



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 200

Entry Year 2015

Acreage: 1,488

County Delta

Management Area: Summer Islands

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**Revision Date:** 05/21/2013

**Stand Examiner:** Adam Petrelius

**Legal Description:**

T36N R19W Sections 3 and 4, T37N R19W Sections 7, 17, 26, 27, 28, 33, and 34

**Identified Planning Goals:**

This compartment consists of State lands on Big Summer and Little Summer Islands. It is located in the Summer Islands Management Area. Management in the Summer Islands Management Area will focus on protection and enhancement of Great Lake Islands' special features and ecological functions.

**Soil and topography:**

The topography on the islands is quite hilly and rolling, the soils are Lupton which is more of a poorly drained organic. The soils are very shallow with limestone bedrock immediately beneath.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

The State owns a large contiguous portion of Big Summer Island and a fragmented portion of Little Summer Island. Ownership on Big Summer includes several summer cottages. Land Use on both the islands is a big concern since access is difficult for Law Enforcement.

**Unique Natural Features:**

The unique geology and location of this compartment makes it very suitable to a variety of rare plants.

**Archeological, Historical, and Cultural Features:**

Sites are present and documented with the Office of the State Archaeologist.

**Special Management Designations or Considerations:**

An ERA is present on the islands for a Limestone Bedrock Lakeshore. It is also classified as an SCA for a Great Lakes Island. Potential old growth designations are being removed because stands do not meet our definition of old growth.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of thin to discontinuous glacial till over bedrock. The glacial drift thickness varies between 0 and 10 feet. The Silurian Manistique and Engadine Groups subcrop below the glacial drift. These rocks are used for stone. The nearest gravel pit is four miles to the north and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

Since these are Islands vehicle access is non-existent, however, the islands has been logged in the not to distant past via ice and or barge which left an old road network in place and this is now used extensively by four wheelers. There currently are no public boat landings or docks present.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

There are no developed recreation facilities within this compartment.

**Fire Protection:**

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

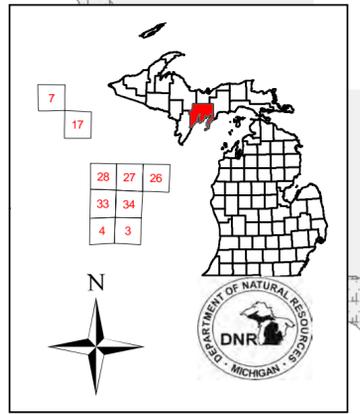
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**The following information is displayed, where pertinent, on the attached compartment maps:**

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatment Map

Stand #  
 (23)  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code



Compartment: 200  
 T36N R19W  
 03 04  
 T37N R19W  
 07 17 26 27 28 33 34  
 County: Delta  
 Unit: Shingleton  
 YOE: 2015  
 Acres: 1,488 GIS Calculated  
 Examiner: Adam Petrelus  
 Map Revised: 09/12/2013  
 Map Phase: Pre-Review

**Legend**

- Miris Corners
- + Remonumented Section Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers

**Forest Stands**

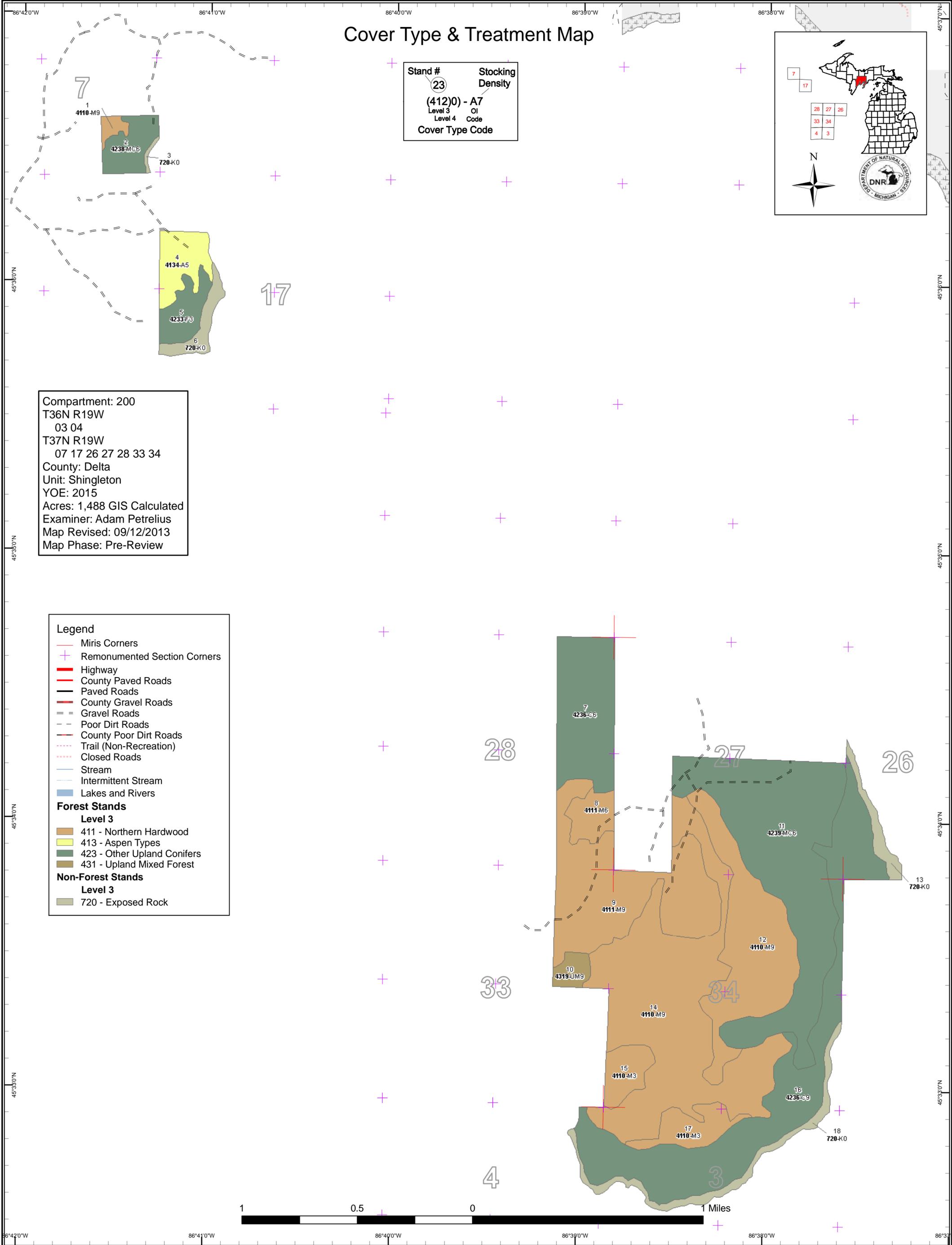
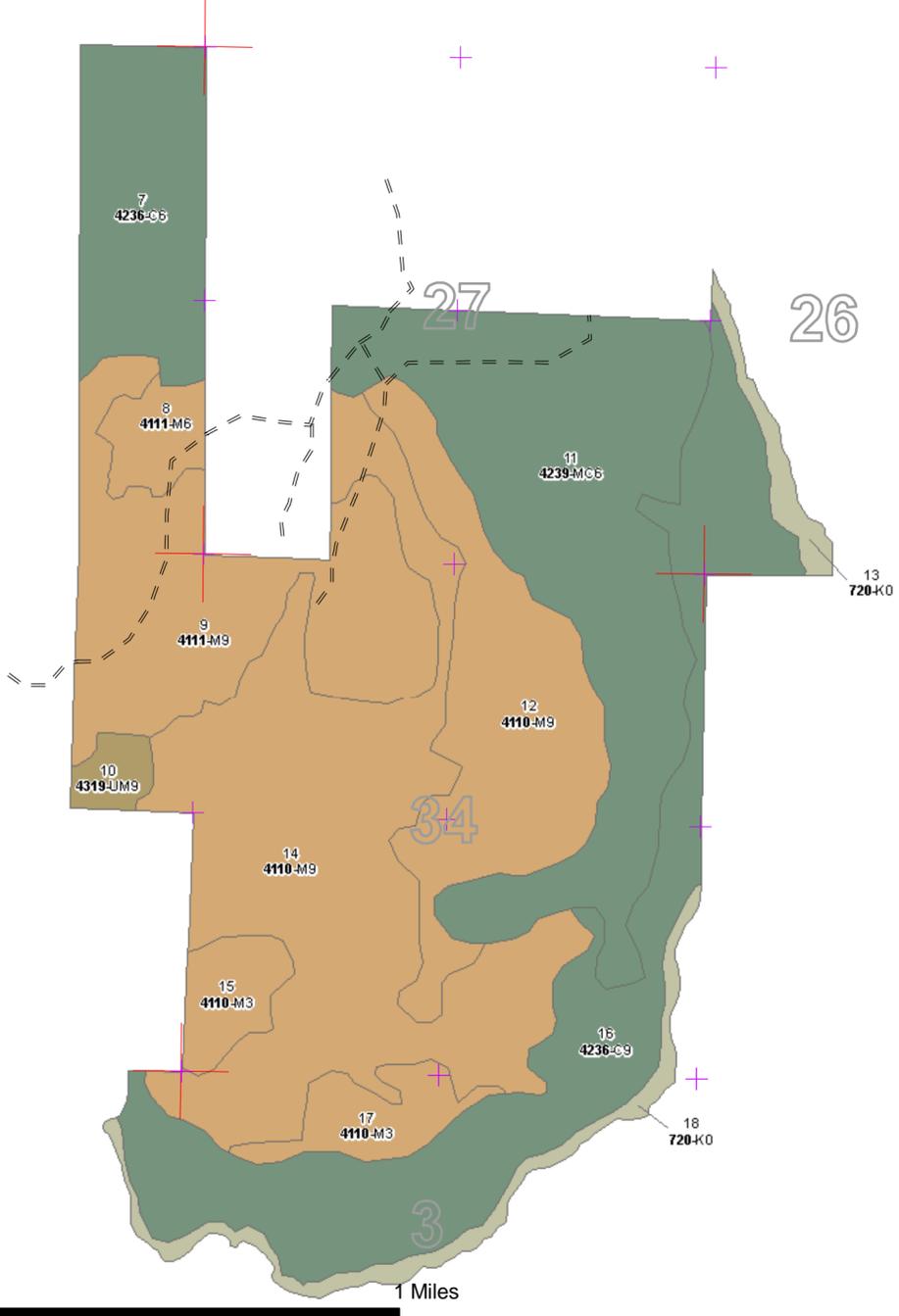
**Level 3**

- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest

**Non-Forest Stands**

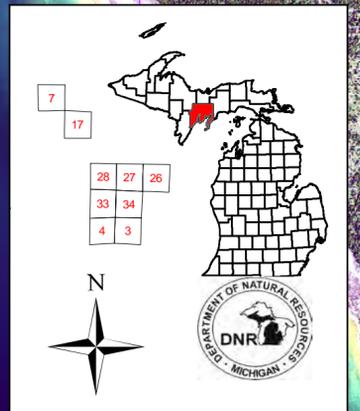
**Level 3**

- 720 - Exposed Rock



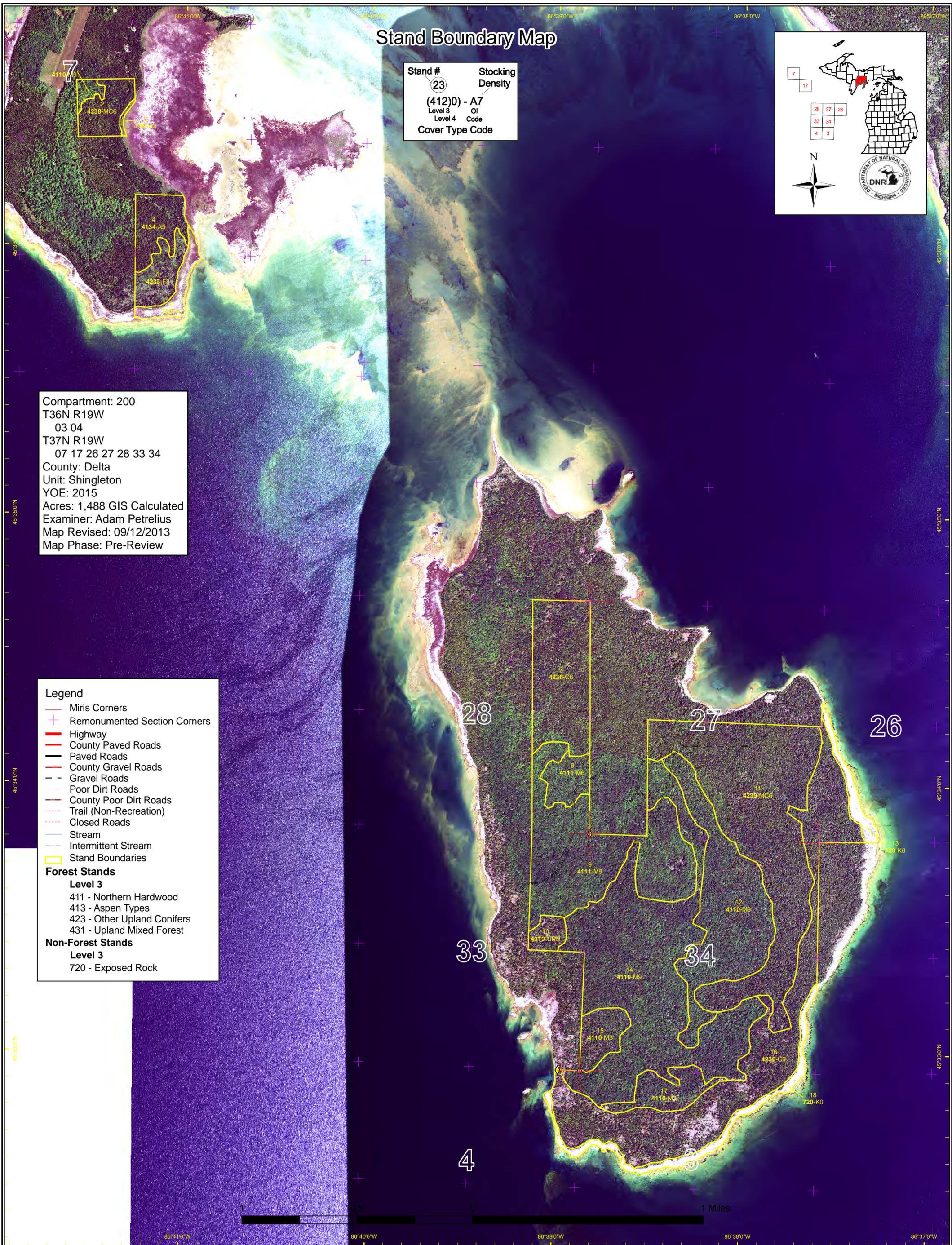
# Stand Boundary Map

Stand # **23** Stocking Density  
**(412)0 - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

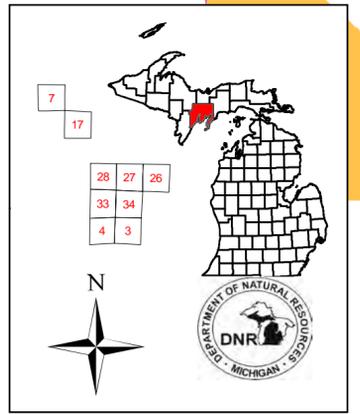


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- Legend**
- Miris Corners
  - + Remonumented Section Corners
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Stream
  - Intermittent Stream
  - Stand Boundaries
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 423 - Other Upland Conifers
  - 431 - Upland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 720 - Exposed Rock



# Special Conservation Areas & Site Conditions Map



Stand # 23  
 Stocking Density  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

Compartment: 200  
 T36N R19W  
 03 04  
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 07 17 26 27 28 33 34  
 County: Delta  
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 Acres: 1,488 GIS Calculated  
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 Map Revised: 09/12/2013  
 Map Phase: Pre-Review

**Legend**

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- ▨ Available w/ Constraints (Factor - Number)
- ▩ Unavailable (Factor - Number)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

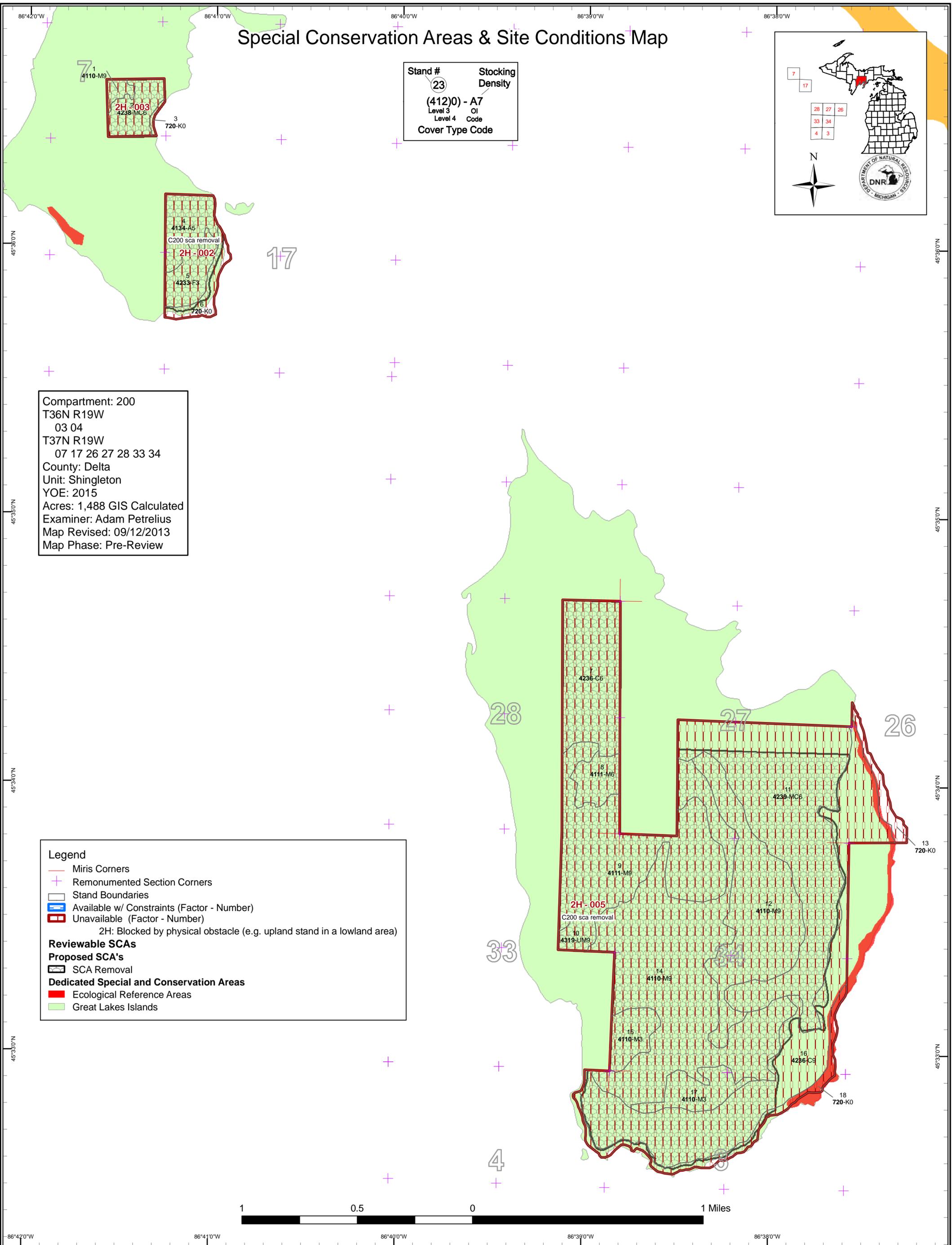
**Reviewable SCAs**

**Proposed SCA's**

- ▨ SCA Removal

**Dedicated Special and Conservation Areas**

- ▨ Ecological Reference Areas
- ▨ Great Lakes Islands



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	0	0	0	0	0	0	35	0	0	0	0	0	0	35
Cedar	0	0	0	0	0	102	0	0	0	0	232	0	0	0	334
Exposed Rock	66	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Northern Hardwood	0	0	60	0	24	0	172	0	152	310	0	0	0	0	717
Upland Conifers	0	0	0	269	0	28	0	0	0	0	0	0	0	0	297
Upland Mixed Forest	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Upland Spruce/Fir	0	0	27	0	0	0	0	0	0	0	0	0	0	0	27
<b>Total</b>	<b>66</b>	<b>0</b>	<b>87</b>	<b>269</b>	<b>24</b>	<b>129</b>	<b>185</b>	<b>35</b>	<b>152</b>	<b>310</b>	<b>232</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1488</b>



## Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit  
Year of Entry 2015

Compartment 200  
Total Compartment Acres: 1,488

### Acres by Treatment Type

Commercial Harvest - 0      Tree Planting - 0      Other - 0  
Habitat Cut - 0      Opening Maintenance - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	#Error #####						
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription  
Specs:

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: #Type!

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**Total Treatment  
Acreage Proposed: 0.0**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

**Total Treatment Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Shingleton Mgt. Unit  
Adam Petrelius : Examiner

Compartment 200  
Year of Entry 2015

### Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	2H
35		35	<b>Aspen</b>	35
334		334	<b>Cedar</b>	334
717		717	<b>Northern Hardwood</b>	717
297		297	<b>Upland Conifers</b>	297
13		13	<b>Upland Mixed Forest</b>	13
27		27	<b>Upland Spruce/Fir</b>	27
1,422		1,422	Total Forested Acres	1,422
		100%	Relative Percent	

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	79				
<b>Comments:</b>							
003	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	36				
<b>Comments:</b>							
005	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1,373				
<b>Comments:</b>							



**Report 6 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS**

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
C200 sca removal	Potential Old Growth		SCA Removal	
<b>Comments</b> does not meet definition of POG				



## Report 7 – 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	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



S t a n d	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 200 Year of Entry: 2015
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	High Density Log	6.3	88	81-110	fire scars on old pine stumps present.
2	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	27.6	50		aspen and birch are starting to die out and stand is being replaced with a dense cedar and fir understory. Some open areas exist within stand.
4	4134 - Aspen, Spruce/Fir	Medium Density Pole	34.6	70		Most of the overstory is dying and stand is converting to fir
5	42330 - Upland Fir	High Density Sapling	27.1	20		overstory has mostly died and stand is now younger fir
7	42360 - Upland Cedar	High Density Pole	101.6	57	51-80	
8	4111 - S.Maple, Hard Mast Association	High Density Pole	23.6	40	81-110	heavy fir understory. beech bark disease just starting to show up
9	4111 - S.Maple, Hard Mast Association	High Density Log	171.9	64	81-110	
10	4319 - Mixed Upland Forest	High Density Log	13.0	64	51-80	
11	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	269.4	30	51-80	
12	4110 - Sugar Maple Association	High Density Log	145.3	88	81-110	
14	4110 - Sugar Maple Association	High Density Log	309.9	95	81-110	
15	4110 - Sugar Maple Association	High Density Sapling	26.4	25	1-50	sugar maple is replacing dying paper birch and aspen
16	42360 - Upland Cedar	High Density Log	232.2	100		south end changes a bit and has more fir mix with birch that is dying
17	4110 - Sugar Maple Association	High Density Sapling	33.6	25	1-50	paper birch dying and being replaced with sugar maple



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	720 - Exposed Rock	1.6	Unspecified	Unspecified	
6	720 - Exposed Rock	17.5	Unspecified	Unspecified	
13	720 - Exposed Rock	14.9	Unspecified	Unspecified	
18	720 - Exposed Rock	31.6	Unspecified	Unspecified	