



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 71

Entry Year 2015

Acreage: 1,618

County Schoolcraft

Management Area: Seney Manistique Swamp

**Revision Date:** 08/06/2013

**Stand Examiner:** Tori Irving

**Legal Description:**

### Identified Planning Goals:

Timber, wildlife, recreation, and fisheries are the main uses of this area. The goal is to manage for all uses simultaneously and to provide, enhance and perpetuate their uses through proper management. Proposed forest treatments will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

### Soil and topography:

The general topography in the area is flat open marshes mixed with rolling upland ridges of pine throughout the majority of the compartment. However, the southern portion of the compartment near the Manistique River is a floodplain. The soils in the area range from poorly drained organics in the low areas to well drained sands on the ridges of pine. The northern portion of the compartment lies in the Manistique Sloughs/Muskeg Land Type Association (LTA) and the southern portion resides in the Stutts Creek Sands LTA.

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

The compartment contains all contiguous state land. Land use in the area is limited to hunters and people on the Manistique River.

### Unique Natural Features:

No Unique Natural Features known.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

The southern border of this compartment is within the Manistique River Corridor. There are several old sloughs and wetland plant species scattered through these stands.

### Watershed and Fisheries Considerations:

None.

### Wildlife Habitat Considerations:

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

Surface sediments consist of lacustrine (lake) sand and gravel thin to discontinuous over bedrock to the southeast. The glacial drift thickness varies from 0 to 10 feet. The Silurian Manitoulin Dolomite, Cabothead Shale and Burnt Bluff Group subcrop below the glacial drift. The Manitoulin and Burnt Bluff are used for stone. The nearest gravel pit is located 3 miles to the east, and potential appears to be limited. There is no commercial oil and gas production in the UP.

### Vehicle Access:

This compartment can be accessed by the Letson Road. Vehicle access stops in the middle of Section 1. There is a network of logging roads and skid trails that are in the northern part of the compartment. They are not useable year-round. The interior of the compartment is best accessed during the winter months on snowmobile.

### Survey Needs:

None needed.

### 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**

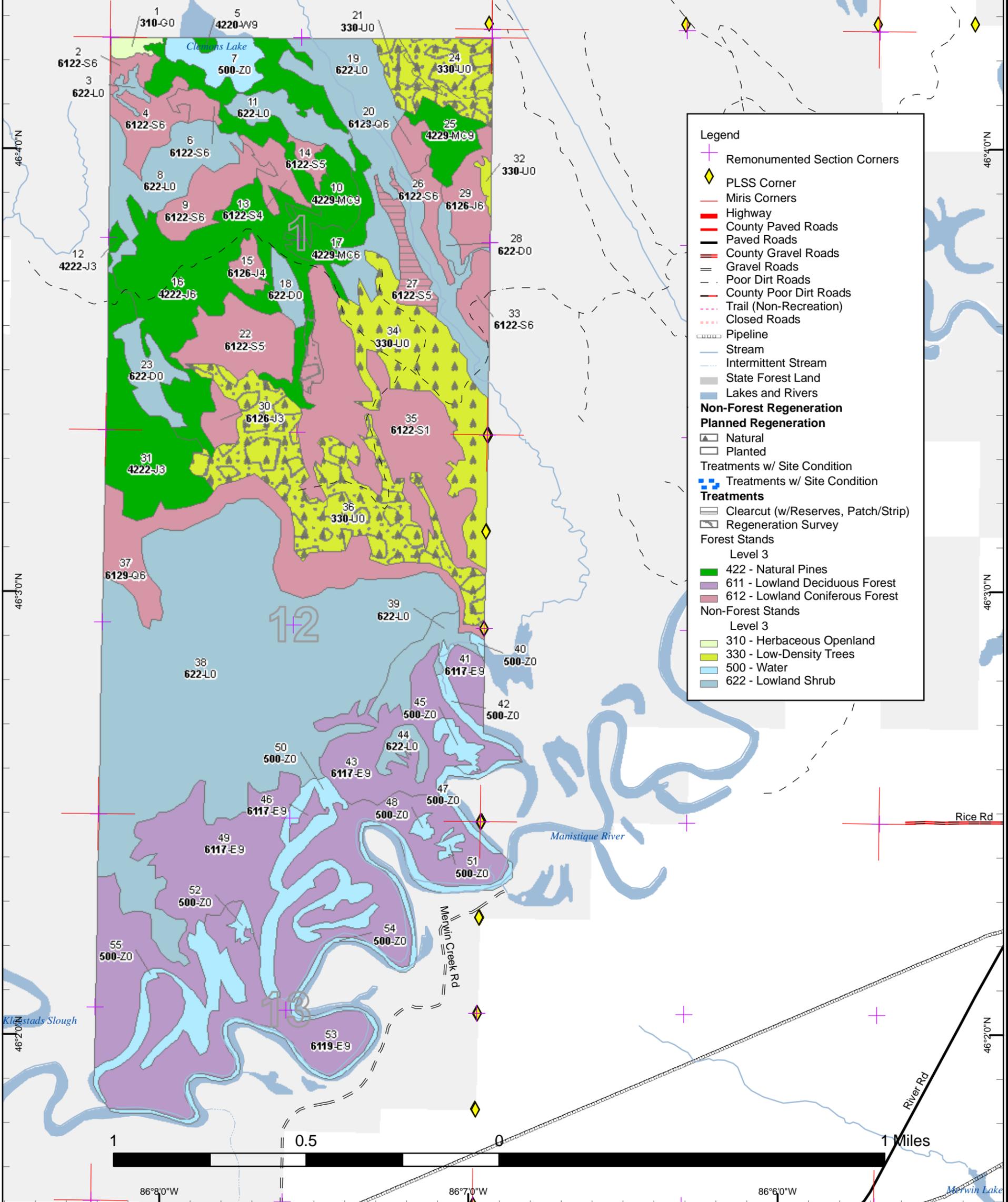
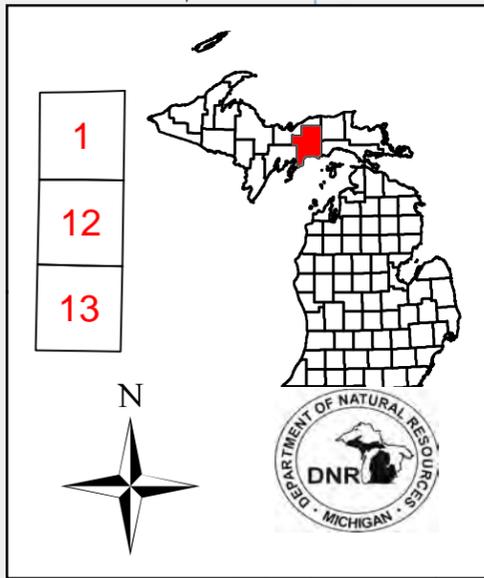
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

# Cover Type & Treatment Map

Compartment: 071  
 T42N R15W  
 01 12 13  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2015  
 Acres: 1,618 GIS Calculated  
 Examiner: Tori Irving  
 Map Revised: 09/12/2013  
 Map Phase: Pre-Review

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



**Legend**

- Remonumented Section Corners
- PLSS Corner
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Pipeline
- Stream
- Intermittent Stream
- State Forest Land
- Lakes and Rivers

**Non-Forest Regeneration**

- Natural
- Planted

**Treatments w/ Site Condition**

- Treatments w/ Site Condition

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Regeneration Survey

**Forest Stands**

Level 3

- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

**Non-Forest Stands**

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



86°8'0"W      86°7'0"W      86°6'0"W

46°5'0"N  
46°4'0"N  
46°3'0"N  
46°2'0"N

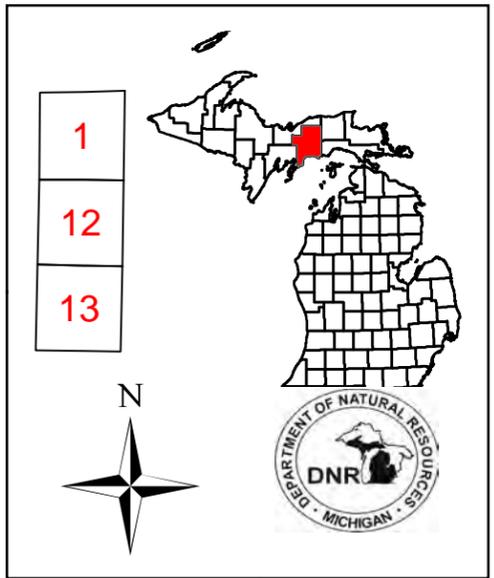
86°6'0"W  
86°7'0"W  
86°8'0"W



# Special Conservation Areas & Site Conditions Map

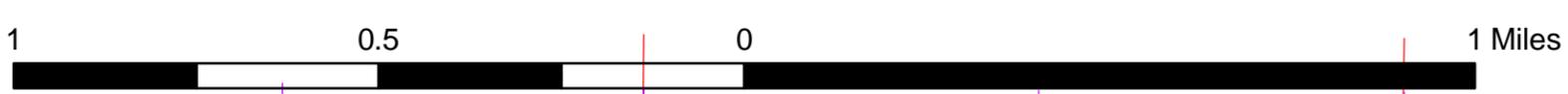
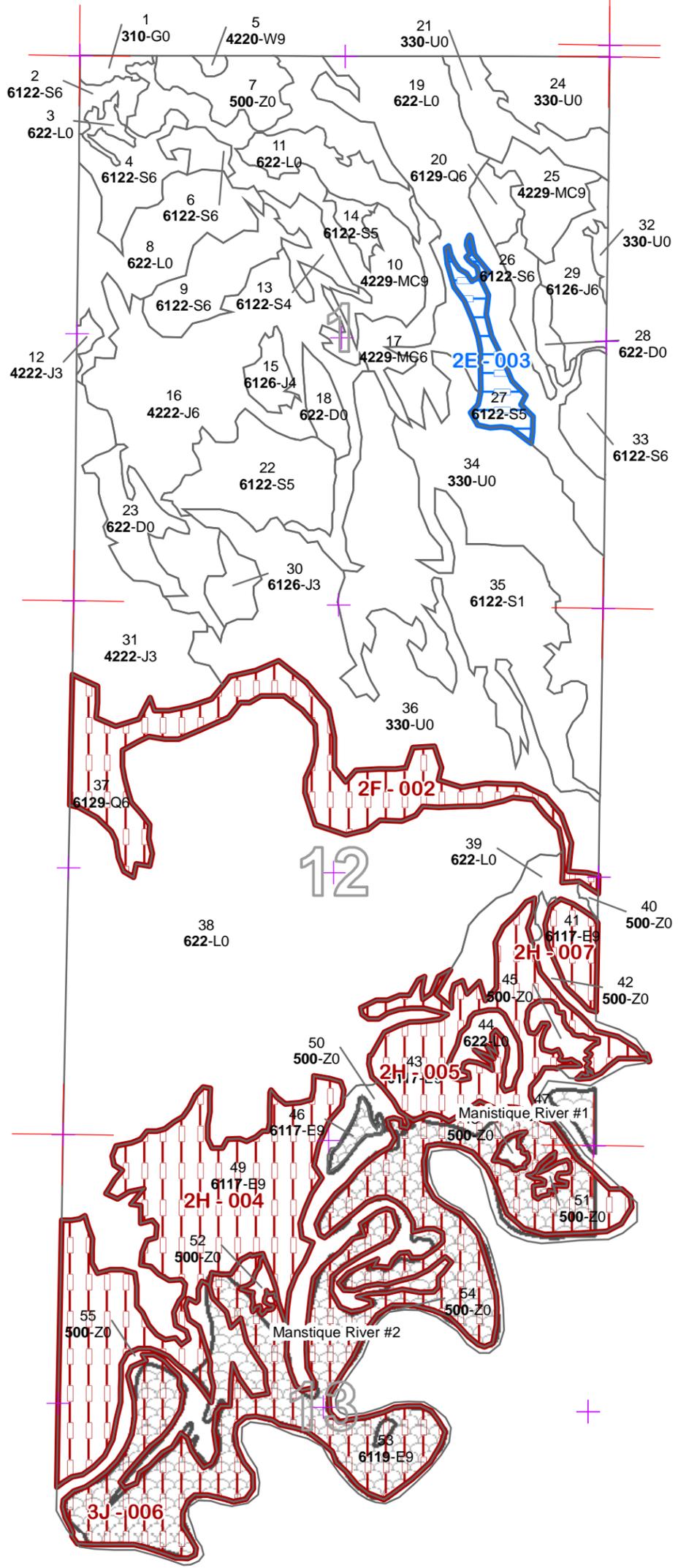
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**Stand #**  
 23  
**(412)0 - A7**  
 Level 3 OI  
 Level 4 Code  
**Stocking Density**  
**Cover Type Code**



**Legend**

- Miris Corners
- Stand Boundaries
- Remonumented Section Corners
- Site Condition Available
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
- Site Condition Type
  - Available Factors W/ Constraints
    - 2E: Road needed
  - Unavailable Factors
    - 2F: Too steep
    - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
    - 3J: Water quality / BMPs (stream, river, or lake)
- Reviewable SCAs
  - SCA Removal



86°8'0"W      86°7'0"W      86°6'0"W

46°5'0"N  
46°4'0"N  
46°3'0"N  
46°2'0"N

46°5'0"N  
46°4'0"N  
46°3'0"N  
46°2'0"N

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	
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	56	6	0	16	89	0	0	0	0	0	0	0	0	166
Low-Density Trees	193	0	0	0	0	0	0	0	0	0	0	0	0	0	193
Lowland Conifers	0	0	0	0	0	0	6	0	0	0	0	0	57	0	63
Lowland Deciduous	0	0	0	0	0	0	0	0	0	313	0	0	0	0	313
Lowland Shrub	464	0	0	0	0	0	0	0	0	0	0	0	0	0	464
Lowland Spruce/Fir	0	0	87	0	0	0	57	45	12	0	0	0	0	0	200
Natural Mixed Pines	0	0	0	0	0	0	15	61	0	0	0	0	0	0	76
Treed Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Water	111	0	0	0	0	0	0	0	0	0	0	0	0	0	111
White Pine	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<b>Total</b>	<b>797</b>	<b>56</b>	<b>93</b>	<b>0</b>	<b>16</b>	<b>89</b>	<b>78</b>	<b>106</b>	<b>12</b>	<b>313</b>	<b>0</b>	<b>1</b>	<b>57</b>	<b>0</b>	<b>1618</b>



## Report 2 – Proposed Treatment Summaries

**Shingleton Mgt. Unit**  
**Year of Entry 2015**

**Compartment 071**  
**Total Compartment Acres: 1,618**

### Acres by Treatment Type

Commercial Harvest - 12	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Lowland Coniferous Forest</b>	12	0	0	0	0	0	12
<b>Total</b>	12	0	0	0	0	0	12

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27 41071027-Cut	11.6	6122 - Black Spruce	Medium Density Pole	86		Harvest	Clearcut with Reserves	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal

Prescription Clearcut stand. Leave some scattered spruce and jack pine for retention and a seed source. Leave any oak or hemlock if it exists. Winter cut only.

Other Factor Limit - small acres. Cut if spruce budworm outbreak occurs.

Comments:

Next Steps: Monitor for regeneration success. Acceptable regeneration is a mix of current canopy species. If natural regeneration fails, trench and plant a mix of spruce and jack pine.

Proposed Start Date: 10/01/2014

**Total Treatment  
Acreage Proposed: 11.6**



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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

Tori Irving : Examiner

Compartment 071

Year of Entry 2015

### Availability for Management

Availability for Management			Dominant Site Conditions					
Total Acres	Acres Available	Acres Not Available		No	5C	3J	2H	2F
166	166		<b>Jack Pine</b>	166				
63	6	57	<b>Lowland Conifers</b>	6				57
313	3	310	<b>Lowland Deciduous</b>	3		150	160	
200	200		<b>Lowland Spruce/Fir</b>	188	12			
76	76		<b>Natural Mixed Pines</b>	76				
1	1		<b>White Pine</b>	1				
820	453	367	Total Forested Acres	441	12	150	160	57
	55%	45%	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	2F: Too steep	57	3H: Deer Wintering Areas			
<b>Comments:</b>							
003	Available	2E: Road needed	12				
<b>Comments:</b> Hold stand until next entry year unless stand displays forest health issues. This stand would require quite a bit of road work/plowing for a small amount of acres.							
004	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	104	3H: Deer Wintering Areas	3J: Water quality / BMPs (stream, river, or lake)		
<b>Comments:</b>							

## Report 5 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment 071

Year of Entry 2015

005	<b>Not Available</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	47	3H: Deer Wintering Areas	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>					
006	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	150	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3H: Deer Wintering Areas
<b>Comments:</b>					
007	<b>Not Available</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	9	3J: Water quality / BMPs (stream, river, or lake)	3H: Deer Wintering Areas
<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
<b>Manistique River #1</b>	Other SCA		<b>SCA Removal</b>	
<b>Comments</b>				
Does not meet Old Growth Criteria. Stand is a big mixture of species with some pockets of cedar. There are a lot of old river sloughs that are full of tagalder and flooded for parts of the year.				
<b>Manistique River #2</b>	Other SCA		<b>SCA Removal</b>	
<b>Comments</b>				
Stand does not meet Old Growth Criteria. Stand is consists of mainly Red Maple with scattered White Pine and Spuce Log trees. The stand runs along the Manistique River. It has a lot of old sloughs and low areas.				



**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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 071 Year of Entry: 2015	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
2	6122 - Black Spruce	High Density Pole	4.6	73			
4	6122 - Black Spruce	High Density Pole	15.7	64			
5	42200 - Natural White Pine	High Density Log	1.1	113			Small inland in Clemens Lake
6	6122 - Black Spruce	High Density Pole	4.9	73			
9	6122 - Black Spruce	High Density Pole	18.5	73			
10	42290 - Natural Mixed Pine	High Density Log	46.3	73	111-140		In the eastern part of the stand, there is evidence of fire. There are large mother trees surrounded by pole sized red pine. The western side is heavier to jack pine but still has a good amount of red pine. This stand is almost two aged.
12	42220 - Natural Jack Pine	High Density Sapling	1.7	14			Stand was part of the West Branch Reserve sale. Stand was cut in multiple winters. Treated under FTP C41-765.
13	6122 - Black Spruce	Low Density Pole	8.7	60			
14	6122 - Black Spruce	Medium Density Pole	3.7	60			
15	6126 - Lowland Jack Pine	Low Density Pole	5.9	20			Stand swapped from Non-Forested to Forested. Covered with leatherleaf.
16	42220 - Natural Jack Pine	High Density Pole	88.9	51			
17	42290 - Natural Mixed Pine	High Density Pole	15.4	67			
20	6129 - Mixed Coniferous Lowland Forest	High Density Pole	6.2	60			
22	6122 - Black Spruce	Medium Density Pole	28.7	60			
25	42290 - Natural Mixed Pine	High Density Log	14.6	71	111-140		Stand has pockets of spruce on low ground.
26	6122 - Black Spruce	High Density Pole	7.5	75			
27	6122 - Black Spruce	Medium Density Pole	11.6	86			



Stand	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 071 Year of Entry: 2015	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
29	6126 - Lowland Jack Pine	High Density Pole	15.8	48			
30	6126 - Lowland Jack Pine	High Density Sapling	6.8	14			
31	42220 - Natural Jack Pine	High Density Sapling	47.4	14		West Branch Reserve Sale. Stand was cut in multiple winters. Stand was treated under FTP C#41-765.	
33	6122 - Black Spruce	High Density Pole	9.1	71			
35	6122 - Black Spruce	Low Density Sapling	87.0	20		Stand swapped from Non-Forested to Forested.	
37	6129 - Mixed Coniferous Lowland Forest	High Density Pole	57.2	143		Stand is along the edge of a lowland shrub stand. There is ridge along the edge of the stand.	
41	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	9.0	92	51-80	There are some spots in the canopy that are on the lower end of the 75-100 canopy closure. The understory is mostly fern. There is not a lot of trees regenerating. There are a lot of old sloughs in the stand and obvious signs of flooding. Some of the old slough still had water in them. There is also meadow rue and sensitive fern in the understory. This stand is mature but would be very hard to treat due to access.	
43	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	47.1	92	51-80	There are some spots in the canopy that are on the lower end of the 75-100 canopy closure. The understory is mostly fern. There is not a lot of trees regenerating. There are a lot of old sloughs in the stand and obvious signs of flooding. Some of the old slough still had water in them. There is also meadow rue and sensitive fern in the understory. This stand is mature but would be very hard to treat due to access.	
46	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	2.8	92	51-80	There are some spots in the canopy that are on the lower end of the 75-100 canopy closure. The understory is mostly fern. There is not a lot of trees regenerating. There are a lot of old sloughs in the stand and obvious signs of flooding. Some of the old slough still had water in them. There is also meadow rue and sensitive fern in the understory. This stand is mature but would be very hard to treat due to access.	
49	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	104.1	92	51-80	There are some spots in the canopy that are on the lower end of the 75-100 canopy closure. The understory is mostly fern. There is not a lot of trees regenerating. There are a lot of old sloughs in the stand and obvious signs of flooding. Some of the old slough still had water in them. There is also meadow rue and sensitive fern in the understory. This stand is mature but would be very hard to treat due to access.	
53	6119 - Mixed Lowland Deciduous Forest	High Density Log	149.9	92	81-110	Has signs of flooding in the last 5 years. Was flooded this spring. Some of the old sloughs still have water in them. Regeneration in the stand is minimal. Balsam fir is in scattered pockets.	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	310 - Herbaceous Openland	3.4	Unspecified	Unspecified	
3	6229 - Mixed lowland shrub	2.9	No	Unspecified	
7	50 - Water	14.3	No	Unspecified	Clemons Lake
8	6229 - Mixed lowland shrub	34.8	No	Unspecified	Stand swapped from Forested to Non-Forested.
11	6229 - Mixed lowland shrub	14.9	No	Unspecified	
18	6224 - Treed Bog	6.6	No	Unspecified	
19	622 - Lowland Shrub	73.0	No	Unspecified	Drainage area
21	3302 - Low Density Conifer Trees	15.2	Natural Regen	Lowland Spruce/Fir	Stand was originally set up and sold as part of the Which Way Do We Go Sale. Stand was returned to the state by the purchaser due to poor market conditions. The TCR date was 7/23/2007. The sale was resold and on contract again as 41-02-08. The sale was cut in the winter 2011. TCR date 8/31/2011. Regeneration counts will be conducted in 2015. FTP C41-1238 is now available for scarification.
23	6224 - Treed Bog	14.6	No	Unspecified	A lot of standing dead. Stand is probably inundated by water most of the year. check to see if this has been cut in the past.
24	3302 - Low Density Conifer Trees	18.6	Natural Regen	Jack Pine	Stand was originally set up and sold as part of the Which Way Do We Go Sale. Stand was returned to the state by the purchaser due to poor market conditions. The TCR date was 7/23/2007. The sale was resold and on contract again as 41-02-08. The sale was cut in the winter 2011. TCR date 8/31/2011. Regeneration counts will be conducted in 2015. FTP C41-1238 is now available for scarification.
28	6224 - Treed Bog	4.3	Unspecified	Unspecified	
32	3302 - Low Density Conifer Trees	2.0	Yes	Unspecified	
34	3302 - Low Density Conifer Trees	63.6	Natural Regen	Jack Pine	Stand was cut in 1999. 10/18/2005: Regeneration counts - 971 jack pine, 241 black spruce. 12/28/2005: FTP was closed with a letter.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
36	3303 - Mixed Low Density Trees	93.8	Natural Regen	Jack Pine	Stand was part of the Which Way Do We Go Sale. [7/12/2007] The sale was returned to the State by the purchaser due to poor market conditions. [3/10/2008] Sale was resold as sale number 41-02-08 [10/4/2011] Sale was cut in the Winer of 2011. TCR date 8/31/2011. Count regeneration in 2015.
38	622 - Lowland Shrub	317.5	Unspecified	Unspecified	
39	622 - Lowland Shrub	14.2	Unspecified	Unspecified	
40	50 - Water	0.8	Unspecified	Unspecified	
42	50 - Water	5.0	Unspecified	Unspecified	
44	622 - Lowland Shrub	6.7	Unspecified	Unspecified	
45	50 - Water	5.5	Unspecified	Unspecified	
47	50 - Water	4.7	Unspecified	Unspecified	
48	50 - Water	1.6	Unspecified	Unspecified	
50	50 - Water	31.0	Unspecified	Unspecified	
51	50 - Water	1.8	Unspecified	Unspecified	
52	50 - Water	2.0	Unspecified	Unspecified	
54	50 - Water	20.6	Unspecified	Unspecified	
55	50 - Water	24.2	Unspecified	Unspecified	