

- 6 Reason for EAW preparation: Mandatory
- 7 Estimated construction cost \$25,000.00
- 8 Total project area (acres) 2 or length (miles) 600 ft.
- 9 Number of residential units N/A or commercial, industrial, or institutional square footage N/A
- 10 Number of proposed parking spaces N/A

11 List all known local, state and federal permits/approvals/funding required:

Level of Government	Type of Application	Status
Federal: Corps of Engineers	Sec. 10-404	Approved
State: MPCA DNR	State Disposal System Protected Waters	Not Applied For Approved
Local: none		

- 12 Is the proposed project inconsistent with any:
- a. adopted land use ordinances?
 - b. adopted comprehensive land use plans?
 - c. local, state or federal resource management plans?
- If yes, explain:

<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes

13 Describe current and recent past land use and development on and near the site. Bay State Park. The area around the proposed channel is undeveloped woodland, brush, and grassland, plus open sand, typical of a barrier bar. The site to be dredged was the original river channel before the lake level was raised. The existing channel is 1100 feet to the northwest.

14 Approximately what percent of the site is in each of the following categories? (Percentages should total 100% before and after construction)

	Before	After		Before	After
Forest/Wooded	<u>10 %</u>	<u>10 %</u>	Urban vacant	<u>0 %</u>	<u>0 %</u>
Brush	<u>20 %</u>	<u>15 %</u>	Wetland (types 3-8)	<u>15 %</u>	<u>15 %</u>
Grassland	<u>20 %</u>	<u>10 %</u>	Impervious Surface	<u>0 %</u>	<u>0 %</u>
Cropland	<u>0 %</u>	<u>0 %</u>	Other (Specify) <u>Open sand</u>	<u>35 %</u>	<u>50 %</u>

endangered species habitat

15 Show the type and location of soils on the site map. Give the SCS soil classification types, if known. The soil type on the site is sand. The dredged material is sand.

16 Does the site contain peat soils, steep slopes, sinkholes, shallow limestone formations, abandoned wells, or any geologic hazards? Explain:

<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
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17 What is the approximate depth (in feet) to:

- a. groundwater 0 min. 3 avg.
- b. bedrock 0 min. 10 avg.

18 Does any part of the project area involve:

- a. Shoreland zoning district?
- b. Delineated 100-year flood plain?
- c. State or federally designated river land use district?

Identify water body and applicable state classification(s):
Lake of the Woods- General Development

<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes
<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes
<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes

19 Describe any physical alteration (e.g. dikes, excavation, fill, stream diversion) of any drainage system, lake, stream, and/or wetland. Estimate quantity of material to be dredged and indicate where spoils will be deposited. The dredged channel will be approximately 600 ft. long, 30 ft. wide, and 4 ft. deep. The channel will be dredged in areas that are currently barrier bar, open water, and wetland. The upland portion of the channel will be graded to within 1 ft. of the water level prior to dredging. The spoil site is 100 ft. from the channel.

20 Will the project require an appropriation of ground or surface water? No Yes

Explain (Indicate quantity and source):

21 Will the project affect:

a. surface water quality (on or off the site)? No Yes

b. groundwater quality (on or off the site)? No Yes

c. groundwater levels in any wells (on or off the site)? No Yes

Explain both during and after construction including any discharges expected. Dredging may cause some turbidity but it is not expected to be significant because of the low silt content of the dredged material. All spoil will be contained in a holding pond constructed on the highest point of the disposal site. Return water will percolate through the ground before returning to the lake.

22 What type of waste water treatment will be used?
 ___ municipal ___ individual (on-site) ___ other

Describe type of treatment system and amount treated in gallons/day. Show location of non-municipal systems on a site map and the results of percolation test if warranted. Indicate if pre-treatment measures will be used.

Not applicable.

23 Describe and indicate on a site map the provisions to control erosion and storm-water run-off. Include size and location of any retention basins, and discharge point(s). Runoff will be controlled by a holding pond. See the site plan for the location of the pond.

24 Will the project generate:

a. air pollution? No Yes

b. dust? No Yes

c. noise? No Yes

d. odors? No Yes

Explain both during and after construction, identify distances to noise sensitive land uses, and quantity and type of air pollutants.

Some exhaust emissions and noise will be generated during construction. The noise generators will be a hydraulic dredge and bulldozer. Noise sensitive receptors are well removed from the project area. The nearest residence is approximately 1 1/4 mile southwest. Within the park, the swimming beach and picnic area are 4000 ft. ESE and the campgrounds are at least 1 1/4 mile SE.

25 Describe the type and amount of solid waste and/or hazardous waste that will be generated and the method and location of disposal:

None

26 Will the project involve:

- a. fish or wildlife habitat?
- b. a rare, endangered, threatened or special concern species? (animals and/or plants)
- c. movement of any resident or migratory animals?

<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes

Explain (Identify species and describe impact): Some emergent aquatic vegetation will be changed to open water in the new channel. The dredged spoil (sand) will be used to create new habitat for the common tern and the piping plover, an endangered species. The new channel will divert boat traffic away from an area currently used by plovers adjacent to the existing channel. Walleye habitat will be created near the existing channel as it is allowed to fill in. Other impacts on fish will be minimal.

27

Do any historical, archaeological or architectural resources exist on or near the project site?

<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
-----------------------------	---

An archaeological survey has identified the remains of the hamlet of Zippel approximately 400 ft. east of the proposed channel (see quad map). It will not be affected by the project. The survey revealed no items of historical or archaeological significance at the proposed channel or spoil location.

28

Will the project cause the impairment or destruction of:

- a. designated park or recreation areas?
- b. prime or unique farmlands?
- c. ecologically sensitive areas?
- d. scenic views and vistas?
- e. other unique resources (specify)?

<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes

Explain: Park land and wetlands will be destroyed and converted to an open water boat channel. The scenic view of the shoreline and backwater areas will be interrupted by the new channel.

29

What roads will receive increased traffic? (For each road indicate the current average daily traffic (ADT) and increase in ADT contributed by the project.)

Not applicable

30

Are adequate energy sources and utilities now available to service the project? If not, what additional utilities will be required?

<input type="checkbox"/> No	<input type="checkbox"/> Yes
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Not applicable

Summary of Issues

List the issues as identified by "yes" answers above. Discuss alternatives and mitigative measures for these issues.

See attached sheet.

CERTIFICATION BY RESPONSIBLE GOVERNMENTAL UNIT

I hereby certify that the information contained in this document is true and correct to the best of my knowledge and that copies of the completed EAW have been made available to all points on the official EQB distribution list.

Signature

Franklin H. Korte

Date

6/2/83

4

Title

Environmental Specialist, Division of Parks and Recreation

Summary of Issues

18. Project area is in shoreland and floodplain of Lake of the Woods. Project is consistent with all applicable standards.
21. Any impacts to surface water quality will be temporary and minor. Only the dredging activity is likely to cause some turbidity. The potential impacts are offset by the fact that the material to be dredged is relatively coarse with a low silt content. The holding pond will eliminate adverse impacts from spoil disposal.
24. The air pollution and noise impacts will be restricted to those associated with operation of dredging and grading equipment. Construction activity will last for approximately ten days.
26. The project will have both negative and positive impacts on fish and wildlife resources. However, most of the negative impacts will be minor.

Negative Impacts

- a. In the bay area, a small area (approximately one acre) of cattails and hardstem bulrush will be removed.
- b. A Type 3 wetland between the beach ridge and higher barrier bar will be disturbed.
- c. Approximately 40 feet of lake bottom will be disturbed on north side of bar.
- d. Spoil will cover an area with shrub vegetation.
- e. Waterfowl nesting habitat (grassland) will be covered.

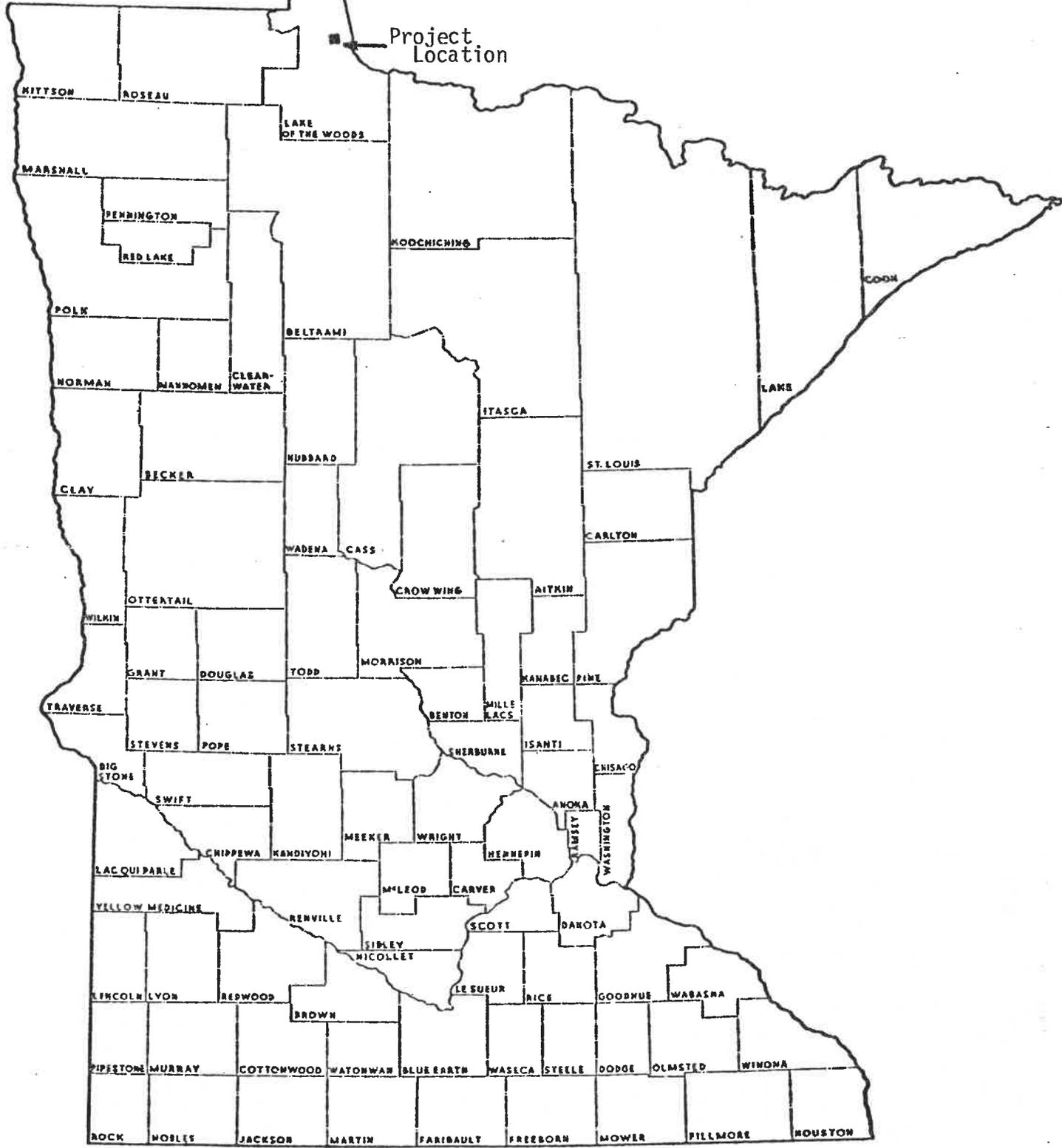
Beneficial Impacts

- a. Boat traffic/human disturbance will be moved away from area currently used by piping plovers.
 - b. Common tern habitat will be created.
 - c. Nesting and feeding area for piping plovers (endangered) will be increased.
 - d. Spoil placement will increase value of Type 3 wetland.
 - e. Hardstem bulrush on bay side of existing channel will be able to expand.
28. The project area is not used by park visitors; however, the barrier bar that will be dredged out is part of the state park. Except for the partially submerged rock jetty shown on the site plan, the project area is natural shoreline. A man-made channel in this area will disrupt the natural character of the beach and impair the view somewhat for boaters using the area.

Project Alternatives

- A. Status Quo - disadvantages are that boat access through existing channel is severely restricted and occasionally blocked for 2 resorts, 70 cabins and public access boaters in Zippel Bay; existing channel requires frequent dredging; spoil disposal area is very limited; boat traffic using existing channel is adjacent to nesting area of piping plovers.
- B. Other channel alignments - would be subject to blockage or closure from long shore drift and would probably have some problems as existing channel.

MINNESOTA DEPARTMENT OF NATURAL RESOURCES STATE MAP (with Counties)



T. 162 N.

5416000m.N.

1068

4

ZIPPEL BAY
STATE PARK

2

Zippel Bay

1067

4

ZIPPEL BAY
STATE PARK

Zippel Bay

DISPOSED AREA

-CHANNEL

O-RUINS OF
ZIPPEL HAMLET

9

10

10

11

12

ZIPPEL BAY STATE PARK

1065

1065

16

1067

1068

1066

15

15

1074

1086

14

RED LAKE
INDIAN
RESERVATION

1085

Gravel Pits

13

1100

1099

1100

SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET

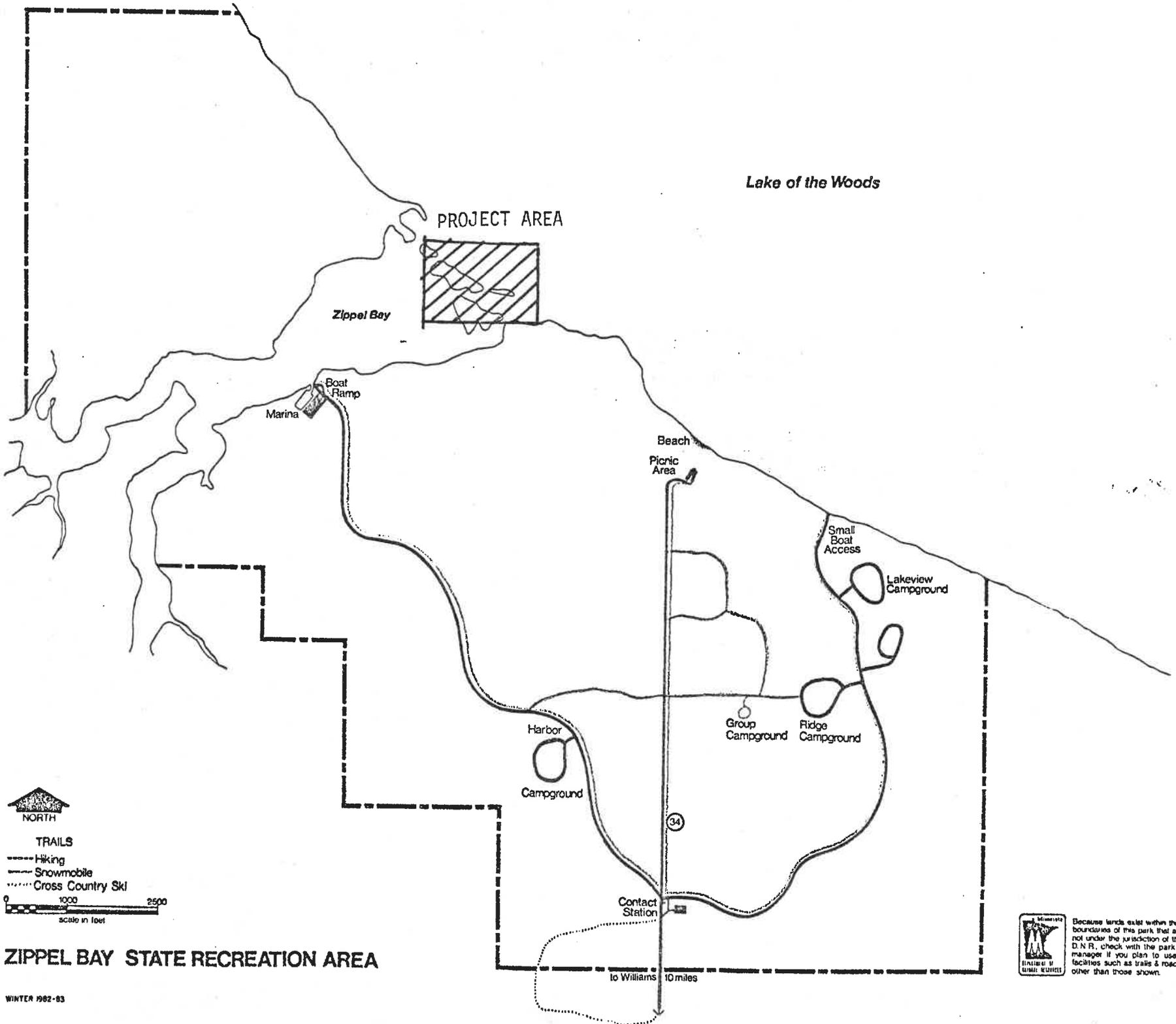
DATUM IS MEAN SEA LEVEL

DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS 1056 FEET

R 33 W

7C

10



Lake of the Woods

PROJECT AREA

Zippel Bay

Marina
Boat Ramp

Beach
Picnic Area

Small Boat Access

Lakeview Campground

Harbor Campground

Group Campground

Ridge Campground

34

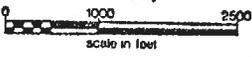
Contact Station

to Williams 10 miles



TRAILS

- Hiking
- Snowmobile
- Cross Country Ski



ZIPPEL BAY STATE RECREATION AREA

WINTER 1982-83



Because lands east within the boundaries of this park that are not under the jurisdiction of the D.N.R., check with the park manager if you plan to use facilities such as trails & roads other than those shown.



STATE OF
MINNESOTA
DEPARTMENT OF NATURAL RESOURCES

BOX , CENTENNIAL OFFICE BUILDING • ST. PAUL, MINNESOTA • 55155

DNR INFORMATION
(612) 296-6157

FILE NO. _____

July 21, 1983

TO: INTERESTED PARTIES

FROM: Thomas W. Balcom *J.B.*
Environmental Review Coordinator

SUBJECT: Zippel Bay Access Channel Record of Decision

The Department of Natural Resources (DNR) has prepared a Record of Decision (attached) on the need for an environmental impact statement (EIS) for the Zippel Bay Access Channel project in Lake of the Woods County. We have concluded that an EIS is not required for this project. The Record of Decision explains the justification for our decision.

pje
0203F

attachment

DEPARTMENT OF NATURAL RESOURCES

RECORD OF DECISION

In the Matter of Determination
of Need for an Environmental Impact
Statement for Zippel Bay Access Channel,
Lake of the Woods County, Minnesota

FINDINGS OF FACTS

1. The Department of Natural Resources (DNR), pursuant to MEQB Rule 6 MCAR § 3.038 Z.1. and CC., prepared a mandatory Environmental Assessment Worksheet (EAW) for the Zippel Bay Access Channel in Lake of the Woods County.
2. The EAW was filed with the Environmental Quality Board (EQB) and notice of availability was published in the EQB Monitor on June 20, 1983.
3. The Zippel Bay Access Channel project consists of dredging a boat channel through the barrier bar between Zippel Bay and Lake of the Woods. The dredged material, which is mostly sand, will be placed in a dewatering pond above the ordinary high water mark and then spread out to provide nesting area for common terns, and piping plovers, identified as a threatened species in "The Uncommon Ones". The channel dimensions will be approximately 600 feet long, 30 feet wide, and 4 feet deep.
4. The EAW described the project and its impacts on wildlife habitat, wetlands, water quality, air quality and the Zippel Bay park facilities. Project alternatives were discussed.
5. Comments on the EAW were received from the following agencies:
 - a. The Minnesota Pollution Control Agency commented on the noise, air quality, water quality and wildlife habitat impacts. The comments indicated that an environmental impact statement is not necessary.
 - b. The Minnesota Historical Society commented on the old Zippel town site and indicated that if this area is avoided then the project will not impact any known sites of historic, architectural, cultural, archaeological, or engineering significance.
6. The addition of habitat for the piping plover and common tern will compensate for the loss of marginal nesting habitat for waterfowl.
7. There is low potential for air quality impacts from fugitive dust emissions because of the wet, sandy condition of the dredged material. However, if fugitive dust does become a problem mitigative measures will be applied to reduce the impacts.

8. Water quality impacts to the lake or bay will be avoided by routing all dredged material slurry water through a retention basin which will not have any discharge to surface water.
9. A related action which is anticipated is the widening and extension of the channel and the construction of rock breakwaters by the Corps of Engineers at a future date. This project will essentially serve to make the channel more permanent and to reduce the frequency of maintenance dredging.
10. Permits for the project are required from the U.S. Army Corps of Engineers, the Pollution Control Agency, and the Department of Natural Resources.

CONCLUSIONS

1. The potential adverse impacts of the project are minor in type and extent.
2. Sufficient regulatory authority exists to control the extent and require the mitigation of project impacts.
3. Based on the above findings of fact and conclusions, a negative declaration is made and no environmental impact statement will be required.

Dated this 21 day of July, 1983



VONNY HAGEN
ASSISTANT COMMISSIONER FOR PLANNING