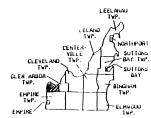


GLEN ARBOR TOWNSHIP WEST

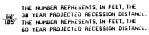
HIGH RISK EROSION AREAS & CRITICAL DUNE AREAS

LEELANAU COUNTY

T29N,R14W



HIGH RISK EROSION AREAS



HIGH RISK EROSION AREA HIGH RISK EROSION AF

THESE AREAS ARE LEGALLY DEFINED BY THE SHORELANDS PROTECTION AND MANAGEMENT ACT. 1978 P.A. 245. AS AMENDIO, AS BEING GREAT LAKES SHORELAND AREAS DOCUMENTED TO RECEUE AN AVERAGE OF DNE FOUT OR MORE PER YEAR.

CRITICAL DUNE AREAS



BARRIER DUNES BARRIER DUNE FORMATIONS DESIGNATED PLRSUANT TO 1476 P.A. 222



AREAS NOT INCLUDED IN DESIGNATED BARRIER DUNE FCRMATIONS THAT ARE COMPOSED PRINTAILY OF DUNE SAND AND EXHIBIT SEVERAL DUNE-LINE CHAMACTERISTICS.



EXEMPLARY DULE ASSOCIATED PLANT COMMUNITIES CUTSICE DESIGNATED DUNE FORMATICHS, MICHIGAN NATURAL FEATURES INVENTORY REFERENCE COLE INDICATED.

SOURCE

STATE OF MICHIGAN ACT 245 RECESSION RATE MAPS & ATLAS OF CRITICAL DUNE AREAS

INFORMATION

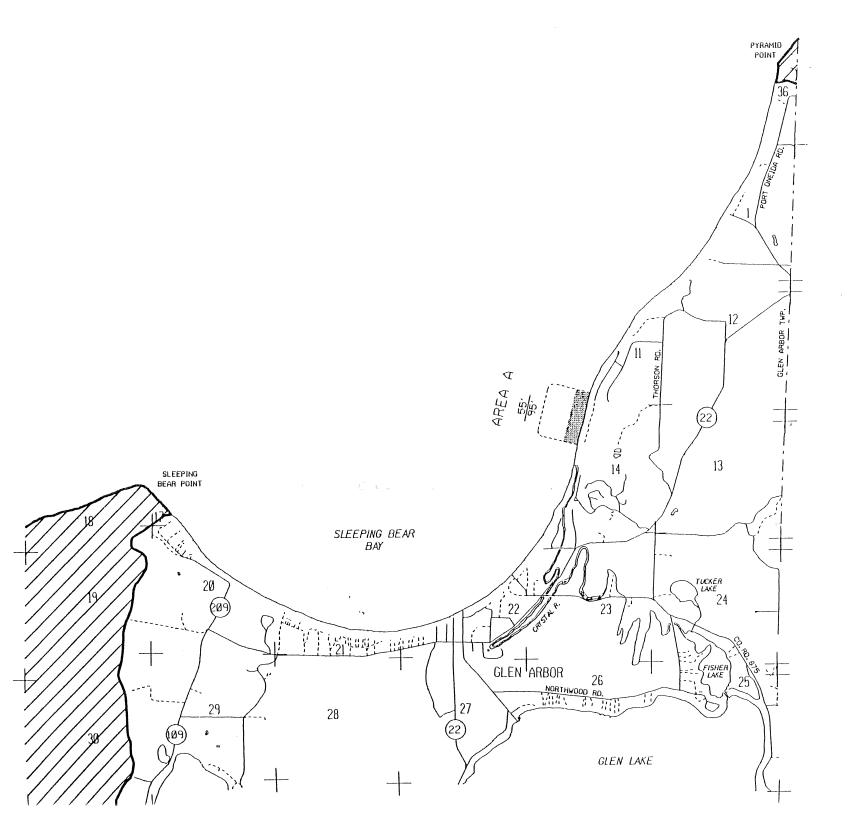
MICHIGAN DEPARTMENT OF NATURAL RESURCES LAND AND WATER MANAGEMENT DIVISION P.D. BOX 38828 LANSING, MJ 48989 (517) 373-1958



CHEAT LAKER DEPONATION SISTEM HED BEAM DEPARTHENT OF MATHEW RESILACES LAND AND WITTER HAMILTENET DIVILION

02-10-93



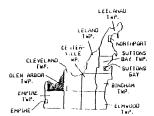


GLEN ARBOR Township East

HIGH RISK EROSION AREAS & CRITICAL DUNE AREAS

LEELANAU COUNTY

T29N,R14W



HIGH RISK EROSIG . AKEAS

THE NUMBER & PRESENTS, IN FEET, THE 38 YEAR PROJECTED RECESSION DISTANCE. 185' THE NUMBER FIFRESENTS, IN FEET, THE 60 YEAR PROJECTED RECESSION DISTANCE.

HIGH RISK ERISION AREA (shading alor, shora)

THESE AREAS ARE LIJALLY DEFINED BY THE SHORELANDS PROTEC ION AND MANAGEMENT ACT, 1978 P.A. 245, AS AH. NOLD, AS BEING GREAT LAKES SHOHELAND A: EAS GUCUMENTED TO RECEDE AN AVERAGE OF DNE FOUL OR MORE PER YEAR.

CRITICAL DUNE AFEAS



BARRIER JUNES BARNIER DILE FORMATIONS DESIGNATED PURSUANT 0 1576 P.A. 222



AREAS NOT INCLUDED IN CESIGNATED AREAS NOT INCLUDED IN DESIGNATION
BARRIER D. E. FORMATIONS THAT ARE
COMPOSED RIMARILY OF DUAE SHAD
AND EARIB. I. SELERAL DURE-LIKE CHARACTER STICS.



EXEMPLANT DOLE ASSOCIATED PLANT COMMUNITIES COTSICE DESIGNATED DUNE FORM STURIES MICHICAN NATURAL FEATURES ... YENTONY REFERENCE COOK. INVICATED.

SOURCE

STATE OF MICHIGAN (CT 245 RECESSION RATE MAPS & ATLAS OF CATTICAL DUNE AREAS

INFORMATION

MICHIGAN DEPARTMENT OF NATURAL RESOURCES LAND AND WATER MA MACHINENT DIVISION P.O. BOX 34828 LANSING, MI 48929 (517) 373-1954



02-10-93



Parcels in High Risk Erosion Areas of Glen Arbor Township, Leelanau County

HREAs identified North to South Date of Designation: March 11, 1993

| HREA* | Sequence No. | Parcel Identification Number | Rate (feet/year) | 30 yr PRD* | 60 yr PRD* |
|-------|--------------|------------------------------|------------------|------------|------------|
| A1 | 1 | 45-006-114-016-60 | 1.3 | 55 | 95 |
| A1 | 2 | 45-006-114-016-30 | 1.3 | 55 | 95 |
| A1 | 3 | 45-006-114-003-10 | 1.3 | 55 | 95 |
| A1 | 4 | 45-006-114-003-30 | 1.3 | 55 | 95 |
| A1 | 5 | 45-006-114-003-00 | 1.3 | 55 | 95 |
| A1 | 6 | 45-006-114-003-50 | 1.3 | 55 | 95 |
| A1 | 7 | 45-006-114-006-00 | 1.3 | 55 | 95 |
| A1 | 8 | 45-006-114-004-10 | 1.3 | 55 | 95 |
| A1 | 9 | 45-006-114-004-00 | 1.3 | 55 | 95 |
| A1 | 10 | 45-006-114-005-00 | 1.3 | 55 | 95 |
| A1 | 11 | 45-006-114-002-00 | 1.3 | 55 | 95 |
| A1 | 12 | 45-006-114-011-00 | 1.3 | 55 | 95 |
| A1 | 13 | 45-006-114-007-10 | 1.3 | 55 | 95 |
| A1 | 13.1 | 45-006-114-007-20 | 1.3 | 55 | 95 |
| A1 | 14 | 45-006-114-009-00 | 1.3 | 55 | 95 |
| A1 | 15 | 45-006-114-008-00 | 1.3 | 55 | 95 |
| A1 | 16 | 45-006-837-008-00 | 1.3 | 55 | 95 |
| A1 | 17 | 45-006-837-007-00 | 1.3 | 55 | 95 |
| A1 | 18 | 45-006-837-006-00 | 1.3 | 55 | 95 |

HREA* - Some parcels may be in multiple HREAs due to their large size.

30 yr PRD* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for readily moveable structures including those structures 3,500 square feet or less and built on a basement, crawlspace or pilings. Additional restrictions may apply per Administrative Rules 281.21-22.

60 yr PRD* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for non-readily moveable structures such as large structures and septic systems.

Designation runs with the land including subsequent splits. Absence of a property number does not guarantee the property is located outside of an HREA. Contact the Great Lakes Shorelands Unit, Water Resources Division, DEQ in Lansing or the local DEQ field office for assistance.

Parcels in High Risk Erosion Areas of Glen Arbor Township, Leelanau County

HREAs identified North to South Date of Designation: March 11, 1993

| HREA* | Sequence No. | Parcel Identification Number | Rate (feet/year) | 30 yr PRD* | 60 yr PRD* |
|-------|--------------|------------------------------|------------------|------------|------------|
| A1 | 19 | 45-006-837-005-00 | 1.3 | 55 | 95 |
| A1 | 20 | 45-006-837-004-00 | 1.3 | 55 | 95 |

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12/17/2017 www.mi.gov/shorelands Page 2 of 2