



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 38

ENTRY YEAR: 2010
Compartment Acreage: 350
County: Charlevoix

Revision Date: 4/1/2008

Stand Examiner: Ric Barta

Legal Description: T33N R6W Sec. 10 & 11, T34N R7W Sec. 25 & 36

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and Topography: East portion is comprised mostly of Leelanau-Rubicon loamy sand. West portion is a mixture of Croswell and Kalkaska sands with the bottomlands along the creek being Edwards muck. Terrain is hilly, steep in places but hills are not particularly high.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Both portions of this compartment are surrounded by private property with the exception of the south line of section 11 which borders the Boyne City School Forest property. Primary access to private residences in Section 11 passes through this compartment.

Unique, Natural Features: None known

Archeological, Historical, and Cultural Features: None Known

Special Management Designations or Considerations: Stands 1 and possibly 3 would be the site of the proposed public access to Walloon Lake. Those stands proximal to the lake have been proposed for consideration as old growth and/or as an SCA.

Watershed and Fisheries Considerations: This compartment has frontage on Walloon Lake as well as frontage on both sides of nearly a mile of Horton Creek. This compartment is within Fisheries Division's Central Lake Michigan Management Unit.

Wildlife Habitat Considerations: The most significant attribute of this very small compartment is the parcel adjacent to Walloon Lake. This area is primarily northern hardwoods and a portion of it adjacent to the lakeshore has old growth features including large diameter trees and significant dead wood both standing and on the ground. These features will be maintained by not harvesting timber close to the lake. The treatment prescribed that is away from the lake should not have a significant effect on wildlife in the uncut portion.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured till and lacustrine sand and gravel. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Devonian Antrim Shale and Traverse Group. These rocks are quarried for cement products and stone elsewhere in the State. Gravel pits are located the area and potential is good. There is limited potential for the Antrim Shale as it is nearing the subcrop limit. None of the State lands are leased for oil & gas activity.

Vehicle Access: Good access to upland areas.

Survey Needs: Some survey work may be necessary to set up the proposed treatments.

Recreational Facilities and Opportunities: Walloon Lake frontage.

Fire Protection:

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHARLEVOIX COUNTY

COMPARTMENT: 38

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen		41																	41
Cedar									57										57
Grass	5																		5
Swamp Hrdwds								7											7
Upland Hdwds																		240	240
Total	5	41						7	57									240	350

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHARLEVOIX COUNTY

COMPARTMENT: **38**

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	41																										41
C Cedar				57																							57
G Grass					5																						5
E Swamp Hrdwds																				7							7
M Upland Hdwds																								240			240
Total	41			57	5															7				240			350

MACKINAW STATE FOREST

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Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3238 Cds	Hardwood	598 Cds
Hardwood	1537 Mbf	Hardwood	275 Mbf
Softwood	1213 Cds	Sum CutVol	1148 Cds
Softwood	287 Mbf		
Sum TotVol	8099 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	96
	350		

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 38

Entry Year: 2000

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status	
15	M9	29		70	northern hardwood	unevenaged	thinning	1			
comnts Fmd : STAND WAS THINNED FOR FIREWOOD DURING THE 1980'S. 1998: Some quality, some red maple/ beech. Combined old stands 14 & 15. 2008: Mark down to 84-90 to allow for retention.											
Total Acres.....		29									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
6	M9	67		58	northern hardwood	unevenaged	thinning	1		

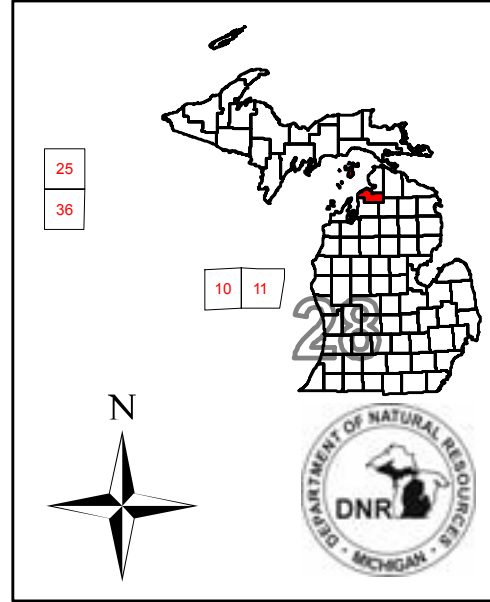
TREATMENT LIMITING FACTORS: Other Agency concerns (name in comments)

comnts Fmd : Previous comment: THE 40 ACRE PARCEL WHICH THIS STAND IS IN IS A SHORT 40.SEE FICE FOR SURVEY RECORDS 2008: Gypsy moth present. Some overmature aspen. Mixed hardwood pulp includes cherry, beech and yellow birch. The limiting factor is due to a recent Sierra Club nomination to make this stand a natural area/ecological reference area. If and when a decision is made on this issue, the stand will be set aside or managed as prescribed at that time.

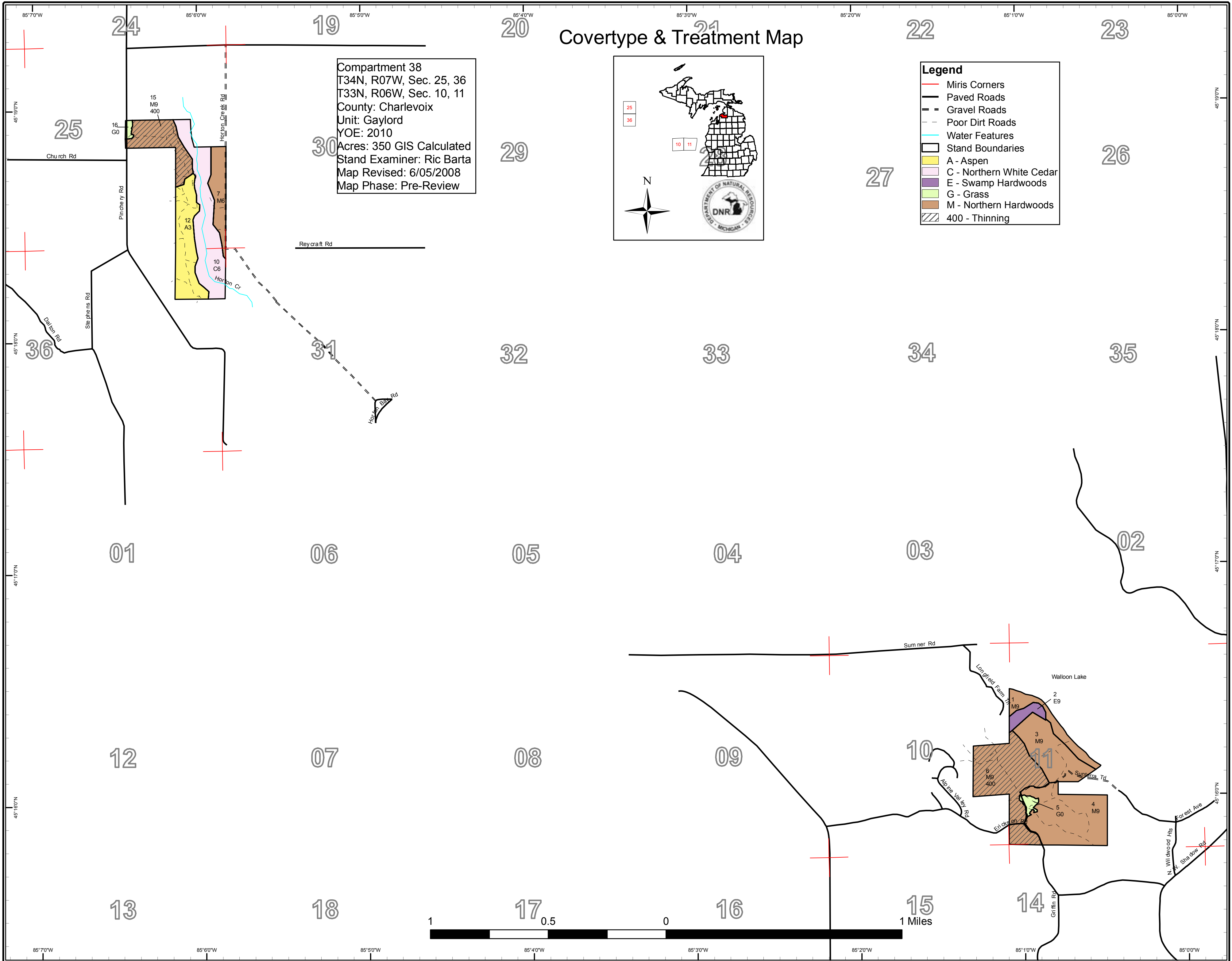
Total Acres..... 67

Covertypes & Treatment Map

Compartment 38
 T34N, R07W, Sec. 25, 36
 T33N, R06W, Sec. 10, 11
 County: Charlevoix
 Unit: Gaylord
 YOE: 2010
 Acres: 350 GIS Calculated
 Stand Examiner: Ric Barta
 Map Revised: 6/05/2008
 Map Phase: Pre-Review

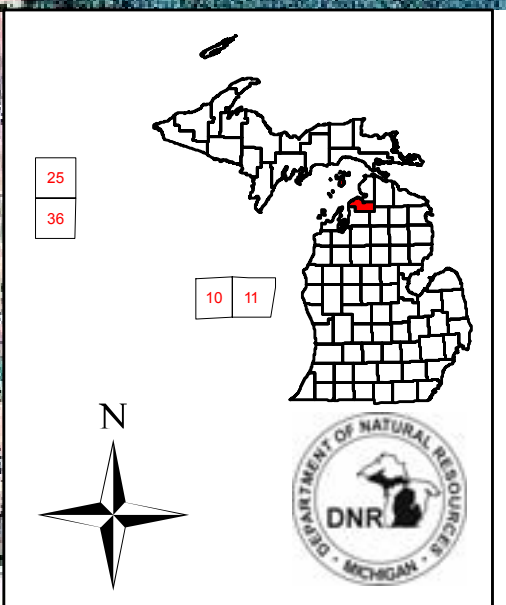


- Legend**
- Miris Corners
 - Paved Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Water Features
 - Stand Boundaries
 - A - Aspen
 - C - Northern White Cedar
 - E - Swamp Hardwoods
 - G - Grass
 - M - Northern Hardwoods
 - 400 - Thinning



Stand Boundary Map

Compartment 38
T34N, R07W, Sec. 25, 36
T33N, R06W, Sec. 10, 11
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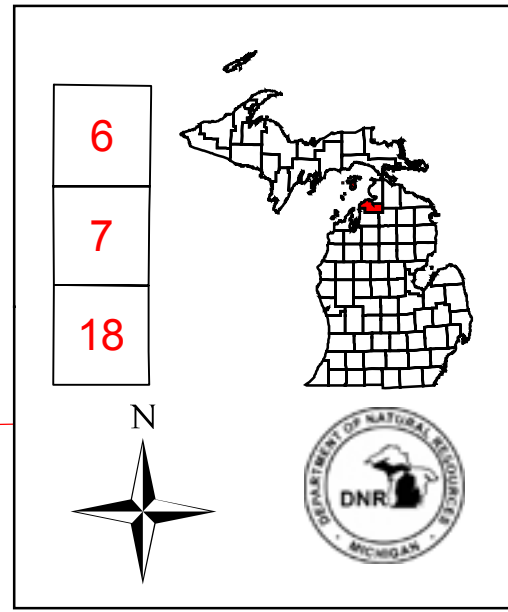


- Legend**
- Miris Corners
 - Paved Roads
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 - Stand Boundaries



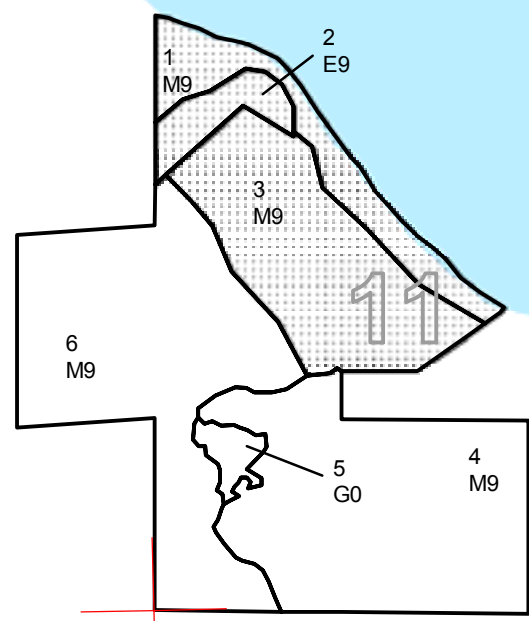
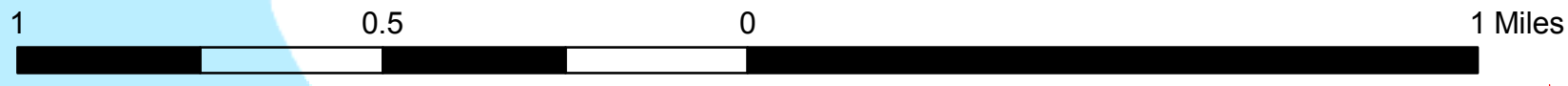
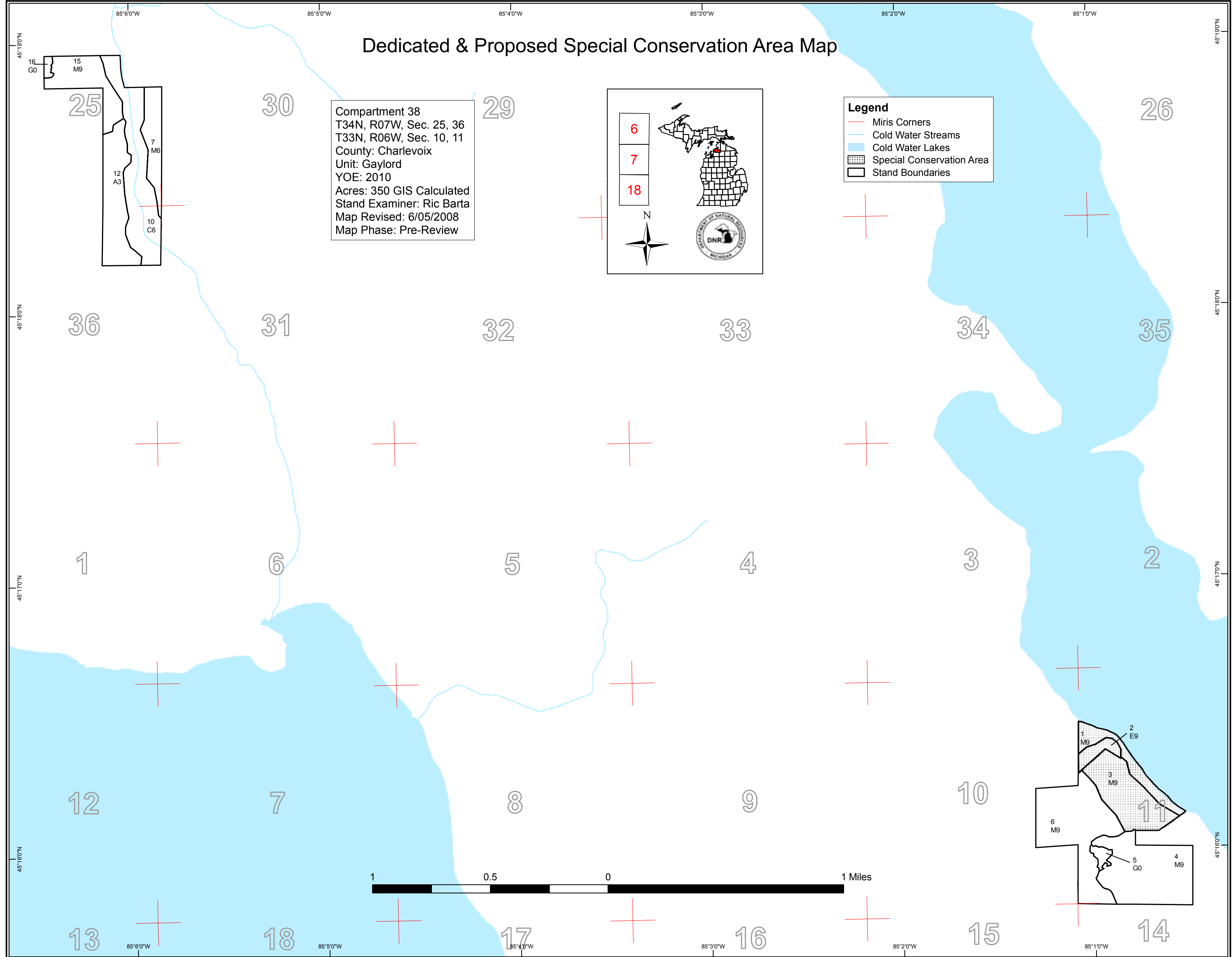
Dedicated & Proposed Special Conservation Area Map

Compartment 38
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Legend

- Miris Corners
- Cold Water Streams
- Cold Water Lakes
- Special Conservation Area
- Stand Boundaries





DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.