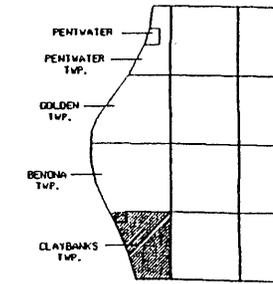


CLAYBANKS TOWNSHIP

HIGH RISK EROSION AREAS & CRITICAL DUNE AREAS

OCEANA COUNTY
T13N,R18W



HIGH RISK EROSION AREAS

THE NUMBER REPRESENTS, IN FEET, THE 30 YEAR PROJECTED RESSION DISTANCE.
 60' THE NUMBER REPRESENTS, IN FEET, THE 60 YEAR PROJECTED RESSION DISTANCE.

HIGH RISK EROSION AREA (shading alongshore)

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

CRITICAL DUNE AREAS

BARRIER DUNES
BARRIER DUNE FORMATIONS DESIGNATED PURSUANT TO 1976 P.A. 222

AREAS NOT INCLUDED IN DESIGNATED BARRIER DUNE FORMATIONS THAT ARE COMPOSED PRIMARILY OF DUNE SAND AND EXHIBIT SEVERAL DUNE-LIKE CHARACTERISTICS.

EXEMPLARY DUNE ASSOCIATED PLANT COMMUNITIES OUTSIDE DESIGNATED DUNE FORMATIONS, MICHIGAN NATURAL FEATURES INVENTORY REFERENCE CODE INDICATED.

SOURCE

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

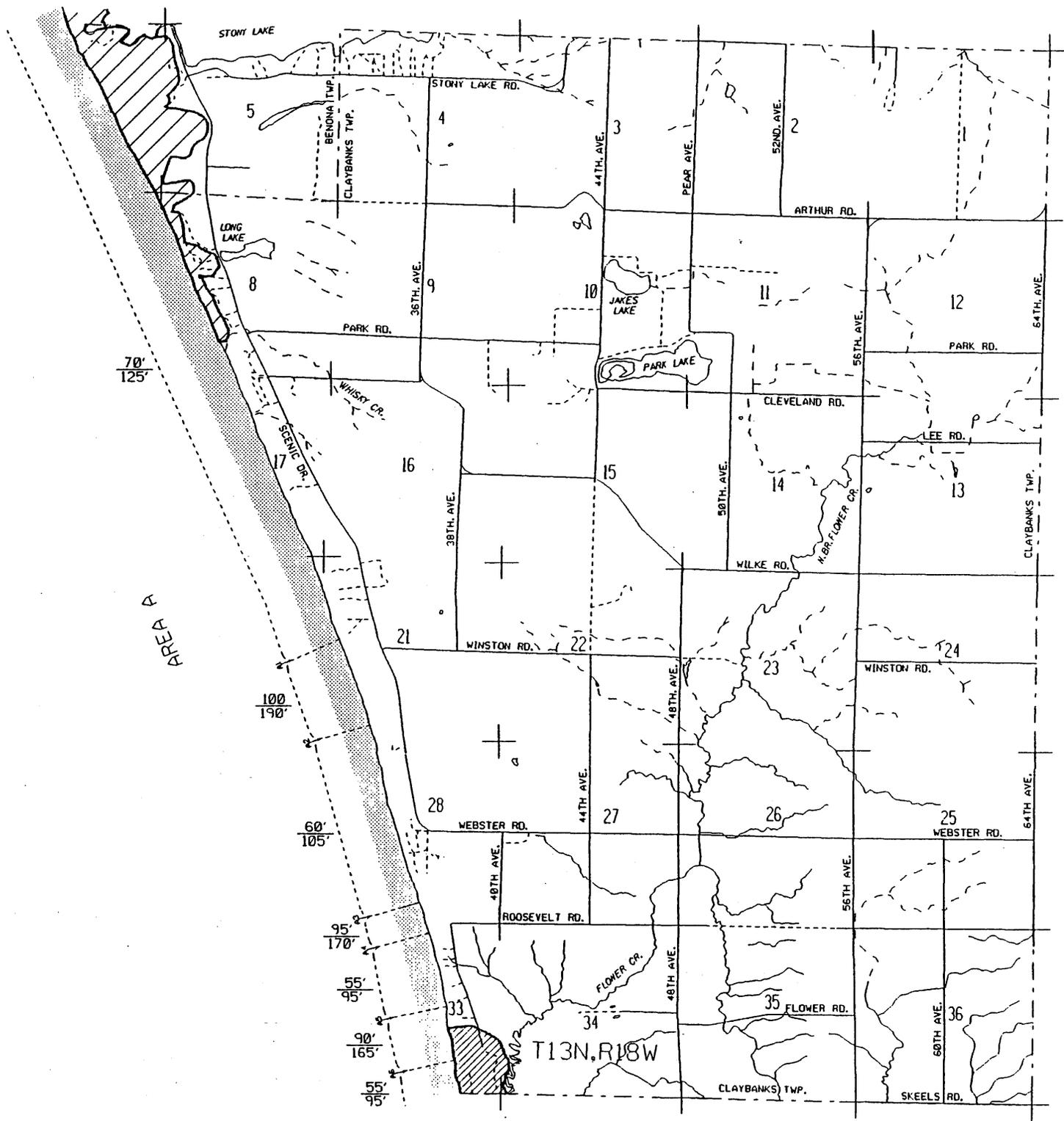
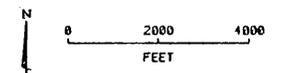
INFORMATION

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 LAND AND WATER MANAGEMENT DIVISION
 P.O. BOX 30028
 LANSING, MI 48909
 (517) 373-1950



GREAT LAKES INFORMATION SYSTEM
 MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 LAND AND WATER MANAGEMENT DIVISION

06-15-94



Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	1	64-16-008-100-01	1.8	70	125
A1	2	64-16-008-100-02	1.8	70	125
A1	3	64-16-008-100-03	1.8	70	125
A1	4	64-16-008-100-04	1.8	70	125
A1	5	64-16-008-100-05	1.8	70	125
A1	6	64-16-400-048-00	1.8	70	125
A1	7	64-16-400-046-00	1.8	70	125
A1	8	64-16-400-045-00	1.8	70	125
A1	9	64-16-400-044-00	1.8	70	125
A1	10	64-16-400-043-00	1.8	70	125
A1	11	64-16-400-042-00	1.8	70	125
A1	12	64-16-400-041-00	1.8	70	125
A1	13	64-16-400-040-00	1.8	70	125
A1	14	64-16-400-039-00	1.8	70	125
A1	15	64-16-400-037-10	1.8	70	125
A1	16	64-16-400-034-00	1.8	70	125
A1	18	64-16-400-032-00	1.8	70	125
A1	19	64-16-400-031-00	1.8	70	125
A1	20	64-16-400-029-00	1.8	70	125

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

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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.

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Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	21	64-16-400-024-00	1.8	70	125
A1	22	64-16-400-022-00	1.8	70	125
A1	23	64-16-400-021-00	1.8	70	125
A1	24	64-16-400-018-00	1.8	70	125
A1	25	64-16-400-017-00	1.8	70	125
A1	26	64-16-400-016-00	1.8	70	125
A1	27	64-16-400-015-00	1.8	70	125
A1	28	64-16-400-014-00	1.8	70	125
A1	29	64-16-400-012-00	1.8	70	125
A1	30	64-16-400-011-00	1.8	70	125
A1	31	64-16-400-010-00	1.8	70	125
A1	32	64-16-400-008-00	1.8	70	125
A1	33	64-16-400-007-00	1.8	70	125
A1	34	64-16-400-006-00	1.8	70	125
A1	35	64-16-400-005-00	1.8	70	125
A1	36	64-16-400-004-00	1.8	70	125
A1	37	64-16-400-003-00	1.8	70	125
A1	38	64-16-400-002-00	1.8	70	125
A1	39	64-16-400-001-00	1.8	70	125
A1	40	64-16-008-300-06	1.8	70	125

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Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	41	64-16-650-013-00	1.8	70	125
A1	42	64-16-650-012-00	1.8	70	125
A1	43	64-16-650-011-00	1.8	70	125
A1	44	64-16-650-010-00	1.8	70	125
A1	45	64-16-650-009-00	1.8	70	125
A1	46	64-16-650-008-00	1.8	70	125
A1	47	64-16-650-007-00	1.8	70	125
A1	48	64-16-650-006-00	1.8	70	125
A1	49	64-16-650-005-00	1.8	70	125
A1	50	64-16-650-003-00	1.8	70	125
A1	51	64-16-650-002-00	1.8	70	125
A1	52	64-16-650-001-50	1.8	70	125
A1	53	64-16-650-001-00	1.8	70	125
A1	54	64-16-017-200-01	1.8	70	125
A1	55.1	64-16-225-008-00	1.8	70	125
A1	55.12	64-16-225-007-00	1.8	70	125
A1	55.13	64-16-225-000-00	1.8	70	125
A1	55.14	64-16-225-003-00	1.8	70	125
A1	55.2	64-16-225-009-00	1.8	70	125
A1	55.21	64-16-225-002-00	1.8	70	125

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Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	55.3	64-16-225-010-00	1.8	70	125
A1	55.31	64-16-225-001-00	1.8	70	125
A1	56	64-16-017-400-06	1.8	70	125
A1	57	64-16-017-400-18	1.8	70	125
A1	58	64-16-017-400-07	1.8	70	125
A1	59	64-16-017-400-08	1.8	70	125
A1	60	64-16-017-400-09	1.8	70	125
A1	61	64-16-017-400-14	1.8	70	125
A1	62	64-16-017-400-15	1.8	70	125
A1	63	64-16-017-400-10	1.8	70	125
A1	64	64-16-017-400-17	1.8	70	125
A1	65.1	64-16-016-300-08	1.8	70	125
A1	65.11	64-16-016-300-04	1.8	70	125
A1	65.12	64-16-016-300-05	1.8	70	125
A1	65.13	64-16-016-300-07	1.8	70	125
A1	65.14	64-16-016-300-06	1.8	70	125
A1	67	64-16-021-100-01	1.8	70	125
A1	68	64-16-021-100-14	1.8	70	125
A1	69	64-16-021-100-02	1.8	70	125
A1	70	64-16-021-100-03	1.8	70	125

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Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	71	64-16-021-100-15	1.8	70	125
A1	72	64-16-021-100-16	1.8	70	125
A1	73	64-16-021-100-17	1.8	70	125
A1	74	64-16-021-100-04	1.8	70	125
A1	75	64-16-021-100-05	1.8	70	125
A1	76	64-16-021-100-06	1.8	70	125
A1	77	64-16-021-100-07	1.8	70	125
A1	78	64-16-021-100-18	1.8	70	125
A1	79	64-16-021-100-19	1.8	70	125
A1	80	64-16-021-100-13	1.8	70	125
A2	81	64-16-021-100-20	2.9	100	190
A2	82	64-16-021-300-01	2.9	100	190
A2	82.1	64-16-021-300-06	2.9	100	190
A2	82.11	64-16-021-300-10	2.9	100	190
A2	83	64-16-021-300-03 northern 1000 feet	2.9	100	190
A3	83.1	64-16-021-300-03 southern 580 feet	1.5	60	105
A3	83.11	64-16-021-300-07	1.5	60	105
A3	83.12	64-16-021-300-09	1.5	60	105

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Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A3	84	64-16-028-100-01	1.5	60	105
A3	85	64-16-028-100-02	1.5	60	105
A3	86	64-16-450-001-00	1.5	60	105
A3	87	64-16-450-002-00	1.5	60	105
A3	88	64-16-450-003-00	1.5	60	105
A3	89	64-16-450-004-00	1.5	60	105
A3	90	64-16-450-005-00	1.5	60	105
A3	91	64-16-450-006-00	1.5	60	105
A3	92	64-16-450-007-00	1.5	60	105
A3	93	64-16-450-008-00	1.5	60	105
A3	94	64-16-450-009-00	1.5	60	105
A3	95	64-16-450-010-00	1.5	60	105
A3	96	64-16-450-011-00	1.5	60	105
A3	97	64-16-450-012-00	1.5	60	105
A3	98	64-16-450-013-00	1.5	60	105
A3	99	64-16-450-014-00	1.5	60	105
A3	100	64-16-450-015-00	1.5	60	105
A3	101	64-16-450-016-00	1.5	60	105
A3	102	64-16-450-017-00	1.5	60	105
A3	103	64-16-450-018-00	1.5	60	105

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HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A3	104	64-16-450-019-00	1.5	60	105
A3	105	64-16-028-100-04	1.5	60	105
A3	106	64-16-028-100-05	1.5	60	105
A3	107	64-16-028-100-06	1.5	60	105
A3	108	64-16-028-100-07	1.5	60	105
A3	109	64-16-028-100-09	1.5	60	105
A3	110	64-16-028-100-10	1.5	60	105
A3	111	64-16-350-027-00	1.5	60	105
A3	112	64-16-350-028-00	1.5	60	105
A3	113	64-16-350-029-00	1.5	60	105
A3	114	64-16-350-030-00	1.5	60	105
A3	115	64-16-350-031-00	1.5	60	105
A3	116	64-16-350-032-00	1.5	60	105
A3	117	64-16-350-033-00	1.5	60	105
A3	118	64-16-350-034-00	1.5	60	105
A3	119	64-16-350-035-00	1.5	60	105
A3	120	64-16-350-036-00	1.5	60	105
A3	121	64-16-350-037-50	1.5	60	105
A3	122	64-16-350-037-00	1.5	60	105
A3	123	64-16-351-039-00	1.5	60	105

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Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A3	124	64-16-351-040-00	1.5	60	105
A3	125	64-16-351-041-00	1.5	60	105
A3	126	64-16-351-042-00	1.5	60	105
A3	127	64-16-351-043-00	1.5	60	105
A3	128	64-16-351-044-00	1.5	60	105
A3	129	64-16-351-045-00	1.5	60	105
A3	130	64-16-028-400-02	1.5	60	105
A3	131	64-16-028-400-03	1.5	60	105
A4	132	64-16-028-400-05	2.6	95	170
A4	132.11	64-16-028-400-06	2.6	95	170
A4	132.2	64-16-028-400-04	2.6	95	170
A4	132.21	64-16-028-400-09	2.6	95	170
A4	133	64-16-028-400-10	2.6	95	170
A4	134	64-16-028-400-11	2.6	95	170
A4	134.2	64-16-028-400-07	2.6	95	170
A4	135	64-16-028-400-12	2.6	95	170
A4	136	64-Outlot A	2.6	95	170
A4	137.1	64-16-033-200-25	2.6	95	170
A4	137.2	64-16-033-200-26	2.6	95	170
A4	137.3	64-16-033-200-01	2.6	95	170

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A4	138	64-16-033-200-22	2.6	95	170
A4	139	64-16-033-200-21	2.6	95	170
A5	140	64-16-033-200-23	1.3	55	95
A5	141	64-16-033-200-04	1.3	55	95
A5	142	64-16-033-200-05	1.3	55	95
A5	143	64-16-033-200-24	1.3	55	95
A5	144	64-16-033-200-06	1.3	55	95
A5	145	64-16-033-200-07	1.3	55	95
A5	146	64-16-033-200-11	1.3	55	95
A5	147	64-16-033-200-12	1.3	55	95
A5	148	64-16-033-200-13	1.3	55	95
A5	149	64-16-033-200-15	1.3	55	95
A5	149.5	64-16-033-200-14	1.3	55	95
A5	150	64-16-033-200-16	1.3	55	95
A5	151	64-16-033-200-17	1.3	55	95
A5	152	64-16-033-200-18	1.3	55	95
A5	153	64-16-033-400-10	1.3	55	95
A5	153.2	64-16-033-400-19 dedesignated 2002	1.3	55	95
A5	154	64-16-033-400-11	1.3	55	95

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Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A5	155	64-16-033-400-02	1.3	55	95
A5	156	64-16-033-400-03	1.3	55	95
A5	157	64-16-033-400-01	1.3	55	95
A5	158	64-16-033-400-18	1.3	55	95
A5	158.2	64-16-033-400-13	1.3	55	95
A5	159	64-16-033-400-17	1.3	55	95
A6	160	64-16-033-400-04	2.5	90	165
A6	161	64-16-033-400-05	2.5	90	165
A6	162	64-16-033-400-12	2.5	90	165
A6	163	64-16-033-400-15	2.5	90	165
A6	164	64-16-033-400-16	2.5	90	165
A6	165	64-16-033-400-06	2.5	90	165
A6	166	64-16-033-400-07	2.5	90	165
A7	167	64-16-200-001-00	1.3	55	95
A7	168	64-16-200-002-00	1.3	55	95
A7	169	64-16-200-003-00	1.3	55	95
A7	170	64-16-200-004-00	1.3	55	95
A7	170.1	64-16-200-004-50	1.3	55	95
A7	171	64-16-200-005-00	1.3	55	95
A7	172	64-16-200-006-00	1.3	55	95

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Parcels in High Risk Erosion Areas of Clay Banks Township, Oceana County

HREAs identified North to South Date of Designation: November 23, 1994

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A7	173	64-16-200-007-00	1.3	55	95
A7	174	64-16-200-008-00	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.