				5032		7062
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedriopsis quadrispina</i>																
<i>Quadrigula Chodatii</i>			527	747	2119						559			1677		
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>						1677										
<i>S. bifurca</i>	1952	1556	2107			1677	12139			1068	1118					
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>	4880		527	1495		1677	1821		1676	3203	4473	2825		15096	958	
<i>S. dimorphus</i>	3904	4667	4740		4237		9711		279	6405	4473		12580	2274	8531	
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	10492	22555	10139	6352	3708	14677	7890		3771	10942	9225	12712	12801	23482	8830	6621
<i>Schizoclamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>			132		530	419					280		640			
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-21 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) X _____ Replicate X _____

7/26/73	10				20				40				60			
	NMHW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....												353				441
<u>Staurastrum</u> sp.																
<u>S. cuspidatum</u>																
<u>S. gracile</u>	488	389	263	747	2119	1677			698	801	559	706	1280	1677	838	1324
<u>Stigeoclonium tenue</u>																
<u>Tetradococcus</u> sp.																
<u>T. staurogeniaeforme</u>																
<u>Tetradron caudatum</u>																
<u>T. minimum</u>									1117	267						
<u>T. muticum</u>																
<u>T. pentadricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. lamellosa</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>																
<u>T. triacunculata</u>																
<u>Ulothrix</u> sp.....																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygnema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-21 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28µ) _____ X Replicate _____ X

Date: 7/26/73

	10'				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....		8944	527	11209	5297		12745		1397				9600			7062
UID unicellular.....		778	132			1677			419	534			640	419		
UID zygospore.....																
TOTAL GREENS.....	511424	1319068	395275	813012	619195	1089418	520134		310304	825981	634013	840070	777634	1012261	292068	1005947
% of TOTAL.....	90.6	81.4	79.4	62.4	89.0	69.9	75.1		71.1	70.0	74.6	56.2	73.3	59.9	75.8	72.0
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....																
Cocconeis sp.										2135						
Coscinodiscus sp.																
C. subtilis.....	976	5444	1185		1059	5451	1214		140	3469	2795	1059		3774	599	
Cyclotella sp.	732	778	658							801	3634				718	
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. caucina.....							30346		4190		2795	52968			5985	24718
F. crotonensis.....		46665	11455	99011	14831	23063	12139		24299	76059	40814	13419	98565	8387	9217	50320
Gomphonema sp.																
Gyrodinium sp.																
Halosira sp.									279			1412		419	1556	
H. binderana.....																

TABLE IIIA-21 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28u) X Replicate X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 7/26/73																
<u>Meridion</u> sp.			132													
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. truncata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Phaeocystis</u> sp.																
<u>Stethinodiscus</u> sp.																
<u>S. aurea</u>																
<u>S. hantzschii</u>														419		
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Surirella</u> sp.																
<u>Tatellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	1708	52887	13430	99011	15890	28514	43699		28908	82464	50038	68858	98565	12999	18075	75038
% of TOTAL.....	0.3	3.3	2.7	7.6	2.3	1.8	6.3		6.6	7.0	5.9	4.6	9.3	0.8	4.7	5.4
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallanonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-21 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) X Replicate X

Date: 7/26/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Agmenellum punctata</i>																
<i>A. quadriloculatum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>																
<i>A. flos-aquae</i>		3889	1317		11653	4193			13267	8006		10594	12801	37740		
<i>A. sciroides</i>			395						4608	8006	6989	22247		14677	4190	36195
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>																
<i>Aphanocapsa</i> sp.	732			5978								62855			3232	
<i>A. endochytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>			790		1059	2516	1214		978	1601		8475	1280	2935		9269
<i>Acharotheca</i> sp.	732	4667														
<i>Chroococcus</i> sp.			1053	1495		1677	2427		1117	534		5650		5032		1766
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium Kuetsingianum</i> ...																
<i>C. Maegelianum</i>																
<i>Gloeocapsa</i> sp.			13167			20967			6983	40031						
<i>G. aerocerosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphonema</i> sp.																
<i>G. arcuata</i>	7808	139995	27651	56044		41933			11172	48038	41932	1766		93091		70624
<i>G. lacustris</i>												105936				
<i>Lynceba</i> sp.																

TABLE IIIA-21 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net(>28 μ) _____ X _____ Replicate _____ X _____

Date: 7/26/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerucineo-coerulea</i>																
<i>L. Bircei</i>																
<i>L. Diquetii</i>											280					
<i>L. limnetica</i>																
<i>Merismocedia tenuissima</i>		58331	38316	74725	15890	315756	100750		39661	116358	36341	364420	106245	459166	14963	52968
<i>Microcystis aeruginosa</i>				186813												88280
<i>M. incerta</i>																
<i>Mosteo</i> sp.																
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>		18666	1975	44461	8475	6290	6069		1397	8006	7268		21121	14257	599	11918
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	9272	225548	84664	369516	37077	393332	110460		79183	230580	148719	581943	141447	626898	72660	304125
% of TOTAL.....	1.6	13.9	17.0	28.4	5.3	25.2	16.0		18.1	19.6	17.5	38.9	13.3	37.1	18.9	21.8
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>						419										
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>	29524	16722	1712		18009	38998	9711		10613	30691	8666	353	36482	27676	599	883
<i>G. quadricens</i>	976	778			1059	839	607		419	801				1258		
<i>Glenodinium</i> sp.																
<i>Peridinium cinctum</i>	244	4667	2765	20549	530	7548	7890		6424	8540	8107	3531	6400	9225	1676	11035
<i>P. inconspicuum</i>	11224			747	4237				838	267	559		640			
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	41968	22167	4477	21296	23835	47804	18208		18294	40299	17332	3884	43522	38159	2275	11918
% of TOTAL.....	7.4	1.4	0.9	1.6	3.4	3.1	2.6		4.2	3.4	2.0	0.3	4.1	2.3	0.6	0.9

TABLE IIIA-21 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) x Replicate x

	10				20				40				60			
	NMPP	NMPP	FITZ	NMPE	NMPP	NMPP	FITZ	NMPE	NMPP	NMPP	FITZ	NMPE	NMPP	NMPP	FITZ	NMPE
Date: 7/26/73																
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	564372	1619670	497846	1302835	695997	1559068	692501		436689	1179324	850102	1494755	1061168	1690317	385078	1397028

TABLE IIIA-22

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) X Replicate X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 8/13/73																
GROUP																
A. GREENS																
Actinastrum sp.....																
A. gracillimum.....				2961			1181	3233	17556							
A. hantzschii.....																
Arthrodesmus sp.																
Botryococcus Braunii.....																
A. convolutus.....	271				308											
A. falcatus.....																
Arthrodesmus sp.																
B. protuberans.....				2114												
B. sudeticus.....			6129													
Carteria cordiformis.....																
Characium sp.....																
C. ornithocephalum.....				211			295				646		593		259	
Chlamydomonas sp.							443		1536				1483			
C. epiphytica.....																
C. pseudopertyi.....																
Chorella ellipsoidea.....																
C. vulgaris.....																
Chlorococcum sp.																
Chodatella sp.																
Cladophora filament.....																
Closteriopsis longissima.....	1628	1341	1724	423	510	2156	591	2021	1975	1221	2370	1369	1780	2088	2075	1117
Closterium sp.																
Coelastrum sp.					16343											
C. cambricum.....																
C. microporum.....		26813		20301		166357	18897	19398	17556	9768	21977	4692	52212	11136	39421	60323
Cosmarium sp.	271	268				308							297			
C. crenatum.....		1341			1021		295	1616	439		431	587		348	259	559
C. depressum.....																
C. formosulum.....																
C. nitidulum.....																
Crucigenia sp.																
C. lauterbornii.....																
C. quadrata.....					4085											

TABLE IIIA-22 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ X Replicate _____ X

Date: 8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.								19398								
<i>D. ehrenbergianum</i>																
<i>D. pulchellum</i>	17364	38611	575		32686	924	12401		32040	13023	23701	3128	9493	16704		17875
<i>Dinorhochococcus lunatus</i>																
<i>Echinosphaerella linnetica</i>																
<i>Errerella borhemiensis</i>	17364	17160			32686			35563	77685	19535			18986	13920	49795	8938
<i>Eudorina elegans</i>	17364	21451	2298	30451	32686	19716	35431	45262	24139	27675	68085	39102	59332		33197	26816
<i>Franceia</i> sp.																
<i>F. droescheri</i>																
<i>F. ovalis</i>																279
<i>Gleocystis</i> sp.																
<i>G. amula</i>																
<i>G. cicas</i>																
<i>G. planctonica</i>										814						
<i>G. vesticulosa</i>	4341				1021											
<i>G. vesticulosa</i>	47752	122538	2394	94739	105974	195316	77653	137402	89536	103372	93078	93844	175919	135721	191141	221764
<i>Golenkinia paucispina</i>	271									203				348		
<i>G. radiata</i>				211	255									348		
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>																
<i>K. obesa</i>																
<i>K. subsolitaria</i>																
<i>Lagerheimia ciliata</i>					510											
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Microactinium</i> sp.																
<i>M. pusillum</i>	10853					4313		9699		13023				11136		2234
<i>Microstora</i> sp.																
<i>Monocotia</i> sp.	1357	34053	11204	3384	3064	7702		2021	6583	5291	7326			6960	8559	5865
<i>Nephrocotium Agardhianum</i>									439							
<i>N. limneticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-22 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28μ) X Replicate X

Date: 8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Oedocoenium</i> sp.		51750	48550	14803	8682	22797	7234	10103	26334	15669	9911	5865	7713	17748	34734	1396
<i>Oocystis</i> sp.																
<i>O. borei</i>	8954	3218	383	6133	3064		3543	6062	7461	7733	5817	1369	10086	1392	2594	
<i>O. parva</i>		1073		1692		616							2077			
<i>O. solitaria</i>			479	211			148		1317		1939			696		
<i>Pandorina morum</i>	4341		1532		24514	14787	18897			45581	10342		21360	5568	12449	2234
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>		1609		4652		24646			1317		1077					4469
<i>P. borvanum</i>	26047	12870	12257	25165	40857	35120	21702	12932	29845	35814	26717	18964	14240	11136	36568	56977
<i>P. duplex</i>	83024	45851	38017		55157	32655	39122	84866	20628	55349	48263	44380	104424	72385	37346	43291
<i>P. simplex</i>																
<i>P. tetras</i>																
<i>Planktoschaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedricopsis quadrispina</i>																
<i>Quadrigma chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>				1692	3575				1756	814		782	1184	1392	1037	838
<i>S. biradiatum</i>																
<i>S. brasiliensis</i>																
<i>S. denticulatus</i>					1021											
<i>S. dimorphus</i>											1724					
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	2171			1692	3064		148		878	2442		782	2373		519	
<i>Schizoclamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>				1057			295	1616	219		215	196	593	1044		
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-22 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ X _____ Replicate _____ X _____

Date: 8/13/73	10				20				40				60			
	INPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Scenedylosium</i> sp.....									219						259	
<i>Staurastrum</i> sp.																
<i>S. cuspidatum</i>	1357	8044	4979	1480	2553	5545	2510	2829	3731	3459	2586	3714	4747	3828	2075	3352
<i>S. gracile</i>																
<i>Stigeoclonium tenue</i>																
<i>Tetrademus</i> sp.																
<i>T. staurogeniaeforme</i>																
<i>Tetradron caudatum</i>			96													
<i>T. minimum</i>																
<i>T. muticum</i>																
<i>T. pentastetricum</i>																
<i>T. regulare</i>																
<i>Tetraspora</i> sp.																
<i>T. lacustris</i>																
<i>T. lamellosa</i>																
<i>Treubaria</i> sp.																
<i>T. setigerum</i>	271								219				297	348		559
<i>T. triacunculata</i>				211												
<i>Ulothrix</i> sp.					255											
<i>U. subconstricta</i>																
<i>U. subtilissima</i>																
<i>U. zonata</i>																
<i>Uronema</i> sp.																
<i>Volvex</i> sp.																
<i>V. aureus</i>																
<i>Zygema</i> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....					255											
UID filamentous.....																
UID green.....																

TABLE IIIA-22 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28u) _____ X _____ Replicate _____ X

Date: 8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....				1692				1212	1492		1508	391	1780			
UID unicellular.....														2784		
UID zygospore.....																
TOTAL GREENS.....	245001	387991	130617	215275	373838	533266	240786	395233	365339	360786	330471	219165	490969	317030	452287	397446
% of TOTAL.....	61.9	82.0	88.9	60.6	75.4	87.9	69.7	66.4	70.7	73.6	68.3	58.9	41.0	52.4	72.7	71.2
B. EUGLENOIDS																
Euglena sp.											215					
Phacus sp.																
TOTAL EUGLENOIDS.....											215					
% of TOTAL.....											0.04					
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....																
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	3527			1692	1021		295	808	439	1017	862	782	890	4524		559
Cyclotella sp.	814	268			766		295	404	439							
C. bodanica.....																
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. carucina.....	2713				19152		2953				4309		5933	13920	11671	
F. crotonensis.....				7613				2425	4389		215			4176		558
Gomphonema sp.																
Gyrodinium sp.																
Heleosira sp.	2442															
M. binderana.....																

TABLE IIIA-22 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28µ) _____ X Replicate _____ X

Date: 8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NNPE	NMPW	NMPP	FITZ	NNPE	NMPW	NMPP	FITZ	NNPE	NMPW	NMPP	FITZ	NNPE
<u>Navicula</u> sp.																
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. truncatata</u>																
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sirra</u>																
<u>Rhizosolenia</u> sp.							148									
<u>Stechanodiscus</u> sp.																
<u>S. astraea</u>								808								
<u>S. hantzschii</u>	543															
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tatellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	10039	268	0	9305	20939	0	3691	4445	5267	1017	5267	782	6823	22620	11671	11170
% of TOTAL.....	2.5	.06		2.6	4.2		1.1	.75	1.0	.21	1.1	.21	.57	3.7	1.9	2.0
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Mallanonas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-22 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28u) _____ x Replicate _____ x _____

Date: 8/13/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. quadruplicatum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>																
<i>A. flos-aquae</i>																
<i>A. spiroides</i>	2713				10214	7702	7382		29626	7122	15082	3910	16020	17400	5187	34912
<i>Anacystis</i> sp.						9242					4309					
<i>A. cyanea</i>																
<i>A. discorsus</i>																
<i>A. limneticus</i>																
<i>A. minutus</i>																
<i>A. minor</i>																
<i>A. Prescotti</i>																
<i>Aphanocapsa</i> sp.																
<i>A. endophytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>	543	536	575		1532	308	295		1756	1424	2155	1955	1780	1392	1297	2793
<i>Aphanothece</i> sp.																
<i>Chroococcus</i> sp.						924	1181						1780			
<i>C. limneticus</i>		2145			2042		591			1628						4469
<i>C. minutus</i>																
<i>Coclosphaerium Kuetzingianum</i> ...																
<i>C. Paecelianum</i>			1915	10573		15403	21554	36371		30523	1724	19551	103831	34800	30903	13965
<i>Gloeocapsa</i> sp.							2362				10773			104401		
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphosphaeria</i> sp.					8171											
<i>G. aspinosa</i>																
<i>G. lacustris</i>	52093	18769		63441	16343	22181		40412	10972	13023	64638	48877	103831		49795	41895
<i>Lyneba</i> sp.																

TABLE IIIA-22 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net(>28µ) X Replicate _____ X

Date: 8/13/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>													297			
<i>Merismocedia tenuissima</i>													355992			
<i>Microcystis aeruginosa</i>		53627	11491			9242	22146	80825	65835	34593	2155	53765	59332	69601	10374	13965
<i>M. incerta</i>																
<i>Mostoe</i> sp.				1480				2425								
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>							11810		4828		4740	2737	8603	4812	3890	6703
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	55349	75077	13981	75494	38302	65002	67321	160033	113017	88313	105576	130795	651466	232466	101446	118702
% of TOTAL.....	14.0	15.9	9.5	21.3	7.7	10.7	19.5	26.9	21.9	18.0	21.8	35.1	54.4	38.4	16.3	21.2
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>	543	1878	1819	1057	2042	924	738	1212	1317	1221	2155		2967	696	778	559
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>	67016	804	287	22627	24003	616	2214	8082	878	2238	1939	1760	1483	4524	1556	5137
<i>G. quadridens</i>	543				255								297	348		
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>	16822	6971	192	31509	36516	6778	30855	26268	31162	36425	37921	19746	42422	26796	45905	25416
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	84924	9653	2298	55193	62816	8318	33807	35562	33357	39884	42015	21506	47169	32364	48239	31112
% of TOTAL.....	21.5	2.0	1.6	15.5	12.7	1.4	9.8	5.9	6.5	8.1	8.7	5.8	3.9	5.3	7.7	5.6

TABLE IIIA-22 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net(>28 μ) X Replicate X

	10				20				40				60			
	NMW	NMPP	FITZ	NMPE	NMFW	NMFP	FITZ	NMFE	NMFW	NMFP	FITZ	NMFE	NMFW	NMFP	FITZ	NMFE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	395313	472989	146896	355267	495895	606586	345605	595273	516980	490000	483544	372248	1196427	604480	621643	558430

TABLE IIIA-23

Nine Mile Point Phytoplankton
cells/L

Whole Water Net (>28µ) X Replicate X

Date: 8/23/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
Actinastrum sp.....																
A. gracillimum.....																
A. hantzschii.....																
Ankistrodesmus sp.																
A. convolutus.....	116	188	128													
A. falcatulus.....																
Arthrodesmus sp.																
Botryococcus Braunii.....																
B. protuberans.....																
B. subceticus.....																
Carteria cordiformis.....																
Characium sp.....																
C. ornithocephalum.....																
Chlamydomonas sp.		2260	255		132	192	295		205	894			365	211		
C. epiphytica.....																
C. pseudocertvi.....																
Chorella ellipsoidea.....																
C. vulgaris.....																
Chlorococcum sp.																
Chodatella sp.																
Cladophora filament.....																
Closteriopsis longissima.....	231	565	128	183	132	766	1033	255	205	255	1232		183	633		622
Closterium sp.																
Coelastrum sp.																
C. canaliculatum.....	7405							27579				21087				
C. microdonum.....	19439	6024	28600	11684	4213	3064	24507		29576	15322	39433			77679		622
Cosmarium sp.	116		255							1021						156
C. ornatum.....		565					148	128			308	559	365	422		622
C. depressum.....								128				140				
C. formosulum.....																
C. nitidulum.....																
Crucigerina sp.																
C. lauterbornii.....																
C. quadrata.....			2043													249

TABLE IIIA-23 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28u) _____ X Replicate _____ X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.	2777		4086			6129	2362		9037					23642		3796
<i>D. ehrenbergianum</i>	22679	31629	61797		31469	24515	28935	15577	8216	30132	2465	13406	5842	2533		
<i>D. pulchellum</i>																
<i>Dinorhynchococcus lunatus</i>																
<i>Echinosphaerella lianatica</i>																9959
<i>Errerella borheniensis</i>		12049	32686		2107	12257	17125				19716			6755		7469
<i>Eulorina elongans</i>	1851	18073	15066	42354		15322	14468	2043	6572	5107	2465	7820	9493			
<i>Fraancia</i> sp.																
<i>F. droescheri</i>																
<i>F. ovalis</i>												279				
<i>Gleocystis</i> sp.																
<i>G. arula</i>		753									308					
<i>G. gigas</i>								128								
<i>G. planctonica</i>	926	1506						1532			1232			844		14316
<i>G. vesiculosa</i>	29853	41795	9193	14240	13694	19918	67024	27196	6367	18897	42976	26394	12049	29552		
<i>Golenkinia paucispina</i>						192										
<i>G. radiata</i>																
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>					2107											
<i>Kirchneriella lunaris</i>																
<i>K. cbesa</i>																
<i>K. subsolitaria</i>														211		
<i>Lagerheimia ciliata</i>																
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Microactinium</i> sp.																
<i>M. pusillum</i>	1851					4596				9193	1232			21109		
<i>Microsetora</i> sp.																
<i>Mougeotia</i> sp.	3934	2259	8044	1095		2490	2067	2554	2465	1915	2311	4888		2111		11826
<i>Nechrocyclus Agardhianus</i>																
<i>N. lianaticus</i>																
<i>N. lunatum</i>																

TABLE IIIA-23 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ X Replicate _____ X

Date: 8/23/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>	3587			548	1975	575	2214		2875	3830	6161	279 698	2556	6755		2179
<i>Cedronium</i> sp.																
<i>Oocystis</i> sp.	926	941	3064	730	1053	5937	2067	1149	5956	3320	6315	838	3104	1267		1311
<i>O. boreal</i>	463								822				365	844		622
<i>O. farva</i>				183			591					140				
<i>O. solitaria</i>				5842	6320	7661	3543				28342			3377		4990
<i>Pandorina norum</i>	7405	12049	26557													
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>			4086							2043						
<i>P. borvianum</i>			4086	11684	5398	6129	12991	12257	3286	5107	19716	1117	4381	10132		6847
<i>P. duplex</i>	26960	2824	20429	26289	9875	70479	40155	8938		4341	3851	16898	5842	18575		622
<i>P. simplex</i>	8331	42736														
<i>P. tetras</i>																
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polyedriopsis quadrispina</i>														844		
<i>Quadrigula Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>				730	263						154	559				
<i>S. biuga</i>																
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>	926															
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	694	753			1053		591	511	1232							1245
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>			128			383	148						183	211		
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-23 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X Replicate _____ X

Date: 8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....	347		128							894						
<u>Staurastrum</u> sp.																
<u>S. cuspidatum</u>							295									
<u>S. gracile</u>	926	377	894	183		958	295	511		128	770	140		633		778
<u>Sticeoclonium tenue</u>						5363								633		
<u>Tetradasmus</u> sp.																
<u>T. staurogeniaeforme</u>																
<u>Tetraedron caudatum</u>																
<u>T. minimum</u>																
<u>T. naticum</u>																
<u>T. pentadricum</u>																
<u>T. regulare</u>																
<u>Tetrascora</u> sp.																
<u>T. lacustris</u>				2921			1772									
<u>T. lamellosa</u>																
<u>Treubaria</u> sp.						192				255	154					
<u>T. setigerum</u>																
<u>T. triacendiculata</u>																
<u>Ulothrix</u> sp.																
<u>U. subconstricta</u>																
<u>U. subtilissima</u>																
<u>U. zonata</u>																
<u>Uronema</u> sp.																
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygnema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....		377									616	698				
UID filamentous.....																
UID green.....																

TABLE IIIA-23 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28µ) X _____ Replicate X _____

Date: 8/23/73

	10				20				40				60			
	IMPW	NMPW	FITZ	NMPE	NMPW	NMPW	FITZ	NMPE	NMPW	NMPW	FITZ	NMPE	IMPW	NMPW	FITZ	NMPE
UID quadriflagellate.....						1149	886		1643				365	2955		
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	141859	177723	221653	118666	79791	188459	223512	100486	78457	102654	179757	95940	45093	211928		68231
% of TOTAL.....	38.5	33.7	38.4	41.6	33.7	29.8	26.6	18.1	8.5	34.8	20.9	22.9	11.0	38.4		45.2
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....																
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....	116						148			128		140				156
Cyclotella sp.																
C. bodanica.....																
C. conta.....																
C. monaquiniana.....																
Gymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.																
F. caucasia.....						3064			4108					2533		2334
F. crotonensis.....		13179	2554	1826			5905	1915	20539		6932		3651			1322
Gomphonema sp.																
Gomphonema sp.																
Helosira sp.	810	941	3064				1772						730			934
M. binderana.....																

TABLE IIIA-23 (continued)

Nine Mile Point Phytoplankton
cell/L

Whole Water _____ Net (>28μ) _____ X Replicate _____ X

Date: 8/23/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Meridion</i> sp.																
<i>Navicula</i> sp.																
<i>N. confervacea</i>																
<i>N. truncatata</i>																
<i>Nitzschia</i> sp.		3012										140				
<i>N. acicularis</i>																
<i>N. sigma</i>																
<i>Rhicosphenia</i> sp.																
<i>Stocharodiscus</i> sp.																
<i>S. astraea</i>																
<i>S. hantzschii</i>																
<i>S. niagarae</i>																
<i>Surirella</i> sp.																
<i>Synedra</i> sp.										383						
<i>Tatellaria</i> sp.																
<i>T. fenestrata</i>																
<i>T. flocculosa</i>																
UID pennate.....																
TOTAL DIATOMS.....	926	17132	5618	1826	0	3064	7825	1915	24647	511	6932	280	4381	2533	0	4746
% of TOTAL.....	0.3	3.3	.9	.6		.5	.9	.3	2.6	.2	.8	.1	1.1	.4		3.1
D. GOLDEN-BROWNS																
<i>Dinobryon</i> sp.																
<i>D. bavaricum</i>																
<i>D. cylindricum</i>																
<i>D. divergens</i>																
<i>D. sertularia</i>																
<i>D. sociale</i>																
<i>Mallomonas</i> sp.																
<i>Synura</i> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-23 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28u) X Replicate X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. quadruplicatum</i>								2554								
<i>A. sp.</i>	1389	10543	19152		19224			28090				16060				14005
<i>A. circinalis</i>	5786				5267		9448	7661				2793	4381	2111		23342
<i>A. flos-aquae</i>	20828	9413	8938		3950	15513	73077	14683	48472	10853	6932	36309	20082	4644		
<i>A. spiroides</i>																
<i>A. ovatus</i> sp.																
<i>A. ovata</i>																
<i>A. diatomus</i>																
<i>A. sp.</i>																
<i>A. minimus</i>																
<i>A. minor</i>																
<i>A. Prescotti</i>																
<i>A. charocata</i> sp.		9413									4929			10554		
<i>A. endophytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>A. charocata</i> sp.																
<i>A. flos-aquae</i>	2430	1694	1915		922	2107	2510	2298	616	1404	1848	1257	730	2533		1867
<i>A. charocata</i> sp.																
<i>Chroococcus</i> sp.	463		1021		4608											934
<i>C. limeticus</i>	463		1532			3064	295	511	1232		7394	1676		9288		622
<i>C. minutus</i>							4724							2533		
<i>Coelosphaerium Kuetzingianum</i> ...	24299	30122	32686		18960	95760	44289		20539		49291	6983	27384	84434	0	19918
<i>C. Macellianum</i>		28240	31920		31601	9576	14763	82992	10270	19152	92421	6983	82152	10554		3112
<i>Gloeocapsa</i> sp.																
<i>G. aerocerosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.							4086									
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gonchothraeria</i> sp.																
<i>G. aronina</i>																
<i>G. lacustris</i>	94419	140822	180156		46348	218333	157964	146832	174582	77884	246456	122892	94931	116098		2022
<i>Lyngbya</i> sp.																

TABLE IIIA-23 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) ☒ Replicate ☒

Date: 8/23/73

	10				20				40				60			
	NDPW	NDPP	FITZ	NDPE	NDPW	NDPP	FITZ	NDPE	NDPW	NDPP	FITZ	NDPE	NDPW	NDPP	FITZ	NDPE
<i>L. aerugineo-coerulea</i>						192										
<i>L. Birgei</i>						575										
<i>L. Dicuettii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>	38184	81895	70224	146048	13167	78140	118104	154493	501152	70224	100123	118004	28479	78524		6224
<i>M. incerta</i>	34713				9217		162393		51348		154035		91280			
<i>Noctua</i> sp.																
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>	694	16191	128	18256	3160	13981	17568	5107	13967	11619	7702	6005	8763	8021		1556
<i>Stigeoclonia</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	223668	328333	347672	164304	156424	437241	605135	449307	822178	191136	671131	318962	358182	334694		73602
% of TOTAL.....	60.7	62.3	60.3	57.5	66.1	69.1	72.1	81.1	88.8	64.7	77.9	76.4	87.4	60.6		48.8
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>	1041	2824	1660			2107	1476	1149	616	894	2927	1815	1460	2111		3890
<i>Glenodinium</i> sp.																
<i>G. salustre</i>																
<i>G. pulvisculus</i>	579	188		365	132	575	148					140				
<i>G. quadricens</i>	116						443		616					211		
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>	347	565	383		263	958	443	1149	822		924	140	548	633		311
<i>P. inconspicuum</i>		188		365	132											156
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	2083	3765	2043	730	527	3640	2510	2298	2054	894	3851	2095	2008	2955	0	4357
% of TOTAL.....	.56	.7	.4	.3	.2	.6	.3	.4	.2	.3	.4	.5	.5	.5		2.9

TABLE IIIA-23 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) X Replicate X

Date: 8/23/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	368536	526953	576986	285526	236742	632404	838982	554006	927336	295195	861671	417277	409664	552110		150936

TABLE IIIA-24

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28u) _____ X Replicate _____ X

Date: 9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP					No sample											
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>	16688	4929	2464	750		18386	7792	30841	16430				1596	4692		2037
<i>A. hantzschii</i>																
<i>Arthrodesmus</i> sp.																
<i>A. convolutus</i>										394						291
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus</i> Braunii.....																
<i>B. protuberans</i>																
<i>B. subeticus</i>			19712	12000			15584									
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.	188	616	308			287	487				303	262		196		
<i>C. epiphytica</i>	750										1513	262			285	
<i>C. pseudocortyi</i>																
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>																
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora</i> filament.....																
<i>Closteropsis longissima</i>	188	308	616	188		287	244	605	1027	394	303			587	856	
<i>Closterium</i> sp.																
<i>Coelastrum</i> sp.																
<i>C. caribricum</i>	22500		70840						10960	15746	14520	787				78558
<i>C. microcorum</i>	1500	125693	26488	58500		32175	35064	200770	19180	53536	4235		81396	34410	74165	6983
<i>Cosmarium</i> sp.																
<i>C. crenatum</i>																
<i>C. depressum</i>											605					291
<i>C. formosulum</i>											303					
<i>C. nitidulum</i>																
<i>Crucigenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>																

TABLE IIIA-24 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X Replicate _____ X

Date: 9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Dactylococcus infusionum</i>																
<i>Dictyosphaerium</i> sp.				1875			31168					14696				
<i>D. ehrenbergianum</i>		12323		19121		9768		43843	27400	9447	18150	18895	27132	12513	29951	55863
<i>D. pulchellum</i>															18256	
<i>Diporhrococcus lunatus</i>																
<i>Echinosphaerella limnetica</i>	2250	9858	29568				39447			23619	19360	16796				18621
<i>Errerella borheniensis</i>	1500	9858	43120	3000		4796	23376	4838		6298		2099	798	1564	9128	4655
<i>Eudorina elegans</i>																
<i>Fraxella</i> sp.																
<i>F. brooscheri</i>																
<i>F. ovalis</i>																
<i>Gleocystis</i> sp.																
<i>G. acuta</i>															782	
<i>G. gigas</i>															978	
<i>G. planctonica</i>			1232													1164
<i>G. vesticulosa</i>	3000	2711		28500		34474			2740	12597	12100	12859	256	782		7856
<i>Golenkinia paucispina</i>																
<i>G. radiata</i>				188		287							200			
<i>Gonium</i> sp.																
<i>G. sociale</i>																
<i>Hyalotheca</i> sp.																
<i>H. dissiliens</i>																
<i>Kirchneriella lunaris</i>																
<i>K. chesa</i>																
<i>K. subsp. lunaris</i>																
<i>Lagerheimia ciliata</i>																
<i>L. longiseta</i>																
<i>L. subsalsa</i>																
<i>L. quadriseta</i>																
<i>Micractinium</i> sp.																
<i>M. pusillum</i>	24000			10500		9193		29027	7535	1181	1815		25935	6256		3491
<i>Microsetera</i> sp.																
<i>Mougeotia</i> sp.	1313	924		750		4022	3653			3149		4724	2195			2910
<i>Nephrocystis Agardhianum</i>																
<i>N. limneticum</i>																
<i>N. lunatum</i>																

TABLE IIIA-24 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28μ) _____ X Replicate _____ X

Date: 9/21/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesum</i>		3389	2772	2250			2435	3628	10960		7563		399	5474	856	
<i>Oedocoonium</i> sp.																
<i>Oocystis</i> sp.	188	2465	2464	188		2586	9740		1370		2420				3423	1164
<i>O. borei</i>				750				2419								
<i>O. parva</i>	188		308					4838			2420				4564	291
<i>O. solitaria</i>																
<i>Pandorina morum</i>												6384				
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. borvanum</i>	5250	30807							8220							
<i>P. duplex</i>	4500	33272	42196	27000		22982	50648	77405		6298	3630	16796	3192	26198	27384	13675
<i>P. simplex</i>	34125	148490	121660	163500		133298	98374	110968	110970	13544	65945	81353	173964	55134	144907	56445
<i>P. tetras</i>																
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedriopsis quadrispina</i>																
<i>Quadrigula chodatii</i>																
<i>Q. lacustris</i>											2116					
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>	375	1232					1948			394	1210	1050	599			
<i>S. biradiatum</i>																
<i>S. brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dinorplus</i>						3447	1948									
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>	2250		1232	750			974			1575			798	1564		
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>							487		343	787	303					
<i>Selenastrum minutum</i>																
<i>S. Westii</i>				3000												
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE IIIA-24 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) X Replicate X

Date: 9/21/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>Spondylosium</i> sp.....														1564		
<i>Staurastrum</i> sp.														196	285	
<i>S. cuspidatum</i>	563	616		188		287	487	302		1575			200		571	
<i>S. gracile</i>																
<i>Stigeoclonium tenue</i>																
<i>Tetraodon</i> sp.																
<i>T. stauromeniaeformis</i>																
<i>Tetraodon caudatus</i>																
<i>T. minutum</i>																
<i>T. muticum</i>																
<i>T. pentadricum</i>																
<i>T. regulare</i>																
<i>Tetraspora</i> sp.																
<i>T. lacustris</i>																
<i>T. laetissima</i>																
<i>Trebouhia</i> sp.													200			
<i>T. setigerum</i>																
<i>T. trioculata</i>																
<i>Ulothrix</i> sp.....	375															
<i>U. subconstricta</i>																
<i>U. subtilissima</i>																
<i>U. zonata</i>																
<i>Uronema</i> sp.																
<i>Volvax</i> sp.																
<i>V. aureus</i>																
<i>Zygema</i> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....																

TABLE IIIA-24 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28µ) ☒ Replicate ☒

Date: 9/21/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....	563			1688		2586	244	1370		2756	3025					
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	122254	411890	364980	334686		278861	324100	510854	217135	275160	161839	170841	332893	152890	314631	254586
% of TOTAL.....	39.7	59.5	73.1	44.8		46.0	41.2	69.8	36.4	22.6	43.8	32.4	65.5	59.4	31.2	54.5
B. EUGLENOIDS																
<u>Euglena</u> sp.																
<u>Phacus</u> sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
<u>Achnanthes</u> sp.																
<u>Asterionella formosa</u>							1218									
<u>Cocconeis</u> sp.																
<u>Coccinodiscus</u> sp.																
<u>C. subtilis</u>											605	262				
<u>Cyclotella</u> sp.	1875	616	308				244						200			291
<u>C. bodanica</u>																
<u>C. conta</u>																
<u>C. meneschiniana</u>																
<u>Cymbella</u> sp.																
<u>Diatoma</u> sp.																
<u>D. elongatum</u>																
<u>Fragilaria</u> sp.																
<u>F. capucina</u>	56250	92421		78750		41656	265415	51402	64046			26243	33915	3910	299513	29096
<u>F. crotonensis</u>			61600	3750					2055	2362					571	
<u>Gomphonema</u> sp.																
<u>Gyrodinium</u> sp.																
<u>Melosira</u> sp.	3750						974	9071	10275		1210	3936	5985	1760	1426	873
<u>M. hinderana</u>																

TABLE IIIA-24 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28 μ) _____ X _____ Replicate _____ X _____

Date: 9/21/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.																
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. triuncinata</u>																
<u>Nitzschia</u> sp.	1125														3128	
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Phaeoschania</u> sp.																
<u>Pschednodiscus</u> sp.																
<u>S. astraea</u>	186		308	938		3447	386	302	1713	4330		1199	3591	3910	1997	582
<u>S. hantzschii</u>																
<u>S. niagarae</u>																
<u>Surirella</u> sp.	186															
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.																
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate.....																
TOTAL DIATOMS.....	63372	93037	62216	83438		45103	271747	60775	78089	6692	1815	34902	43691	12708	303507	30842
% of TOTAL.....	20.6	13.4	12.5	11.2		7.4	34.5	8.3	13.1	0.5	0.5	6.6	8.6	4.9	30.1	6.6
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Hallaxinas</u> sp.																
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS.....																
% of TOTAL.....																

TABLE IIIA-24 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net (>28µ) _____ X Replicate _____ X

	10				20				40				60			
	IMPW	IMPP	FITZ	NMPE	IMPW	IMPP	FITZ	NMPE	IMPW	IMPP	FITZ	NMPE	IMPW	IMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Achnanthes punctata</i>																
<i>A. quadriduplicatum</i>																
<i>Anabaena</i> sp.		6161					6088					5245		12904		
<i>A. circinalis</i>	10313						6088					10497	4988	3128		
<i>A. flos-aquae</i>		10782		3750		5746	4870	6047	13700	7973	12203	6561			15689	21240
<i>A. spiroides</i>																
<i>Anacystis</i> sp.																
<i>A. cyanea</i>																
<i>A. dispersus</i>																
<i>A. limneticus</i>																
<i>A. minutus</i>																
<i>A. minor</i>																
<i>A. Prescottii</i>																
<i>Achnanthes</i> sp.																
<i>A. endothylica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Achnanthes</i> sp.																
<i>A. flos-aquae</i>	5813	5545		3375		2873	1948	907	3766	3543	2116	6298	8479	5474	856	2910
<i>Achnanthes</i> sp.			1232				487	1512					798	1173	1141	
<i>Chroococcus</i> sp.			7392	1688		2298	974		2055	3149						
<i>C. limneticus</i>						1724				1575						
<i>C. minutus</i>						22982	27272		17125	118094		26243	65436	31282	105543	29096
<i>Coelosphaerium Kuetzingianum</i> ...						8618	12175	45356	119875	157458	54450	39365	9975	9776	85575	58191
<i>C. Naegelianum</i>	18750	15404		46875				2419								
<i>Gloeocapsa</i> sp.																
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphosphaeria</i> sp.																
<i>G. azonina</i>	26250	103512	59136	18750		123530	103244	77405	68500	19682	90750	29392	38304	24634	91280	
<i>G. lacustris</i>																
<i>Lynebya</i> sp.																

TABLE IIIA-24 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) _____ X Replicate _____ X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 9/21/73																
<i>L. aerugineo-coerulea</i>																
<i>L. Birgei</i>									343							
<i>L. Diquetii</i>																
<i>L. limnetica</i>				188												
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>	48750	40049		54325		100548	24350	24189		403880					88426	65465
<i>M. incerta</i>				187500					68500	196823	54450	188950				
<i>Nostoc</i> sp.																
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>				1500				302								
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>	4500			9375		5458			6165	4724	3025	7610		1369		4073
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	114376	181453	67760	327326		27377	187496	158137	300029	929104	204741	320161	127980	89740	388510	180975
% of TOTAL.....	37.1	26.3	13.6	43.8		45.2	23.8	21.6	50.2	76.2	55.4	60.7	25.2	34.9	38.5	38.7
F. DIKOFAGELLATES																
<i>Ceratium hirundinella</i>		616	616	938		862	731	302		394	303		599	196	571	291
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>	6938	4005	3388	375		6033	2192	1209	1370	2756	303	1050	1397	1564	285	291
<i>G. quadridens</i>	188					287				394			998	391		
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>	750	616		563		862	731	302	685	3936	303	787	599		856	291
<i>P. inconspicuum</i>		308					731	302			303					
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DIKOFAGELLATES.....	7876	5545	4004	1876		8044	4385	2115	2055	7480	1212	1837	3593	2151	1712	873
% of TOTAL.....	2.6	0.8	0.8	0.3		1.33	0.6	0.3	0.3	0.6	0.3	0.3	0.7	0.8	0.2	0.2

TABLE IIIA-24 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net(>28 μ) X Replicate X

Date: 9/21/73

	10				20				40				60			
	ISW	NMP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	ISW	NMP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
<u>Bacteriastrum</u> sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	307878	691925	498960	747326		605785	787728	731881	597308	1218436	36957	527741	508157	257489	1008360	467276

TABLE IIIA-25

Nine Mile Point Phytoplankton

cells/L

Whole Water _____ Net (>28μ) X Replicate X

Date: 10/25/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
Actinastrum sp.....																
A. gracillimum.....																
A. hantzschii.....																
Ankistrodesmus sp.																
A. convolutus.....																
A. falcatus.....																
Arthrodesmus sp.																800
Botryococcus Braunii.....																
B. protuberans.....																
B. sudeticus.....																
Carteria cordiformis.....	300					900							1300			
Characium sp.....																
C. ornithocephalum.....																
Chlamydomonas sp.																
C. epiphytica.....																
C. pseudocertyi.....																
Chorella ellipsoidea.....																
C. vulgaris.....																
Chlorococcum sp.																
Chodatella sp.																
Cladophora filament.....	2500	2600	3500	2100	3300	2000	3700	6700	3800	3800	3100	5100	3200	2100	3500	2500
Closteriopsis longissima.....																
Closterium sp.	3900															
Coelastrum sp.																
C. carbricum.....																
C. microporum.....					23200											
Cosmarium sp.		300				400		200	800	3400	1300	500	1000	300	300	300
C. crenatum.....										700						
C. depressum.....																
C. formosulum.....																
C. nitidulum.....																
Crucigenia sp.																
C. lauterbornii.....																
C. quadrata.....																

TABLE IIIA-25 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28µ) ☒ Replicate ☒

Date: 10/25/73

	10				20				40				60			
	NDPW	NDPP	FITZ	NDPE	NDPW	NDPP	FITZ	NDPE	NDPW	NDPP	FITZ	NDPE	NDPW	NDPP	FITZ	NDPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.																
<u>D. ehrenbergianum</u>																
<u>D. sulcellum</u>																
<u>Dimorhococcus lunatus</u>																
<u>Echinosthaerella limnetica</u>																
<u>Errerella borhamiensis</u>																
<u>Eudorina elegans</u>	2800									3400	12500		10300			
<u>Fraconia</u> sp.																
<u>F. Droscheri</u>																
<u>F. ovalis</u>																
<u>Gleocystis</u> sp.			4300				1300									2500
<u>G. aspla</u>																
<u>G. gigas</u>																
<u>G. planctonica</u>																
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>																
<u>G. radiata</u>																
<u>Gonium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.																
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>																
<u>K. obesa</u>																
<u>K. subsolitaria</u>																
<u>Lagerheimia ciliata</u>																
<u>L. longiseta</u>																
<u>L. subsalsa</u>																
<u>L. quadriseta</u>																
<u>Micractinium</u> sp.																
<u>M. pusillum</u>																
<u>Microscora</u> sp.																
<u>Mougeotia</u> sp.																
<u>Nephrocystis Agardhianum</u>																
<u>N. limneticum</u>																
<u>N. lunatum</u>																

TABLE IIIA-25 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) _____ X Replicate _____ X

Date: 10/25/73	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Cedogonium</i> sp.		1000	1600				1900	1100	1500			5800				
<i>Oocystis</i> sp.																
<i>O. Borgesi</i>																
<i>O. parva</i>																
<i>O. solitaria</i>	5600			11200	3900	5700				4100				4800		
<i>Pandorina morum</i>																
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>		3800											1900			
<i>P. Eorvanum</i>			16700	6400			5300		8300	3400	3100					4400
<i>P. dunlex</i>	10400	14100	13200	10000			39900	25700	2300	12700	1800	36900		5400	10100	14900
<i>P. simplex</i>																
<i>P. tetras</i>	300	1800	13900					900	3800			900	12900		1600	1100
<i>Planktosphaeria</i> sp.																
<i>Pleodorina californica</i>																
<i>Polvedricosis quadrispina</i>																
<i>Quadrigula chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>																
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>										1400						
<i>S. longus</i>																
<i>S. obliquus</i>	1100				2400					4400						
<i>S. quadricauda</i>																
<i>Schizochlamys gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum minutum</i>																
<i>S. Westii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

Nine Mile Point Phytoplankton
cells/L

Date: 10/25/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Spondylosium sp.....	2000	4600	400	1200	3000	400	7700	2700	1900	2400	1500	2200	1900	900	4100	3100
Staurastrum sp.																
S. cuspidatum.....																
S. gracile.....																
Stigeoclonium tenue.....																
Tetradasmus sp.																
T. staurogeniaeforme.....																
Tetraedron caudatum.....																
T. minimum.....																
T. muticum.....																
T. pentadetricum.....																
T. regulare.....																
Tetrastora sp.																
T. lacustris.....																
T. laevis.....																
T. laevigata.....																
T. setigerum.....																
T. tripartita.....																
Ulothrix sp.....																
U. subconstricta.....	11300	24800	25700	16700	61800	61300	23600	22700	7600		39600	41800	68300	19200	21500	21400
U. subtilissima.....	22500	41400		9300	300	38600				22300	29400		6400			
U. zonata.....							14700			3000		3200	29200		7600	17200
Uronema sp.																
Volvox sp.....																
V. aureus.....																
Zygomena sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....			11300									2400				17200

TABLE IIIA-25 (continued)

Nine Mile Point Phytoplankton

cell/L

Whole Water _____ Net (>28u) _____ X _____ Replicate _____ X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 10/25/73																
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	62700	94400	95700	56900	97900	109700	98100	60000	30000	66400	110200	108100	136400	32700	48700	93200
% of TOTAL.....	17.8	32.5	18.0	20.6	38.5	21.8	11.8	10.1	11.5	21.3	17.4	14.0	41.7	31.4	7.3	20.6
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....	12700	15100	18700	11900	37200	30100	5900	20200	19300	14100	4900	8100	27400	7800	17700	17200
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....			1200					700				1500	300			800
Cyclotella sp.	800	1800		1400	1500	2000				1400	1000		1900	900		
C. bodanica.....			1200				2900	2200	2600			500			1900	1900
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.																
D. elongatum.....																
Fragilaria sp.	53400	109900	64200	107500	10200	97500	63700	81500	14000	92800	137900	79700	74100	21600		49700
F. capucina.....		10500	18700	6400	3300		16700	30900	68800	13800		42300	6400		90600	
F. crotonensis.....																
Gomphonema sp.																
Gyrodinium sp.																
Helosira sp.																
M. binderana.....	3400	5900	9700	6400	21000	44700					134800	4400				

TABLE IIIA-25 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water ☒ Net (>28μ) ☒ Replicate ☒

Date: 10/25/73

	10				20				40				60			
	RMFW	NMPP	FITZ	NMPE	RMFW	NMPP	FITZ	NMPE	RMFW	NMPP	FITZ	NMPE	RMFW	NMPP	FITZ	NMPE
<u>Meridion</u> sp.																
<u>Navicula</u> sp.																
<u>N. confervacea</u>																
<u>N. triuncinata</u>					800											
<u>Nitzschia</u> sp.																
<u>N. acicularis</u>																
<u>N. sigma</u>																
<u>Rhodocosthonia</u> sp.																
<u>Storhamondiscus</u> sp.		500	1700		300	400		500		300			1000			
<u>S. astraea</u>																
<u>S. hantzschii</u>																
<u>S. niagarae</u>																
<u>Surirella</u> sp.																
<u>Synedra</u> sp.																
<u>Tabellaria</u> sp.	23900		9300	13100	13500	21900	9700	9500		14100	23500	2200		1500	6600	15300
<u>T. fenestrata</u>																
<u>T. flocculosa</u>																
UID pennate																
TOTAL DIATOMS	94200	443700	124700	146700	87000	196600	98900	145500	105500	136500	302100	138700	111100	31800	116800	84900
% of TOTAL	26.8	49.4	23.5	53.1	34.2	39.1	11.9	24.5	40.4	43.9	47.6	17.9	33.9	30.5	17.4	18.8
D. GOLDEN-BROWNS																
<u>Dinobryon</u> sp.																
<u>D. bavaricum</u>																
<u>D. cylindricum</u>																
<u>D. divergens</u>																
<u>D. sertularia</u>																
<u>D. sociale</u>																
<u>Hallamonas</u> sp.			1200					500							300	600
<u>Synura</u> sp.																
TOTAL GOLDEN-BROWNS			1200					500							300	600
% of TOTAL			0.2					0.1							0.1	0.1

TABLE IIIA-25 (continued)

Nine Mile Point Phytoplankton

cells/L

Whole Water _____ Net (>28μ) _____ x _____ Replicate _____ x _____

Date: 10/25/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Amenellum punctata</i>																
<i>A. quadruplicatum</i>								40500							12700	24700
<i>Anabaena</i> sp.																
<i>A. circinalis</i>	111400						8300		5700							
<i>A. flos-aquae</i>																
<i>A. strioides</i>																
<i>A. acutis</i> sp.		2000	71900			60900	6700	200		24100	56200	36700	1000	25500	1300	10300
<i>A. cyanea</i>			6200				5300								5100	
<i>A. dispersus</i>				14300	1800		7700	9900	5300			14700			21500	6400
<i>A. limneticus</i>								8200				3400			1300	
<i>A. minor</i>								7900								
<i>A. prescottii</i>																
<i>Aphanocapsa</i> sp.																
<i>A. endorhytica</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Aphanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanethece</i> sp.																
<i>Chroococcus</i> sp.										700						
<i>C. limneticus</i>																
<i>C. minor</i>																
<i>Coelosphaerium Kuetsingianum</i> ...																
<i>C. Macellianum</i>																
<i>Gloeocapsa</i> sp.								6700				12700				
<i>G. aerogenosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphosphaeria</i> sp.							603300	312500				406900			447100	229200
<i>G. acutina</i>								500								
<i>G. lacustris</i>	82400	50300	204200	58500	66900	135700	165800		113300	79100			77300	13500		
<i>G. lacustris</i>			26400													
<i>G. sp.</i>																

TABLE IIIA-25 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net(>28 μ) _____ X Replicate _____ X

Date: 10/25/73

	10				20				40				60			
	IMPW	INPP	FITZ	NMPE	IMPW	INPP	FITZ	NMPE	IMPW	INPP	FITZ	NMPE	IMPW	INPP	FITZ	NMPE
<i>L. aeruginoso-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Diquetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.												43900	1000	600	12700	
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stictonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	193800	52300	308700	72800	68700	196600	631300	386400	124300	103900	222000	525600	79300	39600	501700	270600
% of TOTAL.....	55.0	18.0	58.1	26.3	27.0	39.1	76.2	65.1	47.6	33.4	35.0	68.0	24.2	38.0	74.9	59.8
F. DINOFLAGELLATES																
<i>Ceratium</i> sp.					900					300						
<i>Glenodinium</i> sp.	300	300	800		400	300	700		1100	4100		900	600		1900	3300
<i>G. palustre</i>																
<i>G. pulvisculus</i>																
<i>G. quadridens</i>																
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>																
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....																
TOTAL DINOFLAGELLATES.....	300	300	800		900	400	300	700	1100	4400		900	600		1900	3300
% of TOTAL.....	0.1	0.1	0.2		0.3	0.1	0.1	0.1	0.4	1.4		0.1	0.2		0.3	0.7

TABLE IIIA-25 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water Net(>28 μ) X Replicate X

Date: 10/25/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrum sp.....	1100															
UID branched filament.....																
TOTAL OTHERS.....	1100															
% of TOTAL.....	0.3															
GRAND TOTAL.....	352100	290700	531100	276400	254500	503300	828600	593100	260900	311200	634300	773300	327400	104100	669400	1152600

TABLE IIIA-26

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) X Replicate X

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
GROUP																
A. GREENS																
<i>Actinastrum</i> sp.....																
<i>A. gracillimum</i>																
<i>A. hantzschii</i>																
<i>Arthrodesmus</i> sp.																
<i>A. convolutus</i>																
<i>A. falcatus</i>																
<i>Arthrodesmus</i> sp.																
<i>Botryococcus Braunii</i>																
<i>B. protuberans</i>																
<i>B. sulfeticus</i>																
<i>Carteria cordiformis</i>																
<i>Characium</i> sp.....																
<i>C. ornithocephalum</i>																
<i>Chlamydomonas</i> sp.														100		
<i>C. cisthytica</i>																
<i>C. pseudocertyi</i>																
<i>Chorella ellipsoidea</i>																
<i>C. vulgaris</i>		200								100						
<i>Chlorococcum</i> sp.																
<i>Chodatella</i> sp.																
<i>Cladophora filament</i>																
<i>Closteropsis longissima</i>	1200	1100	6300	700	900	4400	1400	1600	1400	900	4900	800	1100	500	4400	2800
<i>Closterium</i> sp.																
<i>Coelastrum</i> sp.																
<i>C. canaliculatum</i>																
<i>C. microporum</i>		3000														
<i>C. microporum</i>		200	400				100						100			
<i>Coscinodiscus</i> sp.																
<i>C. crateratum</i>																
<i>C. depressum</i>																
<i>C. formosulum</i>																
<i>C. nitidulum</i>																
<i>Cricotocenia</i> sp.																
<i>C. lauterbornii</i>																
<i>C. quadrata</i>						2100										

TABLE IIIA-26 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28 μ) _____ X _____ Replicate X

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<i>N. obesus</i>																
<i>Codogonium</i> sp.		400														
<i>Cocystis</i> sp.																
<i>O. Borrei</i>																
<i>O. parva</i>																
<i>O. solitaria</i>																
<i>Pandorina</i> <i>porum</i>						200	11900	6100				3400	3000			6900
<i>Pediastrum</i> sp.																
<i>P. biradiatum</i>																
<i>P. Borvanum</i>																
<i>P. duplex</i>		6000				14900	1800	8200					800	5300		
<i>P. simplex</i>	1200		8400	4300	1100		1900					3900	3400		6400	
<i>P. tetras</i>							5900	13800		600		13500	3000			4900
<i>Planktosphaeria</i> sp.																
<i>Pleodorina</i> <i>californica</i>																
<i>Polvetriopsis</i> <i>quadrispina</i>																
<i>Quadrigula</i> <i>Chodatii</i>																
<i>Q. lacustris</i>																
<i>Scenedesmus</i> sp.																
<i>S. abundans</i>																
<i>S. acuminatus</i>																
<i>S. bijuga</i>																
<i>S. biradiatum</i>																
<i>S. Brasiliensis</i>																
<i>S. denticulatus</i>																
<i>S. dimorphus</i>																
<i>S. longus</i>																
<i>S. obliquus</i>																
<i>S. quadricauda</i>																
<i>Schizochlamys</i> <i>gelatinosa</i>																
<i>Schroederia</i> sp.																
<i>S. setigera</i>																
<i>Selenastrum</i> <i>minutum</i>																
<i>S. Vestii</i>																
<i>Sphaerocystis</i> sp.																
<i>S. Schroteri</i>																

TABLE.IIIA-26 (continued)

Nine Mile Point Phytoplankton
cells/LWhole Water _____ Net (>28μ) x Replicate x

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Spondylosium</u> sp.....	1600	800	400	500	900	500	1400	900	1700	200	1800	800	500	700	2000	1900
<u>Staurastrum</u> sp.....																
<u>S. cuspidatum</u>																
<u>S. gracile</u>																
<u>Sticoclonium tenue</u>																
<u>Tetradococcus</u> sp.																
<u>T. staurogoniaeforme</u>																
<u>Tetradron caudatum</u>																
<u>T. minimum</u>																
<u>T. muticum</u>																
<u>T. neutrodricum</u>																
<u>T. regulare</u>																
<u>Tetraspora</u> sp.																
<u>T. lacustris</u>																
<u>T. larellosa</u>																
<u>Treubaria</u> sp.																
<u>T. setigerum</u>																
<u>T. triacanthiculata</u>																
<u>Ulothrix</u> sp.....																
<u>U. subconstricta</u>					8800	13300								800		
<u>U. subtilissima</u>	8900	7400	9700		2900				5100	4500			7600			12100
<u>U. zonata</u>																
<u>Uronema</u> sp.				3600	2600											20800
<u>Volvox</u> sp.																
<u>V. aureus</u>																
<u>Zygnema</u> sp.																
UID biflagellate.....																
UID crescent-shaped cell.....																
UID colony.....																
UID 3-celled colony.....																
UID 4-celled colony.....																
UID 8-celled colony.....																
UID desmid.....																
UID flagellate.....																
UID filamentous.....																
UID green.....	200						700	8900			9900		100		2000	

TABLE-III A-26 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Not (>284) _____ X Replicate _____ X

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
<u>Dactylococcus infusionum</u>																
<u>Dictyosphaerium</u> sp.																
<u>D. ehrenbergianum</u>																
<u>D. pulchellum</u>																
<u>Di-orchococcus lunatus</u>																
<u>Echinocchaerella limnetica</u>																
<u>Errerella borheniensis</u>																
<u>Eudorina elegans</u>																
<u>Fraconia</u> sp.																
<u>F. droescheri</u>																
<u>F. ovalis</u>																
<u>Glebovstis</u> sp.																
<u>G. ampla</u>																
<u>G. gigas</u>																
<u>G. planctonica</u>																
<u>G. vesticulosa</u>																
<u>Golenkinia paucispina</u>																
<u>G. radiata</u>																
<u>Gonium</u> sp.																
<u>G. sociale</u>																
<u>Hyalotheca</u> sp.																
<u>H. dissiliens</u>																
<u>Kirchneriella lunaris</u>																
<u>K. obesa</u>																
<u>K. subsolitaria</u>																
<u>Lagerheimia ciliata</u>																
<u>L. longiseta</u>																
<u>L. subsalsa</u>																
<u>L. quadriseta</u>																
<u>Micractinium</u> sp.																
<u>M. pusillum</u>																
<u>Microspora</u> sp.																
<u>Mougeotia</u> sp.																
<u>Nephroclytium Agardhianum</u>																
<u>N. limneticum</u>																
<u>N. lunatum</u>																

TABLE IIIA-26 (continued)

Nine Mile Point Phytoplankton
cell/LWhole Water _____ Net (>28u) X Replicate X

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
UID quadriflagellate.....																
UID unicellular.....																
UID zygospore.....																
TOTAL GREENS.....	13100	19100	25200	9100	17200	35400	25100	39500	8200	11500	16600	22400	22300	7400	14800	49400
% of TOTAL.....	5.7	4.7	35.5	11.4	12.8	22.3	24.7	27.0	3.6	3.6	10.7	3.5	17.5	3.2	5.7	28.8
B. EUGLENOIDS																
Euglena sp.																
Phacus sp.																
TOTAL EUGLENOIDS.....																
% of TOTAL.....																
C. DIATOMS																
Achnanthes sp.																
Asterionella formosa.....	12900	24600	16400	12200	10700	7900		26600	4500	10600	33300		6900	100 4500	4800	13500
Cocconeis sp.																
Coscinodiscus sp.																
C. subtilis.....								900								
Cyclotella sp.							13500					4500				
C. bodanica.....	800	800	400	500	400			200	600	500			800		800	
C. conta.....																
C. meneghiniana.....																
Cymbella sp.																
Diatoma sp.	1200															
D. elongatum.....																
Fragilaria sp.																
F. capucina.....	10100	123700	17600	20500	10300	56900		28700	55100	28500	9000		15700	19900		39200
F. crotonensis.....	19600	56700		1200		3500		9100	8400	3300			3700	5800	4000	4700
Gomphonema sp.																
Gyrodinium sp.																
Helosira sp.																
H. binderana.....		7600			4400	14700		2100	1900	1600			3500	1400	1000	1400

TABLE IIIA-26 (continued)

Nine Mile Point Phytoplankton
cells/L
Whole Water _____ Net (>28u) _____ X Replicate _____ X

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
E. BLUE-GREENS																
<i>Acanellum punctata</i>																
<i>A. quadriduplicatum</i>																
<i>Anabaena</i> sp.																
<i>A. circinalis</i>			400			4400						18300	2200	4500		9100
<i>A. flos-aquae</i>																
<i>A. spiroides</i>																
<i>Anacyrtis</i> sp.																
<i>A. cranea</i>																
<i>A. dispersus</i>		800		700			1400		200		1700		3200	4800	500	
<i>A. limneticus</i>																
<i>A. minutus</i>																
<i>A. minor</i>													1100	6400		
<i>A. Prescottii</i>	2500															
<i>Acharocapsa</i> sp.																
<i>A. endochrysa</i>																
<i>A. pulchra</i>																
<i>A. rivularis</i>																
<i>Achanizomenon</i> sp.																
<i>A. flos-aquae</i>																
<i>Aphanotheca</i> sp.																
<i>Chroococcus</i> sp.																
<i>C. limneticus</i>																
<i>C. minutus</i>																
<i>Coelosphaerium Kuetzingianum</i> ...																
<i>C. Macgillanum</i>																
<i>Gloeocapsa</i> sp.																
<i>G. aeruginosa</i>																
<i>G. punctata</i>																
<i>Gloeotheca</i> sp.																
<i>G. linearis</i>																
<i>G. rupestris</i>																
<i>Gomphosphaeria</i> sp.																
<i>G. arcuata</i>	167200	170000	10500	35100	83700	14700	17400	34900	140500	257200	85500	492200	68900	177200	220000	40400
<i>G. lacustris</i>																
<i>Lyngbya</i> sp.																

Nine Mile Point Phytoplankton
cell/L

Date: 11/20/73

1-297

TABLE IIIA-26 (continued)

Nine Mile Point Phytoplankton

cells/L
Whole Water _____ Net(>28μ) _____ X Replicate _____ X

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
Date: 11/20/73																
<i>L. aeruginoso-coerulea</i>																
<i>L. Birgei</i>																
<i>L. Dismetii</i>																
<i>L. limnetica</i>																
<i>Merismopedia tenuissima</i>																
<i>Microcystis aeruginosa</i>																
<i>M. incerta</i>																
<i>Nostoc</i> sp.	200	200		200	2700		600						100			
<i>Oscillatoria</i> sp.																
<i>O. limnetica</i>																
<i>O. subbrevis</i>																
<i>Phormidium mucicola</i>																
<i>Stigonema</i> sp.																
UID crescent-shaped.....																
UID filamentous.....																
TOTAL BLUE-GREENS.....	169900	171000	10900	36000	86400	19100	18000	36300	140500	257400	85500	512200	71200	186000	231200	50000
% of TOTAL.....	74.2	42.0	15.4	45.3	64.1	12.0	17.7	24.8	62.0	81.1	55.1	80.9	55.9	81.6	88.3	29.2
F. DINOFLAGELLATES																
<i>Ceratium hirundinella</i>																
<i>Glenodinium</i> sp.																
<i>G. palustre</i>																
<i>G. pulvisculus</i>																
<i>G. quadrifens</i>																
<i>Gymnodinium</i> sp.																
<i>Peridinium cinctum</i>																
<i>P. inconspicuum</i>																
<i>P. wisconsinensis</i>																
UID dinoflagellate.....									100							
TOTAL DINOFLAGELLATES.....									100							
% of TOTAL.....									0.1							

TABLE IIIA-26 (continued)

Nine Mile Point Phytoplankton
cells/L

Whole Water _____ Net(>28 μ) X Replicate _____ X

Date: 11/20/73

	10				20				40				60			
	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE	NMPW	NMPP	FITZ	NMPE
G. OTHERS																
Bacteriastrium sp.....																
UID branched filament.....																
TOTAL OTHERS.....																
% of TOTAL.....																
GRAND TOTAL.....	229000	406900	70900	79500	134700	158700	101600	146200	226500	317300	155200	633300	127300	227800	261800	171300

III-B

ANOVA RESULTS OF NET
AND WHOLE WATER PHYTOPLANKTON

TABLE III-B-1

TWO-WAY ANOVAS FOR NET PHYTOPLANKTON FOR CONTOURS
BETWEEN DATES AND TRANSECTS

10' Contour

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Stations	3	0.356	0.1186	1.8707
Dates	8	8.126	1.0158	16.0221*
Error	24	1.522	0.0634	
TOTAL	35	10.004		

20' Contour

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Stations	3	2.218	0.7394	0.9874
Dates	8	57.092	7.1365	9.5306*
Error	24	17.970	0.7488	
TOTAL	35	77.280		

40' Contour

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Stations	3	0.184	0.0614	1.3798
Dates	8	8.531	1.0664	23.9640*
Error	24	1.069	0.0445	
TOTAL	35	9.784		

60' Contour

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Stations	3	0.027	0.0088	0.2334
Dates	6	7.831	1.3052	34.6207*
Error	18	0.678	0.0377	
TOTAL	27	8.535		

* = significant difference

TABLE III-B-2

TWO-WAY ANOVAS FOR NET PHYTOPLANKTON FOR TRANSECTS
BETWEEN DATES AND CONTOURS

NMPW

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Contours	3	0.101	0.0337	1.2390
Dates	7	6.339	0.9056	33.2941*
Error	21	0.572	0.0272	
TOTAL	31	7.012		

NMPP

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Contours	3	0.098	0.0327	1.1354
Dates	7	12.604	1.8006	62.5208*
Error	21	0.605	0.0288	
TOTAL	31	13.307		

FITZ

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Contours	3	0.115	0.0384	0.7695
Dates	6	7.826	1.3043	26.1383*
Error	18	0.898	0.0499	
TOTAL	27	8.839		

NMPE

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Contours	3	0.435	0.1448	2.9076
Dates	7	6.914	0.9876	19.8313*
Error	21	1.046	0.0498	
TOTAL	31	8.395		

* = significant difference

TABLE III-B-3

TWO-WAY ANOVAS FOR WHOLE WATER PHYTOPLANKTON FOR CONTOURS
BETWEEN DATES AND CONTOURS

10' Contour

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Stations	3	0.2531	0.0844	2.0387
Dates	7	6.1608	0.8801	21.2584*
Error	21	0.8702	0.0414	
TOTAL	31	7.2840		

20' Contour

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Stations	3	0.1228	0.0409	0.6544
Dates	6	1.9942	0.3324	5.3184*
Error	18	1.1257	0.0625	
TOTAL	27	3.2428		

40' Contour

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Stations	3	0.2663	0.0888	0.6889
Dates	7	4.5674	0.6525	5.0621*
Error	21	2.7061	0.1289	
TOTAL	31	7.5398		

60' Contour

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Stations	3	0.5129	0.1710	2.5948
Dates	6	1.4538	0.2423	3.6768*
Error	18	1.1870	0.0659	
TOTAL	27	3.1538		

* = significant difference

TABLE III-B-4

TWO-WAY ANOVAS FOR WHILE WATER PHYTOPLANKTON FOR TRANSECTS
BETWEEN DATES AND CONTOURS

NMPW

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Dates	7	5.0365	0.7195	0.9094
Contours	3	0.4817	0.1606	4.074*
Error	21	3.7090	0.1766	
TOTAL	31	9.22719		

NMPP

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Dates	7	5.4888	0.7841	0.7891
Contours	3	0.1514	0.0505	12.2516*
Error	21	1.3447	0.0640	
TOTAL	31	6.9849		

FITZ

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Dates	6	1.2794	0.2132	3.1575*
Contours	3	0.5532	0.1844	3.6507*
Error	18	1.0511	0.0584	
TOTAL	27	2.8838		

NMPE

<u>Source</u>	<u>D.F.</u>	<u>S.S.</u>	<u>M.S.</u>	<u>F-Ratio</u>
Dates	7	4.1226	0.5890	2.0270
Contours	3	0.2700	0.0900	13.2658*
Error	21	0.9328	0.0444	
TOTAL	31	5.3255		

* = significant difference

TABLE III-B-5

COMPARISON OF ABUNDANCE OF NET PHYTOPLANKTON
AND WHOLE WATER PHYTOPLANKTON

PAIRED t-TEST

<u>Taxonomic Group</u>	<u>Degrees of Freedom</u>	<u>t-value*</u>	<u>p-value**</u>
Green Algae	124	-8.457	p 0.001
Dinoflagellates	124	-4.250	p 0.001

* critical value: $t = 1.98$

** probability of a larger value, sign ignored.

WILCOXON TEST FOR LARGE SAMPLES

<u>Taxonomic Group</u>	<u>n</u>	<u>T+</u>	<u>T-</u>	<u>Z*</u>
Blue-green Algae	125	2440	5435	3.689
Euglenoids	111	15	6201	9.099
Diatoms	124	3492	4258	0.954
Grand Total	125	880	6995	7.532

* critical value: $Z = 1.96$

TABLE III C-1

STUDENT-NEWMAN-KUELS FOR NET PHYTOPLANKTON

a. Differences for dates on a contour

10' Contour

<u>10-25</u>	<u>5-16</u>	<u>6-15</u>	<u>8-13</u>	<u>9-21</u>	<u>11-20</u>	<u>8-23</u>	<u>7-26</u>	<u>7-20</u>
--------------	-------------	-------------	-------------	-------------	--------------	-------------	-------------	-------------

20' Contour

<u>5-16</u>	<u>11-20</u>	<u>6-15</u>	<u>10-25</u>	<u>9-21</u>	<u>8-13</u>	<u>7-26</u>	<u>8-23</u>	<u>7-20</u>
-------------	--------------	-------------	--------------	-------------	-------------	-------------	-------------	-------------

40' Contour

<u>11-20</u>	<u>5-16</u>	<u>6-15</u>	<u>10-25</u>	<u>8-13</u>	<u>9-21</u>	<u>8-23</u>	<u>7-20</u>	<u>7-26</u>
--------------	-------------	-------------	--------------	-------------	-------------	-------------	-------------	-------------

60' Contour

<u>11-20</u>	<u>6-15</u>	<u>10-25</u>	<u>8-13</u>	<u>9-21</u>	<u>7-20</u>	<u>7-26</u>
--------------	-------------	--------------	-------------	-------------	-------------	-------------

b. Differences for dates on a transect

NMPW

<u>11-20</u>	<u>6-15</u>	<u>10-25</u>	<u>8-23</u>	<u>8-13</u>	<u>9-21</u>	<u>7-26</u>	<u>7-20</u>
--------------	-------------	--------------	-------------	-------------	-------------	-------------	-------------

NMPP

<u>11-20</u>	<u>6-15</u>	<u>10-25</u>	<u>8-13</u>	<u>9-21</u>	<u>8-23</u>	<u>7-20</u>	<u>7-26</u>
--------------	-------------	--------------	-------------	-------------	-------------	-------------	-------------

FITZ

<u>11-20</u>	<u>6-15</u>	<u>8-13</u>	<u>10-25</u>	<u>7-20</u>	<u>9-21</u>	<u>7-26</u>
--------------	-------------	-------------	--------------	-------------	-------------	-------------

NMPE

<u>11-20</u>	<u>6-15</u>	<u>8-13</u>	<u>10-25</u>	<u>9-21</u>	<u>9-26</u>	<u>8-23</u>	<u>7-20</u>
--------------	-------------	-------------	--------------	-------------	-------------	-------------	-------------

TABLE III C-2

STUDENT-NEWMAN-KUELS FOR WHOLE WATER PHYTOPLANKTON

a. Differences for dates on a contour

10' Contour

<u>11-20</u>	<u>10-25</u>	<u>6-15</u>	<u>7-26</u>	<u>9-21</u>	<u>8-23</u>	<u>8-13</u>	<u>7-20</u>
--------------	--------------	-------------	-------------	-------------	-------------	-------------	-------------

20' Contour

<u>10-25</u>	<u>6-15</u>	<u>8-13</u>	<u>7-26</u>	<u>8-23</u>	<u>9-21</u>	<u>7-20</u>
--------------	-------------	-------------	-------------	-------------	-------------	-------------

40' Contour

<u>11-20</u>	<u>8-13</u>	<u>10-25</u>	<u>6-15</u>	<u>7-20</u>	<u>8-23</u>	<u>7-26</u>	<u>9-21</u>
--------------	-------------	--------------	-------------	-------------	-------------	-------------	-------------

60' Contour

<u>6-15</u>	<u>10-25</u>	<u>8-23</u>	<u>8-13</u>	<u>9-21</u>	<u>7-26</u>	<u>7-20</u>
-------------	--------------	-------------	-------------	-------------	-------------	-------------

b. Differences for dates and contours for a transect

NMPW

<u>11-20</u>	<u>10-25</u>	<u>6-15</u>	<u>7-20</u>	<u>7-26</u>	<u>8-23</u>	<u>9-21</u>	<u>8-13</u>
--------------	--------------	-------------	-------------	-------------	-------------	-------------	-------------

NMPP

<u>11-20</u>	<u>10-25</u>	<u>6-15</u>	<u>8-13</u>	<u>7-26</u>	<u>7-20</u>	<u>8-23</u>	<u>9-21</u>
--------------	--------------	-------------	-------------	-------------	-------------	-------------	-------------

FITZ

<u>10-25</u>	<u>8-13</u>	<u>6-15</u>	<u>9-21</u>	<u>8-23</u>	<u>7-26</u>	<u>7-20</u>
--------------	-------------	-------------	-------------	-------------	-------------	-------------

<u>60'</u>	<u>40'</u>	<u>20'</u>	<u>10'</u>
------------	------------	------------	------------

NMPE

<u>11-20</u>	<u>10-25</u>	<u>6-15</u>	<u>7-20</u>	<u>8-13</u>	<u>9-21</u>	<u>8-23</u>	<u>7-20</u>
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III-D

NINE MILE POINT
WINDROW PHYTOPLANKTON

LOCATION FITZ
 CONTOUR DEPTH 78'
 SAMPLE DATE 6-26-73
 TIME 1045

TABLE III D-1
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 54mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	8010	2156
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>	16944	1232	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>	7086	7086	<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>	4929	308
<u>A. falcatus</u>			<u>H. dissiliens</u>	---	1848	<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>	1232	1232	<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	616	616	<u>Microactinium sp</u>	9242	1232	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>	3698	616	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocystium Agardhianum</u>			<u>Ulothrix sp.</u>	3389	924
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>	11091	924	<u>O. Borgei</u>	308	308	<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>	308	308
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>	10782	10782
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	5237	616			
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	41898	1232	<u>TOTAL GREENS</u>	127234	32036
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			<u>% of TOTAL</u>	34.8	30.4
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>	1232	308	<u>TOTAL EUGLENOIDS</u>		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			<u>% of TOTAL</u>		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>	1232	308	<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 78'
 SAMPLE DATE 6-26-73
 TIME 1045

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 54mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	17868	4005	<u>A. circinalis</u>	18484	616	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coccinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	308	308	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	1232	1232	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	11091	2156	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	15404	308	<u>Chroococcus</u> sp.....	1232	308			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....	308	308	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	365372	105355
<u>S. hantzschii</u>	144177	39125	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	1540	308	<u>L. limnetica</u>	23413	23413			
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	191928	47750	<u>M. incerta</u>					
% of TOTAL.....	52.5	45.3	<u>Oscillatoria</u> sp.....	308	308			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>	2773	924	<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS....	2773	924						
% of TOTAL.....	0.8	0.1	TOTAL BLUE-GREENS.....	43437	24645			
			% of TOTAL.....	11.9	23.4			

LOCATION FITZ
 CONTOUR DEPTH 78'
 SAMPLE DATE 6-26-73
 TIME 1045

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 112 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	5112	1278
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>	5112	639	<u>G. radiata</u>			<u>Schroederia sp.</u>	639	639
<u>A. hantzschii</u>	10223	1278	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>	5751	5751	<u>Hyalotheca sp.</u>	35782	3834	<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>	1278	1278	<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	1278	1278	<u>Micractinium sp</u>	14057	1278	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>	3195	1278	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	639	639	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>	32587	32587
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>	10223	639	<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			<u>TOTAL GREENS</u>	129710	53674
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			<u>% of TOTAL</u>	17.6	36.1
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>	1278	639			
<u>Eudorina elegans</u>			<u>S. bijuga</u>			<u>TOTAL EUGLENOIDS</u>		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			<u>% of TOTAL</u>		
<u>G. ampla</u>			<u>S. denticulatus</u>	2556	639			
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 78'
 SAMPLE DATE 6-26-73
 TIME 1045

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSS @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 112mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	26836	8945	<u>A. circinalis</u>	70286	1278	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	1278	1278	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	30031	7029	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	639	639
<u>F. capucina</u>	31948	639	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	31948	639	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	1278	639	TOTAL DINOFLAGELLATES	639	639
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL	0.1	0.4
<u>Melosira</u> sp.....	3834	639	<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	738514	148752
<u>Nitzschia</u> sp.....	59423	3834	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomposphaeria</u> sp.....					
<u>S. hantzschii</u>	319480	38977	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lynqbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	29264	29264			
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	504778	61980	<u>Microcystis aeruginosa</u>					
% of TOTAL	68.4	41.7	<u>M. incerta</u>					
D. GOLDEN-BROWNS			<u>Oscillatoria</u> sp.....					
<u>Dinobryon sertularia</u>	2559	1278	<u>O. limnetica</u>					
TOTAL GOLDEN-BROWNS	2559	1278	<u>O. subbrevis</u>					
% of TOTAL	0.3	0.9	<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	100828	31181			
			% of TOTAL	13.7	21.0			

LOCATION FITZ
 CONTOUR DEPTH 78'
 SAMPLE DATE 6-26-73
 TIME 1045

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 60 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosus</u>	4108	342	<u>S. quadricauda</u>	6504	1369
<u>Actinastrum</u> sp.....			<u>Golenkinia caucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>	8215	1027	<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>	1369	1369
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>	2738	342
<u>A. convolutus</u>	1712	1712	<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>	1712	685	<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>	2054	342	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....	5819	1027	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	685	685	<u>Nephrocystium Agardhianum</u>			<u>Ulothrix</u> sp.....	1369	1027
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>	1369	1027	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>	6504	6504
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>			TOTAL GREENS	55454	18142
<u>D. ehrenbergianum</u>	10954	342	<u>P. simplex</u>			% of TOTAL	23.6	18.9
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...	342	342	<u>Q. lacustris</u>			<u>Euglena</u> sp.....	342	342
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....					
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>			TOTAL EUGLENOIDS	342	342
<u>Eudorina elegans</u>			<u>S. bijuga</u>			% of TOTAL	0.1	0.4
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>					
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION PITZ
 CONTOUR DEPTH 78'
 SAMPLE DATE 6-26-73
 TIME 1045

TABLE III-D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 60 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella sp.</u>			<u>Anabaena sp.</u>			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	24303	8558	<u>A. circinalis</u>			<u>Glenodinium sp.</u>		
<u>Cocconeis sp.</u>			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coccinodiscus sp.</u>			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis sp.</u>			<u>G. quadridens</u>		
<u>Cyclotella sp.</u>	1027	1027	<u>A. limneticus</u>			<u>Gymnodinium sp.</u>		
<u>Diatoma elongatum</u>	15061	3423	<u>Aphanocapsa sp.</u>			<u>Peridinium aciculiferum</u>		
<u>Fragilaria sp.</u>			<u>Aphanizomenon sp.</u>			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus sp.</u>	1369	685			
<u>Gomphonema sp.</u>			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES		
<u>Gyrosigma sp.</u>			<u>C. minutus</u>			% of TOTAL		
<u>Melosira sp.</u>			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula sp.</u>			<u>C. Naegelianum</u>					
<u>Nitzschia sp.</u>			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus sp.</u>			<u>Gomphosphaeria sp.</u>			GRAND TOTAL	234819	95846
<u>S. hantzschii</u>	111248	40734	<u>G. aponina</u>					
<u>Suriella sp.</u>			<u>G. lacustris</u>					
<u>Synedra sp.</u>	342	342	<u>Lyngbya Birgei</u>					
<u>Tabellaria sp.</u>			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	20196	20196			
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	151981	54084	<u>Microcystis aeruginosa</u>					
% of TOTAL	64.7	56.4	<u>M. incerta</u>					
			<u>Oscillatoria sp.</u>					
D. GOLDEN-BROWNS			<u>O. limnetica</u>	685	685			
<u>Dinobryon sertularia</u>	4792	1712	<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS	4792	1712	<u>Phormidium mucicola</u>					
% of TOTAL	2.0	1.8	<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	22250	21566			
			% of TOTAL	9.5	22.5			

LOCATION _____ PROGRESS CENTER
 CONTOUR DEPTH 72'
 SAMPLE DATE 6-26-73
 TIME 1100

TABLE III D-1 (cont.)

WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 60 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	9150	1830
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>	2745	458	<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>	6863	915	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>	67253	4575	<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	3203	3203	<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>	7320	458	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocystium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>	915	915
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	21960	915			
<u>Dictyosphaerium sp.</u>	3660	458	<u>P. duplex</u>			TOTAL GREENS	139998	14642
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL	26.6	11.3
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemensis</u>	16928	915	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

TABLE III D-1 (cont.)
WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
WATER TEMP. 62.6°F
SAMPLE VOL. 60 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella sp.</u>			<u>Anabaena sp.</u>	27450	915	<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	20150	4118	<u>A. circinalis</u>			<u>Glenodinium sp.</u>		
<u>Cocconeis sp.</u>			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus sp.</u>			<u>A. spiroides</u>			<u>G. pulvisculus</u>	915	915
<u>C. subtilis</u>	458	458	<u>Ancystis sp.</u>			<u>G. quadridens</u>		
<u>Cyclotella sp.</u>	1373	1373	<u>A. limneticus</u>			<u>Gymnodinium sp.</u>		
<u>Diatoma elongatum</u>	32940	8693	<u>Aphanocapsa sp.</u>			<u>Peridinium aciculiferum</u>		
<u>Fragilaria sp.</u>			<u>Aphanizomenon sp.</u>			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus sp.</u>			TOTAL DINOFLAGELLATES.....	915	915
<u>Gomphonema sp.</u>			<u>C. limneticus</u>			% of TOTAL.....	0.2	0.7
<u>Gyrosigma sp.</u>			<u>C. minutus</u>					
<u>Melosira sp.</u>	36600	1830	<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula sp.</u>			<u>C. Naegelianum</u>					
<u>Nitzschia sp.</u>	34313	3203	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus sp.</u>			<u>Gomphosphaeria sp.</u>			GRAND TOTAL.....	526129	129935
<u>S. hantzschii</u>	195353	65880	<u>G. aponina</u>					
<u>Surirella sp.</u>			<u>G. lacustris</u>					
<u>Synedra sp.</u>			<u>Lynghya Birgei</u>					
<u>Tabellaria sp.</u>			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	25620	25620			
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS.....	321167	85555	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	61.0	65.8	<u>M. incerta</u>					
			<u>Oscillatoria sp</u>					
D. GOLDEN-BROWNS			<u>O. limnetica</u>	915	915			
<u>Dinobryon sertularia</u>	10065	1373	<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
TOTAL GOLDEN-BROWNS....	10065	1373	UID crescent-shaped.....					
% of TOTAL.....	1.9	1.1	TOTAL BLUE-GREENS.....	53985	27450			
			% of TOTAL.....	10.3	21.1			

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 72'
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TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 67 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			G. vesticulosa.....	2139	267	S. quadricauda.....	8555	1239
Actinastrum sp.....			Golenkinia paucispina			Schizochlamys gelatinosa .		
A. gracillimum.....	8555	802	G. radiata			Schroederia sp.....		
A. hantzschii			Gonium pectorale.....			S. setigera.....		
Ankistrodesmus sp.....			G. sociale			Selenastrum minutum.....		
A. convolutus	535	535	Hyalotheca sp.....			Sphaerocystis sp.....		
A. falcatus			H. dissiliens	56139	3743	S. Schroteri		
Asterococcus sp.....			Kirchneriella lunaris			Spondylosium sp.....		
Botryococcus protuberans ..			K. obesa			Staurostrum sp.....		
B. sudeticus			Lagerheimia ciliata			S. cuspidatum		
Characium sp.....			L. quadriseta			S. gracile		
Chlamydomonas sp.....	267	267	Micractinium sp			Tetraedron minimum		
C. epiphytica.....			M. pusillum			Tetraspora lacustris		
Chorella ellipsoidea.....			Microspora sp.....			T. lamellosa.....		
C. vulgaris.....			Mougeotia sp.....	13367	1604	Treubaria setigerum.....		
Closteriopsis longissima...	535	535	Nephrocytium Agardhianum.....			Ulothrix sp.....		
Closterium sp.....			N. obesum.....	5881	802	U. zonata.....		
Coelastrum sp.....			Oedogonium sp.....			Volvox sp.....		
C. cambricum.....	8555	535	Oocystis sp.....			V. aureus.....		
C. microporum.....			O. Borgei.....	2139	267	UID biflagellate.....		
Cosmarium sp.....			O. parva.....			UID colony.....		
C. crenatum.....			O. pusilla.....			UID 3-celled colony.....		
C. depressum.....			O. solitaria.....			UID desmid.....		
C. formosulum.....			Pandorina morum.....			UID unicellular.....		
C. nitidulum.....			Pediastrum sp.....			UID zygospore.....		
Dactylococcus infusionum...			P. Boryanum.....	267	267			
Dictyosphaerium sp.....			P. duplex.....	12832	535	TOTAL GREENS.....	148637	14435
D. ehrenbergianum.....			P. simplex.....			% of TOTAL.....	30.4	10.8
D. pulchellum.....			P. tetras.....	4277	267			
Dimorphococcus lunatus.....			Quadrigula Chodatii.....			B. EUGLENOIDS		
Echinospaerella limnetica...			Q. lacustris.....					
Elakatothrix gelatinosa....			Scenedesmus sp.....			Euglena sp.....		
Errerella borhemiensis.....	12832	802	S. acuminatus.....					
Eudorina elegans.....	4277	267	S. bijecta.....	4277	267	TOTAL EUGLENOIDS.....		
Gleocystis sp.....			S. Brasiliensis.....			% of TOTAL.....		
G. ampla.....			S. denticulatus.....					
G. gigas.....			S. dimorphus.....	2139	267			
G. planctonica.....			S. longus.....	1069	267			

LOCATION _____ PROGRESS CENTER _____
 CONTOUR DEPTH 72'
 SAMPLE DATE 6-26-73
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TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 67 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella sp.</u>			<u>Anabaena sp.</u>			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	36090	6415	<u>A. circinalis</u>			<u>Glenodinium sp.</u>		
<u>Cocconeis sp.</u>			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus sp.</u>			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis sp.</u>			<u>G. quadridens</u>		
<u>Cyclotella sp.</u>	802	802	<u>A. limneticus</u>			<u>Gymnodinium sp.</u>		
<u>Diatoma elongatum</u>	29941	5347	<u>Aphanocapsa sp.</u>			<u>Peridinium aciculiferum</u>		
<u>Fragilaria sp.</u>			<u>Aphanizomenon sp.</u>			<u>P. cinctum</u>		
<u>F. capucina</u>	39030	1069	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus sp.</u>					
<u>Gomphonema sp.</u>			<u>C. limneticus</u>	13901	1069	TOTAL DINOFLAGELLATES		
<u>Gyrosigma sp.</u>			<u>C. minutus</u>			% of TOTAL		
<u>Melosira sp.</u>	1069	267	<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula sp.</u>			<u>C. Naegelianum</u>					
<u>Nitzschia sp.</u>	14703	1069	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus sp.</u>	267	267	<u>Gomphosphaeria sp.</u>			GRAND TOTAL	488146	134197
<u>S. hantzschii</u>	157725	65229	<u>G. aponina</u>					
<u>Surirella sp.</u>			<u>G. lacustris</u>					
<u>Synedra sp.</u>	267	267	<u>Lyngbya Birgei</u>					
<u>Tabellaria sp.</u>			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	36090	36090			
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	279894	80732	<u>Microcystis aeruginosa</u>					
% of TOTAL	57.3	60.2	<u>M. incerta</u>					
D. GOLDEN-BROWNS			<u>Oscillatoria sp.</u>					
<u>Dinobryon sertularia</u>	8822	1069	<u>O. limnetica</u>	802	802			
TOTAL GOLDEN-BROWNS	8822	1069	<u>O. subbrevis</u>					
% of TOTAL	1.8	0.8	<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	50793	37961			
			% of TOTAL	10.4	28.3			

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TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 112 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>			<i>S. quadricauda</i>		
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>	447	447	<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>	10725	1341	<i>G. radiata</i>	894	894	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>	69713	4469	<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>	447	447	<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....	9831	3575
<i>Closterium</i> sp.....			<i>N. obesa</i>	1341	447	<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	3575	446	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>			TOTAL GREENS.....	116189	18770
<i>D. ehrenbergianum</i>			<i>P. simplex</i>			% of TOTAL.....	28.4	16.5
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>	10725	1341	<i>S. acuminatus</i>	4916	4916			
<i>Eudorina elegans</i>			<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>	2575	447			
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

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TABLE III D-1 (cont.)

WINDROW PHYTOPLANKTON

WIND SSP @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 112 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	15641	4469	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	1341	1341	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	17875	4916	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	13406	447	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	14300	894			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....	3575	447	<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....	17875	1341	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	168921	46476	<u>G. aponina</u>			GRAND TOTAL.....	409342	113958
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....	894	894	<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	6256	894	<u>L. limnetica</u>	32622	32622			
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	245784	61225	<u>M. incerta</u>					
% of TOTAL.....	60	53.7	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>	447	447	<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....	447	447						
% of TOTAL.....	0.1	0.4	TOTAL BLUE-GREENS.....	46922	33516			
			% of TOTAL.....	11.5	29.4			

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TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59.0°F
 SAMPLE VOL. 54 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	2586	646
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>	1293	431	<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>	29303	2155	<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>	1293	1293	<u>L. quadriseta</u>	1077	215	<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>	431	215	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	431	431	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>	5171	646	<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			UID biflagellate.....		
<u>Cosmarium sp.</u>			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....	215	215
<u>C. formosulum</u>			<u>Pandorina morum</u>			UID unicellular.....		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	6895	215			
<u>Dictyosphaerium sp.</u>	6031	646	<u>P. duplex</u>			TOTAL GREENS.....	68516	8616
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	28.2	11.0
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>			<u>Euglena sp.</u>		
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>	1724	215			
<u>Errerella borhemienensis</u>	11204	862	<u>S. acuminatus</u>			TOTAL EUGLENOIDS.....		
<u>Eudorina elegans</u>			<u>S. bijuga</u>			% of TOTAL.....		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>					
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>	862	431	<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
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TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 54mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	18099	5387	<u>A. circinalis</u>	5387	431	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	431	431	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	17668	5817	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	1077	215	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....	11419	1077	<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....	11419	3232	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	91786	38136	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	243039	78208
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....	431	215	<u>L. Diquetii</u>	13789	13789			
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	152330	54510	<u>M. incerta</u>					
% of TOTAL.....	62.7	69.7	<u>Oscillatoria</u> sp.....	431	431			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>	2586	431	<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
TOTAL GOLDEN-BROWNS....	2586	431	<u>UID crescent-shaped</u>					
% of TOTAL.....	1.1	0.6	TOTAL BLUE-GREENS.....	19607	14651			
			% of TOTAL.....	8.1	18.7			

LOCATION FITZ
 CONTOUR DEPTH 72'
 SAMPLE DATE 6-26-73
 TIME 1115

TABLE III D-1 (cont.)

WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59.0°F
 SAMPLE VOL. 108mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens								
<u>Actinastrum</u> sp.....	3697	616	<u>G. vesticulosa</u>			<u>S. quadricauda</u>	4929	1848
<u>A. gracillimum</u>			<u>Colenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. hantzschii</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>Ankistrodesmus</u> sp.....			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>A. convolutus</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. falcatus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>Asterococcus</u> sp.....			<u>H. dissiliens</u>	68392	6161	<u>S. Schroteri</u>		
<u>Botryococcus protuberans</u> ..			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>B. sudeticus</u>			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>Characium</u> sp.....			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Chlamydomonas</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>C. epiphytica</u>			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>Chorella ellipsoidea</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>C. vulgaris</u>			<u>Microspora</u> sp.....	8010	2465	<u>T. lamellosa</u>		
<u>Closteriopsis longissima</u> ...	1232	1232	<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closterium</u> sp.....			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Coelastrum</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>C. cambricum</u>			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. microporum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>Cosnarium</u> sp.....			<u>O. Borgei</u>			UID biflagellate.....		
<u>C. crenatum</u>			<u>O. parva</u>			UID colony.....		
<u>C. depressum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. formosulum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. nitidulum</u>			<u>Pandorina morum</u>			UID unicellular.....	616	616
<u>Dactylococcus infusionum</u> ...			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dictyosphaerium</u> sp.....			<u>P. Boryanum</u>	18484	616			
<u>D. ehrenbergianum</u>			<u>P. duplex</u>			TOTAL GREENS.....	149722	17251
<u>D. pulchellum</u>			<u>P. simplex</u>			% of TOTAL.....	21.9	7.1
<u>Dimorphococcus lunatus</u>			<u>P. tetras</u>					
<u>Echinospaerella limnetica</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Elakatothrix gelatinosa</u>			<u>Q. lacustris</u>					
<u>Errerella borhemiensis</u>	24646	3081	<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Eudorina elegans</u>	19716	616	<u>S. acuminatus</u>					
<u>Gleocystis</u> sp.....			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>G. ampla</u>			<u>S. brasiliensis</u>			% of TOTAL.....		
<u>G. gigas</u>			<u>S. denticulatus</u>					
<u>G. planctonica</u>			<u>S. dimorphus</u>					
			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 72'
 SAMPLE DATE 6-26-73
 TIME 1115

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59.0°F
 SAMPLE VOL. 108mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	27726	10474	<u>A. circinalis</u>	30807	1232	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	1848	1848
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	8010	15404	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	68392	24029	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	1232	616	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	24646	2465	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	1848	1848
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.3	.8
<u>Melosira</u> sp.....	21565	3697	<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	6845131	244607
<u>Nitzschia</u> sp.....	18484	2466	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	222427	60998	<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....	2465	2465	<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>	50523	50523			
<u>T. fenestrata</u>	6161	616	<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS	401108	123230	<u>M. incerta</u>					
% of TOTAL	58.6	50.4	<u>Oscillatoria</u> sp.....	50523	50523			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	131853	102278			
% of TOTAL			% of TOTAL	19.3	41.8			

LOCATION BETWEEN FITZ & NMPE
 CONTOUR DEPTH 53'
 SAMPLE DATE 6-26-73
 TIME 1130

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 60.8°F
 SAMPLE VOL. 78 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	9274	662	<i>S. quadricauda</i>	2650	662
<i>Actinastrum</i> sp.....	994	331	<i>Colenkinia paucispina</i>	662	331	<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Conium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....	40409	2650	<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....	331	331	<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	8612	1325	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	994	994	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	6624	662	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>			TOTAL GREENS.....	73531	8610
<i>D. ehrenbergianum</i>			<i>P. simplex</i>			% of TOTAL.....	34.4	16.2
<i>D. pulchellum</i>	2650	331	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemienis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>			<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....	331	331	<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION BETWEEN FITZ & NMPE
 CONTOUR DEPTH 53'
 SAMPLE DATE 6-26-73
 TIME 1130

TABLE III D-1 (cont.)

WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 60.8°F
 SAMPLE VOL. 78 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	4968	1987	<u>A. circinalis</u>	28154	994	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	331	331
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	331	331	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	23517	6956	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	3312	331	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	331	331
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	0.1	0.6
<u>Melosira</u> sp.....	19860	994	<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL.....	213623	52993
<u>Nitzschia</u> sp.....	3312	331	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	22523	12918	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....	331	331	<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....	2981	662	<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	14905	14905			
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS.....	81135	24841	<u>Microcystis aeruginosa</u>	3312	331			
% of TOTAL.....	38.0	46.9	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	1656	1656			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>	10599	1325	<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS....	10599	1325	<u>Phormidium mucicola</u>					
% of TOTAL.....	5.0	2.5	UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	48027	17886			
			% of TOTAL.....	22.5	33.8			

LOCATION BETWEEN FITZ & EAST CONTROL
 CONTOUR DEPTH 53'
 SAMPLE DATE 6-26-73
 TIME 1130

TABLE III-D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 60.8°F
 SAMPLE VOL. 98 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			G. vesticulosa.....			S. quadricauda.....		
Actinastrum sp.....			Colenkinia paucispina			Schizochlamys gelatinosa ..		
A. gracillimum.....			G. radiata			Schroederia sp.....		
A. hantzschii			Gonium pectorale.....			S. setigera.....		
Ankistrodesmus sp.....	4352	4352	G. sociale			Selenastrum minutum.....		
A. convolutus			Hyalotheca sp.....			Sphaerocystis sp.....		
A. falcatus	2176	2176	H. dissiliens	47874	4352	S. Schroteri		
Asterococcus sp.....			Kirchneriella lunaris			Spondylosium sp.....		
Botryococcus protuberans ..			K. obesa			Staurostrum sp.....		
B. sudeticus			Lagerheimia ciliata			S. cuspidatum		
Characium sp.....			L. quadriseta			S. gracile		
Chlamydomonas sp.....			Micractinium sp			Tetraedron minimum		
C. epiphytica.....			M. pusillum	26113	2176	Tetraspora lacustris		
Chorella ellipsoidea.....			Microspora sp.....			T. lamellosa.....		
C. vulgaris.....			Mougeotia sp.....	6528	2176	Treubaria setigerum.....		
Closteriopsis longissima...	2176	2176	Nephrocytium Agardhianum.....	10880	2176	Ulothrix sp.....		
Closterium sp.....			N. obesum.....			U. zonata.....		
Coelastrum sp.....			Oedogonium sp.....			Volvox sp.....		
C. canbricum.....			Oocystis sp.....			V. aureus.....		
C. microporum.....			O. Borgei.....			UID biflagellate.....		
Cosmarium sp.....			O. parva.....			UID colony.....		
C. crenatum.....			O. pusilla.....			UID 3-celled colony.....		
C. depressum.....			O. solitaria.....			UID desmid.....		
C. formosulum.....			Pandorina morum.....			UID unicellular.....	93572	93572
C. nitidulum.....			Pediastrum sp.....			UID zygospore.....		
Dactylococcus infusionum..			P. Boryanum.....					
Dictyosphaerium sp.....			P. duplex.....			TOTAL GREENS.....	215432	117508
D. ehrenbergianum.....			P. simplex.....			% of TOTAL.....	37.9	43.2
D. pulchellum.....			P. tetras.....					
Dimorphococcus lunatus.....			Quadrigula Chodatii.....			B: EUGLENOIDS		
Echinospaerella linnetica..			Q. lacustris.....					
Elakatothrix gelatinosa....			Scenedesmus sp.....			Euglena sp.....		
Errerella borhemiensis.....			S. acuminatus.....					
Eudorina elegans.....			S. bijuga.....	4352	2176			
Gleocystis sp.....			S. Brasiliensis.....			TOTAL EUGLENOIDS.....		
G. ampla.....			S. denticulatus.....			% of TOTAL.....		
G. gigas.....			S. dimorphus.....	17409	2176			
G. planctonica.....			S. longus.....					

LOCATION BETWEEN FITZ & EAST CONTROL
 CONTOUR DEPTH 53'
 SAMPLE DATE 6-26-73
 TIME 1130

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 60.8°F
 SAMPLE VOL. 98 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	71811	21761	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....	4352	4352	<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	2176	2176	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	34817	6528	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	8704	2176	TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....	52226	6528	<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	567958	272010
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	97924	45698	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	60931	60931			
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	263306	87043	<u>M. incerta</u>					
% of TOTAL.....	46.4	32.0	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>	19585	4352	<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....	19585	4352						
% of TOTAL.....	3.4	1.6	TOTAL BLUE-GREENS.....	69635	63107			
			% of TOTAL.....	12.3	23.2			

WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
WATER TEMP. 60.8°F
SAMPLE VOL. 54 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens								
<u>Actinastrum</u> sp.....			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>A. gracillimum</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. hantzschii</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>Ankistrodesmus</u> sp.....			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>A. convolutus</u>	2465	2465	<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. falcatus</u>			<u>Hyalotheca</u> sp.....	15712	1540	<u>Sphaerocystis</u> sp.....	2465	308
<u>Asterococcus</u> sp.....			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Botryococcus protuberans</u> ..			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>B. sudeticus</u>			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>Characium</u> sp.....			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Chlamydomonas</u> sp.....	308	308	<u>L. quadriseta</u>	1848	924	<u>S. gracile</u>		
<u>C. epiphytica</u>	308	308	<u>Micractinium</u> sp	616	616	<u>Tetracdron minimum</u>		
<u>Chorella ellipsoidea</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>C. vulgaris</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>Closteriopsis longissima</u> ...			<u>Mougeotia</u> sp.....	1232	616	<u>Treubaria setigerum</u>		
<u>Closterium</u> sp.....			<u>Nephrocystium Agardhianum</u> ...			<u>Ulothrix</u> sp.....	308	308
<u>Coelastrum</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>C. cambricum</u>	4929	308	<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. microporum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>Cosmarium</u> sp.....			<u>O. Borgei</u>			UID biflagellate.....		
<u>C. crenatum</u>			<u>O. parva</u>			UID colony.....		
<u>C. depressum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. formosulum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. nitidulum</u>			<u>Pandorina morum</u>			UID unicellular.....	6469	6469
<u>Dactylococcus infusionum</u> ...			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dictyosphaerium</u> sp.....			<u>P. Boryanum</u>					
<u>D. ehrenbergianum</u>			<u>P. duplex</u>			TOTAL GREENS.....	41589	14478
<u>D. pulchellum</u>	4929	308	<u>P. simplex</u>			% of TOTAL.....	42.7	30.3
<u>Dimorphococcus lunatus</u>			<u>P. tetras</u>					
<u>Echinosphaerella limnetica</u> ...			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Elakatothrix gelatinosa</u>			<u>Q. lacustris</u>					
<u>Errerella borhemiensis</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Eudorina elegans</u>			<u>S. acuminatus</u>					
<u>Gleocystis</u> sp.....			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>G. ampla</u>			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. gigas</u>			<u>S. denticulatus</u>					
<u>G. planctonica</u>			<u>S. dimorphus</u>					
			<u>S. longus</u>					

LOCATION BETWEEN FITZ & EAST CONTROL
 CONTOUR DEPTH ---
 SAMPLE DATE 6-26-73
 TIME 1130

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 60.8°F
 SAMPLE VOL. 54 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....	12015	8317	<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	308	308	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	6161	1232	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....	308	308	<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	97349	47747
<u>S. hantzschii</u>	21565	10166	<u>G. aponina</u>					
<u>Surirella</u> sp.....	616	616	<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....	2465	308	<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	10474	10474			
UID pennate.....			<u>Merismopedia tenuissima</u>	924	924			
TOTAL DIATOMS.....	43438	21255	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	44.6	44.5	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>	924	616	<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS....	924	616	<u>Phormidium mucicola</u>					
% of TOTAL.....	0.9	13.	UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	11398	11398			
			% of TOTAL.....	11.7	23.9			

LOCATION EAST OF FITZ
 CONTOUR DEPTH 90'
 SAMPLE DATE 6-26-73
 TIME 1150

TABLE III D-1 (cont.)

WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 118 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	8078	673	<i>S. quadricauda</i>	2693	673
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....	3366	3366	<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....	8078	673	<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>	1346	1346	<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Microactinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	2020	673	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	10771	673	<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....	85495	85495
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>			TOTAL GREENS.....	121847	93572
<i>D. ehrenbergianum</i>			<i>P. simplex</i>			% of TOTAL.....	68.3	72.0
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i> ...			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>			<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION EAST OF FITZ
 CONTOUR DEPTH 90'
 SAMPLE DATE 6-26-73
 TIME 1150

TABLE III D-1 (cont.)

WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 118 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium</u> <u>hirundinella</u>		
<u>A. formosa</u>	24908	4712	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	673	673	<u>G. aponina</u>			GRAND TOTAL.....	178395	129924
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....	1346	1346	<u>Lyngbya Birgei</u>	27601	27601			
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	26927	6731	<u>M. incerta</u>					
% of TOTAL.....	15.1	5.2	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>	2020	2020	<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....	2020	2020						
% of TOTAL.....	1.1	1.6	TOTAL BLUE-GREENS.....	27601	27601			
			% of TOTAL.....	15.5	21.2			

LOCATION EAST OF FITZ
 CONTOUR DEPTH 90'
 SAMPLE DATE 6-26-73
 TIME 1150

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 118 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			G. vesticulosa.....			S. quadricauda.....		
Actinastrum sp.....			Golenkinia paucispina			Schizochlamys gelatinosa ..		
A. gracillimum.....			G. radiata			Schroederia sp.....		
A. hantzschii			Gonium pectorale.....			S. setigera.....		
Ankistrodesmus sp.....	1346	673	G. sociale			Selenastrum minutum.....		
A. convolutus			Hyalotheca sp.....			Sphaerocystis sp.....		
A. falcatus			H. dissiliens			S. Schroteri		
Asterococcus sp.....			Kirchneriella lunaris			Spondylosium sp.....		
Botryococcus protuberans ..			K. obesa			Staurostrum sp.....		
B. sudeticus			Lagerheimia ciliata			S. cuspidatum		
Characium sp.....			L. quadriseta			S. gracile		
Chlamydomonas sp.....			Micractinium sp			Tetraedron minimum		
C. epiphytica.....			M. pusillum			Tetraspora lacustris		
Chorella ellipsoidea.....			Microspora sp.....			T. lamellosa.....		
C. vulgaris.....			Mougeotia sp.....			Treubaria setigerum.....		
Closteriopsis longissima...	1346	1346	Nephrocytium Agardhianum.....			Ulothrix sp.....		
Closterium sp.....			N. obesum.....			U. zonata.....		
Coelastrum sp.....			Oedogonium sp.....			Volvox sp.....		
C. cambricum.....			Oocystis sp.....			V. aureus.....		
C. microporum.....			O. Borgei.....			UID biflagellate.....		
Cosmarium sp.....			O. parva.....			UID colony.....		
C. crenatum.....			O. pusilla.....			UID 3-celled colony.....		
C. depressum.....			O. solitaria.....			UID desmid.....		
C. formosulum.....			Pandorina morum.....			UID unicellular.....	673	673
C. nitidulum.....			Pediastrum sp.....			UID zygospore.....		
Dactylococcus infusionum...			P. Boryanum.....					
Dictyosphaerium sp.....			P. duplex.....			TOTAL GREENS.....	3365	2692
D. ehrenbergianum.....			P. simplex.....			% of TOTAL.....	4.4	5.8
D. pulchellum.....			P. tetras.....					
Dimorphococcus lunatus.....			Quadrigula Chodatii.....			B. EUGLENOIDS		
Echinospaerella linnetica...			Q. lacustris.....					
Elakatothrix gelatinosa....			Scenedesmus sp.....			Euglena sp.....		
Errerella borhemienensis....			S. acuminatus.....					
Eudorina elegans.....			S. bijuga.....			TOTAL EUGLENOIDS.....		
Gleocystis sp.....			S. Brasiliensis.....			% of TOTAL.....		
G. ampla.....			S. denticulatus.....					
G. gigas.....			S. dimorphus.....					
G. planctonica.....			S. longus.....					

LOCATION EAST OF FITZ

CONTOUR DEPTH 90'

SAMPLE DATE 6-26-73

TIME 1150

TABLE III-D-1 (cont.)

WINDROW PHYTOPLANKTON

WIND SSE @ 15-20

WATER TEMP. 62.6°F

SAMPLE VOL. 118 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<i>Asterionella</i> sp.....			<i>Anabaena</i> sp.....			<i>Ceratium hirundinella</i>		
<i>A. formosa</i>	4039	1346	<i>A. circinalis</i>			<i>Glenodinium</i> sp.....		
<i>Cocconeis</i> sp.....			<i>A. flos-aquae</i>			<i>G. palustre</i>	673	673
<i>Coscinodiscus</i> sp.....			<i>A. spiroides</i>			<i>G. pulvisculus</i>		
<i>C. subtilis</i>			<i>Ancystis</i> sp.....			<i>G. quadridens</i>		
<i>Cyclotella</i> sp.....	6059	2020	<i>A. limneticus</i>			<i>Gymnodinium</i> sp.....		
<i>Diatoma elongatum</i>	12791	5386	<i>Aphanocapsa</i> sp.....			<i>Peridinium aciculiferum</i>		
<i>Fragilaria</i> sp.....			<i>Aphanizomenon</i> sp.....			<i>P. cinctum</i>	1346	1346
<i>F. capucina</i>			<i>A. flos-aquae</i>			<i>P. inconspicuum</i>		
<i>F. crotonensis</i>			<i>Chroococcus</i> sp.....					
<i>Gomphonema</i> sp.....			<i>C. limneticus</i>			TOTAL DINOFLAGELLATES.....	2019	2019
<i>Gyrosigma</i> sp.....			<i>C. minutus</i>			% of TOTAL.....	2.6	4.3
<i>Melosira</i> sp.....			<i>Coelosphaerium Kuetszingianum</i> ..					
<i>Navicula</i> sp.....			<i>C. Naegelianum</i>			GRAND TOTAL.....	76743	46450
<i>Nitzschia</i> sp.....			<i>Gloeocapsa punctata</i>					
<i>Stephanodiscus</i> sp.....			<i>Gomphosphaeria</i> sp.....					
<i>S. hantzschii</i>	6732	673	<i>G. aponina</i>					
<i>Surirella</i> sp.....			<i>G. lacustris</i>					
<i>Synedra</i> sp.....			<i>Lyngbya Birgei</i>					
<i>Tabellaria</i> sp.....			<i>L. Diquetii</i>					
<i>T. fenestrata</i>			<i>L. limnetica</i>	30294	30294			
UID pennate.....			<i>Merismopedia tenuissima</i>					
TOTAL DIATOMS.....	29621	9425	<i>Microcystis aeruginosa</i>					
% of TOTAL.....	38.6	20.3	<i>M. incerta</i>					
			<i>Oscillatoria</i> sp.....					
D. GOLDEN-BROWNS			<i>O. limnetica</i>					
<i>Dinobryon sertularia</i>	11444	2020	<i>O. subbrevis</i>					
TOTAL GOLDEN-BROWNS....	11444	2020	<i>Phormidium mucicola</i>					
% of TOTAL.....	14.9	4.3	UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	30294	30294			
			% of TOTAL.....	39.5	65.2			

LOCATION EAST OF FITZ
 CONTOUR DEPTH 90'
 SAMPLE DATE 6-26-73
 TIME 1150

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 100 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			G. vesticulosa.....			S. quadricauda.....	5596	1596
Actinastrum sp.....			Colenkinia paucispina			Schizochlamys gelatinosa .		
A. gracillimum.....			G. radiata			Schroederia sp.....		
A. hantzschii			Gonium pectorale.....			S. setigera.....		
Ankistrodesmus sp.....			G. sociale			Selenastrum minutum.....		
A. convolutus			Hyalotheca sp.....			Sphaerocystis sp.....		
A. falcatus			H. dissiliens	4389	798	S. Schroteri		
Asterococcus sp.....			Kirchneriella lunaris			Spondylosium sp.....		
Botryococcus protuberans ..			K. obesa			Staurastrum sp.....		
B. sudeticus			Lagerheimia ciliata			S. cuspidatum		
Characium sp.....			L. quadriseta			S. gracile		
Chlamydomonas sp.....	399	399	Micractinium sp			Tetraedron minimum		
C. epiphytica.....			M. pusillum			Tetraspora lacustris		
Chorella ellipsoidea.....			Microspora sp.....	3192	399	T. lamellosa.....		
C. vulgaris.....			Mougeotia sp.....			Treubaria setigerum.....		
Closteriopsis longissima...			Nephrocytium Agardhianum.....			Ulothrix sp.....		
Closterium sp.....			N. obesum.....	1596	798	U. zonata.....		
Coclastrum sp.....			Oedogonium sp.....			Volvox sp.....		
C. cambricum.....			Oocystis sp.....			V. aureus.....		
C. microporum.....	8778	798	O. Borgei.....			UID biflagellate.....		
Cosmarium sp.....			O. parva.....			UID colony.....		
C. crenatum.....			O. pusilla.....			UID 3-celled colony.....		
C. depressum.....			O. solitaria.....			UID desmid.....		
C. formosulum.....			Pandorina morum.....			UID unicellular.....		
C. nitidulum.....			Pediastrum sp.....			UID zygospore.....		
Dactylococcus infusionum...			P. Boryanum.....					
Dictyosphaerium sp.....			P. duplex.....			TOTAL GREENS.....	28728	5586
D. ehrenbergianum.....			P. simplex.....			% of TOTAL.....	26.3	10.4
D. pulchellum.....	2394	399	P. tetras.....					
Dimorphococcus lunatus.....			Quadrigula Chodatii.....			B. EUGLENOIDS		
Echinosphaerella linnetica.			Q. lacustris.....					
Elakatothrix gelatinosa....			Scenedesmus sp.....			Euglena sp.....		
Errerella borhemiensis.....	2394	399	S. acuminatus.....					
Eudorina elegans.....			S. bijuga.....			TOTAL EUGLENOIDS.....		
Gleocystis sp.....			S. brasiliensis.....			% of TOTAL.....		
G. ampla.....			S. denticulatus.....					
G. gigas.....			S. dimorphus.....					
G. planctonica.....			S. longus.....					

LOCATION EAST OF FITZ
 CONTOUR DEPTH 90'
 SAMPLE DATE 6-26-73
 TIME 1150

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 62.6°F
 SAMPLE VOL. 100 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium</u> <u>hirundinella</u>		
<u>A. formosa</u>	1596	1596	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	798	798	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	12768	4788	<u>Aphanocapsa</u> sp.....			<u>Peridinium</u> <u>aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	18354	798	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium</u> <u>Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	109326	53865
<u>S. hantzschii</u>	1197	1197	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....	798	798	<u>Lyngbya</u> <u>Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	34713	34713			
UID pennate.....			<u>Merismopedia</u> <u>tenussima</u>					
TOTAL DIATOMS.....	35511	9975	<u>Microcystis</u> <u>aeruginosa</u>					
% of TOTAL.....	32.5	18.5	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>	10374	3591	<u>O. subbrevis</u>					
			<u>Phormidium</u> <u>mucicola</u>					
TOTAL GOLDEN-BROWNS....	10374	3591	UID crescent-shaped.....					
% of TOTAL.....	9.5	6.7	TOTAL BLUE-GREENS.....	34713	34713			
			% of TOTAL.....	31.8	64.4			

LOCATION WEST OF NMPE
 CONTOUR DEPTH 50'
 SAMPLE DATE 6-26-73
 TIME 1210

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59.0°F
 SAMPLE VOL. 112 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> ..		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>	20447	2556	<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>	639	639	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	1278	1278	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>	639	639
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			UID biflagellate.....		
<u>Cosmarium sp.</u>			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....	1278	1278
<u>C. formosulum</u>			<u>Pandorina morum</u>			UID unicellular.....		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			TOTAL GREENS.....	24281	6390
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	13.1	10.2
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. amola</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION WEST OF NMPE
 CONTOUR DEPTH 50'
 SAMPLE DATE 6-26-73
 TIME 1210

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59.0°F
 SAMPLE VOL. 112 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....	8945	5112	<u>Anabaena</u> sp.....	31948	639	<u>Ceratium</u> <u>hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	4473	4473	<u>Ancystis</u> sp.....	26836	26836	<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	31948	1278	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>					
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....	26197	5112	<u>Coelosphaerium Kuetszingianum</u> ..			TOTAL DINOFLAGELLATES.....		
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			% of TOTAL.....		
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS.....			98399			24920	<u>Microcystis aeruginosa</u>	3195	3195
% of TOTAL.....	53.1	39.8	<u>M. incerta</u>					
D. GOLDEN-BROWNS			<u>Oscillatoria</u> sp.....					
<u>Dinobryon sertularia</u>	639	639	<u>O. limnetica</u>					
TOTAL GOLDEN-BROWNS....	639	639	<u>O. subbrevis</u>	61979	30670			
% of TOTAL.....	0.3	1.0	<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	33.4	49.0			
			% of TOTAL.....					

LOCATION WEST OF EAST CONTROL
 CONTOUR DEPTH 53'
 SAMPLE DATE 6-26-73
 TIME 1215

TABLE III D-1 (cont.)

WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59°F
 SAMPLE VOL. 64 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	1460	365
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>	1460	1460	<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	365	365	<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>	7302	1460	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>	8398	1095	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	365	365	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>	7667	7667
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			TOTAL GREENS	27017	12777
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL	32.4	23.5
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>	730	730
<u>Errerella borhemienensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS	730	730
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL.....	.9	1.3
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION - WEST OF EAST CONTROL
 CONTOUR DEPTH 53'
 SAMPLE DATE 6-26-73
 TIME 1215

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59°F
 SAMPLE VOL. 64 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	16430	6207	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	1095	1095	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	4016	730	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	83243	54399
<u>S. hantzschii</u>	6937	5842	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>	25193	25193			
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	28478	13874	<u>M. incerta</u>					
% of TOTAL.....	34.0	25.6	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>	1460	1460			
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>	365	365	<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....	365	365	TOTAL BLUE-GREENS.....	26653	26653			
% of TOTAL.....	.4	.7	% of TOTAL.....	32.0	49.0			

LOCATION WEST OF EAST CONTROL
 CONTOUR DEPTH 45'
 SAMPLE DATE 6-26-73
 TIME 1220

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59.0°F
 SAMPLE VOL. 122 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			G. vesticulosa.....	71736	5978	S. quadricauda.....		
Actinastrum sp.....	47824	5978	Golenkinia paucispina			Schizochlamys gelatinosa .		
A. gracillimum.....			G. radiata			Schroederia sp.....	11956	11956
A. hantzschii			Gonium pectorale.....			S. setigera.....		
Ankistrodesmus sp.....	11956	11956	G. sociale			Selenastrum minutum.....		
A. convolutus			Hyalotheca sp.....			Sphaerocystis sp.....		
A. falcatus			H. dissiliens	286944	35868	S. Schroteri		
Asterococcus sp.....			Kirchneriella lunaris			Spondylosium sp.....		
Botryococcus protuberans ..			K. obesa			Staurastrum sp.....		
B. sudeticus			Lagerheimia ciliata			S. cuspidatum		
Characium sp.....			L. quadriseta			S. gracile		
Chlamydomonas sp.....	5978	5978	Micractinium sp			Tetraedron minimum		
C. epiphytica.....			M. pusillum			Tetraspora lacustris		
Chorella ellipsoidea.....			Microspora sp.....	59780	5978	T. lamellosa.....		
C. vulgaris.....			Mougeotia sp.....			Treubaria setigerum.....		
Closteriopsis longissima...	5978	5978	Nephrocytium Agardhianum.....			Ulothrix sp.....		
Closterium sp.....			N. obesum.....	47824	17934	U. zonata.....		
Coelastrum sp.....			Oedogonium sp.....			Volvox sp.....		
C. cambricum.....			Oocystis sp.....			V. aureus.....		
C. microporum.....			O. Borgei.....			UID biflagellate.....		
Cosmarium sp.....			O. parva.....			UID colony.....		
C. crenatum.....			O. pusilla.....			UID 3-celled colony.....		
C. depressum.....			O. solitaria.....			UID desmid.....		
C. formosulum.....			Pandorina morum.....			UID unicellular.....	5978	5978
C. nitidulum.....			Pediastrum sp.....			UID zygospore.....		
Dactylococcus infusionum..			P. Boryanum.....					
Dictyosphaerium sp.....			P. duplex.....			TOTAL GREENS.....	699426	125538
D. ehrenbergianum.....			P. simplex.....			% of TOTAL.....	41.5	16.4
D. pulchellum.....			P. tetras.....					
Dimorphococcus lunatus.....			Quadrigula Chodatii.....			B. EUGLENOIDS		
Echinospaerella limnetica..			Q. lacustris.....					
Elakatothrix gelatinosa....			Scenedesmus sp.....			Euglena sp.....		
Errerella borhemiensis.....	95648	5978	S. acuminatus.....					
Eudorina elegans.....	47824	5978	S. bijuga.....			TOTAL EUGLENOIDS.....		
Gleocystis sp.....			S. Brasiliensis.....			% of TOTAL.....		
G. ampla.....			S. denticulatus.....					
G. gigas.....			S. dimorphus.....					
G. planctonica.....			S. longus.....					

LOCATION WEST OF EAST CONTROL
 CONTOUR DEPTH 45'
 SAMPLE DATE 6-26-73
 TIME 1220

TABLE III D-1 (cont.)
 WINDROW PHYTOPLANKTON

WIND SSE @ 15-20
 WATER TEMP. 59.0°F
 SAMPLE VOL. 122 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	185318	59780	<u>A. circinalis</u>	149450	5978	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	83692	29890	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	83692	83692	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	1685796	765184
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....	5978	5978	<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....	11956	5978	<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	382592	392592			
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS.....	370636	185318	<u>Microcystis aeruginosa</u>					
% of TOTAL.....			<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	11956	11956			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>	71736	53802	<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS....	71736	53802	<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	543998	400526			
			% of TOTAL.....					

LOCATION FITZ
 CONTOUR DEPTH 50'
 SAMPLE DATE 7-20-73
 TIME 1030

TABLE III D-2
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. 75.2°C
 SAMPLE VOL. 120 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	31492	2738	<u>S. quadricauda</u>	2738	685
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>	1369	1369
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>	8215	685	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	3423	3423	<u>Nephrocytium Agardhianum</u>	5477	685	<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>	54768	3423	<u>O. Borgei</u>	10954	2738	UID biflagellate.....		
<u>Cosmarium sp.</u>			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. formosulum</u>			<u>Pandorina morum</u>	42445	4792	UID unicellular.....	1369	1369
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	240979	6161	TOTAL GREENS.....	501812	36421
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	47.6	48.7
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>	20538	685	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	79414	7668	<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. amola</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 50'
 SAMPLE DATE 7-20-73
 TIME 1030

TABLE III-D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. 75.2°C
 SAMPLE VOL. 120 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	2738	2738
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	2738	2738	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	9584	9584
<u>F. capucina</u>	90367	3423	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	22592	13007			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	12322	12322
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.1	16.5
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL.....	1053599	74757
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	423083	6161			
TOTAL DIATOMS.....	93105	6161	<u>M. incerta</u>					
% of TOTAL.....	.9	.8	<u>Oscillatoria</u> sp.....	685	685			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....			TOTAL BLUE-GREENS.....	446360	19853			
			% of TOTAL.....	42.4	26.6			

LOCATION FITZ
 CONTOUR DEPTH 60'
 SAMPLE DATE 7-20-73
 TIME 1035

TABLE III D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 72.2°C
 SAMPLE VOL. 48 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	1532	192	<u>S. quadricauda</u>	1532	192
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	192	192	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>	21450	766	<u>O. Borgei</u>	766	192	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	24515	1915	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	24515	766	TOTAL GREENS.....	108784	7088
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	85.8	62.7
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	13789	766	<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>	5363	192	<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 60'
 SAMPLE DATE 7-20-73
 TIME 1035

TABLE III D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 72.2°C
 SAMPLE VOL. 48 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS. L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	958	958	<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	192	192	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	3447	1724	<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	958	958
<u>F. capucina</u>	2873	192	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	958	958
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	0.8	0.5
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	126788	11304
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	9576	192			
TOTAL DIATOMS	4023	1342	<u>M. incerta</u>					
% of TOTAL.....	3.2	11.9	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	13023	1916			
% of TOTAL.....			% of TOTAL.....	10.4	17.0			

LOCATION NMPP
 CONTOUR DEPTH 60'
 SAMPLE DATE 7-20-73
 TIME 1045

TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°C
 SAMPLE VOL. 100 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	61271	6047	<u>S. quadricauda</u>		
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	18256	18256	<u>Micractinium</u> sp	9128	798	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	798	798	<u>Nephrocytium Agardhianum</u>	6047	798	<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>	12208	342
<u>C. microporum</u>	32290	1483	<u>O. Borgei</u>	20195	5362	UID biflagellate.....		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. formosulum</u>			<u>Pandorina morum</u>	73024	3080	UID unicellular.....	2624	2624
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	42559	1483			
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	46438	1939			
<u>D. ehrenbergianum</u>			<u>P. simplex</u>					
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>					
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....					
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	39592	3080	<u>S. bijuga</u>					
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>					
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPP
 CONTOUR DEPTH 60'
 SAMPLE DATE 7-20-73
 TIME 1045

TABLE III D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°C
 SAMPLE VOL. 100 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	37653	37653	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	49063	49063
<u>F. capucina</u>			<u>A. flos-aquae</u>	265853	37653	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	49063	49063
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	1.1	3.4
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	4669423	1459789
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	37653	37653	<u>Microcystis aeruginosa</u>	3841747	1178653			
% of TOTAL.....	0.8	2.6	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	110677	110677			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	4218277	1326983			
			% of TOTAL.....	90.3	90.9			

TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND _____
WATER TEMP. 74.0°C
SAMPLE VOL. 86 mls

1-347

LOCATION NMPP
 CONTOUR DEPTH 50'-60'
 SAMPLE DATE 7-20-73
 TIME 1050

TABLE III-D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 74.0°C
 SAMPLE VOL. 86 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	686	686
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....	206	206	<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	5696	5696	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	59706	686	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	14618	14618
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	1853	480	<u>Chroococcus</u> sp.....	65883	65883	TOTAL DINOFLAGELLATES	15304	15304
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	2.6	6.6
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	582241	231483
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	67461	7068	<u>Microcystis aeruginosa</u>	104795	104795			
% of TOTAL.....	11.6	3.1	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	2745	206			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	173423	170884			
			% of TOTAL.....	29.8	73.8			

LOCATION FITZ
 CONTOUR DEPTH 27'
 SAMPLE DATE 7-20-73
 TIME 1100

TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. 74.0°C
 SAMPLE VOL. 77 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	66054	6144	<u>S. quadricauda</u>	1229	307
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	307	307	<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>	614	614	<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>	54072	614	<u>O. Borgei</u>	11060	2458	UID biflagellate.....		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. formosulum</u>			<u>Pandorina morum</u>	31952	3994	UID unicellular.....	307	307
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	41783	1536	TOTAL GREENS.....	250697	19967
<u>D. ehrenbergianum</u>	307	307	<u>P. simplex</u>			% of TOTAL.....	56.7	10.2
<u>D. pulchellum</u>			<u>P. tetras</u>	1229	307			
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	41783	3072	<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 27'
 SAMPLE DATE 7-20-73
 TIME 1100

TABLE III-D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 74.0°C
 SAMPLE VOL. 77 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	3687	3687	<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	2458	2458
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	17512	922	<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	2458	2458
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	.6	1.3
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	442409	195089
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	21199	4609	<u>Microcystis aeruginosa</u>	129037	129037			
% of TOTAL.....	4.8	2.4	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	39018	39018			
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
D. GOLDEN-BROWNS			TOTAL BLUE-GREENS	168055	168055			
<u>Dinobryon sertularia</u>			% of TOTAL.....	38.0	86.1			
TOTAL GOLDEN-BROWNS								
% of TOTAL.....								

LOCATION FITZ W
 CONTOUR DEPTH 27'
 SAMPLE DATE 7-20-73
 TIME 1105

TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 74.0°C
 SAMPLE VOL. 102 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	3954	4477	<u>S. quadricauda</u>		
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	814	814	<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>	4070	4070	<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....	24419	814	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....	6512	2035	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>	13023	407	<u>Oocystis</u> sp.....	9768	2442	<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>	26861	2849	<u>UID desmid</u>	814	814
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	84652	3256			
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>			TOTAL GREENS.....	251109	25641
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	29.0	
<u>D. pulchellum</u>			<u>P. tetras</u>	2849	407			
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemienensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	30524	2849	<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>	2849	407	<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					
			1-351					

LOCATION FITZ W
 CONTOUR DEPTH 27'
 SAMPLE DATE 7-20-73
 TIME 1105

TABLE III-D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 74.0°C
 SAMPLE VOL. 102 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	407	407
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	3663	3663
<u>Coscinodiscus</u> sp.....	4477	4477	<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	407	407
<u>F. capucina</u>	12209	407	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	4477	4477
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.5	.7
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	868091	625530
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....	5698	407			
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	16686	4884	<u>Microcystis aeruginosa</u>	505469	505469			
% of TOTAL		0.8	<u>M. incerta</u>	84652	84652			
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	595819	590528			
			% of TOTAL	68.6	95.0			

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 60'
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TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°F
 SAMPLE VOL. 71 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	48202	891	<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>	405	405
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	1215	1215	<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>	22683	1620	<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>	12152	4051	<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>	12962	1620	<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>	810	810
<u>C. nitidulum</u>			<u>Pediastrum sp</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	64809	2835	TOTAL GREENS.....	200503	15877
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	36.8	6.9
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> .			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	37265	2430	<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION _____ PROGRESS CENTER _____
 CONTOUR DEPTH 60'
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TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. 75.0°F
 SAMPLE VOL. 71 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E: BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>	810	810
<u>Cyclotella</u> sp.....	3645	3645	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	810	810
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	17417	1620			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	1620	1620
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	0.3	0.7
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	544799	230150
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	307437	193211			
TOTAL DIATOMS.....	3645	3645	<u>M. incerta</u>					
% of TOTAL.....	0.7	1.6	<u>Oscillatoria</u> sp.....	6076	6076			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>	8101	8101			
TOTAL GOLDEN-BROWNS....			<u>O. angustissima</u>	339031	209008			
% of TOTAL.....			TOTAL BLUE-GREENS.....	62.2	90.8			
			% of TOTAL.....					

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 50'-60'
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TABLE III-D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°F
 SAMPLE VOL. 69 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosus</u>	111776	8535	<u>S. quadricauda</u>	7709	1377
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum</u> sp.....	551	551
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....	275	275	<u>L. quadriseta</u>	4405	275	<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp	8259	275	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>	275	275	<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....	4130	275
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....	35240	1927	<u>Oedogonium</u> sp.....	12389	3304	<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>	49556	8810	<u>UID desmid</u>	275	275
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	61669	2202			
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	10462	551	TOTAL GREENS.....	353774	32761
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	63.5	14.2
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	46803	3854	<u>S. bijugus</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 50'-60'
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TABLE III D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. 75.0°F
 SAMPLE VOL. 69 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	3854	3854	<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	275	275	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	5506	275	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	3083	3083
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	0383	3083
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	0.6	1.3
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	557006	230753
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	9635	4395	<u>Microcystis aeruginosa</u>	166287	166287			
% of TOTAL.....	1.7	1.9	<u>M. incerta</u>	24227	24227			
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	190514	190514			
			% of TOTAL.....	34.2	82.6			

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 13'
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TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°F
 SAMPLE VOL. 112 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	204960	13664	<i>S. quadricauda</i>	25620	5124
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....	854	854	<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....	1708	1708
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....	5978	5978	<i>Micractinium</i> sp	149450	2562	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>	25620	25620	<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocystium Agardhianum</i>	7686	2562	<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....	61488	4720	<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>	46970	17934	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	235704	28182	UID unicellular.....	6832	6832
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...	35868	2562	<i>P. Boryanum</i>	84546	7686			
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	10248	854	TOTAL GREENS.....	1118740	144776
<i>D. ehrenbergianum</i>			<i>P. simplex</i>			% of TOTAL.....	55.0	23.0
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella linnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....	854	854
<i>Errerella borhemienensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	215208	17934	<i>S. bijuga</i>			TOTAL EUGLENOIDS.....	854	854
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....	0.04	0.13
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 13'
 SAMPLE DATE 7-20-73
 TIME 1135

TABLE III D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°F
 SAMPLE VOL. 112 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella sp.</u>			<u>Anabaena sp.</u>			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium sp.</u>		
<u>Cocconeis sp.</u>	2562	2562	<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus sp.</u>			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis sp.</u>			<u>G. quadridens</u>		
<u>Cyclotella sp.</u>	4270	4270	<u>A. limneticus</u>			<u>Gymnodinium sp.</u>		
<u>Diatoma elongatum</u>			<u>Aphanocapsa sp.</u>			<u>Peridinium aciculiferum</u>		
<u>Fragilaria sp.</u>			<u>Aphanizomenon sp.</u>			<u>P. cinctum</u>	1708	1708
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	7686	1708	<u>Chroococcus sp.</u>	380884	377468	TOTAL DINOFLAGELLATES	1708	1708
<u>Gomphonema sp.</u>			<u>C. limneticus</u>			% of TOTAL	0.1	0.3
<u>Gyrosigma sp.</u>			<u>C. minutus</u>					
<u>Melosira sp.</u>			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula sp.</u>			<u>C. Naegelianum</u>					
<u>Nitzschia sp.</u>			<u>Gloeocapsa punctata</u>			GRAND TOTAL	2023980	638388
<u>Stephanodiscus sp.</u>	854	854	<u>Gomphosphaeria sp.</u>					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella sp.</u>			<u>G. lacustris</u>					
<u>Synedra sp.</u>			<u>Lyngbya Birgei</u>					
<u>Tabellaria sp.</u>			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	15372	9394	<u>Microcystis aeruginosa</u>	435540	70028			
% of TOTAL	0.8	1.5	<u>M. incerta</u>					
			<u>Oscillatoria sp.</u>	70882	34160			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	887306	481656			
			% of TOTAL	43.8	75.4			

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 15'
 SAMPLE DATE 7-20-73
 TIME 1140

TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. 75.0°F
 SAMPLE VOL. 74 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	144382	13087	<u>S. quadricauda</u>		
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .	1689	422
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>	13509	1689	<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....	422	422
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	17731	17731	<u>Micractinium</u> sp	30396	2533	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteropsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>	23642	2533	<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>	67547	3800	<u>O. Borgei</u>	35040	8443	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	60792	5910	<u>UID unicellular</u>	2533	2533
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	6755	422			
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	68392	3377	TOTAL GREENS	675049	72612
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL	47.8	13.2
<u>D. pulchellum</u>	5066	422	<u>P. tetras</u>			B. EUGLENOIDS		
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>					
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>			<u>Euglena</u> sp.....		
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....					
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>			TOTAL EUGLENOIDS		
<u>Eudorina elegans</u>	197153	9288	<u>S. bijuga</u>			% of TOTAL		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>					
<u>G. amola</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION _____ PROGRESS CENTER _____
 CONTOUR DEPTH 15'
 SAMPLE DATE 7-20-73
 TIME 1140

TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. 75.0°F
 SAMPLE VOL. 74 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	5910	5910	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....	8443	8443
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	48972	1689			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	8443	8443
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL	0.6	1.5
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	1411313	551353
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	5910	5910	<u>Microcystis aeruginosa</u>	631566	421326			
% of TOTAL	0.4	1.1	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	41373	41373			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	721911	464388			
			% of TOTAL	51.2	84.2			

LOCATION 1/4 MIW PROG CENTER
 CONTOUR DEPTH 16'-20'
 SAMPLE DATE 7-20-73
 TIME 1200

TABLE III D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°F
 SAMPLE VOL. 65 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	207292	15780	<u>S. quadricauda</u>	5738	1435
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>	71728	717	<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> .			<u>K. obesa</u>			<u>Staurastrum</u> sp.....	1435	1435
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	1435	1435	<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	717	717	<u>Nephrocystium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....	17215	1435	<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgel</u>	29408	5738	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	93246	10759	<u>UID unicellular</u>	3586	3586
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ..			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	126240	5021	TOTAL GREENS	740228	57424
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL	54.9	33.2
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> .			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>	14346	717	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	167842	18649	<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. amela</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION 1/4 MIW PROG CENTER
 CONTOUR DEPTH 16'-20'
 SAMPLE DATE 7-20-73
 TIME 1200

TABLE III D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°F
 SAMPLE VOL. 65 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium</u> <u>hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	25822	17215	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	78900	2152	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	15780	15780
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	21518	717	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	15780	15780
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	1.2	7.8
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL.....	1348835	202988
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	365810	3587			
TOTAL DIATOMS.....	126240	20084	<u>Microcystis aeruginosa</u>	8249	3586			
% of TOTAL.....	9.4	9.9	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	92528	92528			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS....			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	466587	99700			
			% of TOTAL.....	34.6	49.1			

LOCATION 1/4 W PROG CENTER
 CONTOUR DEPTH 16'
 SAMPLE DATE 7-20-73
 TIME 1205

TABLE III-D-2 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP. 75.0°F
 SAMPLE VOL. 88 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	5618	1404
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>	913	211	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	492	492	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>	3301	492
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>	14958	4003	<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	145855	12851	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...	3722	211	<u>P. Boryanum</u>	75350	3301	<u>S. Incrassatulus</u>	913	211
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	45435	2317	<u>TOTAL GREENS</u>	459478	50002
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	5618	492	<u>% of TOTAL</u>	65.1	23.7
<u>D. pulchellum</u>			<u>P. tetras</u>	3301	211			
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u>			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	130617	17064	<u>S. bijugata</u>			<u>TOTAL EUGLENOIDS</u>		
<u>Gleocystis sp.</u>	19683	3020	<u>S. Brasiliensis</u>			<u>% of TOTAL</u>		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>	3722	3722	<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION 1/4 W PROG CENTER
 CONTOUR DEPTH 16'
 SAMPLE DATE 7-20-73
 TIME 1205

TABLE III D-2 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. 75.0°F
 SAMPLE VOL. 88 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....	1896	211	<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	702	702
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	29283	29283	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	5126	492	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	20857	20857
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	2809	1404	<u>Chroococcus</u> sp.....	73525	73525			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	21559	21559
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL	3.1	10.2
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	705824	211096
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	211	211	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	39325	31601	<u>Microcystis aeruginosa</u>	93889	31811			
% of TOTAL	5.6	15.0	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	18048	2598			
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
D. GOLDEN-BROWNS			TOTAL BLUE-GREENS	185462	107934			
<u>Dinobryon sertularia</u>			% of TOTAL	26.3	51.1			
TOTAL GOLDEN-BROWNS								
% of TOTAL								

LOCATION FITZ
 CONTOUR DEPTH 66'
 SAMPLE DATE 7-27-73
 TIME 1230

TABLE III-D-3
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 41 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	67528	4377	<i>S. quadricauda</i>	3752	938
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .	15006	1251
<i>A. gracillimum</i>			<i>G. radiata</i>	1251	1251	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....	313	313	<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>	1251	1251	<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	938	938
<i>Chlamydomonas</i> sp.....	3126	3126	<i>Micractinium</i> sp	1251	1251	<i>Tetraedron minimum</i>	313	313
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>	1876	1876	<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>	6878	2814	<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>	625	625
<i>Closteriopsis longissima</i> ...	2188	2188	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. canbricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	32513	1563	<i>O. Borgei</i>	5002	1251	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>	625	625	<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	20008	1251	UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....	313	313
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	15006	625			
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	46269	2501	TOTAL GREENS.....	342643	38459
<i>D. ehrenbergianum</i>	26261	938	<i>P. simplex</i>	5002	313	% of TOTAL.....	64.8	73.7
<i>D. pulchellum</i>	18758	1876	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>	10004	313	<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	43768	1251	<i>S. bijuga</i>	625	313	TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>	2501	625			
<i>G. gigas</i>	938	938	<i>S. dimorphus</i>	5002	625			
<i>G. planctonica</i>	251	313	<i>S. longus</i>	2501	313			



LOCATION FITZ
 CONTOUR DEPTH 66'
 SAMPLE DATE 7-27-73
 TIME 1230

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 41 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	3439	3439
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	20321	625	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	1871	1876
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	625	625
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	5935	5940
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.1	11.4
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	528651	52215
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	7816	313	<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>	15631	625			
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	28137	938	<u>Microcystis aeruginosa</u>	135992	5940			
% of TOTAL	5.3	1.8	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	313	313			
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
D. GOLDEN-BROWNS			TOTAL BLUE-GREENS	151936	6878			
<u>Dinobryon sertularia</u>			% of TOTAL	28.7	13.2			
TOTAL GOLDEN-BROWNS								
% of TOTAL								

LOCATION FITZ
 CONTOUR DEPTH 69'
 SAMPLE DATE 7-26-73
 TIME 1235

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 53 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	290970	17822	<u>S. quadricauda</u>	9699	2425
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .	100223	6062
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....	1617	1617	<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	2425	2425
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	3233	3233	<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>	1617	404	<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....	8083	404	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	2425	2425	<u>Nephrocytium Agardhianum</u>	3233	404	<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>	6870	808	<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>	22631	2425	<u>O. Borgei</u>	17377	5254	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>	1617	404	<u>UID colony</u>		
<u>C. crenatum</u>	808	808	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	45262	2021	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ..			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	101435	5254	TOTAL GREENS.....	811080	68339
<u>D. ehrenbergianum</u>	1212	404	<u>P. simplex</u>			% of TOTAL.....	31.3	54.2
<u>D. pulchellum</u>	93757	5254	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ..			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>	64660	808	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	15761	2425	<u>S. bijuga</u>	6466	1212			
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			TOTAL EUGLENOIDS.....		
<u>G. ampla</u>			<u>S. denticulatus</u>	3233	808	% of TOTAL.....		
<u>G. gigas</u>	3233	2829	<u>S. dimorphus</u>	3233	404			
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 69'
 SAMPLE DATE 7-26-73
 TIME 1235

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 53 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	24248	2425	<u>G. palustre</u>	1617	1617
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	4041	4041
<u>F. capucina</u>	54557	2829	<u>A. flos-aquae</u>	12932	404	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES.....	5658	5658
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	0.2	4.5
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..	242475	3233			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL.....	2591646	126129
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	9699	404			
<u>Synedra</u> sp.....			<u>Lynqbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS.....	54557	2829	<u>Microcystis aeruginosa</u>	1426956	38796			
% of TOTAL.....	2.1	2.2	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS....			<u>Phormidium mucicola</u>	4041	4041			
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	1720351	49303			
			% of TOTAL.....	66.4	39.1			

LOCATION FITZ
 CONTOUR DEPTH 69'
 SAMPLE DATE 7-26-73
 TIME 1237

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 36 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	172935	16470	<u>S. quadricauda</u>	11529	3294
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .	131760	5490
<u>A. gracillimum</u>			<u>G. radiata</u>	824	824	<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>	1098	1098	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>	2196	275	<u>S. cuspidatum</u>	1373	1373
<u>Characium</u> sp.....	4392	4392	<u>L. quadriseta</u>			<u>S. gracile</u>	275	275
<u>Chlamydomonas</u> sp.....	1098	1098	<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>	3020	1373	<u>M. pusillum</u>	25803	1098	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>	20039	4941	<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>	2196	2196	<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>	6039	1098	<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>	41724	2745	<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>	9882	3569	UID biflagellate.....		
<u>Cosmarium</u> sp.....			<u>O. parva</u>	824	275	UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>	275	275	UID desmid.....		
<u>C. formosulum</u>	824	549	<u>Pandorina morum</u>			UID unicellular.....		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	4392	275			
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	157014	6588	TOTAL GREENS.....	703275	70829
<u>D. ehrenbergianum</u>	15921	1373	<u>P. simplex</u>	4392	275	% of TOTAL.....	46.3	66.7
<u>D. pulchellum</u>	47489	3020	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>	1098	275	B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...	275	275	<u>Q. lacustris</u>			<u>Euglena</u> sp.....		
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....					
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	23882	2196	<u>S. bijuqa</u>	6039	1098			
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>					
<u>G. ampla</u>	2471	2196	<u>S. denticulatus</u>	1098	275	TOTAL EUGLENOIDS.....		
<u>G. gigas</u>			<u>S. dimorphus</u>	1098	275	% of TOTAL.....		
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
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TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 36 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....	275	275	<u>A. spiroides</u>	291245	1373	<u>G. pulvisculus</u>	2196	2196
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	2745	2745	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	549	549
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	275	275
<u>F. crotonensis</u>	9882	1373	<u>Chroococcus</u> sp.....	26352	824			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	3020	3020
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL	0.2	2.8
<u>Melosira</u> sp.....	824	275	<u>Coelosphaerium Kuetzingianum</u> ..	68625	1647			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	1518268	106244
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	50508	2471			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenussima</u>					
TOTAL DIATOMS	13726	4668	<u>Microcystis aeruginosa</u>	260775	2471			
% of TOTAL	0.9	4.4	<u>M. incerta</u>	82350	549			
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>	18117	18117			
TOTAL GOLDEN-BROWNS			UID crescent-shaped.....	275	275			
% of TOTAL								
			TOTAL BLUE-GREENS	798247	27727			
			% of TOTAL	52.6	26.1			

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 CONTOUR DEPTH 72'
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TABLE III D-3 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 33 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	52438	7283	<i>S. quadricauda</i>	1092	728
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .	99050	4734
<i>A. gracillimum</i>	6555	2913	<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>	11653	364	<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	364	364
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>	1092	1092	<i>M. pusillum</i>	364	364	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	2913	2913	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	75016	2185	<i>Oocystis</i> sp.....	21121	5462	<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>			<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....	728	728	<i>O. parva</i>			<i>UID colony</i>		
<i>C. crenatum</i>			<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>			<i>O. solitaria</i>			<i>UID desmid</i>		
<i>C. formosulum</i>			<i>Pandorina morum</i>	16023	1821	<i>UID unicellular</i>		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			<i>UID zygospore</i>		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	11653	728			
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	34959	821	TOTAL GREENS.....	410037	39054
<i>D. ehrenbergianum</i>	33502	2913	<i>P. simplex</i>			% of TOTAL.....	40.9	51.4
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>	34959	728	<i>S. acuminatus</i>					
<i>Eudorina elegans</i>			<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>	1457	364			
<i>G. gigas</i>	5098	2549	<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

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 CONTOUR DEPTH 72'
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TABLE III-D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 33 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	364	364
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	14566	1092	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	5462	5462
<u>C. subtilis</u>	728	728	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	10925	364	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	728	728
<u>F. capucina</u>	9104	364	<u>A. flos-aquae</u>	5826	364	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	6554	6554
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL	0.7	8.6
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	182078	1457			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	1003245	75977
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	1457	364			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenussima</u>	168968	6336			
TOTAL DIATOMS	20757	1456	<u>Microcystis aeruginosa</u>					
% of TOTAL	2.1	1.9	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
D. GOLDEN-BROWNS			<u>Phormidium mucicola</u>	193002	193002			
<u>Dinobryon sertularia</u>			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	565897	28913			
% of TOTAL			% of TOTAL	56.4	38.1			

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 72'
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TABLE III-D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 25 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	61899	7987	<u>S. quadricauda</u>	3994	1141
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .	128933	4849
<u>A. gracillimum</u>	1141	285	<u>G. radiata</u>	1141	1141	<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>	1141	285	<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	856	856
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>	856	856
<u>Chlamydomonas sp.</u>	1141	1141	<u>Micractinium sp</u>	4564	285	<u>Tetradron minimum</u>		
<u>C. epiphytica</u>	2282	2282	<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>	9128	1141	<u>Microspora sp.</u>			<u>T. lamellosa</u>	10269	856
<u>C. vulgaris</u>	4279	1997	<u>Mougeotia sp.</u>	8558	285	<u>Treubaria setigerum</u>	285	285
<u>Closteriopsis longissima</u> ...	856	856	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>	43358	2282	<u>O. Borgei</u>	30237	7131	UID biflagellate.....		
<u>Cosmarium sp.</u>			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>	285	285	UID desmid.....		
<u>C. formosulum</u>			<u>Pandorina morum</u>	39935	5135	UID unicellular.....		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>	33089	1426	<u>P. duplex</u>	112959	4279	TOTAL GREENS.....	565084	59333
<u>D. ehrenbergianum</u>	13692	571	<u>P. simplex</u>	1712	285	% of TOTAL.....	64.5	60.8
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>	4564	856	B. EUGLENOIDS		
<u>Echinospaerella limnetica</u>			<u>Q. lacustris</u>			<u>Euglena sp.</u>		
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>					
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	26814	2567	<u>S. bijuga</u>	1712	571			
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>					
<u>G. ampla</u>			<u>S. denticulatus</u>	1141	285			
<u>G. gigas</u>	7417	6276	<u>S. dimorphus</u>	2282	285			
<u>G. planctonica</u>			<u>S. longus</u>					
			<u>P. biradiatum</u>	4564	571			

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TABLE III D-3 (cont.)

WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 25 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium</u> <u>hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	1426	1426	<u>A. flos-aquae</u>	8558	571	<u>G. palustre</u>	14548	14548
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	571	571
<u>C. subtilis</u>	1997	1997	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	1997	1997
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	1426	1426
<u>F. capucina</u>	9984	571	<u>A. flos-aquae</u>	9128	856	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	18542	18542
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL	2.1	19.0
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>	27284	856			
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	875708	97559
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	27284	856			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	150612	9128			
TOTAL DIATOMS	13407	3994	<u>Microcystis aeruginosa</u>					
% of TOTAL	1.5	4.1	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>	28525	3423			
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	278675	15690			
			% of TOTAL	31.8	16.1			

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TABLE III D-3 (cont.)

WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 25 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	102350	5793	<i>S. quadricauda</i>	10483	2483
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .	19863	1104
<i>A. gracillimum</i>	2207	276	<i>G. radiata</i>	276	276	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	552	552
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....	3311	3311	<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>	8828	552
<i>C. vulgaris</i>	11311	3586	<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocytium Agardhianum</i>	2207	276	<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>	2207	276	<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	2207	276	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	41933	2207	<i>O. Borgei</i>	6621	1379	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>	3862	828	UID colony.....		
<i>C. crenatum</i>	552	552	<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>	1655	1655	UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	92694	5793	UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	6897	828	<i>S. Westii</i>	276	276
<i>Dictyosphaerium</i> sp.....	22070	1104	<i>P. duplex</i>	24829	1655	TOTAL GREENS.....	472301	41385
<i>D. ehrenbergianum</i>			<i>P. simplex</i>	4414	276	% of TOTAL.....	87.9	64.9
<i>D. pulchellum</i>	17104	828	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...	552	552	<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>	44416	1104	<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	30898	1379	<i>S. bijuga</i>	1104	276	TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>	2207	276			
<i>G. gigas</i>	1104	1104	<i>S. dimorphus</i>	3311	552			
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION PROGRESS CENTER
 CONTOUR DEPTH 72'
 SAMPLE DATE 7-26-73
 TIME 1247

TABLE III-D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 25 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	828	276	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	276	276	<u>A. flos-aquae</u>	2207	276	<u>G. palustre</u>	14070	14070
<u>Coscinodiscus</u> sp.....	276	276	<u>A. spiroides</u>			<u>G. pulvisculus</u>	276	276
<u>C. subtilis</u>	276	276	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	2759	2759
<u>F. capucina</u>	22623	1104	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	552	552
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	17657	17657
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL	3.3	27.7
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>	8828	276			
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	537135	63733
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	11587	1655			
TOTAL DIATOMS	24003	1932	<u>Microcystis aeruginosa</u>					
% of TOTAL	4.5	3.0	<u>M. incerta</u>	552	552			
			<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
D. GOLDEN-BROWNS			TOTAL BLUE-GREENS	23174	2759			
<u>Dinobryon sertularia</u>			% of TOTAL	4.3	4.3			
TOTAL GOLDEN-BROWNS								
% of TOTAL								

LOCATION NMPP
 CONTOUR DEPTH 52'
 SAMPLE DATE 7-26-73
 TIME 1252

TABLE III D-3 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 28 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>			<i>S. quadricauda</i>	8967	2349
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .	38430	3416
<i>A. gracillimum</i>			<i>G. radiata</i>	427	427	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	854	854
<i>Chlamydomonas</i> sp.....	2349	2349	<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>	6832	426	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>	1708	2349	<i>Mougeotia</i> sp.....	1708	214	<i>Treubaria setigerum</i>	214	214
<i>Closteriopsis longissima</i> ...	1068	1068	<i>Nephrocystium Agardhianum</i>	1708	214	<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....	214	214	<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	122976	2989	<i>O. Borgei</i>	9821	1495	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>	854	214	UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	34160	2349	UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....	2989	2989
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	13664	641			
<i>Dictyosphaerium</i> sp.....	6832	214	<i>P. duplex</i>	70028	2989	TOTAL GREENS.....	392877	34597
<i>D. ehrenbergianum</i>	44835	1495	<i>P. simplex</i>	8540	641	% of TOTAL.....	62.8	54.5
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>			<i>Euglena</i> sp.....		
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....					
<i>Errerella borhemensis</i>	3416	214	<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	8540	641	<i>S. bijuga</i>	5124	854			
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			TOTAL EUGLENOIDS.....		
<i>G. ampla</i>	854	214	<i>S. denticulatus</i>	3843	854	% of TOTAL.....		
<i>G. gigas</i>	1068	1068	<i>S. dimorphus</i>					
<i>G. planctonica</i>	854	641	<i>S. longus</i>					

LOCATION NMPP
 CONTOUR DEPTH 52'
 SAMPLE DATE 7-26-73
 TIME 1252

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 28 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella sp.</u>			<u>Anabaena sp.</u>			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium sp.</u>		
<u>Cocconeis sp.</u>	427	427	<u>A. flos-aquae</u>			<u>G. palustre</u>	4270	4270
<u>Coscinodiscus sp.</u>			<u>A. spiroides</u>			<u>G. pulvisculus</u>	214	214
<u>C. subtilis</u>	427	427	<u>Ancystis sp.</u>			<u>G. quadridens</u>		
<u>Cyclotella sp.</u>			<u>A. limneticus</u>			<u>Gymnodinium sp.</u>		
<u>Diatoma elongatum</u>			<u>Aphanocapsa sp.</u>			<u>Peridinium aciculiferum</u>		
<u>Fragilaria sp.</u>			<u>Aphanizomenon sp.</u>			<u>P. cinctum</u>	641	641
<u>F. capucina</u>	7473	427	<u>A. flos-aquae</u>	6619	1068	<u>P. inconspicuum</u>	854	854
<u>F. crotonensis</u>	21350	214	<u>Chroococcus sp.</u>			TOTAL DINOFLAGELLATES	5979	5979
<u>Gomphonema sp.</u>			<u>C. limneticus</u>			% of TOTAL.....	1.0	9.4
<u>Gyrosigma sp.</u>			<u>C. minutus</u>					
<u>Melosira sp.</u>			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula sp.</u>			<u>C. Naegelianum</u>			GRAND TOTAL	625808	63423
<u>Nitzschia sp.</u>			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus sp.</u>			<u>Gomphosphaeria sp.</u>					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella sp.</u>			<u>G. lacustris</u>					
<u>Synedra sp.</u>			<u>Lyngbya Birgei</u>					
<u>Tabellaria sp.</u>			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	29677	1495	<u>Microcystis aeruginosa</u>	83692	19856			
% of TOTAL.....	4.7	2.4	<u>M. incerta</u>	106750	214			
			<u>Oscillatoria sp</u>	214	214			
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
D. GOLDEN-BROWNS			TOTAL BLUE-GREENS	197275	21352			
<u>Dinobryon sertularia</u>			% of TOTAL.....	31.5	33.7			
TOTAL GOLDEN-BROWNS								
% of TOTAL.....								

LOCATION NMPP
 CONTOUR DEPTH 51'
 SAMPLE DATE 7-26-73
 TIME 1254

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 31 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	58154	6841	<i>S. quadricauda</i>	4105	1026
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>	342	342	<i>Schizochlamys gelatinosa</i> .	112888	8210
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>	51313	5131
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	1026	1026
<i>Chlamydomonas</i> sp.....	4789	4789	<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>	3421	3421	<i>M. pusillum</i>	10947	342	<i>Tetraspora lacustris</i>	6842	1710
<i>Chorella ellipsoidea</i>	7526	1368	<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>	7868	2395	<i>Mougeotia</i> sp.....	10263	684	<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	8210	684	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	27367	2053	<i>O. Borgel</i>	17788	5131	<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....			<i>O. parva</i>	4105	684	<i>UID colony</i>		
<i>C. crenatum</i>			<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>			<i>O. solitaria</i>			<i>UID desmid</i>		
<i>C. formosulum</i>			<i>Pandorina morum</i>	27367	3079	<i>UID unicellular</i>		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....	2737	342	<i>UID zygospore</i>	342	342
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	10947	684			
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	29260	2395	TOTAL GREENS.....	494655	65677
<i>D. ehrenbergianum</i>			<i>P. simplex</i>	5473	342	% of TOTAL.....	73.9	71.9
<i>D. pulchellum</i>	17104	1368	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>	1368	342	<i>Quadrigula Chodatii</i>	2737	684	B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...	684	684	<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>	16420	1026	<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....	342	342
<i>Errerella borhemienensis</i>	8210	684	<i>S. acuminatus</i>					
<i>Eudorina elegans</i>			<i>S. bijugus</i>	1368	342	TOTAL EUGLENOIDS.....	342	342
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....	.1	.4
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>	10947	7184	<i>S. dimorphus</i>					
<i>G. planctonica</i>	2737	342	<i>S. longus</i>					

LOCATION MMPP
 CONTOUR DEPTH 51'
 SAMPLE DATE 7-26-73
 TIME 1254

TABLE III-D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 31 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	12999	12999
<u>C. subtilis</u>	2737	2737	<u>Ancystis</u> sp.....			<u>G. quadridens</u>	4026	1026
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	3079	3079
<u>F. capucina</u>	17446	10210	<u>A. flos-aquae</u>	10947	342	<u>P. inconspicuum</u>	1026	1026
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	18130	18130
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL	2.7	9.9
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..			GRAND TOTAL	669118	91332
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	27367	684			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenussima</u>	92363	1368			
TOTAL DIATOMS	20183	3763	<u>Microcystis aeruginosa</u>					
% of TOTAL	3.0	4.1	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>	5131	1026			
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	135808	3420			
			% of TOTAL	20.3	3.7			

LOCATION NMPP
 CONTOUR DEPTH 51'
 SAMPLE DATE 7-26-73
 TIME 1256

TABLE III D-3 (cont.)

WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 28 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	111851	21011	<i>S. quadricauda</i>	11123	2781
<i>Actinastrum</i> sp.....	309	309	<i>Golenkinia paucispina</i>	309	309	<i>Schizochlamys gelatinosa</i> .	118957	8033
<i>A. gracillimum</i>			<i>G. radiata</i>	309	309	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>	309	309	<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	309	309
<i>Chlamydomonas</i> sp.....	2163	2163	<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>	927	927	<i>M. pusillum</i>	18539	309	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>	9578	2781	<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>	3090	1236	<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>	613	613
<i>Closteriopsis longissima</i> ...	927	927	<i>Nephrocystium Agardhianum</i>	3708	309	<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>	1236	309	<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	16067	618	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	45111	4017	<i>O. Borgel</i>	19157	5253	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>	3399	927	UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>	309	309	UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	45729	4017	UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....	5562	5562
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	4944	618			
<i>Dictyosphaerium</i> sp.....	69212	1545	<i>P. duplex</i>	56543	2472	TOTAL GREENS.....	631553	77552
<i>D. ehrenbergianum</i>	7416	618	<i>P. simplex</i>	19775	927	% of TOTAL.....	68.4	46.9
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>	1236	309	B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemienensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	40167	2781	<i>S. bijuga</i>	2472	618	TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>	1236	309			
<i>G. gigas</i>	2781	2781	<i>S. dimorphus</i>	3708	618			
<i>G. planctonica</i>			<i>S. longus</i>	2472	309			

LOCATION NMPP
 CONTOUR DEPTH 51'
 SAMPLE DATE 7-26-73
 TIME 1256

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 28 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	3399	3399	<u>A. flos-aquae</u>	6180	618	<u>G. palustre</u>	7416	7416
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	1236	1236
<u>C. subtilis</u>	1545	1545	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	1236	1236
<u>F. capucina</u>			<u>A. flos-aquae</u>	12359	4017	<u>P. inconspicuum</u>	927	927
<u>F. crotonensis</u>	30898	1545	<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	10815	10815
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	1.2	6.5
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>	115868	2163			
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..			GRAND TOTAL	922923	165304
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	97020	50364			
TOTAL DIATOMS	35842	6489	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	3.9	3.9	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>	13286	13286			
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	244713	70448			
			% of TOTAL.....	26.5	42.6			

LOCATION NMPW 1/4 MI W PROG. CENTER

CONTOUR DEPTH 45'

SAMPLE DATE 7-26-73

TIME 1302

TABLE III D-3 (cont.)

WINDROW PHYTOPLANKTON

WIND

WATER TEMP.

SAMPLE VOL. 30mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	15784	2288	<i>S. quadricauda</i>	1830	458
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> ..	38430	2516
<i>A. gracillimum</i>			<i>G. radiata</i>	229	229	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>	5490	458	<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....	229	229	<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....	1373	1373	<i>Micractinium</i> sp			<i>Tetradron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>	16013	686	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	915	915	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	17385	1601	<i>O. Borgel</i>	4575	1144	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>	915	229	UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	38430	2516	UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....	5033	5033
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	3660	229			
<i>Dictyosphaerium</i> sp.....	40260	1144	<i>P. duplex</i>			TOTAL GREENS.....	254144	25853
<i>D. ehrenbergianum</i>	14640	915	<i>P. simplex</i>			% of TOTAL.....	85.9	63.5
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemienensis</i>	21045	458	<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	26535	1601	<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>	915	1373			
<i>G. gigas</i>	458	458	<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION 1/4 MI W PROG. CENTER
 CONTOUR DEPTH 45'
 SAMPLE DATE 7-26-73
 TIME 1302

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND _____
 WATER TEMP. _____
 SAMPLE VOL. 30 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	2059	2059	<u>A. flos-aquae</u>			<u>G. palustre</u>	6634	6634
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	458	458
<u>C. subtilis</u>	458	458	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	2288	458	<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	1144	1144
<u>F. capucina</u>	9150	229	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	229	229
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	3660	229	TOTAL DINOFLAGELLATES.....	8465	8465
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	2.9	20.8
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	296008	40725
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS.....	11667	2746	<u>Microcystis aeruginosa</u>	14869	2059			
% of TOTAL.....	3.9	6.7	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>	915	915			
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS....			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	21732	3661			
			% of TOTAL.....	7.3	9.0			

LOCATION NMPW 1/4 MI W PROG. CENTER

CONTOUR DEPTH 46'

SAMPLE DATE 7-26-73

TIME 1304

TABLE III D-3 (cont.)

WINDROW PHYTOPLANKTON

WIND

WATER TEMP.

SAMPLE VOL. 34 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	16592	2852	<i>S. quadricauda</i>	3111	778
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>	259	259	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>	259	259	<i>S. cuspidatum</i>	519	519
<i>Characium</i> sp.....	2333	2333	<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp	8296	259	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>	778	778	<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocystium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	15555	1556	<i>Oocystis</i> sp.....	7778	1556	<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	60146	2852	UID unicellular.....	7518	7518
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	41480	1296	TOTAL GREENS.....	223215	27481
<i>D. ehrenbergianum</i>	23333	778	<i>P. simplex</i>	4148	259	% of TOTAL.....	82.1	64.1
<i>D. pulchellum</i>	4148	259	<i>P. tetras</i>	2074	259			
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i>			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	16592	778	<i>S. bijuga</i>	2074	259	TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>	1037	1037	<i>S. denticulatus</i>	1037	258			
<i>G. gigas</i>			<i>S. dimorphus</i>	4848	778			
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION NMPW 1/4 MI W PROG. CENTER
 CONTOUR DEPTH 46'
 SAMPLE DATE 7-26-73
 TIME 1304

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 34 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....	1556	259	<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>	259	259	<u>Glenodinium</u> sp.....	7000	7000
<u>Cocconeis</u> sp.....	1815	1815	<u>A. flos-aquae</u>			<u>G. palustre</u>	778	778
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	778	778	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	2333	2333
<u>Fragilaria</u> sp.....	12963	519	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	104	104
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	10215	10215
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	3.8	23.8
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	271800	42881
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	4148	259			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	16592	1037			
TOTAL DIATOMS	17112	3371	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	6.3	7.8	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>	259	259			
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	21258	1814			
			% of TOTAL.....	7.8	4.2			

LOCATION WEST PROG. CENTER
 CONTOUR DEPTH 44'
 SAMPLE DATE 7-26-73
 TIME 1306

TABLE III D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 29 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	100164	10240	<i>S. quadricauda</i>	11521	2880
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .	65923	3840
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>	320	320	<i>S. gracile</i>	640	640
<i>Chlamydomonas</i> sp.....	4800	4800	<i>Micractinium</i> sp	42882	1600	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>	6080	1920	<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>	4160	2240	<i>Mougeotia</i> sp.....	3200	320	<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocystium Agardhianum</i>	1920	320	<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>	1280	320	<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	3840	320	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	85124	4480	<i>O. Borgei</i>	7360	3200	<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			<i>UID colony</i>		
<i>C. crenatum</i>			<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>			<i>O. solitaria</i>	320	320	<i>UID desmid</i>		
<i>C. formosulum</i>			<i>Pandorina morum</i>	35842	3200	<i>UID unicellular</i>		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			<i>UID zygospore</i>		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	3840	640			
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	99525	4160	TOTAL GREENS.....	568985	56960
<i>D. ehrenbergianum</i>	12801	640	<i>P. simplex</i>			% of TOTAL.....	83.6	46.5
<i>D. pulchellum</i>	18561	1600	<i>P. tetras</i>	6080	640			
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>	3840	640	B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	35842	3520	<i>S. bijuga</i>	3840	640	TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>	3200	640	<i>S. denticulatus</i>	1280	320			
<i>G. gigas</i>	2240	2240	<i>S. dimorphus</i>	2560	320			
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION WEST PROG. CENTER
 CONTOUR DEPTH 44'
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TABLE III-D-3 (cont.)
 WINDROW PHYTOPLANKTON

WIND
 WATER TEMP.
 SAMPLE VOL. 29 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	2560	2560	<u>A. flos-aquae</u>	19201	320	<u>G. palustre</u>	16321	16321
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	320	320
<u>C. subtilis</u>	4160	4160	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>	9600	320	<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	4160	4160
<u>F. capucina</u>	2560	320	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	1600	1600
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	22401	22401
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	3.3	18.3
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>	16001	320			
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..			GRAND TOTAL	680669	122562
<u>Navicula</u> sp.....	320	320	<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. apoina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenussima</u>	24641	24641			
TOTAL DIATOMS	9600	7360	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	1.4	6.0	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>	10240	10240			
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	79683	35841			
			% of TOTAL.....	11.7	29.2			

LOCATION W OF FITZ
 CONTOUR DEPTH 33'
 SAMPLE DATE 8-23-73
 TIME 1345

TABLE III D-4

WINDROW PHYTOPLANKTON

WIND W @ 10-20 mph
 WATER TEMP. 75.8°F
 SAMPLE VOL. 37 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	39896	2111	<i>S. quadricauda</i>	422	422
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>	422	422	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....	211	211
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	1689	1689
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>	211	211	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	633	633	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	27863	633	<i>O. Borgel</i>	1689	422	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>	633	633	<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>	211	211	<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....	37573	1478	<i>P. duplex</i>	3377	422	TOTAL GREENS.....	152191	11820
<i>D. ehrenbergianum</i>	3377	211	<i>P. simplex</i>	20264	1478	% of TOTAL.....	52.2	62.9
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...	211	211	<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	13509	422	<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION W OF FITZ
 CONTOUR DEPTH 33'
 SAMPLE DATE 8-23-73
 TIME 1345

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND W @ 10-20 mph
 WATER TEMP. 75.8°F
 SAMPLE VOL. 37 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	2111	2111
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	6755	211	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	211	211
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	1267	1267
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....	211	211	<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	3589	3589
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	1.2	19.1
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..	6755	211			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL.....	291719	18786
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	54038	844			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenussima</u>					
			<u>Microcystis aeruginosa</u>	67547	1267			
TOTAL DIATOMS.....	211	211	<u>M. incerta</u>					
% of TOTAL.....	.1	1.1	<u>Oscillatoria</u> sp.....	633	633			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	135728	3166			
% of TOTAL.....			% of TOTAL.....	46.5	16.9			

LOCATION W OF FITZ
 CONTOUR DEPTH 33'
 SAMPLE DATE 8-23-73
 TIME 1345

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND W @ 10-20 mph
 WATER TEMP. 75.8°F
 SAMPLE VOL. 33 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	33511	2259	<u>S. quadricauda</u>	1506	377
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>	188	188	<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum</u> sp.....	565	565
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	1506	1506
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	377	377	<u>Micractinium</u> sp.....			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>	12049	753	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....	3765	377	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	377	377	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>	27110	377	<u>O. Borgei</u>	753	188	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>	188	188	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>	188	188	<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	3765	377	TOTAL GREENS	166802	11486
<u>D. ehrenbergianum</u>	130	188	<u>P. simplex</u>	18073	1506	% of TOTAL	38.5	53.1
<u>D. pulchellum</u>	9037	377	<u>P. tetras</u>			B. EUGLENOIDS		
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			<u>Euglena</u> sp.....		
<u>Echinospaerella limnetica</u> ..			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			TOTAL EUGLENOIDS		
<u>Errerella borhemiensis</u>	18073	377	<u>S. acuminatus</u>			% of TOTAL		
<u>Eudorina elegans</u>	34641	941	<u>S. acuminatus</u>					
<u>Gleocystis</u> sp.....			<u>S. bijuga</u>					
<u>G. ampla</u>			<u>S. Brasiliensis</u>					
<u>G. gigas</u>			<u>S. denticulatus</u>					
<u>G. planctonica</u>			<u>S. dimorphus</u>					
			<u>S. longus</u>					

LOCATION W OF FITZ
 CONTOUR DEPTH 33'
 SAMPLE DATE 8-23-73
 TIME 1345

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND W @ 10-20
 WATER TEMP. 75.8°F
 SAMPLE VOL. 33 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	941	941
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	32005	941	<u>G. palustre</u>	565	565
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	1506	1506
<u>F. capucina</u>	44242	753	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	188	188
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	3200	3200
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL.....	.7	14.8
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....	753	188	<u>Coelosphaerium Kuetzingianum</u> ..	19580	565			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	433762	21651
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	69282	1694			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	44995	941	<u>Microcystis aeruginosa</u>	89614	1883			
% of TOTAL.....	10.4	4.3	<u>M. incerta</u>	7531	188			
			<u>Oscillatoria</u> sp.....	753	753			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	218765	6024			
			% of TOTAL.....	50.4	27.8			

LOCATION W OF FITZ
 CONTOUR DEPTH 33'
 SAMPLE DATE 8-23-73
 TIME 1345

TABLE III-D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND W @ 10-20
 WATER TEMP. 75.8°F
 SAMPLE VOL. 27.5 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	24474	1569	<i>S. quadricauda</i>	314	157
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>	157	157	<i>Schizochlamys gelatinosa</i> ..		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>	157	157	<i>S. cuspidatum</i>	471	471
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>	10041	314	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....	6119	941	<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	157	157	<i>Nephrocystium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....	3138	471	<i>V. aureus</i>		
<i>C. microporum</i>	43928	628	<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>	314	314	<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>	157	157	<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....	13806	628	<i>P. duplex</i>	7530	314	TOTAL GREENS.....	147944	8632
<i>D. chrenbergianum</i>	3451	314	<i>P. simplex</i>	31063	1569	% of TOTAL.....	54.9	40.4
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>	157	157	<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i>			<i>Q. lacustris</i>			<i>Euglena</i> sp.....		
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....					
<i>Errerella borhemienensis</i>	2510	157	<i>S. acuminatus</i>			TOTAL EUGLENOIDS.....		
<i>Eudorina elegans</i>			<i>S. bijuga</i>			% of TOTAL.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>					
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION W OF FITZ
 CONTOUR DEPTH 33'
 SAMPLE DATE 8-23-73
 TIME 1345

TABLE III-D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND W @ 10-20 mph
 WATER TEMP. 75.8°F
 SAMPLE VOL. 27.5 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1726	1726
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	157	157	<u>A. flos-aquae</u>	18199	1255	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	314	314
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>	157	157
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	19611	157	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	471	471
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	2668	2668
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>	5020	157	% of TOTAL	1.0	12.5
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	269375	21341
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	25102	628			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lynqbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>	43928	941			
	19768	314	<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS	7.3	1.5	<u>M. incerta</u>	471	471			
% of TOTAL			<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>	6275	6275			
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	98995	9727			
% of TOTAL			% of TOTAL	36.7	45.6			

LOCATION E OF FITZ
 CONTOUR DEPTH 26'
 SAMPLE DATE 8-23-73
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TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.8°F
 SAMPLE VOL. 31 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	1061	1061	<i>S. quadricauda</i>	354	177
<i>Actinastrum</i> sp.....			<i>Colenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutum</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	1415	1415
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	531	531	<i>Nephrocystium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelstrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. lambricum</i>	32541	1061	<i>Oocystis</i> sp.....	4245	354	<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....	354	354	<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>	2830	177	UID desmid.....		
<i>C. fortisulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	12734	531	TOTAL GREENS.....	108061	8315
<i>Dictyosphaerium</i> sp.....	18039	531	<i>P. duplex</i>	18216	1415	% of TOTAL.....	39.2	52.2
<i>D. ehrenbergianum</i>			<i>P. simplex</i>					
<i>D. pulchellum</i>			<i>P. tetras</i>			B. EUGLENOIDS		
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			<i>Euglena</i> sp.....		
<i>Echirospiraella limnetica</i> ...	177	177	<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			TOTAL EUGLENOIDS.....		
<i>Errerella borhemensis</i>	11319	177	<i>S. acuminatus</i>			% of TOTAL.....		
<i>Eudorina elegans</i>	4245	354	<i>S. bijuga</i>					
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>					
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION E OF FITZ
 CONTOUR DEPTH 26'
 SAMPLE DATE 8-23-73
 TIME 1350

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.8°F
 SAMPLE VOL. 31 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1415	1415
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	31480	1061	<u>G. pulvisculus</u>	531	531
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>	177	177
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	707	707
<u>F. capucina</u>	26528	354	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	177	177
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	3007	3007
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			% of TOTAL	1.1	18.9
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	5659	177			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	275896	15920
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomposphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	65083	1415			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenussima</u>	35371	884			
TOTAL DIATOMS	26528	354	<u>Microcystis aeruginosa</u>					
% of TOTAL	9.6	2.2	<u>M. incerta</u>	707	707			
			<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
D. GOLDEN-BROWNS			TOTAL BLUE-GREENS	138300	4244			
<u>Dinobryon sertularia</u>			% of TOTAL	50.2	26.7			
TOTAL GOLDEN-BROWNS								
% of TOTAL								

LOCATION E OF FITZ
 CONTOUR DEPTH 26'
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TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.8°F
 SAMPLE VOL. 29 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	17241	1967	<i>S. quadricauda</i>	926	231
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>	4166	116	<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....	463	116
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	926	926
<i>Characium</i> sp.....	116	116	<i>L. quadriseta</i>			<i>S. gracile</i>	579	579
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>	7868	347	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....	5207	579	<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	579	579	<i>Nephrocystium Agardhianum</i>	2314	116	<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....	4628	347	<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....	1851	579	<i>V. aureus</i>		
<i>C. microporum</i>	9488	463	<i>O. Borgel</i>			<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			<i>UID colony</i>		
<i>C. crenatum</i>	694	694	<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>			<i>O. solitaria</i>			<i>UID desmid</i>		
<i>C. formosulum</i>			<i>Pandorina morum</i>			<i>UID unicellular</i>		
<i>C. nitidulum</i>	116	116	<i>Pediastrum</i> sp.....			<i>UID zygospore</i>		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	5438	231	TOTAL GREENS	110388	10185
<i>D. ehrenbergianum</i>	1851	116	<i>P. simplex</i>	15968	810	% of TOTAL.....	33.1	45.1
<i>D. pulchellum</i>	12960	463	<i>P. tetras</i>			B. EUGLENOIDS		
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>					
<i>Echinospaerella limnetica</i>			<i>Q. lacustris</i>			<i>Euglena</i> sp.....		
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....					
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	10645	231	<i>S. bijuga</i>			TOTAL EUGLENOIDS		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>	116	116	<i>S. dimorphus</i>	694	116			
<i>G. planctonica</i>	5554	231	<i>S. longus</i>					

LOCATION E OF FITZ
 CONTOUR DEPTH 26'
 SAMPLE DATE 8-23-73
 TIME 1350

TABLE III-D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.8°F
 SAMPLE VOL. 29 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1157	1157
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	19671	1041	<u>G. pulvisculus</u>	579	579
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>	347	347
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	27770	579	<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	116	116
<u>F. capucina</u>	19671	347	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	5786	347	<u>Chroococcus</u> sp.....	8100	463			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	2199	2199
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.7	9.7
<u>Melosira</u> sp.....	1157	116	<u>Coelosphaerium Kuetszingianum</u> ..	8100	231			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	333362	22567
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	44895	1389			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	26614	810	<u>Microcystis aeruginosa</u>	69426	926			
% of TOTAL	8.0	3.6	<u>M. incerta</u>	11571	116			
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>	4628	4628			
% of TOTAL			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	194161	9373			
			% of TOTAL	58.2	41.5			

LOCATION E OF FITZ
 CONTOUR DEPTH 26'
 SAMPLE DATE 8-23-73
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TABLE III-D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.8°F
 SAMPLE VOL. 34 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	57415	2910	<u>S. quadricauda</u>	776	194
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>	1552	194	<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>	194	194
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>	194	194	<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>	194	194	<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>	194	194
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>	1552	194	<u>Volvox sp.</u>		
<u>C. cambricum</u>	15518	582	<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgoi</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>	582	582	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	1552	194	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	3104	194			
<u>Dictyosphaerium sp.</u>	33363	1164	<u>P. duplex</u>	10862	776	TOTAL GREENS	139854	8924
<u>D. ehrenbergianum</u>	4267	388	<u>P. simplex</u>	8535	776	% of TOTAL	47.6	54.8
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u> ...			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION E OF FITZ
 CONTOUR DEPTH 26'
 SAMPLE DATE 8-23-73
 TIME 1350

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.8°F
 SAMPLE VOL. 34 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	582	582
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	41510	1358	<u>G. palustre</u>	776	776
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	194	194
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	1552	1552
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.5	9.5
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	24828	776			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	293867	16296
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	31035	582			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	54312	2328			
TOTAL DIATOMS			<u>M. incerta</u>					
% of TOTAL			<u>Oscillatoria</u> sp.....	776	776			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	152461	5820			
% of TOTAL			% of TOTAL	51.9	35.7			

LOCATION OFF NMP
 CONTOUR DEPTH 24'
 SAMPLE DATE 8-23-73
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TABLE III-D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.2°F
 SAMPLE VOL. 36 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	22386	2054	<i>S. quadricauda</i>		
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	822	822
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>	1232	205	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....	6572	616	<i>Treubaria setigerum</i>	205	205
<i>Closteriopsis longissima</i> ...	411	411	<i>Nephrocyclium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....	2054	205	<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	9858	616	<i>O. Borgei</i>	822	205	<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....			<i>O. parva</i>	205	205	<i>UID colony</i>		
<i>C. crenatum</i>	205	205	<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>	205	205	<i>O. solitaria</i>			<i>UID desmid</i>		
<i>C. formosulum</i>			<i>Pandorina morum</i>			<i>UID unicellular</i>		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			<i>UID zygospore</i>		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	6572	205			
<i>Dictyosphaerium</i> sp.....	23208	1643	<i>P. duplex</i>			TOTAL GREENS.....	102484	9855
<i>D. ehrenbergianum</i>	3286	205	<i>P. simplex</i>	20333	1438	% of TOTAL.....	22.1	36.4
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella linnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	3286	205	<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>	822	205	<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION OFF NMP
 CONTOUR DEPTH 24'
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TABLE III-D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.2°F
 SAMPLE VOL. 36 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1438	1438
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	69829	1643	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....	205	205	<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	411	411	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	41076	411	<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	411	411
<u>F. capucina</u>	77018	616	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	12323	616	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	1849	1849
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.4	6.8
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..	41076	411			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	464569	27107
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	26699	205			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	82152	1438			
TOTAL DIATOMS	89957	1848	<u>M. incerta</u>					
% of TOTAL.....	19.4	6.8	<u>Oscillatoria</u> sp.....	205	205			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>	9242	9242			
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	270279	13555			
% of TOTAL.....			% of TOTAL.....	58.2	50.0			

LOCATION OFF NMP
 CONTOUR DEPTH 24'
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TABLE III-D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.2°F
 SAMPLE VOL. 21 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	32946	1797	<u>S. quadricauda</u>	958	240
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>	120	120	<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....	240	120
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	240	240
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>	120	120
<u>C. epiphytica</u>			<u>M. pusillum</u>	5990	120	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....	3355	240	<u>Treubaria setigerum</u>	240	240
<u>Closteriopsis longissima</u> ...	958	958	<u>Nephrocystium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....	3594	240	<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>	14616	359	<u>O. Borgel</u>	1318	479	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>	120	120	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>	240	240	<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	958	120	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	2037	240	TOTAL GREENS	112497	8869
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	21924	1078	% of TOTAL	32.0	43.0
<u>D. pulchellum</u>	16174	839	<u>P. tetras</u>			B. EUGLENOIDS		
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			<u>Euglena</u> sp.....		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			TOTAL EUGLENOIDS		
<u>Errerella borhemienensis</u>			<u>S. acuminatus</u>			% of TOTAL		
<u>Eudorina elegans</u>	5271	479	<u>S. bijuga</u>					
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>					
<u>G. amola</u>	120	120	<u>S. denticulatus</u>					
<u>G. gigas</u>	479	240	<u>S. dimorphus</u>	479	120			
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION OFF NMP
 CONTOUR DEPTH 24'
 SAMPLE DATE 8-23-73
 TIME 1410

TABLE III-D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.2°F
 SAMPLE VOL. 21 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	839	839
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	17611	719	<u>G. palustre</u>	240	240
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	23961	240	<u>Peridinium aciculiferum</u>	120	120
<u>Fragilaria</u> sp.....	23961	120	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	1198	120	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	1199	1199
<u>Gyrosigma</u> sp.....	1438	120	<u>C. minutus</u>			% of TOTAL.....	.3	5.8
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..	17971	359			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL.....	351390	20611
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	59903	1078			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	85062	1198			
TOTAL DIATOMS.....	26597.	360	<u>M. incerta</u>					
% of TOTAL.....	7.6	1.7	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>	6589	6589			
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....			TOTAL BLUE-GREENS.....	211097	10183			
			% of TOTAL.....	60.1	49.4			

LOCATION OFF NMP
 CONTOUR DEPTH 24'
 SAMPLE DATE 8-23-73
 TIME 1410

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.2°F
 SAMPLE VOL. 28 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	15194	1005	<i>S. quadricauda</i>		
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> ..		
<i>A. gracillimum</i>			<i>G. radiata</i>	112	112	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	447	447
<i>Characium</i> sp.....	112	112	<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>	4692	223	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....	2681	335	<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	1452	1452	<i>Nephrocytium Agardhianum</i>	7150	223	<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	7150	335	<i>O. Borgei</i>	1229	447	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>	335	223	UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>	335	223	<i>Pandorina morum</i>	1341	112	UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	894	112			
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	3575	223	TOTAL GREENS.....	105241	8825
<i>D. ehrenbergianum</i>			<i>P. simplex</i>	22791	1341	% of TOTAL.....	21.3	10.6
<i>D. pulchellum</i>	30835	1341	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	4022	335	<i>S. bijuga</i>	447	112	TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>	447	112	<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION OFF NMP
 CONTOUR DEPTH 24'
 SAMPLE DATE 8-23-73
 TIME 1410

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 75.2°F
 SAMPLE VOL. 28 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1899	1899
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	32399	894	<u>G. pulvisculus</u>	223	223
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	223	223	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	49157	782	<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	670	670
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	20110	447			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	2792	2792
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.6	3.3
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..	38543	1005			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....	112	112	<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	494920	85463
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	73177	2011			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	106693	1899			
TOTAL DIATOMS.....	335	335	<u>M. incerta</u>					
% of TOTAL.....	.1	.4	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>	66473	66473			
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....			TOTAL BLUE-GREENS.....	386552	73511			
			% of TOTAL.....	78.1	85.8			

LOCATION 200 YDS W OF NMPP BUOY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1425

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 80.6°F
 SAMPLE VOL. 29 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	23489	1852	<i>S. quadricauda</i>	463	116
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>	116	116	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....	116	116	<i>L. quadriseta</i>			<i>S. gracile</i>	347	347
<i>Chlamydomonas</i> sp.....	231	231	<i>Micractinium</i> sp	5554	116	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>	463	463	<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	4281	231	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	579	579	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. canbricum</i>	2083	116	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	926	116	<i>O. Borquei</i>	2198	694	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>	463	463	<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	116	116			
<i>Dictyosphaerium</i> sp.....	26845	1041	<i>P. duplex</i>	10645	579	TOTAL GREENS.....	102520	8449
<i>D. ehrenbergianum</i>	926	116	<i>P. simplex</i>	20828	810	% of TOTAL.....	22.4	25.0
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i>			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemienensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	1851	231	<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

WIND NW @ 10-20
WATER TEMP. 80.6°F
SAMPLE VOL. 29 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1041	1041
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	31357	1157	<u>G. pulvisculus</u>	347	347
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	116	116	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	17935	347	<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	116	116
<u>F. capucina</u>	55541	463	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	1736	231	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	1504	1504
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.3	4.5
<u>Melosira</u> sp.....	1389	116	<u>Coelosphaerium Kuetzingianum</u> ..	10414	231			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL.....	458097	33789
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	57276	1389			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenussima</u>					
			<u>Microcystis aeruginosa</u>	149844	2661			
TOTAL DIATOMS.....	58782	926	<u>M. incerta</u>	11571	231			
% of TOTAL.....	12.8	2.7	<u>Oscillatoria</u> sp.....	116	116			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>	16778	16778			
<u>Dinobryon sertularia</u>			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	295291	22910			
% of TOTAL.....			% of TOTAL.....	64.5	67.8			

LOCATION 200 YDS W OF NMPP RIVY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1425

TABLE III-D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20-mph
 WATER TEMP. 80.6°F
 SAMPLE VOL. 33 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	2238	527	<u>S. quadricauda</u>	527	132
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>	132	132	<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	132	132
<u>Characium sp.</u>	132	132	<u>L. quadriseta</u>			<u>S. gracile</u>	527	527
<u>Chlamydomonas sp.</u>	263	263	<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>	263	263	<u>M. pusillum</u>	12114	395	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	658	658	<u>Nephrocytium Agardhianum</u>	1053	132	<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. canbricum</u>	12114	527	<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>	527	132	<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>	395	263	<u>UID colony</u>		
<u>C. crenatum</u>	263	263	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>	132	132	<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>	132	132	<u>Pediastrum sp.</u>			<u>UID zygospor</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	1843	132			
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	7374	395	TOTAL GREENS.....	111790	10537
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	23174	1317	% of TOTAL.....	32.2	44.2
<u>D. pulchellum</u>	21594	1053	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	10007	922	<u>S. bijuga</u>	527	132	TOTAL EUGLENOIDS.....		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>	132	132	<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>	15537	1712	<u>S. longus</u>					

LOCATION 200 YDS W OF NMPP BUOY]
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1425

TABLE III-D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20 mph
 WATER TEMP. 80.6°F
 SAMPLE VOL. 33 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	922	922
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	132	132	<u>A. flos-aquae</u>	13562	922	<u>G. palustre</u>	132	132
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>	16459	658	<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	263	263
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	1317	1317
<u>Gyrosigma</u> sp.....	1580	263	<u>C. minutus</u>	19751	395	% of TOTAL.....	.4	5.5
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	346954	23836
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	38843	790			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>	135620	922			
TOTAL DIATOMS	1712	395	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	.5	1.7	<u>M. incerta</u>					
D. GOLDEN-BROWNS			<u>Oscillatoria</u> sp.....	7900	7900			
<u>Dinobryon sertularia</u>			<u>O. limnetica</u>					
TOTAL GOLDEN-BROWNS			<u>O. subbrevis</u>					
% of TOTAL.....			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	232135	11587			
			% of TOTAL.....	66.9	48.6			

LOCATION 200 YDS W OF NMPP BUOY

CONTOUR DEPTH 35'

SAMPLE DATE 8-23-73

TIME 1425

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20

WATER TEMP. 80.6°F

SAMPLE VOL. 24 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	12322	1095	<u>S. quadricauda</u>		
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>	2738	137	<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	548	548
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>	137	137	<u>M. pusillum</u>	4381	137	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....	548	137	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	958	958	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....	4245	411	<u>Volvox</u> sp.....		
<u>C. canbricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>	2601	822	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>	137	137	<u>UID colony</u>		
<u>C. crenatum</u>	548	548	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	1095	137	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	23276	958	TOTAL GREENS	106111	9038
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	26836	1095	% of TOTAL	28.0	47.8
<u>D. pulchellum</u>	15335	548	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u> ...			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> .			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u> ...			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	4929	411	<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>	822	411	<u>S. dimorphus</u>					
<u>G. planctonica</u>	4655	411	<u>S. longus</u>					

LOCATION 200 YDS W OF NMPP BUOY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1425

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WINDNW @ 10-20
 WATER TEMP. 80.6°F
 SAMPLE VOL. 24 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1369	1369
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	10406	685	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	137	137
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>	137	137
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	36968	411	<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	137	137
<u>F. capucina</u>	41076	274	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	1780	1780
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.5	9.4
<u>Melosira</u> sp.....	3423	137	<u>Coelosphaerium Kuetszingianum</u> ..	27384	548			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	378445	18898
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	20538	411			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	44499	411	<u>Microcystis aeruginosa</u>	99267	1369			
% of TOTAL.....	11.8	2.2	<u>M. incerta</u>	27384	137			
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>	4108	4108			
% of TOTAL.....			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	226055	7669			
			% of TOTAL.....	59.7	40.6			

LOCATION 200 YDS OF PROGRESS CENTER.

CONTOUR DEPTH 20'

SAMPLE DATE 8-23-73

TIME 1435

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20

WATER TEMP.

SAMPLE VOL. 20 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	13806	1117	<i>S. quadricauda</i>	319	80
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	239	239
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	399	399
<i>Chlamydomonas</i> sp.....	80	80	<i>Micractinium</i> sp	7182	319	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>	2394	80
<i>Closteriopsis longissima</i> ...	160	160	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. canbricum</i>	8299	319	<i>Oocystis</i> sp.....	1197	399	<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>			<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			<i>UID colony</i>		
<i>C. crenatum</i>	80	80	<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>			<i>O. solitaria</i>			<i>UID desmid</i>		
<i>C. formosulum</i>			<i>Pandorina morum</i>			<i>UID unicellular</i>		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			<i>UID zygospore</i>		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	6623	319			
<i>Dictyosphaerium</i> sp.....	15002	638	<i>P. duplex</i>	11731	638	TOTAL GREENS.....	72699	5744
<i>D. ehrenbergianum</i>			<i>P. simplex</i>			% of TOTAL.....	30.0	34.3
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i>			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	2554	239	<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>	1676	239	<i>S. dimorphus</i>					
<i>G. planctonica</i>	958	399	<i>S. longus</i>					

LOCATION 200 YDS. OF PROGRESS CENTER
 CONTOUR DEPTH 20'
 SAMPLE DATE 8-23-73
 TIME 1435

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP.
 SAMPLE VOL. 20 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1357	1357
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	13167	638	<u>G. palustre</u>	559	559
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	160	160	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>	43092	798	<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	319	319
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	23940	160	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	2793	160	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	2235	2235
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.9	13.3
<u>Melosira</u> sp.....	958	80	<u>Coelosphaerium Kuetszingianum</u> ..	6384	239			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	242675	16758
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	26015	638			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	37905	479			
TOTAL DIATOMS	27851	560	<u>Microcystis aeruginosa</u>	7980	80			
% of TOTAL.....	11.5	3.3	<u>M. incerta</u>	160	160			
			<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>	5187	5187			
D. GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
<u>Dinobryon sertularia</u>			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	139890	8219			
% of TOTAL.....			% of TOTAL.....	57.6	49.0			

LOCATION 200 YDS OFF PROG. CENTER
 CONTOUR DEPTH 20'
 SAMPLE DATE 8-23-73
 TIME 1435

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20

WATER TEMP.

SAMPLE VOL. 41 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	32513	1872	<i>S. quadricauda</i>		
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....	468	468	<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....	234	234
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	468	468
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>	234	234	<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....	936	234	<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	234	234	<i>Nephrocystium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....	234	234	<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	1871	234	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>	5848	1170	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>	234	234	<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	5614	468	UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	3742	234			
<i>Dictyosphaerium</i> sp.....	3742	234	<i>P. duplex</i>	7485	234	TOTAL GREENS.....	104089	8892
<i>D. chrenbergianum</i>			<i>P. simplex</i>	30174	1170	% of TOTAL.....	24.8	21.6
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinosphaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>	1871	234			
<i>Eudorina elegans</i>	7485	468	<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>	702	468	<i>S. longus</i>					

LOCATION 200 YDS OFF PROG. CENTER
 CONTOUR DEPTH 20'
 SAMPLE DATE 8-23-73
 TIME 1435

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP.
 SAMPLE VOL. 41 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1871	1871
<u>A. formosa</u>			<u>A. circinalis</u>	22221	936	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	30408	1403	<u>G. palustre</u>	234	234
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	468	468
<u>F. capucina</u>	23391	234	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	16373	702	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	2573	2573
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.6	6.2
<u>Melosira</u> sp.....	7017	234	<u>Coelosphaerium Kuetzingianum</u> ..	35086	468			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	418926	41171
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	54266	1637			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	103386	3976			
TOTAL DIATOMS	46781	1170	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	11.2	2.8	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>	20116	20116			
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	265483	28536			
			% of TOTAL.....	63.4	69.3			

LOCATION 200 YDS OFF PROG. CENTER
 CONTOUR DEPTH 20'
 SAMPLE DATE 8-23-73
 TIME 1435

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20

WATER TEMP.

SAMPLE VOL. 30mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	4792	1027	<i>S. quadricauda</i>	1369	342
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracilimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	1027	1027
<i>Chlamydomonas</i> sp.....	342	342	<i>Micractinium</i> sp	10954	171	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	8215	1027	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....	1369	171	<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	342	342	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....	685	171	<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	6846	513	<i>O. Borgel</i>	1369	342	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>	342	342	<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>	171	171	UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>	2738	171	UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....	4108	342	<i>P. duplex</i>	8215	342	TOTAL GREENS.....	74450	8383
<i>D. ehrenbergianum</i>	4108	342	<i>P. simplex</i>	11981	685	% of TOTAL.....	31.2	48.5
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i>			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	5477	513	<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION 200 YDS OFF PROG. CENTER
 CONTOUR DEPTH 20'
 SAMPLE DATE 8-23-73
 TIME 1435

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. _____
 SAMPLE VOL. 30 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1712	1712
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	171	171	<u>A. flos-aquae</u>	33374	1712	<u>G. palustre</u>	513	513
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	856	856
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	3081	3081
<u>Gyrosigma</u> sp.....	685	171	<u>C. minutus</u>	24303	856	% of TOTAL	1.3	17.8
<u>Melosira</u> sp.....	171	171	<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	238584	17284
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	93106	1712			
<u>Synedra</u> sp.....			<u>Lynqbya Birgei</u>	1712	171			
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	1027	513	<u>Microcystis aeruginosa</u>	6846	171			
% of TOTAL.....	.4	3.0	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	685	685			
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
D. GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
<u>Dinobryon sertularia</u>			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	160026	5307			
% of TOTAL			% of TOTAL	67.1	30.7			

LOCATION 200 YDS W NMPW BUOY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1450

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 80.6°F
 SAMPLE VOL. 47 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	33942	2250	<i>S. quadricauda</i>	750	188
<i>Actinastrum</i> sp.....			<i>Colenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> ..		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....	188	188	<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>	563	563
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....	375	188	<i>Treubaria setigerum</i>	188	188
<i>Closteriopsis longissima</i> ...	188	188	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....	2250	375	<i>Volvox</i> sp.....		
<i>C. cambricum</i>	188	188	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>	750	188	UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....	6001	188	<i>P. duplex</i>	6939	375	TOTAL GREENS.....	69950	5819
<i>D. ehrenbergianum</i>	6001	188	<i>P. simplex</i>	6001	375	% of TOTAL.....	27.7	40.3
<i>D. pulchellum</i>	5626	188	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i>			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>			<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION 200 YDS W NMPW BUOY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1450

TABLE III-D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 80.6°F
 SAMPLE VOL. 47 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1688	1688
<u>A. formosa</u>			<u>A. circinalis</u>	18753	938	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	43132	563	<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	750	750
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	188	188
<u>F. capucina</u>	18753	375	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	188	188
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	2814	2814
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	1.1	19.5
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	9001	375			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	252980	14448
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	57009	1313			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	31880	563			
TOTAL DIATOMS	18753	375	<u>M. incerta</u>					
% of TOTAL.....	7.4	2.6	<u>Oscillatoria</u> sp.....	1688	1688			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	161463	5440			
% of TOTAL.....			% of TOTAL.....	63.8	37.7			

LOCATION 200 YDS W NMPW BUOY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1450

TABLE III-D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 80.6°F
 SAMPLE VOL. 26 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	20955	1452	<i>S. quadricauda</i>		
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....	104	104	<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>	830	104	<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....	311	311
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	622	622
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	3216	415	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>	104	104
<i>Closteriopsis longissima</i> ...	311	311	<i>Nephrocystium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>	311	104	<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. canbricum</i>			<i>Oocystis</i> sp.....	1660	519	<i>V. aureus</i>		
<i>C. microporum</i>	18258	311	<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>	415	415	<i>O. pusilla</i>	207	207	UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	519	104			
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	3320	104	TOTAL GREENS	86725	7158
<i>D. ehrenbergianum</i>			<i>P. simplex</i>	10789	726	% of TOTAL.....	32.5	45.4
<i>D. pulchellum</i>	10685	622	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>	6639	104	<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella linnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemienensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	7469	519	<i>S. bijuga</i>			TOTAL EUGLENOIDS		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION 200 YDS W NMEW BUOY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1450

TABLE III-D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 80.6°F
 SAMPLE VOL. 26 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	2386	2386
<u>A. formosa</u>			<u>A. circinalis</u>	11100	415	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	934	104	<u>G. pulvisculus</u>	207	207
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>	415	415
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	6847	207	<u>Peridinium aciculiferum</u>	519	519
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	207	207
<u>F. capucina</u>	19711	207	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	104	104
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	3838	3838
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	1.4	24.3
<u>Melosira</u> sp.....	519	104	<u>Coelosphaerium Kuetzingianum</u> ..	9959	207			
<u>Navicula</u> sp.....			<u>C. Naeqelianum</u>			GRAND TOTAL	266610	15767
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	44608	1245			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diguettii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenussima</u>					
TOTAL DIATOMS	20230	311	<u>Microcystis aeruginosa</u>	80917	830			
% of TOTAL.....	7.6	2.0	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....	415	415			
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>	1037	1037			
			<u>Phormidium mucicola</u>					
TOTAL GOLDEN-BROWNS			UID crescent-shaped.....					
% of TOTAL.....			TOTAL BLUE-GREENS	155817	4460			
			% of TOTAL.....	58.4	28.3			

LOCATION 200 YDS NMPW BUOY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1450

TABLE III D-4 (cont.)
 WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 80.6°F
 SAMPLE VOL. 33.5 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	16440	1604	<u>S. quadricauda</u>	1069	267
<u>Actinotrium</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>	4277	134	<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadrisetia</u>			<u>S. gracile</u>	1203	1203
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>	401	401	<u>Mougeotia</u> sp.....	1377	134	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>	401	134	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>	401	401	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	2139	134	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospor</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>			TOTAL GREENS	66966	6684
<u>D. ehrenbergianum</u>	5079	267	<u>P. simplex</u>	23525	1604	% of TOTAL	29.4	36.2
<u>D. pulchellum</u>	8555	267	<u>P. tetras</u>			B. EUGLENOIDS		
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			<u>Euglena</u> sp.....		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			TOTAL EUGLENOIDS		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>			% of TOTAL		
<u>Eudorina elegans</u>	2139	134	<u>S. bijugus</u>					
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>					
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION 200 YDS NMPW BUOY
 CONTOUR DEPTH 35'
 SAMPLE DATE 8-23-73
 TIME 1450

TABLE III D-4 (cont.)

WINDROW PHYTOPLANKTON

WIND NW @ 10-20
 WATER TEMP. 80.6°F
 SAMPLE VOL. 33.5 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium</u> <u>hirundinella</u>	1470	1470
<u>A. formosa</u>			<u>A. circinalis</u>	22456	936	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	134	134
<u>Coccinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	134	134	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	936	936
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	535	535
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	3075	3075
<u>Gyrosigma</u> sp.....	1337	134	<u>C. minutus</u>	25664	802	% of TOTAL.....	1.3	16.7
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL	227901	18448
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	45446	1604			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	58813	1069			
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS	1471	268	<u>M. incerta</u>	1337	1337			
% of TOTAL.....	.6	1.5	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>	2673	2673			
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	156389	8421			
% of TOTAL.....			% of TOTAL.....	68.6	45.6			

LOCATION 1/2 M East of Pitz
 CONTOUR DEPTH 63'
 SAMPLE DATE 9/21/73
 TIME 1020

TABLE III D-5
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP 66.3 °F
 SAMPLE VOL. 43.5

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>	248	248	<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	496	496
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>	248	248
<u>Chlamydomonas sp.</u>	496	496	<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>	248	248	<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>	248	248	<u>Volvox sp.</u>		
<u>C. cambricum</u>	25311	1489	<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>	1985	496	<u>UID biflagellate</u>	496	496
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>	744	744
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	3970	496	<u>UID unicellular</u>	2978	2978
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	3970	248			
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	3970	248	<u>TOTAL GREENS</u>	206209	13645
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	56578	2233	<u>% of TOTAL</u>	50.4	38.2
<u>D. pulchellum</u>	94297	1489	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u>			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	9926	244	<u>S. bijuga</u>			<u>TOTAL EUGLENOIDS</u>		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			<u>% of TOTAL</u>		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION 1/2 M East of Fitz
 CONTOUR DEPTH 63'
 SAMPLE DATE 9/21/73
 TIME 1020

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 66.3°F
 SAMPLE VOL. 43.5

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	248	248
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	496	496	<u>A. flos-aquae</u>	3722	248	<u>G. palustre</u>	744	744
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	774	248	<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	496	248	<u>A. limneticus</u>	1489	248	<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	248	248
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	32260	496	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	1240	1240
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	0.3	3.5
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	74445	1241			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>	3971	248			
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL	409437	35728
<u>S. hantzschii</u>	496	496	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	7941	248			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	60797	1489			
TOTAL DIATOMS	33748	1736	<u>M. incerta</u>					
% of TOTAL.....	8.2	4.9	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>	15137	15137			
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS								
% of TOTAL.....			TOTAL BLUE-GREENS	168240	19107			
			% of TOTAL.....	41.1	53.5			

LOCATION 1/2 M East Pitz
 CONTOUR DEPTH 63'
 SAMPLE DATE 9/21/73
 TIME 1025

TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 66.3° F
 SAMPLE VOL. 44 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	20082	502	<u>S. quadricauda</u>	1004	251
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>	4016	251	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..	8033	251	<u>K. obesa</u>			<u>Staurastrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	753	753
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	502	502	<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	251	251	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>	502	251	<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>	92375	2761	<u>O. Borgel</u>			<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	16065	502		338876	11546
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	151114	4267	TOTAL GREENS.....	44	56.8
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....		
<u>D. pulchellum</u>	40163	753	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> .			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemienensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	4016	251	<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION 1/2 M East Fitz
 CONTOUR DEPTH 63'
 SAMPLE DATE 9/21/73
 TIME _____

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND 1-5
 WATER TEMP. 66.3°F
 SAMPLE VOL. 44 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	251	251
<u>A. formosa</u>			<u>A. circinalis</u>	6276	251	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	251	251
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	251	251	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	130530	2008	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	502	502
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	5020	502	TOTAL DINOFLAGELLATES	1004	1004
<u>Gyrosigma</u> sp.....	3012	502	<u>C. minutus</u>			% of TOTAL.....	.1	4.9
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	64261	1004			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	112959	1004			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	770128	20331
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	60245	1255			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	47694	1004			
TOTAL DIATOMS	133793	2761	<u>M. incerta</u>					
% of TOTAL.....	17.4	13.6	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	296455	5020			
% of TOTAL.....			% of TOTAL.....	38.5	24.7			

LOCATION 1/2 Mi. E. of Fitz
 CONTOUR DEPTH 63'
 SAMPLE DATE 9/21/73
 TIME 1030

TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 66.3°F
 SAMPLE VOL. 52 mls.

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	830	208	<i>S. quadricauda</i>	830	208
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .	1660	415
<i>A. gracillimum</i>	4980	208	<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>	208	208	<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>	8300	208	<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	415	415
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp	7470	415	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	2905	623	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	415	415	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	16600	830	<i>Oocystis</i> sp.....	1453	415	<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>	830	208	<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			<i>UID colony</i>		
<i>C. crenatum</i>			<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>			<i>O. solitaria</i>			<i>UID desmid</i>	5603	5603
<i>C. formosulum</i>			<i>Pandorina morum</i>			<i>UID unicellular</i>		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			<i>UID zygospore</i>		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>	3943	415			
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	19090	830	TOTAL GREENS	178245	15982
<i>D. ehrenbergianum</i>			<i>P. simplex</i>	102505	4150	% of TOTAL	28.64	38.50
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>			<i>Euglena</i> sp.....	208	208
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....					
<i>Erreraella borhemiensis</i>			<i>S. acuminatus</i>			TOTAL EUGLENOIDS	208	208
<i>Eudorina elegans</i>			<i>S. bijuga</i>			% of TOTAL.....	.03	.50
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>					
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION 1/2 mi. E. of Fitz
 CONTOUR DEPTH 63'
 SAMPLE DATE 9/21/73
 TIME 1030

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 66.3°F
 SAMPLE VOL. 52 mls.

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....	6225	415	<u>Ceratium hirundinella</u>	1038	1038
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	415	415
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	415	415	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gyrodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	83000	1038	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	10375	208	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	1453	1453
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>	14525	415	% of TOTAL.....	.23	3.50
<u>Melosira</u> sp.....	4150	623	<u>Coelosphaerium Kuetszingianum</u> ..	41500	623			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>			GRAND TOTAL.....	622297	41508
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	3528	1245	<u>G. aponina</u>	124500	2490			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>	35483	1245			
TOTAL DIATOMS.....	101468	3529	<u>Microcystis aeruginosa</u>	103750	208			
% of TOTAL.....	16.31	8.50	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>	14940	14940			
TOTAL GOLDEN-BROWNS....			<u>Phormidium mucicola</u>					
% of TOTAL.....			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS.....	340923	20336			
			% of TOTAL.....	54.78	48.99			

LOCATION East of Fitz
 CONTOUR DEPTH 65'
 SAMPLE DATE 9/21/73
 TIME 1040

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 65.5 °F
 SAMPLE VOL. 41 mls.

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	3742	234	<i>S. quadricauda</i>	936	234
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>	11695	234	<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	702	702
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp	7485	234	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>	468	468	<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	1403	468	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	468	468	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. canbricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	48652	2339	<i>O. Borgel</i>	234	234	UID biflagellate.....		
<i>Cosmarium</i> sp.....	234	234	<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>	468	468	<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....	8654	8654
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	12397	1403	TOTAL GREENS.....	341502	25965
<i>D. ehrenbergianum</i>	9356	468	<i>P. simplex</i>	201158	7251	% of TOTAL.....	40.38	48.90
<i>D. pulchellum</i>	12631	468	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>			<i>Euglena</i> sp.....	234	234
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....					
<i>Errerella borhemiensis</i>	9356	234	<i>S. acuminatus</i>			TOTAL EUGLENOIDS.....	234	234
<i>Eudorina elegans</i>	8421	234	<i>S. bijuga</i>	936	234	% of TOTAL.....	.03	.44
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>					
<i>G. ampla</i>	936	234	<i>S. denticulatus</i>					
<i>G. gigas</i>	234	234	<i>S. dimorphus</i>	936	234			
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION East of Fitz
 CONTOUR DEPTH 65'
 SAMPLE DATE 9/21/73
 TIME 1040

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 65.5 °F
 SAMPLE VOL. 41 mlc.

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	1170	1170
<u>A. formosa</u>			<u>A. circinalis</u>	4680	468	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	23391	468	<u>G. pulvisculus</u>	1170	1170
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>	234	234
<u>Cyclotella</u> sp.....	234	234	<u>A. limneticus</u>	2105	468	<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	702	702
<u>F. capucina</u>	84206	1403	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	10526	468	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	3276	3276
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.39	6.17
<u>Melosira</u> sp.....	1403	234	<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	67832	1637			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	845805	53100
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	702	702	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	58476	1403			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	97071	3041	<u>Microcystis aeruginosa</u>	233905	2807			
% of TOTAL	11.48	5.73	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>	13333	13333			
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	403722	20584			
			% of TOTAL	47.73	38.76			

LOCATION East of Fitz
 CONTOUR DEPTH 60'
 SAMPLE DATE 9/21/73
 TIME 1040

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 65.5° F
 SAMPLE VOL. 50 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	1141	285
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .	18256	285
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>	6846	571	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	571	285
<u>Characium sp.</u>			<u>L. quadrisetia</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	285	285	<u>Micractinium sp</u>	9413	571	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>	571	571	<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>	1141	285	<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>	148330	2282	<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>	571	571	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	2282	285	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>	2282	285	<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	9128	571		449270	15689
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	180849	5990	TOTAL GREENS	38.4	69.6
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL		
<u>D. pulchellum</u>	54768	571	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u> ...	3423	285	<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>	1141	285			
<u>Eudorina elegans</u>	4564	285	<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>	285	285	<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION East of Fitz
 CONTOUR DEPTH 60'
 SAMPLE DATE 9/21/73
 TIME 1040

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 65.5°F
 SAMPLE VOL. 50 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			P. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....	5705	285	<u>Ceratium hirundinella</u>	285	285
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	7131	285	<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	285	285	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	427875	571	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	4564	571			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	285	285
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.0	1.3
<u>Melosira</u> sp.....	5705	285	<u>Coelosphaerium Kuetzingianum</u> ..	45640	856			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	142625	1426			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	1169526	22535
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	66178	1712			
<u>Synedra</u> sp.....			<u>Lynqbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	433865	1141	<u>Microcystis aeruginosa</u>	14263	285			
% of TOTAL	37.1	5.1	<u>M. incerta</u>					
D. GOLDEN-BROWNS			<u>Oscillatoria</u> sp.....					
<u>Dinobryon sertularia</u>			<u>O. limnetica</u>					
TOTAL GOLDEN-BROWNS			<u>O. subbrevis</u>					
% of TOTAL			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	286106	5420			
			% of TOTAL	24.5	24.1			

LOCATION East of Fitz
 CONTOUR DEPTH 65'
 SAMPLE DATE 9/21/73
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TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 65.5 °F
 SAMPLE VOL. 45 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens								
<u>Actinastrum</u> sp.....			<u>G. vesticulosa</u>	8230	257	<u>S. quadricauda</u>	1029	257
<u>A. gracillimum</u>			<u>Golenkinia paucispina</u>	257	257	<u>Schizochlamys gelatinosa</u> ..		
<u>A. hantzschii</u>	16432	1284	<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>Ankistrodesmus</u> sp.....			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>A. convolutus</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. falcatus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>Asterococcus</u> sp.....			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Botryococcus protuberans</u> ..			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>B. sudeticus</u>	25720	514	<u>K. obesa</u>			<u>Staurastrum</u> sp.....		
<u>Characium</u> sp.....			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	257	257
<u>Chlamydomonas</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>C. epiphytica</u>	257	257	<u>Micractinium</u> sp.....			<u>Tetraedron minimum</u>		
<u>Chorella ellipsoidea</u>			<u>M. pusillum</u>	38066	772	<u>Tetraspora lacustris</u>		
<u>C. vulgaris</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>Closteriopsis longissima</u> ...	772	772	<u>Mougeotia</u> sp.....	3344	772	<u>Treubaria setigerum</u>		
<u>Closterium</u> sp.....			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Coelastrum</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>C. cambricum</u>			<u>Oedogonium</u> sp.....	5658	772	<u>Volvox</u> sp.....		
<u>C. microporum</u>	77160	2572	<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>Cosmarium</u> sp.....			<u>O. Borgei</u>	257	257	<u>UID biflagellate</u>		
<u>C. crenatum</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. depressum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. formosulum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. nitidulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>	10802	10802
<u>Dactylococcus infusionum</u> ...			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dictyosphaerium</u> sp.....			<u>P. Boryanum</u>	4115	257			
<u>D. ehrenbergianum</u>			<u>P. duplex</u>	20576	772	TOTAL GREENS	412004	27517
<u>D. pulchellum</u>			<u>P. simplex</u>	193929	5401	% of TOTAL	58.1	54.9
<u>Dinorhynchococcus lunatus</u>			<u>P. tetras</u>					
<u>Echinosphaerella limnetica</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Elakatothrix gelatinosa</u>			<u>Q. lacustris</u>					
<u>Errerella borhemiensis</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....	772	772
<u>Eudorina elegans</u>	4115	257	<u>S. acuminatus</u>					
<u>Gleocystis</u> sp.....			<u>S. bijuga</u>	257	257	TOTAL EUGLENOIDS	772	772
<u>G. ampla</u>	257	257	<u>S. Brasiliensis</u>			% of TOTAL	0.11	1.5
<u>G. gigas</u>			<u>S. denticulatus</u>					
<u>G. planctonica</u>			<u>S. dimorphus</u>					
			<u>S. longus</u>					

LOCATION East of Fitz
 CONTOUR DEPTH 65'
 SAMPLE DATE 9/21/73
 TIME 1045

TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE 1-5
 WATER TEMP. 65.5°F
 SAMPLE VOL. 45.8ls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	257	257
<u>Coscinodiscus</u> sp.....	257	257	<u>A. spiroides</u>	772	772	<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	1543	1543
<u>F. capucina</u>	59156	1029	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	7716	514	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	16461	1028	TOTAL DINOFLAGELLATES	1800	1800
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.3	3.6
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	102880	1800			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	709327	50149
<u>Stephanodiscus</u> sp.....	514	514	<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	33436	1029			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	61728	1286			
TOTAL DIATOMS	67643	2314	<u>M. incerta</u>					
% of TOTAL.....	9.5	4.6	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>	11831	11831			
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS								
% of TOTAL.....			TOTAL BLUE-GREENS	227108	17746			
			% of TOTAL.....	32.0	35.4			

LOCATION NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 9/21/73
 TIME 1050

TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.4°F
 SAMPLE VOL. 37 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	9448	148	<u>S. quadricauda</u>	2067	591
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>	1181	148	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>	9448	148	<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	148	148
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	148	148	<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>	1476	148	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	148	148	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>	7382	148
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>	55509	1624	<u>O. Borgei</u>	591	148	<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>	148	148	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	2362	148	<u>UID unicellular</u>	3543	3543
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	35726	591	TOTAL GREENS	354608	13883
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	142611	3986	% of TOTAL	45.6	70.7
<u>D. pulchellum</u>	28345	443	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>	4724	148	<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>	295	148			
<u>Elakatothrix gelatinosa</u> ...			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>	46946	1033	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	2362	148	<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION: NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 9/21/73
 TIME 1050

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.4 °F
 SAMPLE VOL. 37mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	295	295
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	3691	148	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	443	443
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	228827	443	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	295	295
<u>F. capucina</u>	19192	295	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	148	148
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	591	148	TOTAL DINOFLAGELLATES	1181	1181
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	2362	148	% of TOTAL.....	.2	6.0
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....	4439	591	<u>Coelosphaerium Kuetszingianum</u> ..	33069	738			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	49013	738			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	777717	19642
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	443	443	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	80311	886			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	252891	1772	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	32.5	9.0	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	169037	2806			
			% of TOTAL.....	21.7	14.3			

LOCATION NMPE

CONTOUR DEPTH 40'

SAMPLE DATE 9/21/73

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TABLE III-D-5 (cont.)

WINDROW PHYTOPLANKTON

WIND NE @ 1-5

WATER TEMP. 65.4°F

SAMPLE VOL. 50 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	1141	285
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>	4564	285	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	1141	1141
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetradron minimum</u>		
<u>C. epiphytica</u>	1712	571	<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....	2567	571	<u>Volvox</u> sp.....		
<u>C. canbricum</u>			<u>Oocystis</u> sp.....	1141	285	<u>V. aureus</u>		
<u>C. microporum</u>	123799	3138	<u>O. Borgei</u>	2853	571	<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>	285	285	<u>Pandorina morum</u>	6856	571	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospor</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	4564	285			
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	13692	856	TOTAL GREENS	344583	15977
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	131215	5135	% of TOTAL	54.3	73.7
<u>D. pulchellum</u>	10269	856	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemensis</u>	36512	571	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijugus</u>			TOTAL EUGLENOIDS		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>	2282	571	<u>S. longus</u>					

LOCATION NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 9/21/73
 TIME 1050

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.4°F
 SAMPLE VOL. 50 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>	7131	285	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	285	285
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	571	571	<u>Ancystis</u> sp.....	13692	571	<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>	14263	285	<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	571	571
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	18256	571	TOTAL DINOFLAGELLATES.....	856	856
<u>Gyrosigma</u> sp.....	1426	285	<u>C. minutus</u>			% of TOTAL.....	0.1	4.0
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	634968	21683
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>	91280	1141			
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	142625	856			
TOTAL DIATOMS.....	16260	1141	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	2.5	5.3	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>	285	285			
			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	273269	3709			
			% of TOTAL.....	43.0	17.1			
D. GOLDEN-BROWNS								
<u>Dinobryon sertularia</u>								
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....								

LOCATION NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 9/21/73
 TIME 1050

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.4
 SAMPLE VOL: 44 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	40168	502	<u>S. quadricauda</u>	1004	251
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>	251	251	<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	251	251
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	703	703	<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>	502	502	<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>	2259	502	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	251	251	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. canbricum</u>	32134	2008	<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			UID biflagellate.....		
<u>Cosmarium sp.</u>			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. formosulum</u>			<u>Pandorina morum</u>			UID unicellular.....	10795	10795
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	16067	753	TOTAL GREENS.....	228956	21589
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	116487	4268	% of TOTAL.....	39.56	54.43
<u>D. pulchellum</u>	4017	251	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>	251	251
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	4017	251	<u>S. bijuga</u>			TOTAL EUGLENOIDS.....	251	251
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL.....	.04	.63
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 9/21/73
 TIME 1050

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.4
 SAMPLE VOL. 44 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	502	502
<u>A. formosa</u>			<u>A. circinalis</u>	9038	502	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	5021	251	<u>G. pulvisculus</u>	1757	1757
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	251	251
<u>F. capucina</u>	10042	251	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	2510	251	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	4017	251	TOTAL DINOFLAGELLATES	2510	2510
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.43	6.33
<u>Melosira</u> sp.....	2008	251	<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	72805	1255			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	578739	39663
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	87687	1757			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	14560	753	<u>Microcystis aeruginosa</u>	145609	2259			
% of TOTAL.....	2.52	1.90	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>	8285	8285			
% of TOTAL.....			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	332462	14560			
			% of TOTAL.....	57.44	36.71			

LOCATION 1/8 M W NMPP
 CONTOUR DEPTH 85'
 SAMPLE DATE 9/21/73
 TIME 1110

TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 49 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	1118	280
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>	8946	560	<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>	17891	280	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>	280	280
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>	9784	559	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	559	559	<u>Nephrocystium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>	559	280	<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. canbricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>	40255	1118	<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>	280	280	<u>Pandorina morum</u>	8946	559	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	22364	839	TOTAL GREENS.....	366490	13143
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	191771	6430	% of TOTAL.....	52.8	54.7
<u>D. pulchellum</u>	26837	280	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u>			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>					
<u>Errerella borhemiensis</u>	35782	559	<u>S. acuminatus</u>			<u>Euglena sp.</u>	280	280
<u>Eudorina elegans</u>			<u>S. bijuga</u>					
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			TOTAL EUGLENOIDS.....	280	280
<u>G. ampla</u>	1118	280	<u>S. denticulatus</u>			% of TOTAL.....	.04	1.2
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION 1/8 M W NMPP
 CONTOUR DEPTH 85'
 SAMPLE DATE 9/21/73
 TIME 1110

TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 49 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	280	280
<u>A. formosa</u>			<u>A. circinalis</u>	27955	280	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	27955	559	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	1957	1957
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	13978	280	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	4473	559	TOTAL DINOFLAGELLATES	2237	2237
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL	0.3	9.3
<u>Melosira</u> sp.....	3075	559	<u>Coelosphaerium Kuetszingianum</u> ..	89456	1398			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	20966	280			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL	694125	24048
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	20128	559			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	17053	839	<u>Microcystis aeruginosa</u>	114336	1118			
% of TOTAL	2.5	3.5	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
D. GOLDEN-BROWNS			<u>Phormidium mucicola</u>	2796	2796			
<u>Dinobryon sertularia</u>			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	308065	7549			
% of TOTAL			% of TOTAL	44.4	31.4			

LOCATION 1/8 M WEST NMPP
 CONTOUR DEPTH 85'
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TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 55 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	5021	314	<i>S. quadricauda</i>		
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>	32635	628	<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>	5021	314	<i>Staurastrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....	2510	314	<i>V. aureus</i>		
<i>C. microporum</i>	107320	2510	<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>	314	314	UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	70291	1255	TOTAL GREENS.....	416727	12239
<i>D. ehrenbergianum</i>			<i>P. simplex</i>	142779	5021	% of TOTAL.....	57.2	61.9
<i>D. pulchellum</i>	40166	941	<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i> ...			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	10042	314	<i>S. bijuga</i>	628	314	TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION 1/8 M WEST NMPP
 CONTOUR DEPTH 85'
 SAMPLE DATE 9/21/73
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TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 55 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	628	628
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	40794	1255	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	31380	628	<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	941	941
<u>Fragilaria</u> sp.....	31380	314	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	2510	314			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	1569	1569
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	0.2	7.9
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	61505	941			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	78450	941			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	728644	19770
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	48325	941			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>	314	314			
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	15690	314			
TOTAL DIATOMS.....	31380	314	<u>M. incerta</u>					
% of TOTAL.....	4.3	1.6	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....			TOTAL BLUE-GREENS.....	278968	5648			
			% of TOTAL.....	38.3	28.6			

LOCATION NMPP 1/8 MW
 CONTOUR DEPTH 85'
 SAMPLE DATE 9/21/73
 TIME 1110

TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 57 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	1951	325	<i>S. quadricauda</i>	5203	976
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .	5203	325
<i>A. gracillimum</i>			<i>G. radiata</i>	650	650	<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>	2602	325	<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	650	650
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....	650	650	<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>	83251	650	<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....	32195	976	<i>Oedogonium</i> sp.....	8780	650	<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>	325	325
<i>C. microporum</i>	2602	325	<i>O. Borgel</i>	2276	1301	<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			<i>UID colony</i>		
<i>C. crenatum</i>			<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>			<i>O. solitaria</i>			<i>UID desmid</i>		
<i>C. formosulum</i>			<i>Pandorina morum</i>			<i>UID unicellular</i>	2602	2602
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			<i>UID zygospore</i>		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	0488	976	TOTAL GREENS	281297	18535
<i>D. ehrenbergianum</i>			<i>P. simplex</i>	111869	6829	% of TOTAL	41.1	56.4
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>			<i>S. bijugus</i>			TOTAL EUGLENOIDS		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION NMPP 1/8 NW
 CONTOUR DEPTH 85'
 SAMPLE DATE 9/21/73
 TIME 1110

TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 57 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>	6500	325	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	37073	1626	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	1301	325	<u>G. pulvisculus</u>	650	650
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	650	650	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	650	650
<u>F. capucina</u>	48780	650	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	3902	325	TOTAL DINOFLAGELLATES	1300	1300
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	2	4.0
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..	48780	650			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	113820	1626			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL	684214	82841
<u>S. hantzschii</u>	5203	650	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	31219	650			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenussima</u>					
			<u>Microcystis aeruginosa</u>	101462	2602			
TOTAL DIATOMS	54633	1950	<u>M. incerta</u>					
% of TOTAL.....	8.0	5.9	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>	2927	2927			
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	346984	11056			
% of TOTAL.....			% of TOTAL.....	50.7	33.7			

LOCATION NMPP
 CONTOUR DEPTH 85'
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TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 44 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	4213	351	<u>S. quadricauda</u>	702	176
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>	702	176
<u>Botryococcus protuberans</u> ..	6671	176	<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	351	351
<u>Characium sp.</u>	176	176	<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	176	176	<u>Micractinium sp</u>	12640	5267	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>	527	527	<u>Mougeotia sp.</u>	4213	702	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>	2809	351	<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>	19662	351	<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>	23875	1229	<u>Oocystis sp.</u>			<u>V. aureus</u>	176	176
<u>C. microporum</u>			<u>O. Borgei</u>	702	176	<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>	176	176	<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>	8778	8778
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	25455	1229	TOTAL GREENS	218338	25109
<u>D. ehrenbergianum</u>	15800	351	<u>P. simplex</u>	80753	3511	% of TOTAL	35.9	50.3
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u> ...	5618	176	<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>	3511	351	<u>S. acuminatus</u>	702	176			
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

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TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 44 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	527	527
<u>A. formosa</u>			<u>A. circinalis</u>	8778	351	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	5267	351	<u>G. pulvisculus</u>	527	527
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	118496	1229	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	1053	1053
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....			TOTAL DINOFLAGELLATES	2017	2017
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	3160	527	% of TOTAL.....	0.3	4.0
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>					
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	26333	527			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	70220	1229			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	607620	49948
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	1404	1404	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	61443	1053			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	119900	2633	<u>Microcystis aeruginosa</u>	77242	1229			
% of TOTAL.....	19.7	5.3	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>	14922	14922			
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS	267365	20189			
			% of TOTAL.....	44.0	40.4			

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TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 46 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>	33594	787	<i>S. quadricauda</i>	1050	262
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>	9973	525	<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	787	787
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp	19946	525	<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>	1837	1837	<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	7874	262	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	262	262	<i>Nephrocystium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....	262	262	<i>N. obesum</i>	5249	262	<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>	787	787	<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>	11548	525	<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....	3149	3149
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	28870	1050	TOTAL GREENS.....	310477	16530
<i>D. ehrenbergianum</i>	50390	525	<i>P. simplex</i>	90020	3412	% of TOTAL.....	48.3	55.75
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinosphaerella limnetica</i> .			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>	33594	262	<i>S. acuminatus</i>					
<i>Eudorina elegans</i>	8398	525	<i>S. bijuga</i>	1050	262	TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>	1837	262	<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

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TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 46 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>	13123	525	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	15747	1575	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>	262	262
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	262	262
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	65613	787	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	9973	787			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	524	524
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	0.08	1.77
<u>Melosira</u> sp.....	5249	262	<u>Coelosphaerium Kuetszingianum</u> ..	39368	525			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	39368	787			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	642214	29650
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	262	262	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	50390	1312			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>	87921	1575			
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS	71124	1311	<u>M. incerta</u>					
% of TOTAL.....	11.07	4.42	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>	4199	4199			
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	260089	11285			
% of TOTAL.....			% of TOTAL.....	40.50	38.06			

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TABLE III D-5 (cont.)

WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 35 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	1117	419	<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>	140	140
<u>A. hantzschii</u>	5586	140	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	140	140
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>	140	140
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>	838	838	<u>M. pusillum</u>	17875	419	<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>	698	140	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	279	279	<u>Nephrocystium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>	25696	698	<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>	17875	838	<u>O. Borgei</u>	419	140	<u>UID biflagellate</u>	559	559
<u>Cosmarium sp.</u>	140	140	<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>	140	140	<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>	279	279
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	4469	140			
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	19132	978	TOTAL GREENS	187133	11176
<u>D. ehrenbergianum</u>	1676	140	<u>P. simplex</u>	67870	3631	% of TOTAL	15.9	56.3
<u>D. pulchellum</u>	22065	838	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u>			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemienensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPP
 CONTOUR DEPTH 85'
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TABLE III-D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 65.6°F
 SAMPLE VOL. 35 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS.			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....	4190	140	<u>Ceratium hirundinella</u>	140	140
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....	279	279	<u>A. flos-aquae</u>	9077	559	<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	11172	279	<u>G. pulvisculus</u>	279	279
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	838	838
<u>F. capucina</u>	48179	838	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>	140	140
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....	2793	279			
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES	1397	1397
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	.1	7.0
<u>Melosira</u> sp.....	140	140	<u>Coelosphaerium Kuetzingianum</u> ..	837900	1117			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	20948	419			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	1177812	19836
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	4190	140			
<u>Synedra</u> sp.....	140	140	<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	48179	838			
TOTAL DIATOMS	48738	1397	<u>M. incerta</u>					
% of TOTAL	4.1	7.0	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>	2095	2095			
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	940544	5866			
% of TOTAL			% of TOTAL	79.9	29.6			

LOCATION FITZ
 CONTOUR DEPTH 80'
 SAMPLE DATE 9/21/73
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WIND NE @ 1-5
 WATER TEMP. 66.5°F
 SAMPLE VOL. 61 mls

TABLE III-D-5 (cont.)

WINDROW PHYTOPLANKTON

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	696	348
<u>Actinastrum</u> sp.....			<u>Colenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>	11136	348	<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	1044	1044
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....	348	348	<u>Micractinium</u> sp	12876	348	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....	4176	348	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	1044	1044	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. canbricum</u>	5568	348	<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>	25056	1740	<u>O. Borgel</u>	348	348	UID biflagellate.....		
<u>Cosmarium</u> sp.....			<u>O. parva</u>	348	348	UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. formosulum</u>			<u>Pandorina morum</u>			UID unicellular.....	12876	12876
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	11136	696	TOTAL GREENS.....	267962	26448
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	160082	5568	% of TOTAL.....	42.08	49.86
<u>D. pulchellum</u>	4524	348	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u>			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>	16704	348	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 80'
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TABLE III D-5 (cont.)
 WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 66.5°F
 SAMPLE VOL. _____

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>	24360	1044	<u>G. palustre</u>	6612	6612
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....	1392	348	<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	348	348	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>	696	696
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	83521	1044	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	17400	348	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	7308	7308
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	1.15	13.78
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	142682	2784			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	636846	53046
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	5916	1392	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	21576	1044			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>	696	696			
<u>T. fenestrata</u>			<u>L. limnetica</u>					
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	48025	1044			
TOTAL DIATOMS.....	107185	3132	<u>M. incerta</u>	6960	498			
% of TOTAL.....	16.83	5.90	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>	8352	8352			
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....			TOTAL BLUE-GREENS.....	254043	15810			
			% of TOTAL.....	39.89	29.80			

LOCATION FITZ
 CONTOUR DEPTH 80'
 SAMPLE DATE 9/21/73
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TABLE III-D-5 (cont.)

WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 66.5°F
 SAMPLE VOL. 54 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	1233	308	<u>S. quadricauda</u>	1849	616
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> ..		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>	616	616
<u>A. hantzschii</u>	4931	616	<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	308	308
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>	1233	1233	<u>Micractinium sp</u>	10171	616	<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>	308	308	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	308	308	<u>Nephrocyclium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>	925	308	<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>	1233	308	<u>V. aureus</u>		
<u>C. microporum</u>	24656	1541	<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>	3082	2466
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	4931	308			
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	29587	1233	TOTAL GREENS.....	140816	18181
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	15379	5239	% of TOTAL.....	23.2	42.4
<u>D. pulchellum</u>	20341	1233	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>	308	308
<u>Errerella borhemiensis</u>	18492	308	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....	308	308
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL.....	.1	.7
<u>G. ampla</u>			<u>S. denticulatus</u>	1233	308			
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 80'
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TABLE III-D-5 (cont.)

WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 66.5°F
 SAMPLE VOL. 54 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>	308	308
<u>A. formosa</u>			<u>A. circinalis</u>	10479	925	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>	7089	7089
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>	12328	616	<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	308	308	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	925	925
<u>F. capucina</u>	110952	1849	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	1510	308	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	3082	616	TOTAL DINOFLAGELLATES	8322	8322
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	1.4	19.4
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	114034	2157			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL	605859	42835
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	2774	925	<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	9246	308			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	115544	3390	<u>Microcystis aeruginosa</u>	92460	616			
% of TOTAL.....	19.1	7.9	<u>M. incerta</u>	92460	616			
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>	6780	6780			
% of TOTAL.....			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	340869	12634			
			% of TOTAL.....	56.3	29.5			

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TABLE III D-5 (cont.)

WINDROW PHYTOPLANKTON

WIND NE @ 1-5
 WATER TEMP. 66.5°F
 SAMPLE VOL. 43 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	20588	515	<u>S. quadricauda</u>	1373	343
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> ..		
<u>A. gracillimum</u>	1373	172	<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>	343	343	<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....	27451	515	<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....	172	172
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....	2574	172	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>	1544	172	<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>	27451	686	<u>Oocystis</u> sp.....	686	172	<u>V. aureus</u>		
<u>C. microporum</u>	343	343	<u>O. Borqei</u>			UID biflagellate.....		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. formosulum</u>			<u>Pandorina morum</u>	2745	172	UID unicellular.....		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	38432	1029	TOTAL GREENS.....	295444	9783
<u>D. ehrenbergianum</u>			<u>P. simplex</u>	112721	3603	% of TOTAL.....	39.7	52.8
<u>D. pulchellum</u>	16471	343	<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u> ...			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>	35687	515	<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	2745	172	<u>S. bi-juca</u>	686	172	TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>	2059	172	<u>S. longus</u>					

LOCATION FITZ
 CONTOUR DEPTH 80'
 SAMPLE DATE 9/21/73
 TIME 1130

TABLE III-D-5 (cont.)

WINDROW PHYTOPLANKTON

WINDNE @ 1-5
 WATER TEMP. 66.5°F
 SAMPLE VOL. 43 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella sp.</u>			<u>Anabaena sp.</u>			<u>Ceratium hirundinella</u>	515	515
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium sp.</u>		
<u>Cocconeis sp.</u>			<u>A. flos-aquae</u>	24878	858	<u>G. palustre</u>		
<u>Coscinodiscus sp.</u>			<u>A. spiroides</u>	30025	515	<u>G. pulvisculus</u>	2574	2574
<u>C. subtilis</u>			<u>Ancystis sp.</u>			<u>G. quadridens</u>		
<u>Cyclotella sp.</u>			<u>A. limneticus</u>			<u>Gymnodinium sp.</u>		
<u>Diatoma elongatum</u>	17157	172	<u>Aphanocapsa sp.</u>			<u>Peridinium aciculiferum</u>	172	172
<u>Fragilaria sp.</u>			<u>Aphanizomenon sp.</u>			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus sp.</u>					
<u>Gomphonema sp.</u>			<u>C. limneticus</u>	1373	172	TOTAL DINOFLAGELLATES.....	3261	3261
<u>Gyrosigma sp.</u>			<u>C. minutus</u>			% of TOTAL.....	0.4	17.6
<u>Melosira sp.</u>			<u>Coelosphaerium Kuetzingianum</u> ..	27451	515			
<u>Navicula sp.</u>			<u>C. Naegelianum</u>	51471	686			
<u>Nitzschia sp.</u>			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....!!.....	744789	18538
<u>Stephanodiscus sp.</u>	172	172	<u>Gomphosphaeria sp.</u>					
<u>S. hantzschii</u>			<u>G. aponina</u>	2745	172			
<u>Surirella sp.</u>			<u>G. lacustris</u>	93334	1373			
<u>Synedra sp.</u>			<u>Lyngbya Birgei</u>					
<u>Tabellaria sp.</u>			<u>L. Diquetii</u>	172	172			
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>	111521	515			
TOTAL DIATOMS.....	17329	344	<u>Microcystis aeruginosa</u>	85785	172			
% of TOTAL.....	2.3	1.9	<u>M. incerta</u>					
			<u>Oscillatoria sp</u>					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
D. GOLDEN-BROWNS								
<u>Dinobryon sertularia</u>								
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	428755	5150			
% of TOTAL.....			% of TOTAL.....	57.6	27.8			

LOCATION NMPE
 CONTOUR DEPTH 20'
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 TIME 1015

TABLE III D-6

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 48.0°F
 SAMPLE VOL. 106 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	2421	303	<u>S. quadricauda</u>	1211	303
<u>Actinastrum</u> sp.....			<u>Colenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....	13921	908	<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	303	303
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....	12710	1513	<u>T. lamellosa</u>		
<u>C. vulgaris</u>	4237	4237	<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			UID biflagellate.....		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>	2421	303	UID desmid.....	303	303
<u>C. formosulum</u>			<u>Pandorina morum</u>			UID unicellular.....		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>			TOTAL GREENS.....	37527	8173
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	14.2	38.6
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPE
 CONTOUR DEPTH 20'
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TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 48.0°F
 SAMPLE VOL. 106 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	28750	5145	<u>A. circinalis</u>	1513	1513	<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coccinodiscus</u> sp.....	605	605	<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	39645	908	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	12710	908	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....	15132	605	<u>Coelosphaerium Kuetzingianum</u> ..	60526	303			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	30263	303			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	263895	21188
<u>Stephanodiscus</u> sp.....	303	303	<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	30263	303			
<u>Synedra</u> sp.....			<u>Lynqbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	5750	1211	<u>L. limnetica</u>	908	908			
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS.....	102895	9685	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	39.0	45.7	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS....			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	123473	3330			
			% of TOTAL.....	46.8	15.7			

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TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 48.0°F
 SAMPLE VOL. 60 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>	239	120
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>	19718	717	<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>	120	120
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>	13026	837	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	1195	1195	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>	478	120	<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>	956	120	<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			TOTAL GREENS	36927	3469
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL	27.2	37.2
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u> ...			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>	956	120			
<u>Eudorina elegans</u>			<u>S. bijuga</u>	239	120	TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPE
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TABLE III D-6 (cont.)
 WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 48.°F
 SAMPLE VOL. 60 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....	120	120	<u>Ceratium</u> <u>hirundinella</u>		
<u>A. formosa</u>	24020	2749	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	120	120	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium</u> <u>aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>	120	120
<u>F. capucina</u>	11950	120	<u>A. flos-aquae</u>	359	359	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	598	120	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	120	120
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....	0.1	1.3
<u>Melosira</u> sp.....			<u>Coelosphaerium</u> <u>Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	41825	598			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	135878	9331
<u>Stephanodiscus</u> sp.....	359	359	<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	5975	120			
<u>Synedra</u> sp.....			<u>Lyngbya</u> <u>Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	13265	837	<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia</u> <u>tenussima</u>					
			<u>Microcystis</u> <u>aeruginosa</u>	120	120			
TOTAL DIATOMS.....	50312	4305	<u>M. incerta</u>					
% of TOTAL.....	37.0	46.1	<u>Oscillatoria</u> sp	120	120			
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium</u> <u>mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	48519	1437			
% of TOTAL.....			% of TOTAL.....	35.7	15.4			

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 CONTOUR DEPTH 20'
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TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.0°F
 SAMPLE VOL. 97 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens								
<u>Actinastrum sp.</u>			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>A. gracillimum</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. hantzschii</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>Ankistrodesmus sp.</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>A. convolutus</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. falcatus</u>			<u>Hyalotheca sp.</u>	12475	554	<u>Sphaerocystis sp.</u>		
<u>Asterococcus sp.</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Botryococcus protuberans</u> ..			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>B. sudeticus</u>			<u>K. obesa</u>			<u>Staurostrum sp.</u>	277	277
<u>Characium sp.</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Chlamydomonas sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>C. epiphytica</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>Chorella ellipsoidea</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>C. vulgaris</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>Closteriopsis longissima</u> ...	1939	1939	<u>Mougeotia sp.</u>	3324	277	<u>Treubaria setigerum</u>		
<u>Closterium sp.</u>			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Coelastrum sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>C. cambricum</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. microporum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>Cosmarium sp.</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>C. crenatum</u>			<u>O. parva</u>	277	277	<u>UID colony</u>		
<u>C. depressum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. formosulum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. nitidulum</u>			<u>Pandorina morum</u>	4432	277	<u>UID unicellular</u>	831	831
<u>Dactylococcus infusionum</u> ...			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dictyosphaerium sp.</u>			<u>P. Boryanum</u>	1662	277			
<u>D. ehrenbergianum</u>			<u>P. duplex</u>			TOTAL GREENS	25207	4709
<u>D. pulchellum</u>			<u>P. simplex</u>			% of TOTAL	15.3	29.3
<u>Dimorphococcus lunatus</u>			<u>P. tetras</u>					
<u>Echinospaerella limnetica</u> ...			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Elakatothrix gelatinosa</u>			<u>Q. lacustris</u>					
<u>Errerella borhemienensis</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Eudorina elegans</u>			<u>S. acuminatus</u>					
<u>Gleocystis sp.</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>G. ampla</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. gigas</u>			<u>S. denticulatus</u>					
<u>G. planctonica</u>			<u>S. dimorphus</u>					
			<u>S. longus</u>					

LOCATION NMPE
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
 TIME 1015

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.0°F
 SAMPLE VOL. 97 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<i>Asterionella</i> sp.....	11357	1662	<i>Anabaena</i> sp.....			<i>Ceratium hirundinella</i>		
<i>A. formosa</i>	16620	3047	<i>A. circinalis</i>			<i>Glenodinium</i> sp.....		
<i>Cocconeis</i> sp.....			<i>A. flos-aquae</i>			<i>G. palustre</i>		
<i>Coscinodiscus</i> sp.....			<i>A. spiroides</i>			<i>G. pulvisculus</i>		
<i>C. subtilis</i>	554	554	<i>Ancystis</i> sp.....			<i>G. quadridens</i>		
<i>Cyclotella</i> sp.....			<i>A. limneticus</i>			<i>Gymnodinium</i> sp.....		
<i>Diatoma elongatum</i>			<i>Aphanocapsa</i> sp.....			<i>Peridinium aciculiferum</i>		
<i>Fragilaria</i> sp.....			<i>Aphanizomenon</i> sp.....			<i>P. cinctum</i>	277	277
<i>F. capucina</i>	41550	554	<i>A. flos-aquae</i>	1108	1108	<i>P. inconspicuum</i>		
<i>F. crotonensis</i>	11080	554	<i>Chroococcus</i> sp.....					
<i>Gomphonema</i> sp.....			<i>C. limneticus</i>			TOTAL DINOFLAGELLATES	277	277
<i>Gyrosigma</i> sp.....			<i>C. minutus</i>			% of TOTAL.....	0.2	1.7
<i>Melosira</i> sp.....			<i>Coelosphaerium Kuetszingianum</i> ..	56010	831			
<i>Navicula</i> sp.....			<i>C. Naegelianum</i>			GRAND TOTAL	165092	16066
<i>Nitzschia</i> sp.....			<i>Gloeocapsa punctata</i>					
<i>Stephanodiscus</i> sp.....	277	277	<i>Gomphosphaeria</i> sp.....					
<i>S. hantzschii</i>	277	277	<i>G. aponina</i>					
<i>Surirella</i> sp.....			<i>G. lacustris</i>	16066	554			
<i>Synedra</i> sp.....			<i>Lyngbya Birgei</i>					
<i>Tabellaria</i> sp.....			<i>L. Diquetii</i>					
<i>T. fenestrata</i>	4432	1385	<i>L. limnetica</i>	277	277			
UID pennate.....			<i>Merismopedia tenuissima</i>					
			<i>Microcystis aeruginosa</i>					
TOTAL DIATOMS	86147	8310	<i>M. incerta</i>					
% of TOTAL.....	52.2	51.7	<i>Oscillatoria</i> sp.....					
			<i>O. limnetica</i>					
D. GOLDEN-BROWNS			<i>O. subbrevis</i>					
<i>Dinobryon sertularia</i>			<i>Phormidium mucicola</i>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	53461	2770			
% of TOTAL.....			% of TOTAL.....	32.3	17.2			

LOCATION NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1040

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 47.5°F
 SAMPLE VOL. 110 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....	2634	220	<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum</u> sp.....	220	220
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....	12073	878	<u>T. lamellosa</u>		
<u>C. vulgaris</u>	2415	2415	<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>	7024	220	<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgel</u>			<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Borvanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>			TOTAL GREENS.....	26561	4393
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	27.2	40.6
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>	439	220			
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>	1756	220			
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1040

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 47.5°F
 SAMPLE VOL. 110 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....	24584	3073	<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>	659	659	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..	28096	439			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	16682	1317	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	97680	10979
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	1098	1098			
UID pennate.....			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	41266	4390	<u>M. incerta</u>					
% of TOTAL.....	42.2	40.0	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	29853	2196			
% of TOTAL.....			% of TOTAL.....	30.5	20.0			

LOCATION NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1040

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 47.5°F
 SAMPLE VOL. 22 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			G. vesticulosa.....			S. quadricauda.....		
Actinastrum sp.....			Golenkinia paucispina			Schizochlamys gelatinosa .		
A. gracillimum.....			G. radiata			Schroederia sp.....		
A. hantzschii			Gonium pectorale.....			S. setigera.....		
Ankistrodesmus sp.....			G. sociale			Selenastrum minutum.....		
A. convolutus			Hyalotheca sp.....	1320	88	Sphaerocystis sp.....		
A. falcatus			H. dissiliens			S. Schroteri		
Asterococcus sp.....			Kirchneriella lunaris			Spondylosium sp.....		
Botryococcus protuberans ..			K. obesa			Staurostrum sp.....		
B. sudeticus			Lagerheimia ciliata			S. cuspidatum		
Characium sp.....			L. quadriseta			S. gracile		
Chlamydomonas sp.....			Micractinium sp			Tetraedron minimum		
C. epiphytica.....			M. pusillum	440	44	Tetraspora lacustris		
Chorella ellipsoidea.....			Microspora sp.....			T. lamellosa.....		
C. vulgaris.....	484	484	Mougeotia sp.....			Treubaria setigerum.....		
Closteriopsis longissima...			Nephrocytium Agardhianum.....			Ulothrix sp.....		
Closterium sp.....			N. obesum.....			U. zonata.....		
Coelastrum sp.....			Oedogonium sp.....			Volvox sp.....		
C. cambricum.....			Oocystis sp.....			V. aureus.....		
C. microporum.....			O. Borgei.....			UID biflagellate.....		
Cosmarium sp.....			O. parva.....			UID colony.....		
C. crenatum.....			O. pusilla.....			UID 3-celled colony.....		
C. depressum.....			O. solitaria.....	1408	88	UID desmid.....		
C. formosulum.....			Pandorina morum.....			UID unicellular.....		
C. nitidulum.....			Pediastrum sp.....	352	44	UID zygospor.....		
Dactylococcus infusionum...			P. Boryanum.....					
Dictyosphaerium sp.....			P. duplex.....			TOTAL GREENS.....	4004	748
D. ehrenbergianum.....			P. simplex.....			% of TOTAL.....	15.6	27.9
D. pulchellum.....			P. tetras.....					
Dimorphococcus lunatus.....			Quadrigula Chodatii.....			B. EUGLENOIDS		
Echinospaerella limnetica.			Q. lacustris.....					
Elakatothrix gelatinosa....			Scenedesmus sp.....			Euglena sp.....		
Errerella borhemiensis.....			S. acuminatus.....					
Eudorina elegans.....			S. bijuga.....			TOTAL EUGLENOIDS.....		
Gleocystis sp.....			S. Brasiliensis.....			% of TOTAL.....		
G. ampla.....			S. denticulatus.....					
G. gigas.....			S. dimorphus.....					
G. planctonica.....			S. longus.....					

LOCATION - NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1040

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WINDSE @ 5-10
 WATER TEMP. 47.5°F
 SAMPLE VOL. 22 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	7216	968	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....	2816	44	<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....	176	176	<u>P. cinctum</u>		
<u>F. capucina</u>	4400	176	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	1320	44	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	2816	44			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	176	176	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	25740	2684
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	2772	264	<u>L. limnetica</u>	44	44			
UID pennate.....			<u>Merismopedia tenussima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	15884	1628	<u>M. incerta</u>					
% of TOTAL.....	61.7	60.7	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....			TOTAL BLUE-GREENS.....	5852	308			
			% of TOTAL.....	22.7	11.5			

LOCATION NWPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1040

TABLE III-D-6 (cont.)

WIND SE @ 5-10
 WATER TEMP. 47.5°F
 SAMPLE VOL. 81 mls

WINDROW PHYTOPLANKTON

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>	323	323	<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>	9690	323	<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	485	485
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Microactinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>	8075	323	<u>T. lamellosa</u>		
<u>C. vulgaris</u>	1454	1454	<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. canbricum</u>			<u>Oocystis sp.</u>	646	162	<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>	162	162
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>	162	162	<u>UID zygospor</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>			TOTAL GREENS.....	20997	3394
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			% of TOTAL.....	23.0	39.6
<u>D. ehrenbergianum</u>			<u>P. simplex</u>					
<u>D. pulchellum</u>			<u>P. tetras</u>			B. EUGLENOIDS		
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			<u>Euglena sp.</u>		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>			TOTAL EUGLENOIDS.....		
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			% of TOTAL.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>					
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>					
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPE
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1040

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 47.5°F
 SAMPLE VOL. 81 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....	12113	646	<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	21641	2584	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	17765	323	<u>A. flos-aquae</u>	323	323	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	2746	485	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>	1615	162	TOTAL DINOFLAGELLATES		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	8075	162			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	162	162	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL	91251	8564
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	5814	323	<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	48128	3877	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	52.7	45.3	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
% of TOTAL.....			<u>UID crescent-shaped</u>					
			TOTAL BLUE-GREENS	22156	1293			
			% of TOTAL.....	24.2	15.1			

LOCATION NMPP
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1230

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 44.8°F
 SAMPLE VOL. 70 ml

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>	18953	798	<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	599	599
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>	5586	599	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	2394	2394	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>	200	200
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			TOTAL GREENS	30924	4790
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL	16.7	39.5
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	3192	200	<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPP
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1230

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 44.8°F
 SAMPLE VOL. 70 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	20948	3591	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	36509	599	<u>A. flos-aquae</u>	399	399	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	7980	399	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	39900	599			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	184940	12174
<u>Stephanodiscus</u> sp.....	200	200	<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	8180	1397	<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	39900	200			
TOTAL DIATOMS.....	73817	6186	<u>M. incerta</u>					
% of TOTAL.....	39.9	51.1	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	80199	1198			
% of TOTAL.....			% of TOTAL.....	43.3				

LOCATION FITZ
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1230

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 44.8°F
 SAMPLE VOL. 88 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens								
Actinastrum sp.....			G. vesticulosa.....			S. quadricauda.....		
A. gracillimum.....			Golenkinia paucispina.....			Schizochlamys gelatinosa .		
A. hantzschii.....			G. radiata.....			Schroederia sp.....		
Ankistrodesmus sp.....			Gonium pectorale.....			S. setigera.....		
A. convolutus.....	176	176	G. sociale.....			Selenastrum minutum.....		
A. falcatus.....			Hyalotheca sp.....	8775	351	Sphaerocystis sp.....		
Asterococcus sp.....			H. dissiliens.....			S. Schroteri.....	527	527
Botryococcus protuberans ..			Kirchneriella lunaris.....			Spondylosium sp.....		
B. sudeticus.....			K. obesa.....			Staurostrum sp.....		
Characium sp.....			Lagerheimia ciliata.....			S. cuspidatum.....		
Chlamydomonas sp.....			L. quadriseta.....			S. gracile.....		
C. epiphytica.....			Micractinium sp.....			Tetradron minimum.....		
Chorella ellipsoidea.....			M. pusillum.....			Tetraspora lacustris.....		
C. vulgaris.....	2457	2457	Microspora sp.....	4563	527	T. lamellosa.....		
Closteriopsis longissima...			Mougeotia sp.....			Treubaria setigerum.....		
Closterium sp.....			Nephrocytium Agardhianum.....			Ulothrix sp.....		
Coelastrum sp.....			N. obesum.....			U. zonata.....		
C. cambricum.....			Oedogonium sp.....			Volvox sp.....		
C. microporum.....			Oocystis sp.....			V. aureus.....		
Cosmarium sp.....			O. Borgei.....			UID biflagellate.....	3510	351
C. crenatum.....			O. parva.....			UID colony.....		
C. depressum.....			O. pusilla.....			UID 3-celled colony.....		
C. formosulum.....			O. solitaria.....	2808	176	UID desmid.....		
C. nitidulum.....			Pandorina morum.....			UID unicellular.....		
Dactylococcus infusionum...			Pediastrum sp.....			UID zygospore.....		
Dictyosphaerium sp.....			P. Boryanum.....					
D. ehrenbergianum.....			P. duplex.....			TOTAL GREENS.....	27028	5444
D. pulchellum.....			P. simplex.....	351	176	% of TOTAL.....	17.0	33.0
Dimorphococcus lunatus.....			P. tetras.....					
Echinosphaerella linnetica...			Quadrigula Chodatii.....			B. EUGLENOIDS		
Elakatothrix gelatinosa....			Q. lacustris.....					
Errerella borhemienensis....			Scenedesmus sp.....			Euglena sp.....		
Eudorina elegans.....	2808	176	S. acuminatus.....	1053	527			
Gleocystis sp.....			S. bijugus.....			TOTAL EUGLENOIDS.....		
G. ampla.....			S. Brasiliensis.....			% of TOTAL.....		
G. gigas.....			S. denticulatus.....					
G. planctonica.....			S. dimorphus.....					
			S. longus.....					

LOCATION FITZ
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1230

TABLE III D-6 (cont.)
 WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 44.8°F
 SAMPLE VOL. 88 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	22464	2808	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....	351	351	<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	12285	527	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>	1229	1229	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	73008	1229			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>			GRAND TOTAL.....	159182	16505
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....					
<u>S. hantzschii</u>	176	176	<u>G. aponina</u>					
<u>Surirella</u> sp.....	176	176	<u>G. lacustris</u>	5616	176			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	14040	1580	<u>L. limnetica</u>	176	176			
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>	2633	2633			
TOTAL DIATOMS.....	49492	5618	<u>M. incerta</u>					
% of TOTAL.....	31.1	34.0	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....			TOTAL BLUE-GREENS.....	82662	5443			
			% of TOTAL.....	51.9	33.0			

LOCATION NMPP
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1238

TABLE III-D-6 (cont.)
 WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 44.8°F
 SAMPLE VOL. 74 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>	148	148
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>	2655	2655	<u>Mougeotia sp.</u>	7228	1033	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>	148	148	<u>O. Borgoi</u>	590	148	<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>	148	148	<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>	2360	148	<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>	2360	148	TOTAL GREENS.....	15637	4576
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			% of TOTAL.....	10.6	40.3
<u>D. ehrenbergianum</u>			<u>P. simplex</u>					
<u>D. pulchellum</u>			<u>P. tetras</u>			B. EUGLENOIDS		
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			<u>Euglena sp.</u>		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>			TOTAL EUGLENOIDS.....		
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			% of TOTAL.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>					
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>					
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION ~ NMPP
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1238

TABLE III-D-6 (cont.)
 WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 44.8°F
 SAMPLE VOL. 74 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella sp.</u>			<u>Anabaena sp.</u>			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	23600	3245	<u>A. circinalis</u>			<u>Glenodinium sp.</u>		
<u>Cocconeis sp.</u>			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus sp.</u>			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	148	148	<u>Ancystis sp.</u>			<u>G. quadridens</u>		
<u>Cyclotella sp.</u>			<u>A. linneticus</u>			<u>Gymnodinium sp.</u>		
<u>Diatoma elongatum</u>			<u>Aphanocapsa sp.</u>			<u>Peridinium aciculiferum</u>		
<u>Fragilaria sp.</u>			<u>Aphanizomenon sp.</u>			<u>P. cinctum</u>		
<u>F. capucina</u>	5900	295	<u>A. flos-aquae</u>	295	295	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	5900	295	<u>Chroococcus sp.</u>					
<u>Gomphonema sp.</u>			<u>C. linneticus</u>			TOTAL DINOFLAGELLATES		
<u>Gyrosigma sp.</u>			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira sp.</u>	8113	295	<u>Coelosphaerium Kuetszingianum</u> ..	80240	1328			
<u>Navicula sp.</u>			<u>C. Naegeelianum</u>					
<u>Nitzschia sp.</u>			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus sp.</u>			<u>Gomphosphaeria sp.</u>			GRAND TOTAL	148094	11363
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella sp.</u>			<u>G. lacustris</u>					
<u>Synedra sp.</u>			<u>Lyngbya Birgei</u>					
<u>Tabellaria sp.</u>			<u>L. Diguei</u>					
<u>T. fenestrata</u>	8113	738	<u>L. linnetica</u>	148	148			
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS	51774	5016	<u>M. incerta</u>					
% of TOTAL.....	35.0	44.1	<u>Oscillatoria sp.</u>					
			<u>O. linnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS			TOTAL BLUE-GREENS	80683	1771			
% of TOTAL.....			% of TOTAL.....	54.4	15.5			

LOCATION NMPP
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
 TIME 1300

TABLE III: D-6 (cont.)
 WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP.
 SAMPLE VOL. 69 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Colenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Conium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>	550	550
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>	2613	2613	<u>Mougeotia sp.</u>	6188	413	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>	138	138	<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>	550	138	<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>	1100	138	<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>				14439	4266
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			TOTAL GREENS	7.9	29.8
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL		
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemienensis</u> ...			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>	2200	138	<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>	1100	138	<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPP
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
 TIME 1300

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP.
 SAMPLE VOL. 69 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	42350	5500	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	43313	825	<u>A. flos-aquae</u>	413	413	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	7563	275	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....	550	138	<u>Coelosphaerium Kuetszingianum</u> ..	35200	550			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	24475	413			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	550	550	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	183154	14306
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	14163	1238	<u>L. limnetica</u>	138	138			
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	108489	8526	<u>M. incerta</u>					
% of TOTAL.....	59.2	59.6	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	60226	1514			
% of TOTAL.....			% of TOTAL.....	32.9	10.6			

LOCATION NMPP
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
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TABLE III-D-6 (cont.)
 WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. ---
 SAMPLE VOL. 75 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>	150	150	<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>	150	150	<u>Hyalotheca sp.</u>	7930	299	<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>	299	299
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u> :.....		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>	16459	599	<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	898	898	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>	2244	150
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>	449	150	<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>:		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ..			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			<u>TOTAL GREENS</u>	28579	2695
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			<u>% of TOTAL</u>	15.3	26.9
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> .			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			<u>TOTAL EUGLENOIDS</u>		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			<u>% of TOTAL</u>		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPP
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
 TIME 1300

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. ---
 SAMPLE VOL. 75 mls.

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	23641	3591	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	32918	299	<u>A. flos-aquae</u>	748	748	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	18703	449	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	22444	299			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	599	599	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	186735	10027
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	44888	449			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. diquetii</u>					
<u>T. fenestrata</u>	14065	748	<u>L. limnetica</u>					
<u>UID pennate</u>	150	150	<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	90076	5836	<u>M. incerta</u>					
% of TOTAL.....	48.2	58.2	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	68080	1496			
% of TOTAL.....			% of TOTAL.....	36.5	14.9			

LOCATION NMPW
 CONTOUR DEPTH 10'
 SAMPLE DATE 12-5-73
 TIME 1320

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.1°F
 SAMPLE VOL. 55 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....	19710	438	<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>	329	329
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....	3285	110	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	438	438	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>	1643	110	<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>	1095	110	<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>	548	110	TOTAL GREENS.....	27158	1755
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	27.3	27.6
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u>			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....	110	110	<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPW
 CONTOUR DEPTH 10'
 SAMPLE DATE 12-5-73
 TIME 1320

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.1°F
 SAMPLE VOL. 55 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....	1095	110	<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	17192	2628	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	1095	110	<u>A. flos-aquae</u>	110	110	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetszingianum</u> ..	5475	110			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>	16425	219			
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	548	548	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	99540	6357
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	21900	219			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	8432	438	<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	27267	3724	<u>M. incerta</u>					
% of TOTAL.....	27.4	58.6	<u>Oscillatoria</u> sp.....	1 10	110			
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
D. GOLDEN-BROWNS								
<u>Dinobryon sertularia</u>								
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	45115	878			
% of TOTAL.....			% of TOTAL.....	45.3	13.8			

LOCATION NMPW
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1320

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.1°F
 SAMPLE VOL. 87 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>	29323	1243	<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurastrum sp.</u>	249	249
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>	2982	249	<u>Treubaria stigerum</u>		
<u>Closteriopsis longissima</u> ...	2734	2734	<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>	3976	249	TOTAL GREENS.....	39264	4724
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	24.3	31.2
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> .			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>			<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPW
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1320

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.1°F
 SAMPLE VOL. 87 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	29075	4225	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>	249	249
<u>C. subtilis</u>	497	497	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....	24850	249	<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>			<u>A. flos-aquae</u>	1491	1491	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>			<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....	8946	497	<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....	249	249
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>	994	249	% of TOTAL.....	0.2	1.6
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	24850	249			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	161527	15165
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	12425	249			
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....	10437	1243	<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	994	994			
UID pennate.....			<u>Merismopedia tenussima</u>					
			<u>Microcystis aeruginosa</u>	7455	249			
TOTAL DIATOMS.....	73805	6711	<u>M. incerta</u>					
% of TOTAL.....	45.7	44.3	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			UID crescent-shaped.....					
TOTAL GOLDEN-BROWNS....								
% of TOTAL.....			TOTAL BLUE-GREENS.....	48209	3481			
			% of TOTAL.....	29.8	22.9			

LOCATION NMPW
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1320

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.1°F
 SAMPLE VOL. 79 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>			<i>S. quadricauda</i>		
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>	4510	226	<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylosium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>		
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....	11501	1128	<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...	2255	2255	<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. canbricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgei</i>			UID biflagellate.....		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			UID colony.....		
<i>C. crenatum</i>			<i>O. pusilla</i>			UID 3-celled colony.....		
<i>C. depressum</i>			<i>O. solitaria</i>			UID desmid.....		
<i>C. formosulum</i>			<i>Pandorina morum</i>			UID unicellular.....		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			UID zygospore.....		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>	2030	226	TOTAL GREENS.....	20296	3835
<i>D. ehrenbergianum</i>			<i>P. simplex</i>			% of TOTAL.....	10.4	30.3
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>			<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION NMPW
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1320

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.1°F
 SAMPLE VOL. 79 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	13345	3834	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>	226	226	<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	22550	226	<u>A. flos-aquae</u>	677	677	<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	14883	902	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..	67650	902			
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	451	451	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	194384	12633
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>	22550	226			
<u>Synedra</u> sp.....	7216	226	<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	6089	677	<u>L. limnetica</u>	451	451			
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
			<u>Microcystis aeruginosa</u>					
TOTAL DIATOMS.....	82760	6542	<u>M. incerta</u>					
% of TOTAL.....	42.6	51.8	<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
D. GOLDEN-BROWNS			<u>O. subbrevis</u>					
<u>Dinobryon sertularia</u>			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS....			TOTAL BLUE-GREENS.....	91328	2256			
% of TOTAL.....			% of TOTAL.....	47.0	17.9			

LOCATION NMPW
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
 TIME 1330

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.4°F
 SAMPLE VOL. 56 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>	10560	480	<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>			<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>	1600	160	<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>			<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>	2560	160	<u>UID colony</u>	320	320
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>			TOTAL GREENS	15040	1120
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			% of TOTAL	27.3	21.9
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			B. EUGLENOIDS		
<u>D. pulchellum</u>			<u>P. tetras</u>			<u>Euglena sp.</u>		
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			TOTAL EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>			% of TOTAL		
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>					
<u>Errerella borhemienensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>					
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>					
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

WIND SE @ 5-10
WATER TEMP. 43.4°F
SAMPLE VOL. 56mls

WINDROW PHYTOPLANKTON

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>	960	320	<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	18400	480	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	16000	960	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....	320	320	<u>Gomphosphaeria</u> sp.....			GRAND TOTAL	55040	5120
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....			<u>L. Diquetii</u>					
<u>T. fenestrata</u>	4320	1920	<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	40000	4000	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	72.7	78.1	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
			<u>Phormidium mucicola</u>					
			<u>UID crescent-shaped</u>					
D. GOLDEN-BROWNS			TOTAL BLUE-GREENS					
<u>Dinobryon sertularia</u>			% of TOTAL.....					
TOTAL GOLDEN-BROWNS								
% of TOTAL.....								

LOCATION NMPW
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
 TIME 1330

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.4°F
 SAMPLE VOL. 51 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum</u> sp.....			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia</u> sp.....		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus</u> sp.....			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca</u> sp.....			<u>Sphaerocystis</u> sp.....		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus</u> sp.....			<u>Kirchneriella lunaris</u>			<u>Spondylosium</u> sp.....		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum</u> sp.....		
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium</u> sp.....			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas</u> sp.....			<u>Micractinium</u> sp			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora</u> sp.....	1310	437	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia</u> sp.....			<u>Treubaria tangerum</u>		
<u>Closteriopsis longissima</u> ...			<u>Nephrocytium Agardhianum</u>			<u>Ulothrix</u> sp.....		
<u>Closterium</u> sp.....			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum</u> sp.....			<u>Oedogonium</u> sp.....			<u>Volvox</u> sp.....		
<u>C. cambricum</u>			<u>Oocystis</u> sp.....			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgel</u>			UID biflagellate.....		
<u>Cosmarium</u> sp.....			<u>O. parva</u>			UID colony.....		
<u>C. crenatum</u>			<u>O. pusilla</u>			UID 3-celled colony.....		
<u>C. depressum</u>			<u>O. solitaria</u>			UID desmid.....		
<u>C. formosulum</u>			<u>Pandorina morum</u>			UID unicellular.....		
<u>C. nitidulum</u>			<u>Pediastrum</u> sp.....			UID zygospore.....		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium</u> sp.....			<u>P. duplex</u>			TOTAL GREENS.....	1310	437
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL.....	5.4	16.7
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinospaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus</u> sp.....			<u>Euglena</u> sp.....		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS.....		
<u>Gleocystis</u> sp.....			<u>S. Brasiliensis</u>			% of TOTAL.....		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

LOCATION NMPW
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
 TIME 1330

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.4°F
 SAMPLE VOL. 51 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella sp.</u>			<u>Anabaena sp.</u>			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium sp.</u>		
<u>Cocconeis sp.</u>			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus sp.</u>			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis sp.</u>			<u>G. quadridens</u>		
<u>Cyclotella sp.</u>			<u>A. limneticus</u>			<u>Gymnodinium sp.</u>		
<u>Diatoma elongatum</u>			<u>Aphanocapsa sp.</u>			<u>Peridinium aciculiferum</u>		
<u>Fragilaria sp.</u>			<u>Aphanizomenon sp.</u>			<u>P. cinctum</u>		
<u>F. capucina</u>	10913	437	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	10040	582	<u>Chroococcus sp.</u>					
<u>Gomphonema sp.</u>			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES		
<u>Gyrosigma sp.</u>			<u>C. minutus</u>			% of TOTAL		
<u>Melosira sp.</u>			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula sp.</u>			<u>C. Naegelianum</u>					
<u>Nitzschia sp.</u>			<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus sp.</u>			<u>Gomphosphaeria sp.</u>			GRAND TOTAL	24446	2620
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella sp.</u>			<u>G. lacustris</u>					
<u>Synedra sp.</u>			<u>Lyngbya Birgei</u>					
<u>Tabellaria sp.</u>	2183	1164	<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>					
<u>UID pennate</u>			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS	23136	2183	<u>Microcystis aeruginosa</u>					
% of TOTAL	94.6	83.3	<u>M. incerta</u>					
			<u>Oscillatoria sp.</u>					
			<u>O. limnetica</u>					
			<u>O. subbrevis</u>					
D. GOLDEN-BROWNS			<u>Phormidium mucicola</u>					
<u>Dinobryon sertularia</u>			<u>UID crescent-shaped</u>					
TOTAL GOLDEN-BROWNS								
% of TOTAL			TOTAL BLUE-GREENS					
			% of TOTAL					

LOCATION NMPW
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1330

WIND SE @ 5-10
 WATER TEMP. 43.4°F
 SAMPLE VOL. 66 mls

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<i>G. vesticulosa</i>			<i>S. quadricauda</i>		
<i>Actinastrum</i> sp.....			<i>Golenkinia paucispina</i>			<i>Schizochlamys gelatinosa</i> .		
<i>A. gracillimum</i>			<i>G. radiata</i>			<i>Schroederia</i> sp.....		
<i>A. hantzschii</i>			<i>Gonium pectorale</i>			<i>S. setigera</i>		
<i>Ankistrodesmus</i> sp.....			<i>G. sociale</i>			<i>Selenastrum minutum</i>		
<i>A. convolutus</i>			<i>Hyalotheca</i> sp.....			<i>Sphaerocystis</i> sp.....		
<i>A. falcatus</i>			<i>H. dissiliens</i>			<i>S. Schroteri</i>		
<i>Asterococcus</i> sp.....			<i>Kirchneriella lunaris</i>			<i>Spondylium</i> sp.....		
<i>Botryococcus protuberans</i> ..			<i>K. obesa</i>			<i>Staurostrum</i> sp.....		
<i>B. sudeticus</i>			<i>Lagerheimia ciliata</i>			<i>S. cuspidatum</i>	189	189
<i>Characium</i> sp.....			<i>L. quadriseta</i>			<i>S. gracile</i>		
<i>Chlamydomonas</i> sp.....			<i>Micractinium</i> sp			<i>Tetraedron minimum</i>		
<i>C. epiphytica</i>			<i>M. pusillum</i>			<i>Tetraspora lacustris</i>		
<i>Chorella ellipsoidea</i>			<i>Microspora</i> sp.....			<i>T. lamellosa</i>		
<i>C. vulgaris</i>			<i>Mougeotia</i> sp.....			<i>Treubaria setigerum</i>		
<i>Closteriopsis longissima</i> ...			<i>Nephrocytium Agardhianum</i>			<i>Ulothrix</i> sp.....		
<i>Closterium</i> sp.....			<i>N. obesum</i>			<i>U. zonata</i>		
<i>Coelastrum</i> sp.....			<i>Oedogonium</i> sp.....			<i>Volvox</i> sp.....		
<i>C. cambricum</i>			<i>Oocystis</i> sp.....			<i>V. aureus</i>		
<i>C. microporum</i>			<i>O. Borgel</i>			<i>UID biflagellate</i>		
<i>Cosmarium</i> sp.....			<i>O. parva</i>			<i>UID colony</i>		
<i>C. crenatum</i>			<i>O. pusilla</i>			<i>UID 3-celled colony</i>		
<i>C. depressum</i>			<i>O. solitaria</i>			<i>UID desmid</i>	189	189
<i>C. formosulum</i>			<i>Pandorina morum</i>			<i>UID unicellular</i>		
<i>C. nitidulum</i>			<i>Pediastrum</i> sp.....			<i>UID zygospore</i>		
<i>Dactylococcus infusionum</i> ...			<i>P. Boryanum</i>					
<i>Dictyosphaerium</i> sp.....			<i>P. duplex</i>			TOTAL GREENS.....	378	378
<i>D. ehrenbergianum</i>			<i>P. simplex</i>			% of TOTAL.....	1.5	10.5
<i>D. pulchellum</i>			<i>P. tetras</i>					
<i>Dimorphococcus lunatus</i>			<i>Quadrigula Chodatii</i>			B. EUGLENOIDS		
<i>Echinospaerella limnetica</i> ...			<i>Q. lacustris</i>					
<i>Elakatothrix gelatinosa</i>			<i>Scenedesmus</i> sp.....			<i>Euglena</i> sp.....		
<i>Errerella borhemiensis</i>			<i>S. acuminatus</i>					
<i>Eudorina elegans</i>			<i>S. bijuga</i>			TOTAL EUGLENOIDS.....		
<i>Gleocystis</i> sp.....			<i>S. Brasiliensis</i>			% of TOTAL.....		
<i>G. ampla</i>			<i>S. denticulatus</i>					
<i>G. gigas</i>			<i>S. dimorphus</i>					
<i>G. planctonica</i>			<i>S. longus</i>					

LOCATION NMPW
 CONTOUR DEPTH 40'
 SAMPLE DATE 12-5-73
 TIME 1330

TABLE III-D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. 43.4°F
 SAMPLE VOL. 66 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
C. DIATOMS			E. BLUE-GREENS			F. DINOFLAGELLATES		
<u>Asterionella</u> sp.....			<u>Anabaena</u> sp.....			<u>Ceratium hirundinella</u>		
<u>A. formosa</u>			<u>A. circinalis</u>			<u>Glenodinium</u> sp.....		
<u>Cocconeis</u> sp.....			<u>A. flos-aquae</u>			<u>G. palustre</u>		
<u>Coscinodiscus</u> sp.....			<u>A. spiroides</u>			<u>G. pulvisculus</u>		
<u>C. subtilis</u>			<u>Ancystis</u> sp.....			<u>G. quadridens</u>		
<u>Cyclotella</u> sp.....			<u>A. limneticus</u>			<u>Gymnodinium</u> sp.....		
<u>Diatoma elongatum</u>			<u>Aphanocapsa</u> sp.....			<u>Peridinium aciculiferum</u>		
<u>Fragilaria</u> sp.....			<u>Aphanizomenon</u> sp.....			<u>P. cinctum</u>		
<u>F. capucina</u>	14703	377	<u>A. flos-aquae</u>			<u>P. inconspicuum</u>		
<u>F. crotonensis</u>	8106	943	<u>Chroococcus</u> sp.....					
<u>Gomphonema</u> sp.....			<u>C. limneticus</u>			TOTAL DINOFLAGELLATES.....		
<u>Gyrosigma</u> sp.....			<u>C. minutus</u>			% of TOTAL.....		
<u>Melosira</u> sp.....			<u>Coelosphaerium Kuetzingianum</u> ..					
<u>Navicula</u> sp.....			<u>C. Naegelianum</u>					
<u>Nitzschia</u> sp.....	377	377	<u>Gloeocapsa punctata</u>					
<u>Stephanodiscus</u> sp.....			<u>Gomphosphaeria</u> sp.....			GRAND TOTAL.....	25261	3584
<u>S. hantzschii</u>			<u>G. aponina</u>					
<u>Surirella</u> sp.....			<u>G. lacustris</u>					
<u>Synedra</u> sp.....			<u>Lyngbya Birgei</u>					
<u>Tabellaria</u> sp.....	1508	1320	<u>L. Diquetii</u>					
<u>T. fenestrata</u>			<u>L. limnetica</u>	189	189			
UID pennate.....			<u>Merismopedia tenuissima</u>					
TOTAL DIATOMS.....	24694	3017	<u>Microcystis aeruginosa</u>					
% of TOTAL.....	97.8	84.2	<u>M. incerta</u>					
			<u>Oscillatoria</u> sp.....					
D. GOLDEN-BROWNS			<u>O. limnetica</u>					
<u>Dinobryon sertularia</u>			<u>O. subbrevis</u>					
TOTAL GOLDEN-BROWNS....			<u>Phormidium mucicola</u>					
% of TOTAL.....			UID crescent-shaped.....					
			TOTAL BLUE-GREENS.....	189	189			
			% of TOTAL.....	0.7	5.3			

LOCATION NMPP
 CONTOUR DEPTH 20'
 SAMPLE DATE 12-5-73
 TIME 1350

TABLE III D-6 (cont.)

WINDROW PHYTOPLANKTON

WIND SE @ 5-10
 WATER TEMP. ---
 SAMPLE VOL. 72 mls

GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L	GROUP	CELLS/ L	CLUMPS/ L
A. Greens			<u>G. vesticulosa</u>			<u>S. quadricauda</u>		
<u>Actinastrum sp.</u>			<u>Golenkinia paucispina</u>			<u>Schizochlamys gelatinosa</u> .		
<u>A. gracillimum</u>			<u>G. radiata</u>			<u>Schroederia sp.</u>		
<u>A. hantzschii</u>			<u>Gonium pectorale</u>			<u>S. setigera</u>		
<u>Ankistrodesmus sp.</u>			<u>G. sociale</u>			<u>Selenastrum minutum</u>		
<u>A. convolutus</u>			<u>Hyalotheca sp.</u>	7175	144	<u>Sphaerocystis sp.</u>		
<u>A. falcatus</u>			<u>H. dissiliens</u>			<u>S. Schroteri</u>		
<u>Asterococcus sp.</u>			<u>Kirchneriella lunaris</u>			<u>Spondylosium sp.</u>		
<u>Botryococcus protuberans</u> ..			<u>K. obesa</u>			<u>Staurostrum sp.</u>	287	287
<u>B. sudeticus</u>			<u>Lagerheimia ciliata</u>			<u>S. cuspidatum</u>		
<u>Characium sp.</u>			<u>L. quadriseta</u>			<u>S. gracile</u>		
<u>Chlamydomonas sp.</u>			<u>Micractinium sp</u>			<u>Tetraedron minimum</u>		
<u>C. epiphytica</u>			<u>M. pusillum</u>			<u>Tetraspora lacustris</u>		
<u>Chorella ellipsoidea</u>			<u>Microspora sp.</u>	11911	1005	<u>T. lamellosa</u>		
<u>C. vulgaris</u>			<u>Mougeotia sp.</u>			<u>Treubaria setigerum</u>		
<u>Closteriopsis longissima</u> ...	4018	4018	<u>Nephrocystium Agardhianum</u>			<u>Ulothrix sp.</u>		
<u>Closterium sp.</u>			<u>N. obesum</u>			<u>U. zonata</u>		
<u>Coelastrum sp.</u>			<u>Oedogonium sp.</u>			<u>Volvox sp.</u>		
<u>C. cambricum</u>			<u>Oocystis sp.</u>			<u>V. aureus</u>		
<u>C. microporum</u>			<u>O. Borgei</u>			<u>UID biflagellate</u>		
<u>Cosmarium sp.</u>			<u>O. parva</u>			<u>UID colony</u>		
<u>C. crenatum</u>			<u>O. pusilla</u>			<u>UID 3-celled colony</u>		
<u>C. depressum</u>			<u>O. solitaria</u>			<u>UID desmid</u>		
<u>C. formosulum</u>			<u>Pandorina morum</u>			<u>UID unicellular</u>		
<u>C. nitidulum</u>			<u>Pediastrum sp.</u>			<u>UID zygospore</u>		
<u>Dactylococcus infusionum</u> ...			<u>P. Boryanum</u>					
<u>Dictyosphaerium sp.</u>			<u>P. duplex</u>			TOTAL GREENS	24539	5598
<u>D. ehrenbergianum</u>			<u>P. simplex</u>			% of TOTAL	15.8	37.9
<u>D. pulchellum</u>			<u>P. tetras</u>					
<u>Dimorphococcus lunatus</u>			<u>Quadrigula Chodatii</u>			B. EUGLENOIDS		
<u>Echinosphaerella limnetica</u> ...			<u>Q. lacustris</u>					
<u>Elakatothrix gelatinosa</u>			<u>Scenedesmus sp.</u>	1148	144	<u>Euglena sp.</u>		
<u>Errerella borhemiensis</u>			<u>S. acuminatus</u>					
<u>Eudorina elegans</u>			<u>S. bijuga</u>			TOTAL EUGLENOIDS		
<u>Gleocystis sp.</u>			<u>S. Brasiliensis</u>			% of TOTAL		
<u>G. ampla</u>			<u>S. denticulatus</u>					
<u>G. gigas</u>			<u>S. dimorphus</u>					
<u>G. planctonica</u>			<u>S. longus</u>					

WIND SE @ 5-10
WATER TEMP. ---
SAMPLE VOL. 72 mls

1-496

