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Fisheries
Limnology
Resource Planning
Vessel Surveys

11 July 1983

MEMO TO: Dr. Wm. Weiss, Institute for Water Quality Research

FROM: Tom Kelly

SUBJECT: Sampling of Lake Bellaire, 8 July 1983.

I re-sampled Lake Bellaire on 8 July for temperature, DO, and secchi disc transparency. Dissolved oxygen at 3 feet depth was 7.66 ppm (91% sat.) and at 90 feet it was 6.22 ppm (49% sat.). Secchi depth was 11.4 feet, and improvemnet from 29 June (9.0 ft.).

Complete field notes are attached to this memo, as is my final billing. This completes the work contracted by IWQR.

I am putting the chemistry samples on the bus to Houghton tonight. T. Comfort has agreed that I will be reimbered for the bus fare and styrofoam cooler.

Please contact me if you have any questions. I look forward to doing business with IWQR in the future.

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8 JULY 1983

L. Bellaire Mich.

Autism Co.

1220 Lv. Follo's Marina, Bellaire

1250 On station (LB-5 - Deep hole, off Cottage Dr, approx
 $\frac{1}{3}$ way across lake - due east of Cottage Dr.
Station \bar{z} : 92.7 ftSecchi: 11.4 ftWind direction, SW at 12-18 mph (estimated)
Water choppy, $\frac{1}{2}$ ft waves

Water has light green color

Depth \bar{z} (ft)	TEMP ($^{\circ}$ F)
0	77.5
3	77.0
5	76.5
10	75.5
20	73.0
23	61.0
25	55.5
30	52.5
40	48.5
50	46.5
60	45.5
70	44.0
80	43-
90	42-
92.7	42-

Note: Instrument readable
to nearest 0.5°
until $\sim 45^{\circ}$ -
then to nearest
whole degree.

D.O.: Used LaMott Chemical Co. Micro Method Azide
modified Winkler Method. Samples collected
with Alpha Settle.

Depth: 3 ftD.O.: 7.68 } $\bar{x} = 7.66$ ppm
7.64 }% Saturation 91% (Saturation is 8.4 ppm)Depth 90 ftD.O.: 6.16 } $\bar{x} = 6.22$ ppm
6.32 }% Saturation = 49%

(Saturation is 12.6 ppm)