



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45189

Entry Year 2023

Acreage: 1,814

County Mackinac

Management Area: Milakokia Lake

Stand Examiner: Jennifer Burnham

Legal Description:

T43N R11W Section 31, T43N R12W Section 36, T42N R11W Section 1, 2, 3 Newton Township

Identified Planning Goals:

The compartment is located at the northeastern boundary of the Batty Doe Lake Deeryard. The area is typed as "moderate" usage for wintering deer activity. The vast majority of the compartment is comprised of cedar stands and will be left for thermal cover within the deeryard. Access to a majority of the compartment is questionable which could limit the majority of the management activities within the compartment.

Soil and topography:

The topography of the compartment is relatively level ground. Low-lying wet ground mixed with slightly higher dry ground. The soils present are as follows: Markey and Carbondale mucks, Mattix sandy loam, Leafriver mucky peat, Spot-Finch Complex, Longrie-Battydoe stony, Angellica muck, Solona loam, Finch sand, Guardlake fine sandy loam, losco sand, Markey-Spot-Finch, Heinz sandy loam, and Histosols and Aquents, ponded.

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

All of the State of Michigan land within the compartment is in one contiguous block except for a 40 acre parcel in the southwest quarter of Section 3. This 40 acre parcel is land locked by private land owners. There are a number of small private landowners in the western and northeast portions of the compartment. Mead Corporation lands and additional State of Michigan lands border the compartment to the south and southeast. To the west of Section 36 is more State of Michigan land, and to the west of Section 3 is land under Michigan Limestone Company ownership. The adjacent landowners to the north are a combination of small private landowners and Mead Corporation lands.

Unique Natural Features:

Compartment is comprised primarily of cedar and lowland conifer types, making an ideal area for wintering deer. Common Loon inhabits Milakokia Lake, which is just west of the compartment.

Archeological, Historical, and Cultural Features:

Old remnants of one of the original railroad shacks is still present along the railroad right-of-way.

Special Management Designations or Considerations:

Large continuous cedar stands will be left alone to assure thermal cover within the deer yard.

Watershed and Fisheries Considerations:

None under active management. Adjacent to this compartment is Milakokia Lake. It supports good populations of largemouth bass, smallmouth bass, natural walleyes, northern pike, bluegills and perch. However, the population densities appear to have decreased considerably over the last ten years. Concurrently, the quarry to the west had during recent years used explosives in a manner sent huge, dense clouds of limestone dust east to settle into the lake. A limestone slurry in water acts similarly to tertiary sewage treatment, precipitating almost all nutrients and other chemicals from the water. At this time, the plankton and fish community of Milakokia Lake make it appear to be quite sterile, when in fact it should not be. Quite possibly, the continuous limestone dust produced an "artificial marl lake." Marl lakes are known for their infertility, poor primary production, and resultant low fish densities. Since the quarry no longer sends limestone dust over the lake on a regular basis, perhaps the lake will now regain its former productivity.

Wildlife Habitat Considerations:

This compartment is part of the Milakokia Lake Management Area where featured wildlife species include American woodcock, blackburnian warbler, red-shouldered hawk, and white-tailed deer. Lowland conifer stands, particularly cedar, dominate. Other types include some aspen and upland mixed stands, and lowland deciduous. Most aspen stands are relatively young. The entire compartment is part of deer wintering complex. Lowland conifer stands provide deer important cover for wintering deer. Wildlife objectives will focus primarily on maintaining the conifer cover important for wintering deer. Conifer stands, particularly cedar, will be left to provide cover. Access is an issue for many stands. Deciduous or

mixed stands are either younger or are currently inaccessible, and will be left.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Silurian Manistique Group subcrops below the glacial drift. The Manistique could be used for stone/limestone. The Inland Quarry, Burnt Bluff Group, is located one mile to the west. The nearest gravel pit is located in Section 30-T43N-R11W. There may be some gravel potential in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the compartment is limited. There is one trail road entering the compartment from Corinne Road through Section 31. This road is only a seasonal road and accesses just a portion of the compartment. Other Public vehicular access to the compartment does not exist. For management activities, access to Section 1 is through private land along the South Gould City Road. Possible access to the southern portion of Section 31 for management activities would also be through private land. Large component of wet, lowland timber types within the compartment makes vehicle access extremely difficult.

Survey Needs:

None identified at this time.

Recreational Facilities and Opportunities:

The primary form of recreation is deer and small game hunting with some trapping. ORV use in the compartment is limited. Designated groomed snowmobile trail system runs along the north edge of the compartment. There is evidence of some illegal ORV activity relating to deer hunting/deer blinds, mainly along the railroad right-of-way.

Fire Protection:

Fire protection is not a major concern with the low ground and related timber types. Access is a concern if a fire were to occur in this compartment.

Additional Compartment Information:

The 40 acre parcel with no legal access should be considered for disposal.

The following reports from the Inventory are attached:

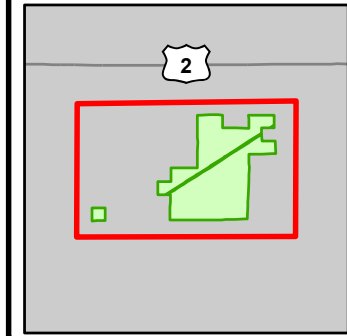
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

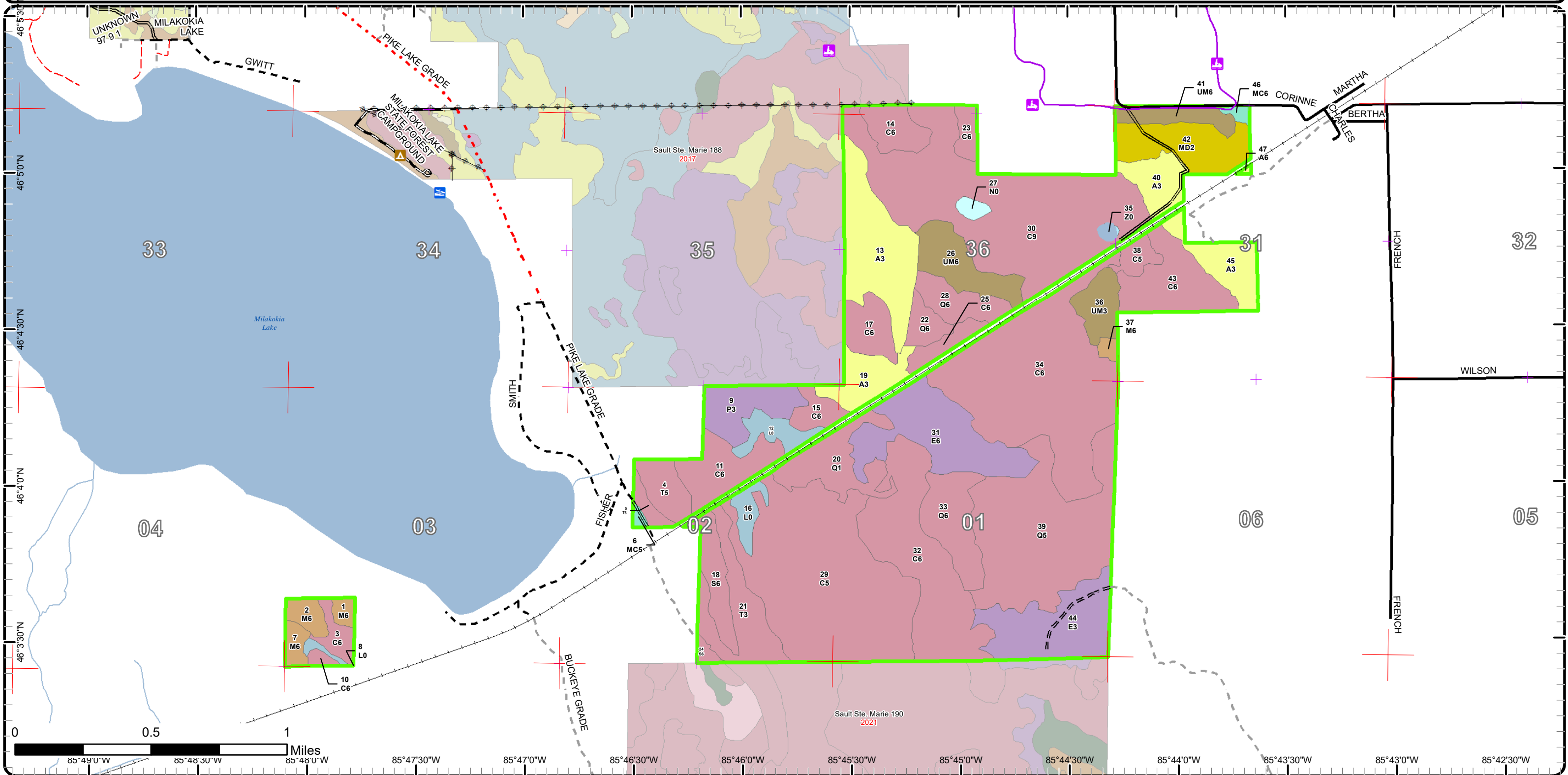
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 189
 T43N, R12W, Sec: 36
 T43N, R11W, Sec: 31
 T42N, R12W, Sec: 1-3
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Milakokia Lake
 YOE: 2023
 Acres: 1814.1 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 1/28/2022
 Map Phase: Post Review

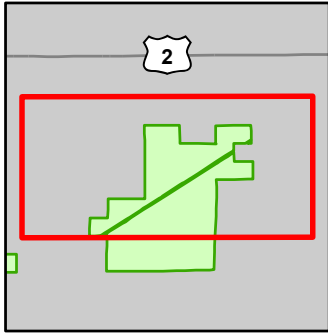


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Boating Access Site
- Campground
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

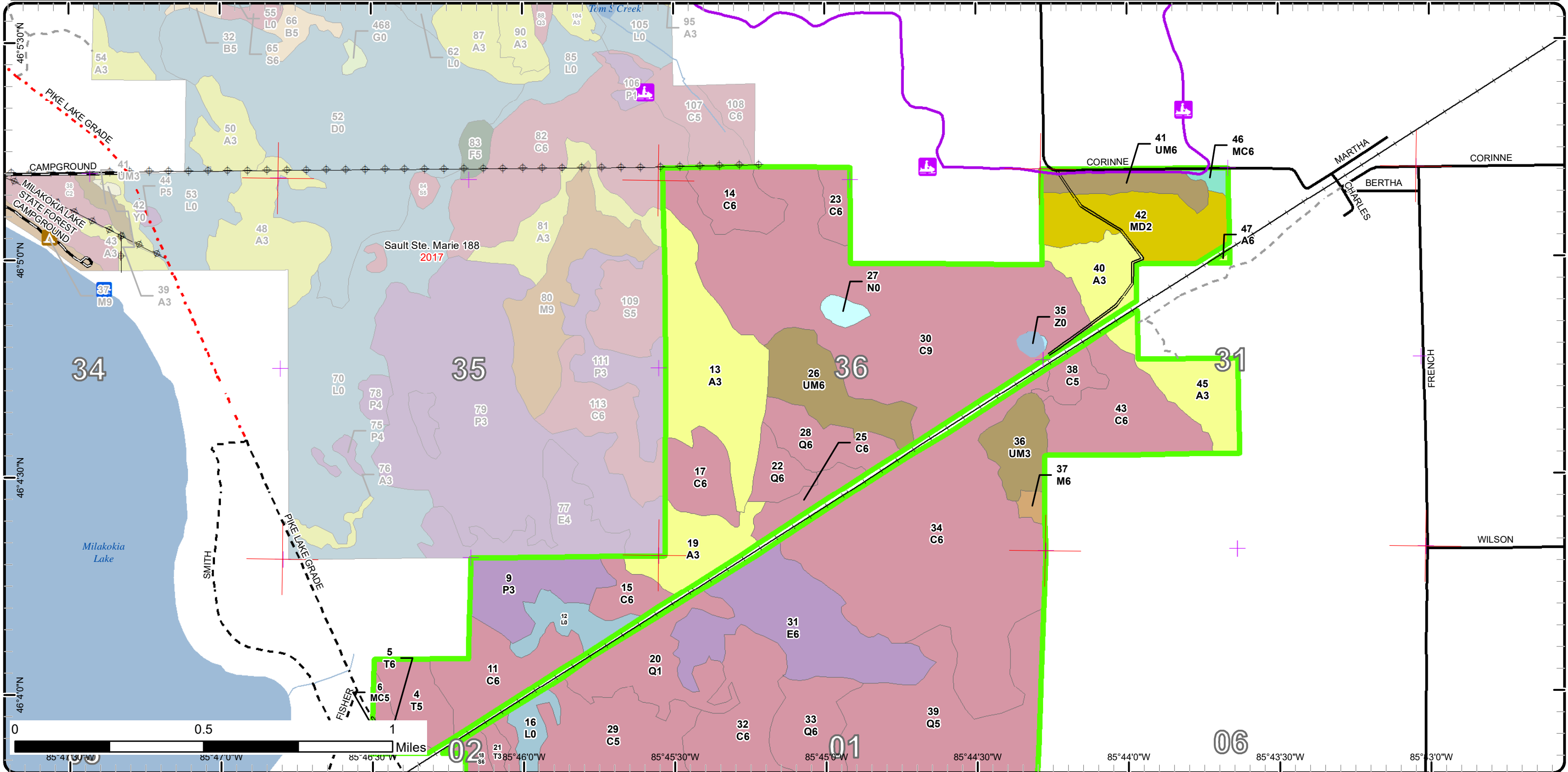


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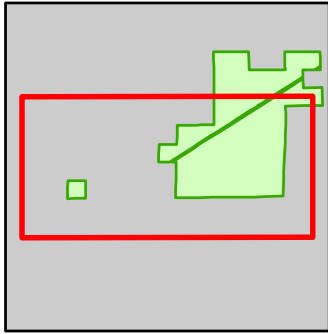


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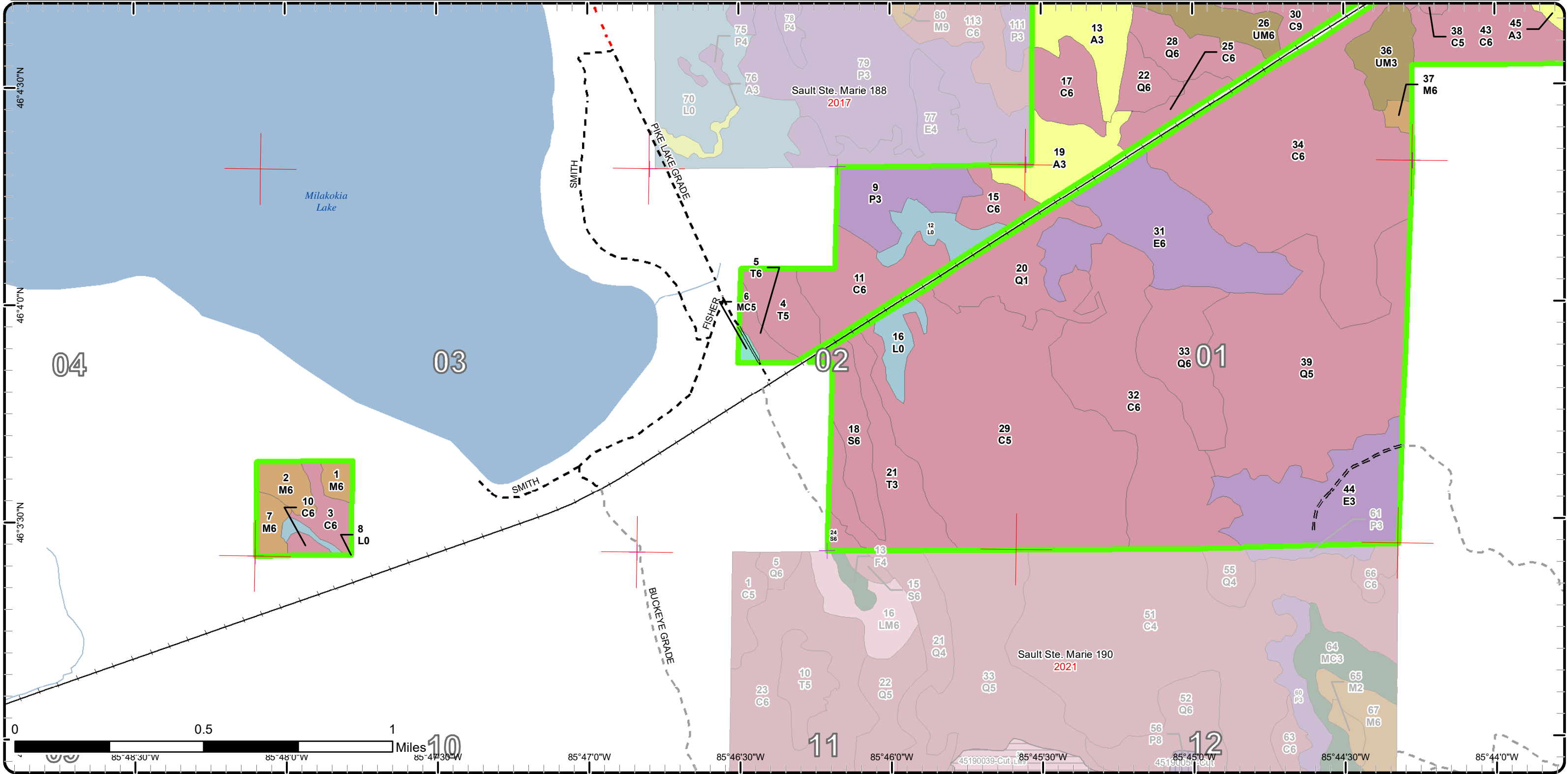


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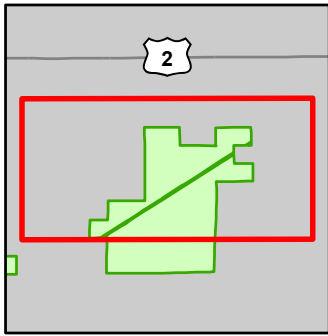


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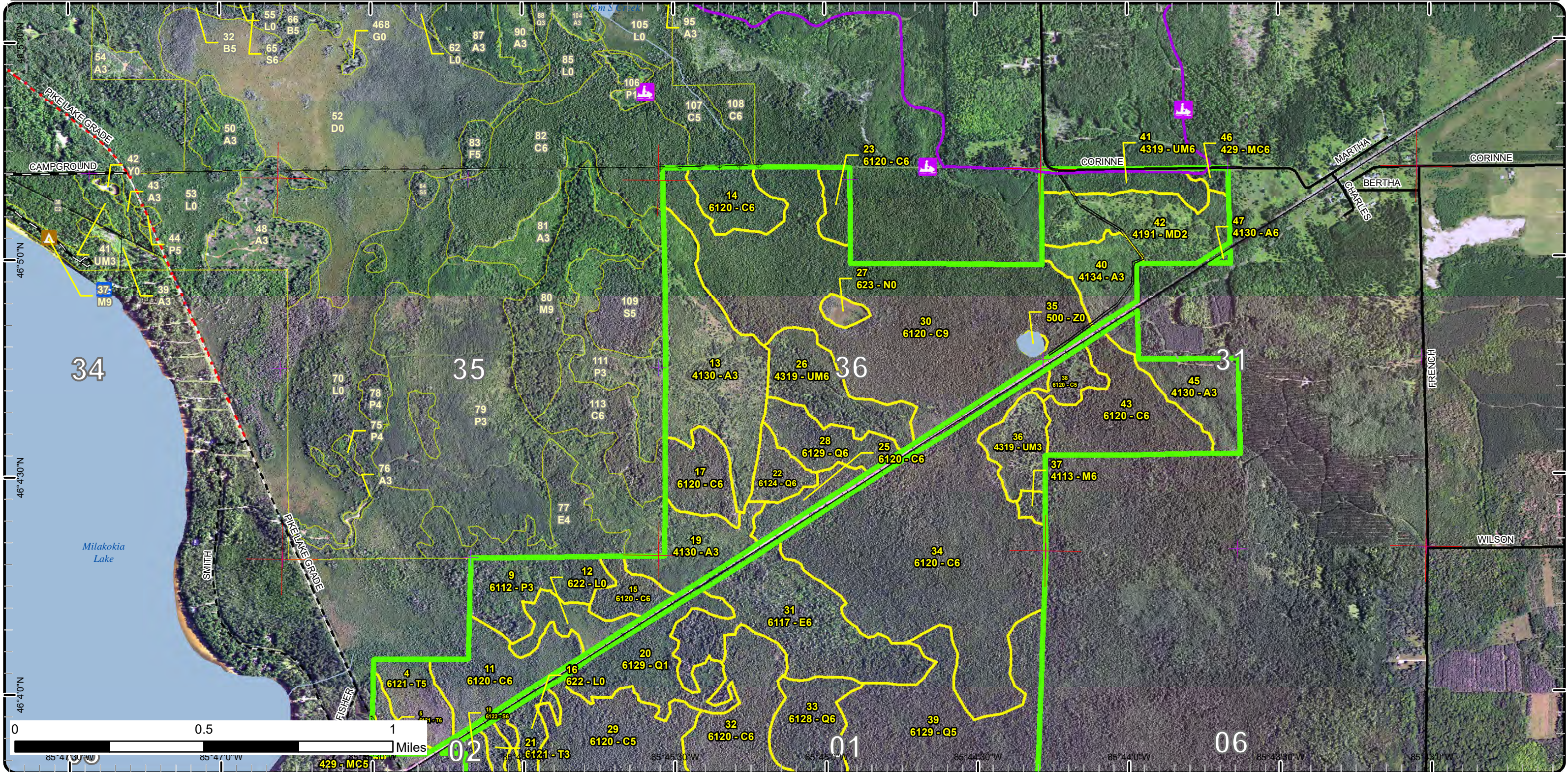


Stand Boundary Map

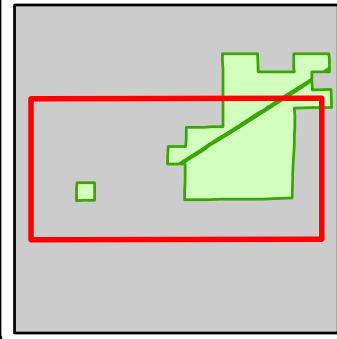
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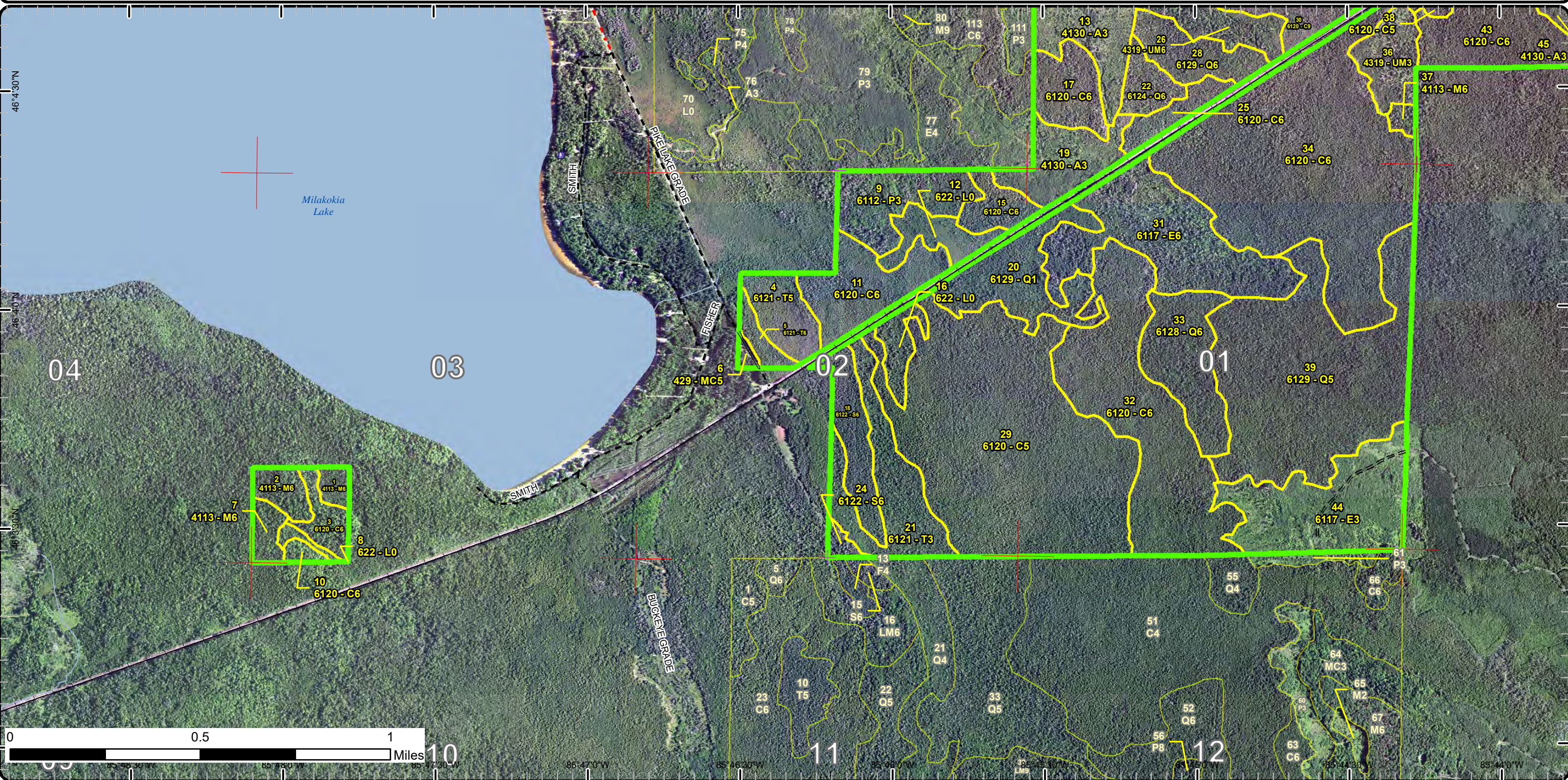


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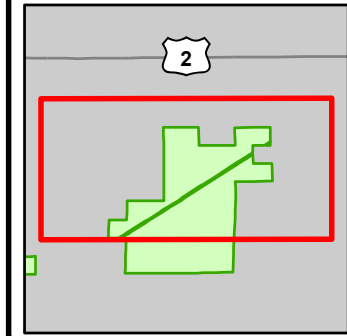
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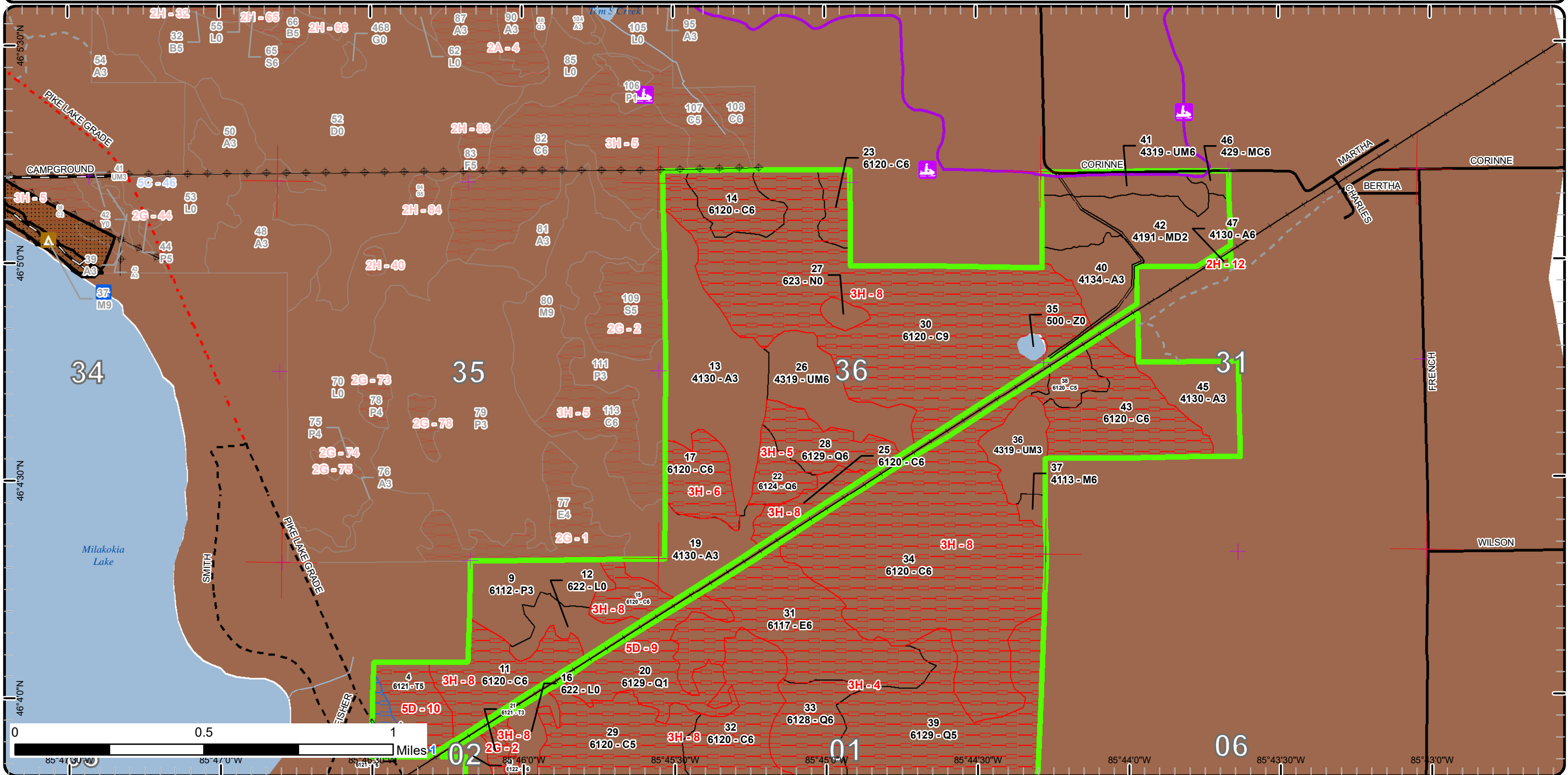


Special Conservation Areas

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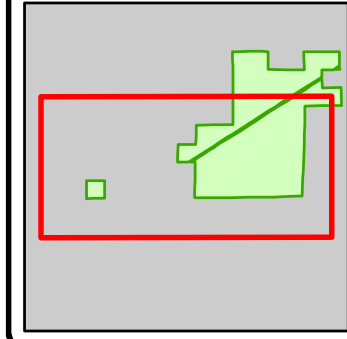


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- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Deer Winter Range
- State Forest Campground

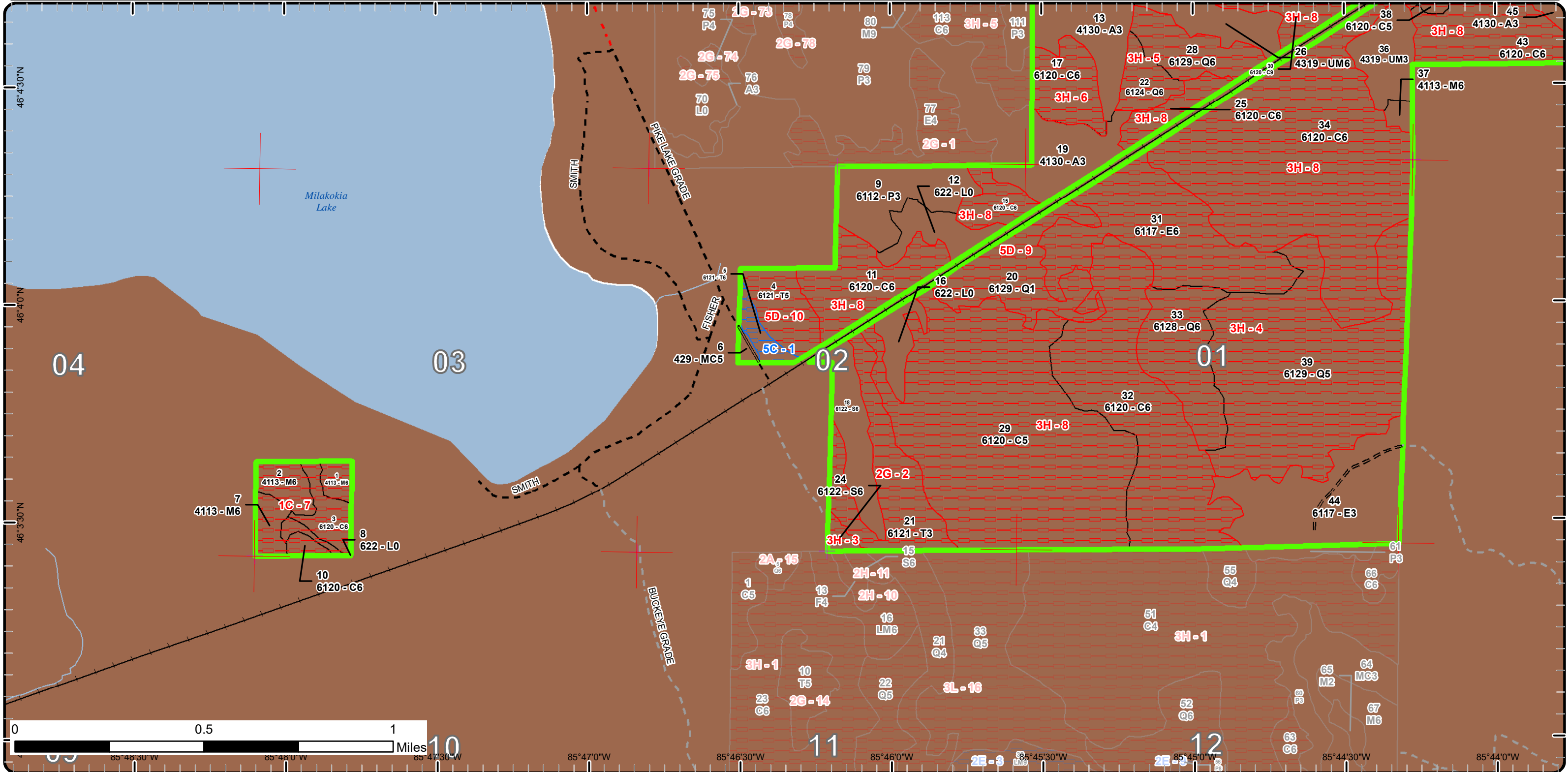


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- Perennial River
- Lakes and Rivers
- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 5D: Unproductive Forest Land
- ▭ Stand Boundaries
- ▭ Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment 189 Year of Entry 2023



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	24	104	30	0	0	0	1	0	0	0	0	0	0	0	0	0	159
Cedar	0	0	0	0	0	0	10	0	0	0	61	447	44	124	227	0	0	0	913
Lowland Aspen/Balsam Poplar	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Conifers	0	0	0	0	0	0	42	0	13	41	0	0	151	0	24	0	0	0	271
Lowland Deciduous	0	0	67	0	0	0	0	0	78	0	0	0	0	0	0	0	0	0	144
Lowland Shrub	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Spruce/Fir	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	28
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Northern Hardwood	0	0	0	0	0	0	0	0	0	3	23	0	0	0	0	0	0	0	26
Tamarack	0	0	0	0	0	0	45	7	20	0	0	0	0	0	0	0	0	0	72
Upland Conifers	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	21	36	0	19	0	0	0	0	0	0	0	0	0	0	0	76
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	37	0	91	206	66	0	2	120	35	112	44	84	447	195	124	251	0	0	1812



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2023

Compartment 189
Total Compartment Acres: 1,814

Acres of Harvest

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

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Mgt. Unit

Report 3 -- Treatments

Compartment:

Year of Entry:



Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Habitat
Cut

Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 189
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
1,814	449	7	1,358
	25%	0%	75%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions					
					5C	1C	2G	2H	3H	5D
159	158	0	1	Aspen				1	0	
914	0	0	914	Cedar		14			900	0
34	34	0	0	Lowland Aspen/Balsam Poplar						
271	0	0	271	Lowland Conifers					229	42
144	66	0	78	Lowland Deciduous					78	
30	27	0	3	Lowland Shrub		3				
28	24	0	4	Lowland Spruce/Fir					4	
5	5	0	0	Marsh						
46	46	0	0	Mixed Upland Deciduous						
27	3	0	23	Northern Hardwood		23				
72	0	7	65	Tamarack	7		45		0	20
6	6	0	0	Upland Conifers						
76	76	0	0	Upland Mixed Forest						
2	2	0	0	Water						
1,814	449	7	1,358	Total Forested Acres	7	40	45	1	1,210	62
	25%	0%	75%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage, wait for another stand to add to harvest.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Almost an unproductive stand.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 189
Year of Entry: 2023

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	270	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	1C: Other dept or div proc/practices	40	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Area is land locked by other private. No access for over 30 years. Put up for disposal.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 189
Year of Entry: 2023

8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	877	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5D: Unproductive Forest Land	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5D: Unproductive Forest Land	20	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Stand should have been harvested with other stands to the west. Might also be worth disposing.							

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
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Comments				
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Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	4113 - R.Maple, Conifer	Poletimber Well	5.2	101	51-80	N/A	Area should be put up for disposal. Inventory data is over 30 years old, no legal access. Historic photos back to '53 do not show active harvesting within the 40.																																													
2	4113 - R.Maple, Conifer	Poletimber Well	10.1	101	51-80	N/A	Area should be put up for disposal. Inventory data is over 30 years old, no legal access. Historic photos back to '53 do not show active harvesting within the 40.																																													
3	6120 - Lowland Cedar	Poletimber Well	11.1	106	51-80	N/A	Area should be put up for disposal. Inventory data is over 30 years old, no legal access. Historic photos back to '53 do not show active harvesting within the 40.																																													
4	6121 - Tamarack	Poletimber Medium	20.4	86	1-50	N/A	Very similar to the stand to the east but has a lot more tamarack. Not a productive stand and will not develop into an area that can be harvested.																																													
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5	6121 - Tamarack	Poletimber Well	7.1	73	1-50	N/A	Fairly dense tamarack stand between the road and small tamarack to the east.																																													
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Tamarack	65	Pole	6	73																																																
6	429 - Mixed Upland Conifers	Poletimber Medium	2.3	56	1-50	N/A	Opening and turn around area filing in with a mix of species.																																													
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7	4113 - R.Maple, Conifer	Poletimber Well	8.0	101	51-80	N/A	Area should be put up for disposal. Inventory data is over 30 years old, no legal access. Historic photos back to '53 do not show active harvesting within the 40.																																													
8	622 - Lowland Shrub	Nonstocked	2.7		Unspecified	No	Area should be put up for disposal. Inventory data is over 30 years old, no legal access. Historic photos back to '53 do not show active harvesting within the 40.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
9	6112 - Lowland Aspen	Sapling Well	33.8	20	1-50	N/A	A majority of this stand was cut in 2002 as part of the Whiskey Jug timber sale. There are a few larger trees in the western part of the stand that were left uncut because it was too wet to get to them. Regen in the areas cut is doing good.																																																															
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10	6120 - Lowland Cedar	Poletimber Well	3.3	117	51-80	N/A	Area should be put up for disposal. Inventory data is over 30 years old, no legal access. Historic photos back to '53 do not show active harvesting within the 40.																																																															
11	6120 - Lowland Cedar	Poletimber Well	37.2	111	1-50	N/A	Borderline between an lowland shrub type and cedar. Very Sparse cedar, small and of poor shape also.																																																															
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12	622 - Lowland Shrub	Nonstocked	16.0		Unspecified	No																																																																
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13	4130 - Aspen	Sapling Well	75.6	21	1-50	N/A	Stand was cut in 2000-2001. Was more of a mixed stand when cut but now is primarily aspen. There are areas of lower ground but not "wet". Good regeneration and diversity in the stand.																																																															
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14	6120 - Lowland Cedar	Poletimber Well	21.0	128	51-80	N/A	Wet stand with areas of open canopy. Some larger tamarack in stand with BA around 50-60.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
15	6120 - Lowland Cedar	Poletimber Well	13.5	127	51-80	N/A	Very wet, poor quality cedar, some are about a 8" diameter but most are around 4". Species other than cedar breaking up and falling out of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		30	Pole	7		Tag Alder		
Balsam Fir		5	Pole/Sapling	6		Medium		
Tamarack		5	Pole/Sapling	7		Variable		
Northern White Cedar		60	Pole/Sapling	7	127	Tall Shrub		
16	622 - Lowland Shrub	Nonstocked	11.2		Unspecified	No		
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Poplar		Low	>20 feet	Pole				
Northern White Cedar		Low	>20 feet	Pole				
Tamarack		Low	>20 feet	Pole				
17	6120 - Lowland Cedar	Poletimber Well	23.0	141	51-80	N/A	Fairly dense cedar. Browse line quite evident. No understory.	
Canopy Species		% Cover	Size Class	DBH	Age			
Balsam Fir		5	Pole/Sapling	7				
Tamarack		5	Pole	8				
Northern White Cedar		85	Pole/Log	8	141			
Paper Birch		5	Pole	7				
18	6122 - Black Spruce	Poletimber Well	24.0	71	51-80	N/A	Wet black spruce with tamarack. Fairly small diameter.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		10	Pole	7		Balsam Fir		
Black Spruce		60	Pole/Sapling	6	71	Low		
Balsam Fir		20	Pole	6		Variable		
Tamarack		10	Pole	7		Sapling		
						Black Spruce		
						Low		
						Variable		
						Sapling		
19	4130 - Aspen	Sapling Well	28.6	23	1-50	N/A	Stand was cut in 1999. Aspen regen is doing great. From the old notes, some over topping birch were left but they appear to all be down now.	
Canopy Species		% Cover	Size Class	DBH	Age			
Balsam Fir		10	Sapling	2				
Bigtooth Aspen		10	Sapling	3				
Quaking Aspen		60	Sapling	3	23			
Balsam Poplar		5	Sapling	3				
Paper Birch		10	Sapling	2				
Northern White Cedar		5	Pole/Sapling	7				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 6129 - Mixed Coniferous Lowland Forest Sapling Poor 41.8 61 1-50 N/A Lowland filling in, mainly on the edges of trees. Not a productive stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	35	Pole/Sapling	5	61	Bog Birch	Low	5 - 10 feet	Tall Shrub
Paper Birch	10	Sapling	3		Tag Alder	Low	10 - 20 feet	Tall Shrub
Black Spruce	15	Sapling/Pole	4					
Tamarack	35	Sapling/Pole	4					
Balsam Fir	5	Sapling/Pole	4					

21 6121 - Tamarack Sapling Well 44.7 66 1-50 N/A Wet sparse tamarack stand. Lots of little black spruce and tamarack. Tons of tag alder also. Not a very productive site.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole/Sapling	5		Tag Alder	High	Variable	Tall Shrub
Tamarack	60	Sapling/Pole	4	66				
Black Spruce	30	Sapling/Pole	3					

22 6124 - Lowland Spruce-Fir Poletimber Well 12.8 86 51-80 N/A Sparse black spruce and balsam poles with heavy balsam regen in more open areas. Species besides the cedar are falling out of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	6		Black Spruce	Low	< 5 feet	Sapling
Red Maple	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black Spruce	40	Pole/Sapling	6	86				
Paper Birch	10	Pole	7					
Tamarack	5	Pole/Log	9					

23 6120 - Lowland Cedar Poletimber Well 9.7 125 81-110 N/A Poor quality cedar, some with larger dbh. Scattered tamarack and black spruce. Some cedar regeneration and balsam. Species other than cedar are starting to fall out of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	6		Balsam Fir	Low	Variable	Sapling
Paper Birch	10	Pole/Log	9		Northern White Cedar	Low	Variable	Sapling
Northern White Cedar	50	Pole	8	125				
Balsam Fir	10	Pole/Sapling	5					
Red Maple	5	Pole/Sap/Log	9					
Balsam Poplar	15	Pole/Log	9					
Tamarack	5	Pole	8					

24 6122 - Black Spruce Poletimber Well 3.7 71 51-80 N/A Wet black spruce with tamarack. Fairly small diameter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	60	Pole	7	71	Black Spruce	Medium	Variable	Sapling
Balsam Fir	20	Pole	6		Balsam Fir	High	Variable	Sapling
Tamarack	20	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
25	6120 - Lowland Cedar	Poletimber Well	12.7	131	1-50	N/A	Poor quality cedar and tamarack stand. Very wet with heavy muck soils. Tamarack is 2-1 sticks, cedar one stick. no browse.																																																															
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26	4319 - Mixed Upland Forest	Poletimber Well	36.2	35	1-50	N/A	Lowland Mackinac Mix stand. It was cut in 1987. Variable stand, heavier conifer in the center of the stand. Healthy, no browse on cedar. Maintained small trail road through stand appears to come from stand 13.																																																															
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27	623 - Emergent Wetland	Nonstocked	4.7		Unspecified	No																																																																
28	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	23.7	144	1-50	N/A	Stand is fair quality. No deer browse on the smaller cedar. The more open areas contain the alder. Wet soils will keep the stand from putting on larger diameters.																																																															
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29	6120 - Lowland Cedar	Poletimber Medium	204.1	144	51-80	N/A	Wet stand with areas of more dense trees and then open. Old ice roads through the stand and show up where there is less BA. Filling in slowly.																																																															
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30	6120 - Lowland Cedar	Sawtimber Well	217.5	118	81-110	N/A	Variable cedar stand with dbh and BA. Cedar regeneration is found in areas of lower BA where some sunlight is getting to the ground. The regeneration of cedar and some fir is around 2 - 3 foot in height. Old ice roads scattered through stand. Species other than cedar starting to fall out of the stand.																																																																																	
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31	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	77.7	83	51-80	N/A	Access to this area would be difficult. Most of the mature trees are dead now and there is a fairly heavy flush of spruce, balsam and red maple now in the canopy. Cedar is okay and the other species are fair to poor quality. Many areas of dead trees, then areas of decent BA. This stand should have been harvested many years ago.																																																																																	
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32	6120 - Lowland Cedar	Poletimber Well	111.3	136	51-80	N/A	Decent cedar stand, some nice diameter poles. Old, noticeable browse line in some areas. Old ice roads through the stand.																																																																																	
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33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	41.2	92	51-80	N/A	Difficult access to the stand with a major road building effort through cedar from the south or crossing the tracks from the north. Neither one is a viable option for the timber in this stand which is quite poor. Most merchantable trees are dead. Understory coming up into merchant trees now, poor quality. Overstory is around 50 BA. This stand should have been harvested many years ago, lots of mortality.																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34	6120 - Lowland Cedar	Poletimber Well	189.3	113	81-110	N/A	Large variable cedar stand with some areas of decent regeneration. Stand is extremely wet in places. Cedar has no browse or deer sign.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		5	Pole/Sapling	5		Balsam Fir		Low	10 - 20 feet	Sapling
Tamarack		15	Pole	9		Northern White Cedar		Medium	Variable	Sapling
Paper Birch		10	Pole	6		Tag Alder		Low	Variable	Tall Shrub
Red Maple		5	Pole/Log	9						
Northern White Cedar		65	Pole	9	113					

35	500 - Water	Nonstocked	2.1		Unspecified	No	Really nice pond. Doesn't appear to be one that dries out annually.
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36	4319 - Mixed Upland Forest	Sapling Well	21.4	29	Immature	N/A	Upland Mackinac Mix stand. Regeneration is coming in well.			
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		10	Sapling	3						
Paper Birch		10	Sapling	3						
White Spruce		25	Sapling	3						
Quaking Aspen		10	Sapling	3						
Red Maple		15	Sapling	3						
Balsam Fir		30	Sapling	3	29					

37	4113 - R.Maple, Conifer	Poletimber Well	3.4	95	51-80	N/A	Small soft maple/conifer stand. Some cedar along edges.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		10	Pole	6		Balsam Fir		Low	Variable	Sapling
Paper Birch		10	Pole	8		Red Maple		Low	Variable	Sapling
Red Maple		70	Pole/Log	9	95					
Northern White Cedar		10	Pole	6						

38	6120 - Lowland Cedar	Poletimber Medium	10.2	66	1-50	N/A	Harvested at some point. Regeneration is decent for the wet ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		35	Pole/Log	9		Tamarack		Low	10 - 20 feet	Sapling
Black Spruce		10	Pole/Log	9		Bog Birch		Low	5 - 10 feet	Tall Shrub
Northern White Cedar		50	Pole/Log	8	66	Northern White Cedar		Low	5 - 10 feet	Sapling
Balsam Fir		5	Pole/Sapling	6		Red Osier Dogwood		Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 151.3 125 51-80 N/A Wet, poor quality stand. Species other than cedar are falling out of the stand. Old ice roads through the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	25	Pole/Sapling	7	125	Balsam Fir	Low	Variable	Sapling
Tamarack	10	Pole/Sapling	5		Black Spruce	Low	Variable	Sapling
Paper Birch	5	Pole/Sapling	6		Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar	35	Pole/Sapling	7	125				
Balsam Fir	20	Pole/Sapling	5					
Balsam Poplar	5	Pole/Sapling	6					

40 4134 - Aspen, Spruce/Fir Sapling Well 24.1 18 1-50 N/A Nice young aspen stand with pocketed conifer through the whole thing.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	3	
Tamarack	5	Sapling	3	
Paper Birch	5	Sapling	3	
Black Cherry	5	Sapling	3	
White Spruce	10	Sapling	3	
Quaking Aspen	60	Sapling	3	18
Green Ash	5	Sapling	3	

41 4319 - Mixed Upland Forest Poletimber Well 18.7 61 51-80 N/A Upland Mackinac mix stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Pole	8	
Red Pine	5	Log	14	
Balsam Fir	25	Pole/Sapling	6	61
Green Ash	5	Pole/Log	8	
Paper Birch	5	Pole/Log	9	
White Pine	5	Log/Pole	10	
Red Maple	15	Pole/Log	9	
White Spruce	15	Pole/Sapling	6	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 46.5 26 1-50 N/A Good mix of species with heavy soils making access road poor. Species are fair quality. Pockets of conifers and then pockets of aspen. Areas of more open field like stand.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	10	Sapling/Pole	4	
Tamarack	5	Sapling/Pole	3	
Balsam Fir	10	Sapling/Pole	4	
Red Maple	10	Sapling/Pole	3	
White Pine	10	Pole/Sapling	7	
Bigtooth Aspen	10	Pole/Sapling	4	
Black Spruce	5	Sapling	3	
Quaking Aspen	25	Pole/Sapling	5	26
Paper Birch	10	Sapling/Pole	4	
Green Ash	5	Pole/Sapling	5	

43 6120 - Lowland Cedar Poletimber Well 50.1 105 81-110 N/A Nice cedar stand. Not a lot of browsing activity. High basal area 200+ in clumped out areas. No browse because cedar is 4+ sticks before branches. Good closed canopy with no deer. All species besides cedar max age and falling apart.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Log/Pole	10	
Northern White Cedar	75	Pole	9	105
Tamarack	5	Log	14	
Black Spruce	10	Pole	7	
Balsam Poplar	5	Pole/Log	9	

44 6117 - Lowland Deciduous, Mixed Coniferous Sapling Well 66.5 14 1-50 N/A Wet Mackinac Mix regen. Stand is regenerating nicely.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	2	14
Black Spruce	10	Sapling	2	
Red Maple	10	Sapling	2	
White Spruce	10	Sapling	2	
Paper Birch	20	Sapling	2	
Northern White Cedar	10	Pole	7	
Quaking Aspen	20	Sapling	2	14
Balsam Poplar	10	Sapling	2	

45 4130 - Aspen Sapling Well 30.2 37 1-50 N/A Nice aspen regen, it is getting to be borderline between sapling and poles.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling	3	37
White Spruce	5	Sapling	2	
Paper Birch	5	Sapling	3	
Balsam Fir	10	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 429 - Mixed Upland Conifers Poletimber Well 3.6 61 51-80 N/A

Old opening filling in, with all species having the open grown look. Snowmobile trail is in the west part of the stand near the county road.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Pole	7	
Red Pine	2	Log/Pole	10	
Paper Birch	5	Pole	8	
Black Cherry	2	Pole/Sapling	7	
White Pine	56	Pole/Log	9	61
Balsam Fir	5	Pole/Sapling	6	
White Spruce	5	Pole	8	
Red Maple	5	Pole/Sapling	6	

47 4130 - Aspen Poletimber Well 0.6 87 51-80 N/A

Nice little aspen stand, blocked by railroad tracks and adjacent landowner. not big enough to deal with. sell to adj LO, they cut their property.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole/Sapling	6	
Green Ash	15	Log	14	
Quaking Aspen	60	Pole/Log	8	87
Red Maple	10	Pole/Sapling	7	
Bigtooth Aspen	10	Pole/Log	9	