

→ File

CORRESPONDENCE/MEMORANDUM

State of Wisconsin

Date: May 29, 1992 File Ref: 3200

To: Jim Congdon, Horicon Vic Pappas, Horicon
 Jim Leverance, SD Maureen Rowe, Horicon
 Dick Edwards, Long Lake Jim Porfilio, Long Lake

From: Mark Sasing, Horicon *MS*

Subject: Long Lake Sensitive Area Designation (S.A.D.)

Sensitive areas have been identified at Long and are indicated on the map attached. Many considerations led to the protective designations. There are two categories designated, the principle difference being the shoreline habitat protection recommendations in category 1.

Category 1:

Practices to be excluded include chemical control of all aquatic plant species (loosestrife and eurasian milfoil excepted under special consideration) and recommend excluding mechanical harvest, rip-rap, sand blankets, dredging, pier development other than that benefitting the general public and with prior review, and any other development that has the potential to degrade the existing quality of a specified area.

Category 2:

Practices to be excluded include chemical control of all aquatic plant species (loosestrife and eurasian milfoil excepted under special consideration) and recommend excluding mechanical harvest. Rip-rap, sand blankets, dredging, pier development and other development having the potential to degrade the existing quality to be reviewed on a case by case basis.

Important factors considered in the designations:

Long Lake is part of the National Ice Age Scientific Reserve and permitted activities should reflect strong preservation management.

Long Lake is part of the Northern Unit Kettle Moraine Recreational area which receives a high level of public use. The benefits of maintaining a biologically diverse high integrity aquatic ecosystem will be realized by many.

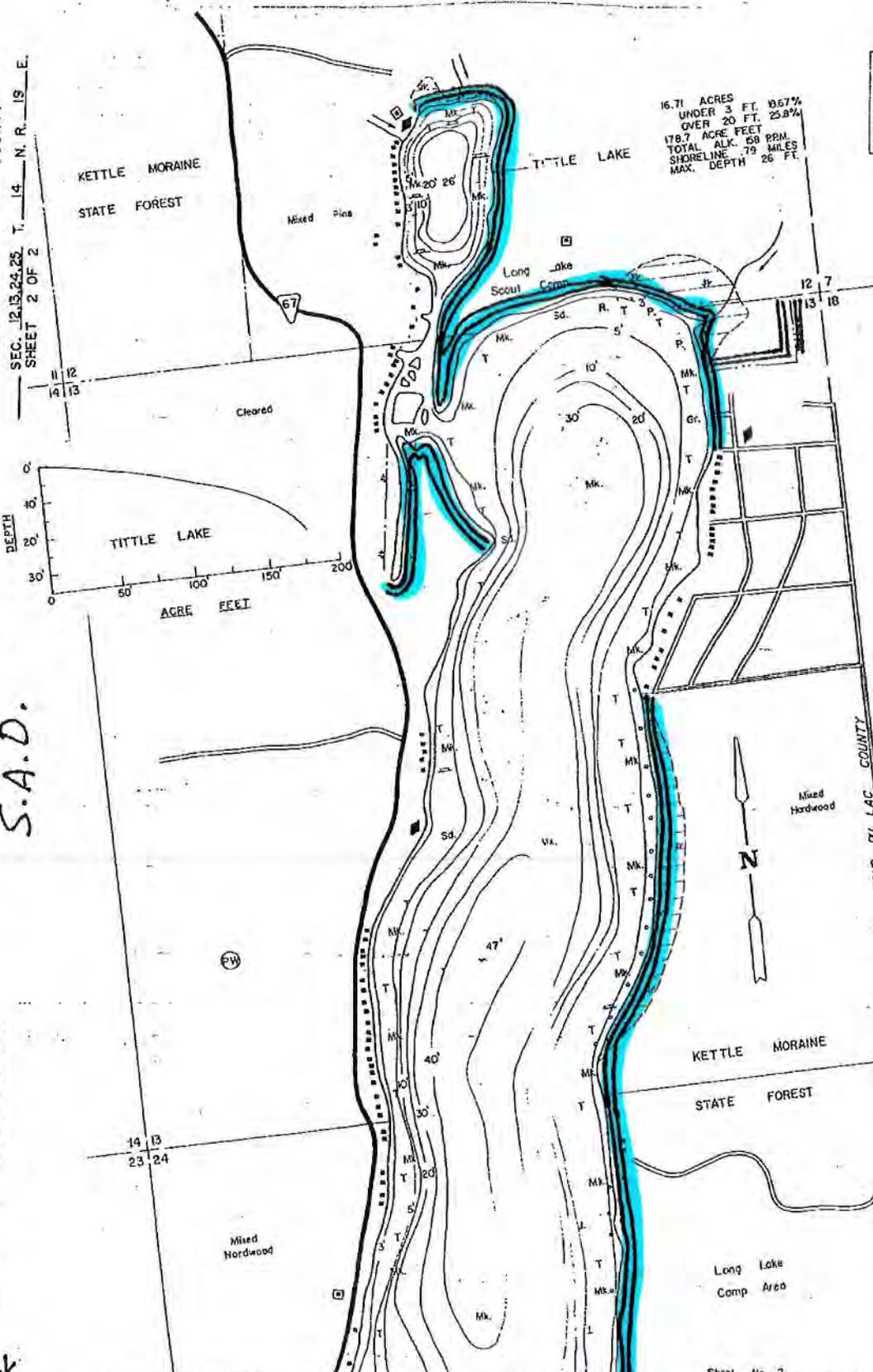
Aquatic vegetation survey work in 1988 has shown an existing plant community rich in species and relatively stable but without nuisance density in general (Trend Lakes Macrophyte Survey, Molter and Sasing). Eurasian milfoil was not found. The qualities of the macrophyte population needs protection from any destabilizing threats.

Attach.

cc: Walt Adams, KMNU
 Jerry Leiterman, KMNU
 Doug Bilgo, KMNU
 Bill Volkert, Horicon

LAKE SURVEY MAP
S.A.D.

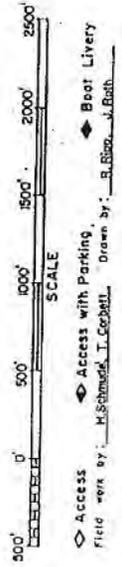
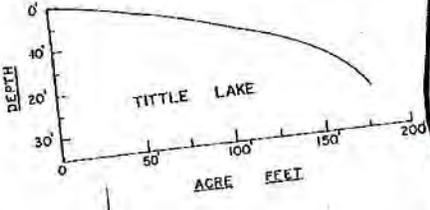
FOND DU LAC COUNTY
LONG LAKE
SEC. 12, 13, 24, 25 T. 14 N. R. 19 E.
SHEET 2 OF 2



16.71 ACRES
UNDER 3 FT. 10.67%
OVER 20 FT. 25.84%
178.7 ACRE FEET
TOTAL ALK. 58 PPM
SHORELINE 7.9 MILES
MAX. DEPTH 26 FT.

SPECIES OF FISH	
Common	Present
Walleye	X
N. Pike	X
Wolffish	X
S.M. Bass	X
Perch	X
Trout	X

AREA 428.5 ACRES WITH ISLANDS
427.3 ACRES
UNDER 3 FT. 10.63 %
OVER 20 FT. 40.91 %
VOLUME 7208.6 ACRE FT.
TOTAL ALK. 158 P.P.M.
SHORELINE 6.9 MILES
MAX. DEPTH 47 FEET



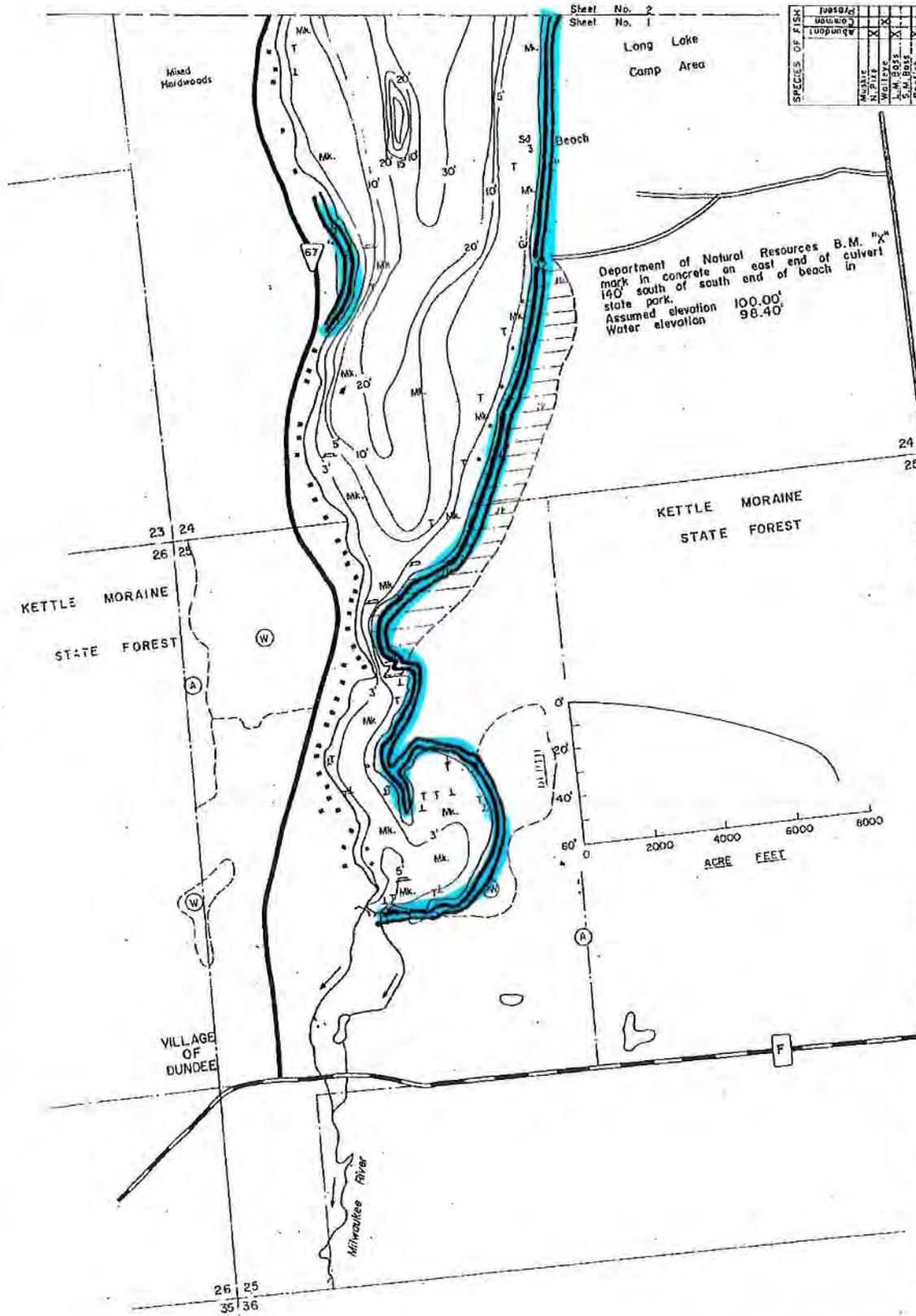
- EQUIPMENT USED: CORING MACHINE MAILED JUN 1967
MO. VR.
- WATER ELEV. 88.40
- TOPOGRAPHIC SYMBOLS:
 - Wetlands
 - Steep slope
 - Interim shoreline
 - Marsh
 - Spring
 - Intermittent stream
 - Permanent inlet
 - Permanent outlet
 - Dam
 - Dwelling
 - Resort
- LAKE BOTTOM SYMBOLS:
 P. Peat
 G. Gravel
 S. Stumps & Snags
 M. Muck
 R. Rubble
 C. Clay
 B. Bedrock
 M. Mott
 T. Submergent vegetation
 Sd. Sand
 I. Emergent vegetation
 St. Silt
 A. Floating vegetation

* Shoreline Area indicated by double line (==) is CAT 1
all other shoreline is CAT 2.

LONG LAC COUNTY
 SEC. 12, 13, 24, 25 T. 14 N. R. 19 E.
 SHEET 1 OF 2

LAKE SURVEY MAP
 S.A.D.

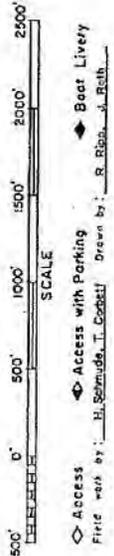
STATE OF WISCONSIN
 DEPARTMENT OF NATURAL RESOURCES



Department of Natural Resources B.M. "X"
 mark in concrete on east end of culvert
 140' south of south end of beach in
 state park.
 Assumed elevation 100.00'
 Water elevation 98.40'

SPECIES OF FISH	
Walleye	X
Yellow Perch	X
Rock Bass	X
White Sucker	X
Smallmouth Bass	X
Trout	X

428.5 ACRES WITH ISLANDS
 AREA 427.3 ACRES
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 VOLUME 7208.6 ACRE FT.
 TOTAL ALK. 159 P.P.M.
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- EQUIPMENT RECORDING SONAR MAPPED JUNE 1967
 MO. WATER ELEV. 98.40
- TOPOGRAPHIC SYMBOLS
- Brush
 - Perennially flooded
 - Wetlands
 - Cleared
 - Retained
 - Agricultural
 - B.M. Bench Mark
 - Dwelling
 - Retain
- LAKE BOTTOM SYMBOLS
- P. Peat
 - Gr. Gravel
 - M. Muck
 - C. Clay
 - M. Mergl
 - Sd. Sand
 - St. Silt
- Gr. Gravel
 - R. Rubble
 - Dr. Detrock
 - T. Submergent vegetation
 - J. Emergent vegetation
 - F. Flooding vegetation

* Shoreline Area indicated by double line (==) is CAT 1
 all other shoreline is CAT 2.