



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41184

Entry Year 2027

Acreage: 833

County: Alger

Management Area: Grand Marais Moraine Complex

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**Stand Examiner:** Matt Manders

**Legal Description:**

T46N R17W Sections 4-6

**Identified Planning Goals:**

The main goal in this compartment is to conduct multiple resource management for current and future generations.

**Soil and topography:**

The topography in this compartment is flat to rolling with low areas. The main soils in the compartment are; Escanaba-Greylock Complex with good drainage and fair to good natural fertility, Munising Loam with good drainage and moderate natural fertility and Carbondale Peat with fair drainage and fair to good natural fertility. The entire compartment lies within the Munising Moraine Land Type Association.

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

The area has broken ownership of State and private properties. Section 6 is separated from the main part of the compartment by private ownership and H-15.

**Unique Natural Features:**

Currently under review by Michigan Natural Features Inventory (MNFI).

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

None known.

**Special Management Designations or Considerations:**

The SE1/4NW1/4 of section 6, the SE1/4 of section 5 and the bottom part of the SW1/4 in section 4 are designated as deer yard areas. Treatments that will be conducted around any water areas and lowland conifers will follow all BMP regulations and those concerns addressed from other divisions.

**Watershed and Fisheries Considerations:**

No comments from Fisheries.

**Wildlife Habitat Considerations:**

This compartment lies five miles north of Shingleton and sits on the northern edge of the Petrel Deer Yard. General Land Office survey notes indicate sugar maple, yellow birch, hemlock, balsam fir, and elm dominated the uplands during pre-settlement times. Ironwood, beech and red maple were recorded as minor components of the forest. Lowlands contained a mix of cedar, spruce, tamarack, and a minor component of elm, red maple, and black ash. Although all the species recorded in the original survey still occur, sugar maple appears to be more dominant in today's upland than circa 1850. Black cherry also appears to be more prevalent than in pre-settlement times. Lowland conifer stands appear to be fairly similar to those recorded by GLO surveyors. The cedar and swamp conifer stands (17, 18, 19, and 21) are part of a larger systematic management plan for the Petrel Deer Yard. They will be held back from treatment until dictated by that plan. Featured species in this compartment are American marten, moose, bear, gray jay, northern goshawk, ruffed grouse, and white-tailed deer. The wildlife habitat objectives for the northern hardwoods consist of enhancing the species and structural diversity between and within stands.

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

Surface sediments consist of end moraine of medium-textured till and peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Prairie du Chien (PdC) Formation subcrops below the glacial drift. The PdC could be used for stone. The nearest gravel pit is three miles to the south and there should be good potential. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

Access to the compartment is good with use of H-15 and H-58. There is also a good forest road system through out the compartment from past timber activities.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

This compartment is used regularly by hunters. There is also a good amount of traffic on the two main roads. There is fishing potential in the Humphrey Ponds. Snowmobile trail #8 goes through the compartment in section 5 and 4. This is the only trail out of Shingleton for access to the north.

**Fire Protection:**

Fire response to the area will be good. The Shingleton station is about 4 miles from the compartment via H-15. The current road system is good enough for fire operations; however the timber types present are not of high fire potential. Urban interface problems could occur with those homes or cabins around the compartment, however the majority of the timber is northern hardwoods.

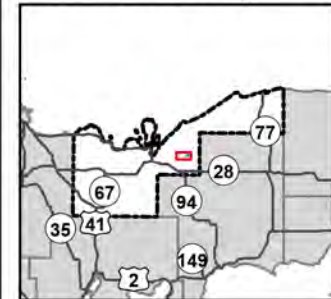
**Additional Compartment Information:****The following reports from the Inventory are attached:**

- 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 & Treatments Map



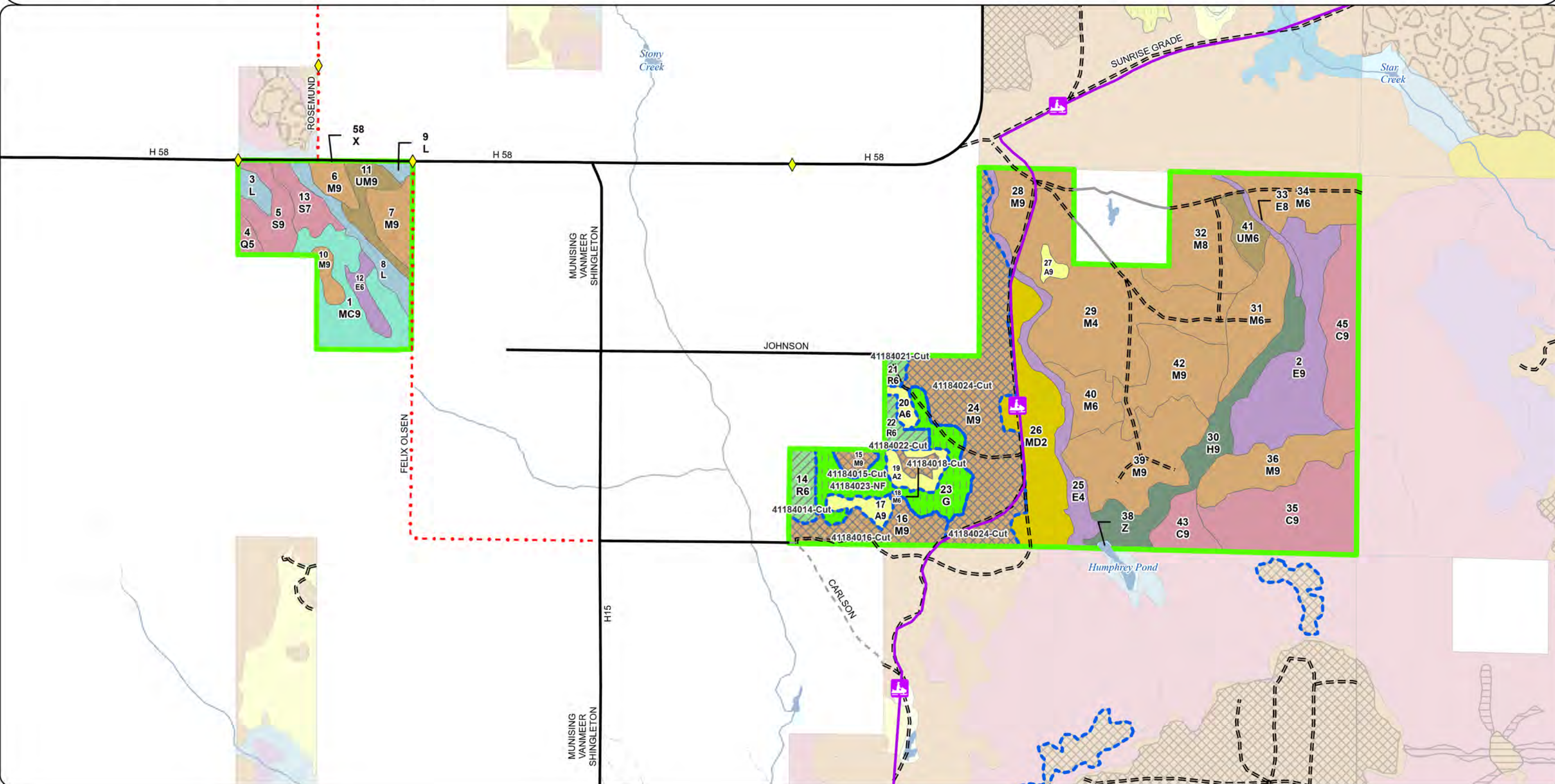
Compartment: 41184  
T46N, R17W, Sec: 4-6  
County: Alger  
Unit: Shingleton  
Mgmt. Area: Grand Marais Moraine Complex  
YOE: 2027  
Acres: 833 GIS Calculated  
Examiner: Matt Manders  
Date Exported: 07/30/2025  
Map Phase: Web Post



0 0.5 1 Miles

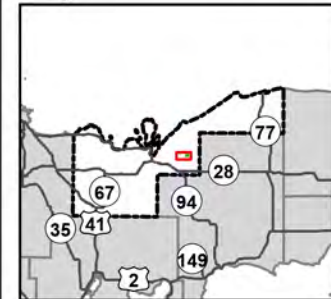
- Survey Grade Corners
- Designated Snowmobile Trails
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Selection
- Thinning
- Openings Mgmt.

- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 122 - Road/Parking Lot
- 622 - Lowland Shrub





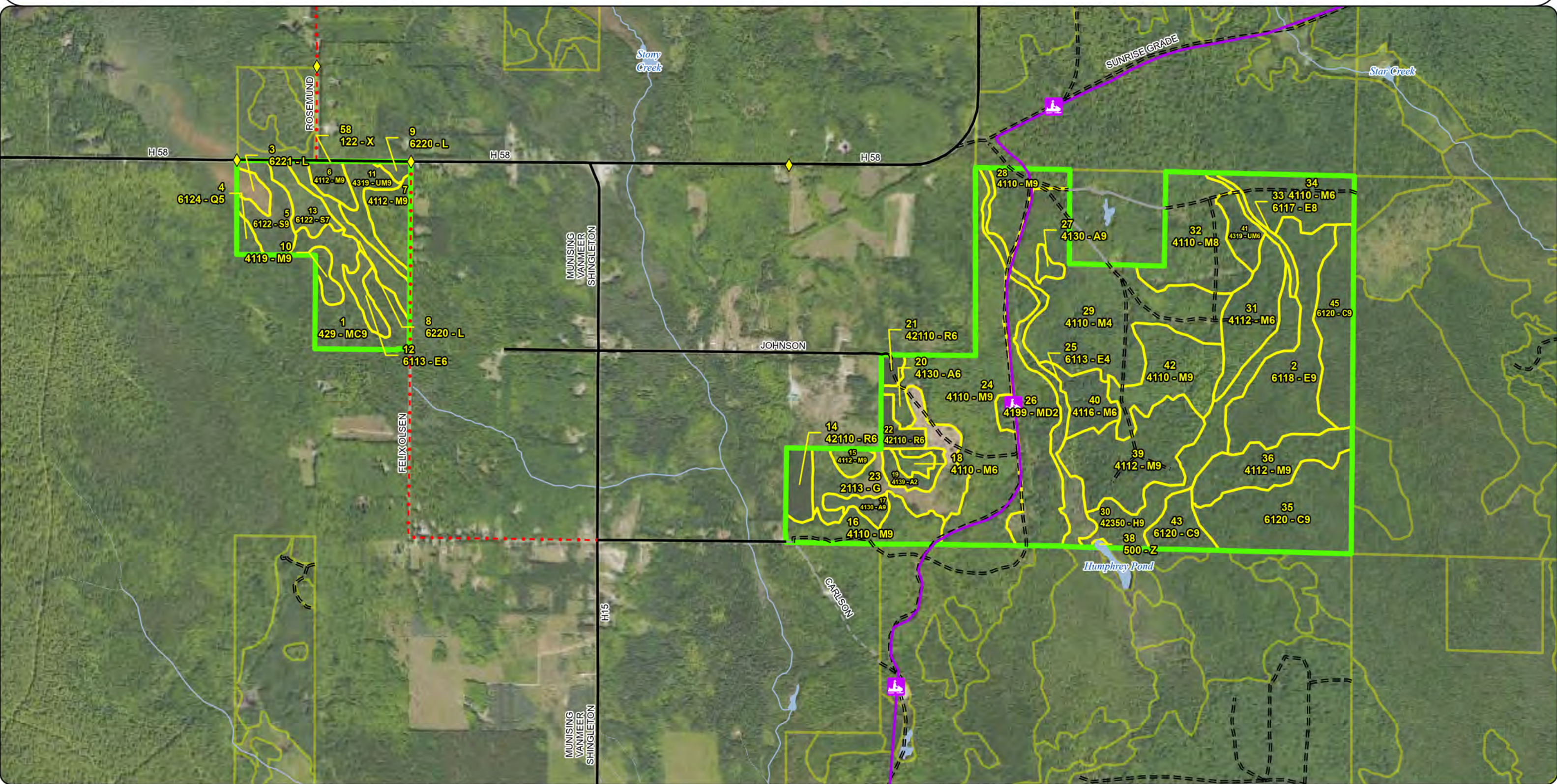
# Stand Boundary Map



Compartment: 41184  
T46N, R17W, Sec: 4-6  
County: Alger  
Unit: Shingleton  
Mgmt. Area: Grand Marais Moraine Complex  
YOE: 2027  
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Map Phase: Web Post

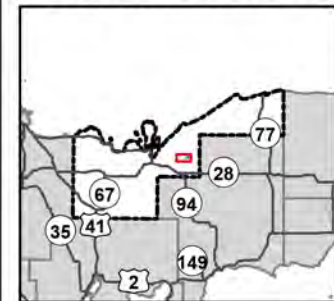
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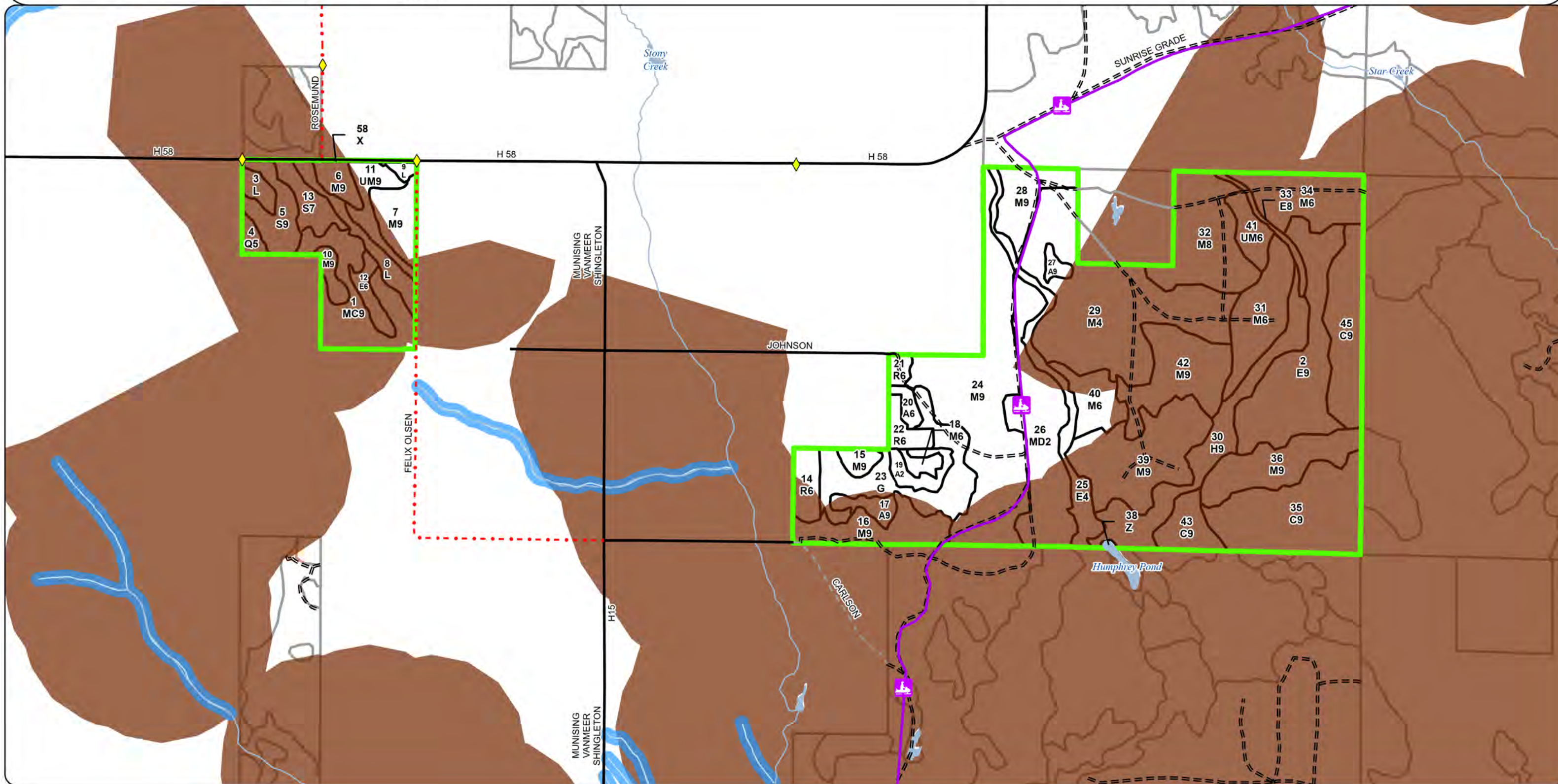
# Special Conservation Areas & Site Conditions Map



Compartment: 41184  
T46N, R17W, Sec: 4-6  
County: Alger  
Unit: Shingleton  
Mgmt. Area: Grand Marais Moraine  
Complex  
YOE: 2027  
Acres: 833 GIS Calculated  
Examiner: Matt Manders  
Date Exported: 07/30/2025  
Map Phase: Web Post

0 0.5 1 Miles

- Survey Grade Corners
- Designated Snowmobile Trails
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



## Report 1 – Total Acres by Cover Type and Age Class

Matt Manders: Examiner



## Age Class

	Non-Forest	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+	Uneven-Aged	Total
Aspen	0	0	0	0	12	6	0	0	0	0	0	0	0	0	0	0	0	0	18
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	89
Cropland	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Lowland Deciduous	0	0	0	0	6	0	49	0	20	0	0	0	0	0	0	0	0	4	79
Lowland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Mixed Upland Deciduous	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Northern Hardwood	0	0	0	0	0	0	0	4	12	0	0	0	0	0	0	0	0	411	427
Red Pine	0	0	0	0	9	9	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70</b>	<b>15</b>	<b>49</b>	<b>4</b>	<b>32</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>611</b>	<b>833</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 184  
Total Compartment Acres: 833

Commercial Harvest - 6  
Harvests with Site Condition - 222  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

		<div>ClearcutSelectionPatch ClearcutSeed TreeShelterwoodThinningOverstory RemovalSalvageOtherTotal Acres</div>									
Northern Hardwood		0	106	0	0	0	0	0	0	0	106
Red Pine		0	0	0	0	0	18	0	0	0	18
Total		0	106	0	0	0	18	0	0	0	124

### Proposed and Next Step Treatments by Method

		<div>HarvestSite PrepPlantingSeedingBurningPesticideMonitoringOtherNon-Forest Mgt.Total Acres</div>									
Current		124	0	0	0	0	0	0	0	31	154
Next Step		0	0	0	0	0	0	106	0	31	137
Total		124	0	0	0	0	0	106	0	62	291





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>14</b>	<b>41184014-Cut</b>	8.6	42110 - Planted Red Pine	6	37	111- 140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Remove 1/3 of the the BA by cutting every 3rd row.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

<b>15</b>	<b>41184015-Cut</b>	4.0	4112 - Maple, Beech, Cherry Association	9	90	51-80	Harvest	Selection	411 - Northern Hardwood	Current	No
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Prescription Mark current overstory to release advanced regen. Basal area is variable but mark to an average of 60-80. Cut all Merchantable Balsam fir and Spruce.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any northern hardwood species

Regen:

Other

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

<b>16</b>	<b>41184016-Cut</b>	20.3	4110 - Sugar Maple Association	9	90	51-80	Harvest	Selection	411 - Northern Hardwood	Current	No
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Prescription Mark current overstory to release advanced regen. Basal area is variable but mark to an average of 60-80. Cut all Merchantable Balsam fir and Spruce.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any northern hardwood species

Regen:

Other

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	41184018-Cut	3.1	4110 - Sugar Maple Association	6	80	51-80	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Mark current overstory to release advanced regen. Basal area is variable but mark to an average of 60-80. Cut all Merchantable Balsam fir <u>Specs:</u> and Spruce. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> any northern hardwood species <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
21	41184021-Cut	3.0	42110 - Planted Red Pine	6	47	81-110	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Remove 1/3 of the BA by cutting every 3rd row. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											
22	41184022-Cut	6.2	42110 - Planted Red Pine	6	47	111- 140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Remove 1/3 of the BA by cutting every 3rd row. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											
23	41184023-NF	30.8	2113 - Forage Crops	99			NonForestMgt	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, seeding, (native or naturalized species only), fertilizing, and liming), chainsaw removal of <u>Specs:</u> competing trees and establishment of native hard and soft mast producers such as red oak, mountain ash or other <u>Next Step</u> NonForestMgt, Mowing <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> W41-1505 <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2016											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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24	41184024-Cut	78.4	4110 - Sugar Maple Association	9	90	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
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Prescription Mark current overstory to release advanced regen. Basal area is variable but mark to an average of 60-80. Cut all Merchantable Balsam fir and Spruce. Sale should contain snowmobile protection specification.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any northern hardwood species

Regen:

Other

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

Total Treatment  
Acreage Proposed: 154.4



# Report 4 – Site Conditions

Shingleton Mgt. Unit  
Matt Manders: Examiner

Compartment: 184  
Year of Entry: 2027



## Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available		Dominant Site Conditions			
Acres	Available	With Condition	Not Available		2I	2G	3H	3J
18	18	0	0	Aspen				
89	0	0	89	Cedar			89	
31	0	31	0	Cropland	31			
35	0	0	35	Hemlock			35	
3	3	0	0	Lowland Conifers				
78	6	0	72	Lowland Deciduous			49	24
17	17	0	0	Lowland Shrub				
23	9	0	14	Lowland Spruce/Fir		14		
43	43	0	0	Mixed Upland Deciduous				
410	299	103	9	Northern Hardwood	103	9		
18	0	18	0	Red Pine	18			
30	30	0	0	Upland Conifers				
19	9	0	11	Upland Mixed Forest				11
1	1	0	0	Urban				
0	1	0	0	Water				
816	436	151	228	Total Forested Acres	151	22	172	34
	53%	19%	28%	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
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Site has been flooded by drainage from road. Many of the spruce trees have died.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions



3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	172	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2I: Survey needed	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2I: Survey needed	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2I: Survey needed	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



## Report 4 – Site Conditions



10	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2I: Survey needed	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2I: Survey needed	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2I: Survey needed	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!  
Year of Entry:

Report 5 – 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
Comments				







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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	6120 - Lowland Cedar	Sawtimber Well	11.4	122	111-140	N/A	Lowland cedar stand, old cedar. Very wet saturated soils.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Seedling	8		Black Spruce	Low	< 5 feet	< 5 feet
Black Spruce		20	Seedling	8		Balsam Fir	Low	< 5 feet	< 5 feet
Northern White Cedar		60		10	122				
45	6120 - Lowland Cedar	Sawtimber Well	28.8	122	111-140	N/A	Lowland mixed stand with cedar and an array of deciduous trees. Stand is large in size and many drainages run through.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		20	Seedling	8		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		60		10	122	Black Spruce	Low	5 - 10 feet	5 - 10 feet
Red Maple		20	Seedling	8					
58	122 - Road/Parking Lot	None	1.2			No	H-58 and cleared portion of the Right-of-way, including intersection of Felix Olsen road.		