UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II
EDISON, NEW JERSEY 08837

APR 2 6 1995

Mr. Rolf Tiedermann
358 Electric Ave.
Rochester, NY 14613

Dear Mr. Tiedermann:

As per our telephone conversation of April 18, 1995, please find enclosed the results from the August 8, 1992 sampling that EPA conducted at your lake (NY311L; Eagle Lake). Also attached is a list of what the abbreviations on the datasheet represent.

We apologize for the length of time it took for you to receive the results. The Environmental Monitoring and Assessment Program (EMAP) was not designed to report data on individual lakes and the re-configuring of their database took considerable time.

We appreciate your cooperation in the Lakes Demonstration Project. If I can be of any further assistance, please contact me at 908-321-6700.

Sincerely,

Darvene A. Adams
Environmental Scientist
Surveillance and Monitoring Branch

Enclosure

ENVIRONMENTAL MONITORING AND ASSESSMENT PROGRAM - SURFACE WATERS
1992 NORTHEAST LAKES DEMONSTRATION PROJECT

State: NY
Lake Name: EAGLE LAKE
Study: TIME
Sample date: 08/08/92

Site Depth(m): 10.7
Sample Depth(m): 1.5
Sample class: TARGET
Secchi depth (m): 7.90

Closed headspace pH: 7.84
Gran ANC (ueq/L): 623.6
Cond. (uS/cm @ 25 oC): 122.00

Al (ug/L) - Total diss.: 3.0
Total Monomeric:

Cations (ueq/L) - Ca: 648.7
K: 11.0
NH4: 0.00

Anions (ueq/L) - Cl: 350.0
SO4: 145.0
CO3: 3.343

TSS (mg/L): 0.4
Color (PCU): 5
Turbidity (NTU): 0.20
SiO2 (mg SiO2/L): 0.30

Lake ID: NY311L
Hierarchial ID: 1023200
Latitude (D M S): 43 52 56
Longitude (D M S): 73 34 44

Lake Size(ha): 132.7
1993 Base EMAP grid Weight: -0.000
1993 Joint 1X/3X grid Weight: 38.788

Air equilibrated pH: 8.07
DIC (mg/L): 6.410
DOC (mg/L): 3.89

Inorg. Mono.:
Org. Mono.:

Mg: 173.6
Na: 320.2
H: 0.0140

NO3: 0.00
HCO3: 515.313
OH: 0.692

Sum of base cations: 1153.50
Sum of cations: 1153.51

Sum of anions: 1014.35
Cation anion diff: 139.17
Est. Organic anions: 38.67

Total P (ug/L): 4.50
Total N (ug/L): 214
Chlorophyll-a (ug/L): 1.60

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Lake ID: NY311L
Hierarchial ID: 1023200
Latitude (D M S): 43 52 56
Longitude (D M S): 73 34 44

Diss. O2 and Water Temp. profile:

Depth (m)	DO (mg/L)	Temp (oC)
0.0	8.60	20.8
1.5	8.60	20.8
3.0	8.60	20.8
5.0	8.60	20.5
7.0	9.10	19.8
8.0	10.30	15.0
9.0	7.80	11.8
10.0	5.30	10.8

Fish and other Species Caught

Common Name	Number Caught
No fish sampling	

Fish Tissue Analysis

Metal	ug/g wet wt.
No fish tissue sampling	

CHEMISTRY DATA (chem92.asc)

Column	Variable	Type	Max length / format	Description
1	LAKE_ID	Char	6	Lake Identification Code
2	LAKENAME	Char	25	Name of lake sampled
3	SITECLS	Char	10	Lake Sample Class
4	STUDY	Char	4	ie. EMAP or time
5	CLEAR_BO	Char	1	Secchi Disk Clear to Bottom Y/N
6	HEX_ID	Num	11.3	Hierarchial Identification Code
7	STATE	Char	2	Postal code of state
8	DATE	Num	MM/DD/YY	Date Lake Sampled
9	SITE_DEP	Num	4.1	Site Depth (m)
13	SAMP_DEP	Num	3.1	Depth lake sampled (m)
11	LAT_DEG	Char	2	Map Latitude, degrees
12	LAT_MIN	Char	2	Map Latitude, minutes
13	LAT_SEC	Char	2	Map Latitude, seconds
14	LON_DEG	Char	2	Map Longitude, degrees
15	LON_MIN	Char	2	Map Longitude, minutes
16	LON_SEC	Char	2	Map Longitude, seconds
17	LAKE_SIZ	Num	5.1	Lake Area from Las Vegas GIS (ha)
18	VISIT_NO	Num	1	1-first visit of lake, 2-second visit of lake,etc.
19	PHSTVL	Num	4.2	Closed System pH
20	PHEQ	Num	4.2	Air-equilibrated pH
21	ANC	Num	+/-6.1	Gran Acid Neutralizing Capacity (ueq/L)
22	COND	Num	6.1	Specific Conductance (uS/cm)
23	COLOR	Num	3	Color (PCU)
24	CA	Num	6.1	Calcium (ueq/L)
25	MG	Num	5.1	Magnesium (ueq/L)
26	NA	Num	6.1	Sodium (ueq/L)
27	K	Num	5.1	Potassium (ueq/L)
28	NH4	Num	4.1	Ammonium (ueq/L)

Column	Variable	Type	Max length / format	Description
29	CL	Num	4	Chloride (ueq/L)
30	NO3	Num	4.1	Nitrate (ueq/L)
31	SO4	Num	3	Sulfate (ueq/L)
32	ALTD	Num	3	Total Dissolved aluminum (ug/L)
33	ALDS	Num	3	PCV reactive (monomeric) aluminum (ug/L)
34	ALOR	Num	3	Nonexch. PCV (organic) aluminum (ug/L)
35	DIC	Num	11.8	Dissolved Inorganic Carbon (mg/L)
36	DOC	Num	5.2	Dissolved Organic Carbon (mg/L)
37	SIO2	Num	5.2	Silica (mg/L)
38	TURB	Num	4.2	Turbidity (NTU)
39	TSS	Num	4.1	Total Suspended Solids (mg/L)
40	PTL	Num	5.2	Total Phosphorous (ug/L)
41	NTL	Num	4	Total Nitrogen (ug/L)
42	HCO3	Num	8.3	Calculated Bicarbonate (ueq/L)
43	CO3	Num	6.3	Calculated Carbonate (ueq/L)
44	H	Num	6.3	H+ from Closed system PHSTVL (ueq/L)
45	OH	Num	5.3	Hydroxide from PHSTVL (ueq/L)
46	CATSUM	Num	7.2	Sum of Cations (ueq/L)
47	ANSUM	Num	7.2	Sum of Anions using ANC (ueq/L)
48	ANDEF	Num	+/-6.2	Anion Deficit using ANC (ueq/L)
49	SOBC	Num	7.2	Sum of Base Cations (ueq/L)
50	ORGION	Num	6.2	Est. Organic Anion (ueq/L)
51	CHLA	Num	5.2	Trichromatic Chlorophyll A (ug/L)
52	SECMEAN	Num	5.2	Secchi mean Depth (m)
53	ALDI	Num	3	Inorganic Monomeric Aluminum (ug/L)
54	Wgt_1X	Num	8.3	Sample Weight for 1X EMAP Grid
55	Wgt_3X	Num	8.3	Sample Weight for 3X Augment TIME Design

LAKE PROFILE DATA (prof92.asc)

Column	Variable	Type	Max length / format	Description
1	LAKE_ID	Char	6	Lake Identification Code
2	LAKENAME	Char	25	Name of lake sampled
3	STATE	Char	2	Postal code of state
4	VISIT_NO	NUM	1	1-first visit of lake, 2-second visit of lake,etc.
5	DEPTH	NUM	4.1	Depth measurement taken in meters
6	DO	NUM	5.3	Dissolved Oxygen (mg/L)
7	TEMP	NUM	12.9	Temperature (oC)