



**SAULT FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 18 ENTRY YEAR: 2007**

**Compartment Acreage: 3671      County: Chippewa**

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**Revision Date:** September 14, 2005

**Stand Examiner:** Lucas Merrick

**Legal Description:** T41N R7E Sec 3, 4, 9, 10; T41N R7E Sec 33, 34

**Management Goals:** To develop an optimal age class distribution of aspen stands for sustainable forestry and wildlife values. To rotate hardwood treatments for optimum regeneration and stocking of all age classes. Maintain current openings as needed for diversity and enhancement of wildlife benefits. To provide reasonable public access for multiple use benefits such as hunting, trail riding, camping, and hiking, while protecting the natural resources.

**Soil and Topography:** Shelter-Posen-Summerville: deep and shallow, level to steep, poorly drained and well drained, loamy soils on ground moraines and glacial lake benches. Topography is gently rolling to flat with lower wet areas and large, open, scenic vistas.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** One private parcel in the southwest of the compartment, otherwise a contiguous block of State land. No developments. Primarily used for hunting, trail riding, and timber and wildlife management. Surrounding State land maintains landscape level management.

**Unique, Natural Features:** A large grass opening known as the “Big Burn” is in the compartment and is burned or partially burned once each entry period.

**Archeological, Historical, and Cultural Features:** A road intersection historically known as Cornbeef Junction is here.

**Special Management Designations or Considerations:** None

**Watershed and Fisheries Considerations:** This compartment, located on Drummond Island, contains portions of Clear Lake and Dickenson Lake. Dickenson Lake is a very shallow lake, with a maximum depth of 3 feet, and has a population of yellow perch. We have no data on Clear Lake. Prescribed management activities are appropriate for the protection of these water bodies.

**Wildlife Habitat Considerations:** This compartment is located within Subsection VIII.1.1 of Landscape Ecosystems of Michigan (Albert 1994). Pre-settlement vegetation consisted primarily of an upland spruce-fir-cedar forest type. Dense cedar stands occurred in the poorly drained locations scattered across this compartment. Due to past disturbance, this compartment is now primarily composed of aspen intermixed with cedar and maple with variable densities of a spruce/fir under story.

Most of the aspen is over 60 years old and requires treatment to provide age and structural diversity within this compartment. This will be accomplished through the use of regeneration harvests in the mature stands. This will result in a fairly large contiguous area of final harvest, which is designed to minimize the negative impacts of over browsing by deer to adjacent hardwood regenerations as well as the aspen. Furthermore, larger treatment areas will also minimize fragmentation which has potential negative effects on wood warblers due to nest parasitism by cowbirds. Cedar, white pine, and hemlock that occur within the aspen stands prescribed for harvest will generally be left as seed trees and potential snags to create diverse, uneven aged stands while still regenerating early successional habitats. The cedar stands that occur in the poorly drained sites will not be prescribed for treatment to also allow these stands to function naturally.

A portion of one large herbaceous opening has recently received treatment by prescribed fire. Another portion of this opening complex is scheduled to be burned next as part of a five year planned burn rotation. To maintain its open character, it will likely need to be burned toward the latter part of this planning cycle.

Wildlife species expected to benefit from this treatment include but are not limited to: Ruffed grouse, sharp-tailed grouse, sandhill crane, goshawk, purple finch, towhee, snowshoe hare, white-tailed deer, bobcat, gray wolf, coyote, black bear, pine siskin and redpoll.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of thin to discontinuous glacial deposits over bedrock. There is insufficient data to determine the glacial drift thickness. The Silurian Manistique, Burnt Bluff and Engadine Groups sub crop below the glacial drift. The Engadine is quarried for stone/dolomite on the west side of the island. A gravel pit is located two miles to the southwest and potential is unknown. Two Trenton exploratory tests were drilled in 1934 and 1943 to the southwest of the Compartment. There is no current economic oil and gas production in the UP.

**Vehicle Access:** Logging roads, jeep trails and ORV trails are throughout the compartment. Only the Sheep Ranch Rd (Glen Cove Rd) is drivable with conventional vehicles. All other roads and trails require four wheel drive.

**Survey Needs:** T41N R7E Sec 9

**Recreational Facilities and Opportunities:** ORV and Jeep trails are throughout the compartment. Sheep Ranch Road is a snowmobile trail. No facilities. Hunting is one of the main sporting opportunities as well as camping, hiking, and sight seeing.

**Fire Protection:** There is good vehicle access to most of the compartment. Accessible water sources are scarce.

**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

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: 18

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS													All Aged	Total			
	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
Aspen		176					90	40	777	128									1211
Cedar													203						203
Grass	809																		809
LowInd Brush	197														25				222
LowInd Poplr		58						203		33									294
Mx Swmp Cnfr																212			212
Paper Birch						26			77										103
Spruce Fir					3														3
Tamarack													37						37
Upland Hdws					136													385	521
Water	56																		56
<b>Total</b>	<b>1062</b>	<b>234</b>			<b>139</b>	<b>26</b>	<b>90</b>	<b>243</b>	<b>854</b>	<b>161</b>			<b>240</b>		<b>25</b>	<b>212</b>		<b>385</b>	<b>3671</b>

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

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: 18

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	1211																										1211
C Cedar				203																							203
G Grass					809																						809
L Lowlnd Brush									222																		222
P Lowlnd Poplr										294																	294
Q Mx Swmp Cnfr												212															212
B Paper Birch															103												103
F Spruce Fir																			3								3
T Tamarack																						37					37
M Upland Hdwds																								521			521
Z Water																									56		56
<b>Total</b>	1211			203	809				222	294		212			103				3		37			521	56	3671	

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: 18

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	23991 Cds	Hardwood	9690 Cds
Hardwood	1319 Mbf	Hardwood	87 Mbf
Softwood	9620 Cds	Softwood	2807 Cds
Softwood	889 Mbf	Sum CutVol	12671 Cds
Sum TotVol	38027 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
3671		645	

**SAULT STE. MARIE MGT. UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 18**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
20	B6	23	72	55	paper birch	mature	final harvest	1			
comnts Fmd : Nice stand, birch declining, has a red line around it, will probably regenerate to the birch/aspen mix.											
22	A5	96	72	50	aspen (upland)	two aged	final harvest	2			
comnts Fmd : Two age Aspen-Balm with spruce coming in, very patchy, few trees from 1933, sale acres may be reduced due to dieing timber and flooded areas. Regeneration of Aspen /Balm with a mix of Spruce would be typical, and may be patchy for several years.											
26	B6	54	70	60	paper birch	mature	final harvest	1			
comnts Fmd : Include surrounding grass openings with sale for opening maintenance, manage with 28. With a high BA of Aspen this stand will regenerate to the typical Aspen /Birch mix.											
28	P6	33	82	55	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1			
comnts Fmd : Varies in quality, some high ground w/ nice White Birch, include surrounding grass openings in sale for opening maintenance, manage with 26. Regeneration will consist of all present species.											
39	A6	112	72	55	aspen (upland)	mature	final harvest	2			
comnts Fmd : Varies in quality from good to junk, 99 is White Ash and White Birch, 98 is spruce and balsam, sale acres may be reduced due to dieing timber and flooded areas. Reneneration will consist of present species, however may be patchy because of flooded areas. Will type out as needed.											
41	A6	231	72	55	aspen (upland)	mature	final harvest	3			
comnts Fmd : West part of stand looks real good, sale acres may be reduced due to dieing timber and flooded areas. Will type out as needed. Regeneration will be present species.											
53	A6	96	79	50	aspen (upland)	mature	final harvest	2			
comnts Fmd : A few wet areas, will adjust sale boundaries as needed. Regeneratiuon will be present species.											
400	G0	645		57	grass	nonstocked		0	opening maintenance		
comnts Fmd : Large grass opening with many scattered stands within, comprises much of the north half of the compartment, known as the Big Burn area around Corn Beef Junction. Due to be burned over the next five years, 219 acres burned in 2005.											
401	G0	29		57	grass	nonstocked		0	opening maintenance		
comnts Fmd : filling in w/ spruce incorporate w/ adjacent sales											
402	G0	19		57	grass	nonstocked		0	opening maintenance		
comnts Fmd : filling in w/ spruce incorporate w/ adjacent sales											
403	G0	13		57	grass	nonstocked		0	opening maintenance		
comnts Fmd : filling in w/ spruce incorporate w/ adjacent sales											
404	G0	9		57	grass	nonstocked		0	opening maintenance		
comnts Fmd : Junction of Clear Lake Rd and Marblehead Rd.											
405	G0	24		57	grass	nonstocked		0	opening maintenance		
comnts Fmd : filling in w/ spruce incorporate w/ adjacent sales											
406	G0	70		57	grass	nonstocked		0	opening maintenance		
comnts Fmd : filling in w/ spruce incorporate w/ adjacent sales											
<b>Total Acres.....</b>		<b>1454</b>									

**Proposed Treatments  
With Limiting Factors**

**Compartment: 18**

**Entry Year: 2007**

<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FD Status</b>
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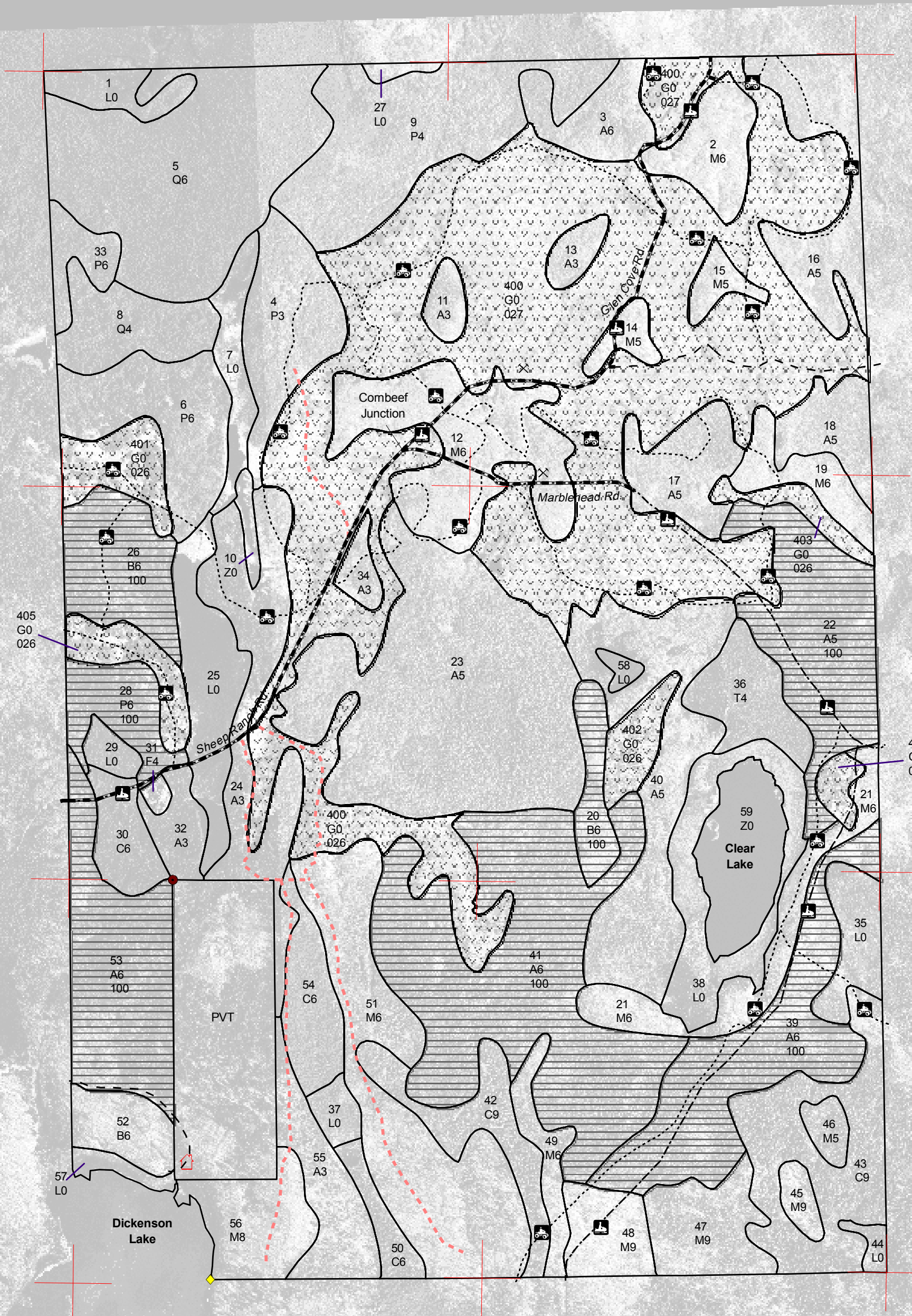
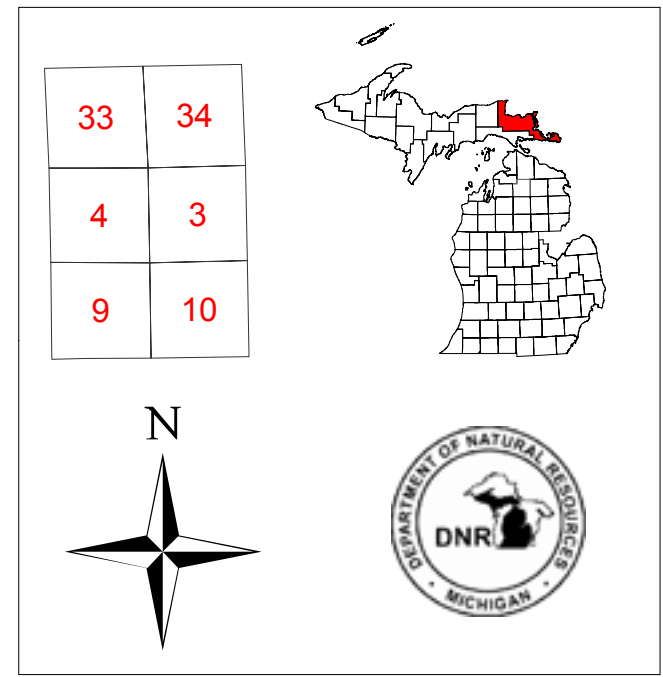
TREATMENT LIMITING FACTORS:

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Total Acres..... 0

# Field Map

Compartment 18  
 T41N, R7E, Sec. 3, 4, 9, 10  
 T42N, R7E, Sec. 33, 34  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 YOE: 2007  
 Acres: 3,671 GIS Calculated  
 Stand Examiner: Lucas Merrick  
 Map Revised: 9/26/2005  
 Map Phase: Pre-review



**Legend**

- Meander Corner
- Miris Corners
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Gates
- Cabin
- Gravel Pit
- Posts
- Snowmobile Trails
- ORV Trails
- Stand Boundary
- 026 - Opening Maintenance
- 027 - Opening Maintenance/Prescribed Burning
- 100 - Final Harvest
- Gravel Roads
- Water Features

**Name** Water Features

