



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45013

Entry Year 2018

Acreage: 1,655

County Chippewa

Management Area: Drummond Island

Revision Date: 2016-07-27

Stand Examiner: Jeff Wise

Legal Description:

T41N R5E, Sections 4, 9, 10, 11, 12, 13, 14, 15

Identified Planning Goals:

Historically, this compartment is primarily deer yard and is managed as such. Limited treatments may occur in the mature aspen stands that are not receiving much deer yard influence, thus regeneration and sustainability should be maximized. Most of the compartment consists of mature and immature cedar stands with an aspen component. Much of the compartment has very old cedar stands with mature white and red pine which sets the criteria for potential old growth and biodiversity.

Soil and topography:

Shelter-Posen-Summerville: deep and shallow, level to steep poorly drained and well drained, loamy soils on ground moraines and glacial lake benches. Topography is gently rolling to flat with lower wet areas. Potagannissing-Rock outcrop-Summerville: Exposed limestone bedrock and shallow, level to steep, poorly drained and well drained, loamy soils on ground moraines and glacial lake benches in the north part of the compartment. Shelter-Posen-Summerville: similar to above but a deeper soil in the south part of the compartment.

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

The compartment is two blocks separated and surrounded by private land, mostly summer homes. Some hunting camps on the private parcels within and surrounding the compartment. Land use is hunting, snowmobile trail riding, and wildlife management. Drummond Dolomite owns and quarries land to the north.

Unique Natural Features:

Less than one mile of Great lakes shoreline on Huron Bay, primarily deer yard. Borders several inland lakes. Has the potential for certain T & E species. See the MNFI website for details.

Archeological, Historical, and Cultural Features:

Nothing known at this time.

Special Management Designations or Considerations:

Deer yard compartment. This compartment is nominated as an SCA, Special Conservation Area due to Forest Certification requirements, therefore most stand are coded SC8.

Watershed and Fisheries Considerations:

This compartment contains part of Baileys Lake and some Lake Huron coastline. We do not have any Fisheries data on Baileys Lake. A small buffer zone should be left next to the lake to provide large woody debris recruitment. Prescribed activities are appropriate for protection of this lake.

Wildlife Habitat Considerations:

This compartment is part of the Drummond Island Management Area where featured wildlife species include black bear,

snowshoe hare, white-tailed deer, ruffed grouse, sharp-tailed grouse, and northern goshawk. The compartment is located on the southwest end of the island; stands in the compartment are located west, south, and east of the quarry. The compartment is part of the deer wintering complex, and is also close to the Lake Huron shoreline. Cedar is common. It is a dominant canopy species in many stands and a component in most remaining stands. The cedar provides cover for wintering deer in many locations. Cedar stands near the shoreline are also important for migratory songbirds for resting and feeding sites, and are also important for a variety of other species. Other tree species that either mix in the cedar stands or are components of deciduous and mixed stand types include aspen, maple, balsam fir, white spruce, and white pine.

Cedar and other lowland conifer stands will be left untreated to maintain the winter cover for deer and to provide various habitat values for other species. Many stands are relatively large and will provide habitat corridors that will benefit black bears. Some deciduous and mixed stands will be treated to encourage new growth, which will maintain the aspen and other early successional species as well as provide cover low to the ground. This will benefit deer, ruffed grouse, snowshoe hare, and black bear. Cedar will be left in these stands to promote diversity and retain any cover components. Activities in this compartment should remain consistent with the Drummond Island Comprehensive Resource Management Plan (Nov. 2015).

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and thin to discontinuous glacial deposits over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/dolomite on the north border of the Compartment. Gravel pits are not known in the area and potential is unknown. There is no current economic oil and gas production in the UP.

Vehicle Access:

Cream City Point Rd bisects the west block and Kilstrom Rd bisects the east block. One narrow two track to Helen's Lake.

Survey Needs:

Section 11 SE1/4, Section 12 SW1/4

Recreational Facilities and Opportunities:

The snowmobile trail goes through the compartment. Hunting is a primary activity also. No ORV trails. There are many camps and summer homes in the area.

Fire Protection:

Vehicle access is good and water sources are sufficient. Structure protection would be a concern for the camps and summer homes on private land.

Additional Compartment Information:

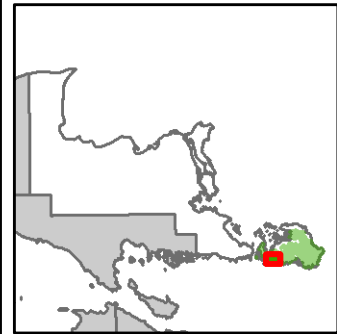
The following reports from the Inventory are attached:

- 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:

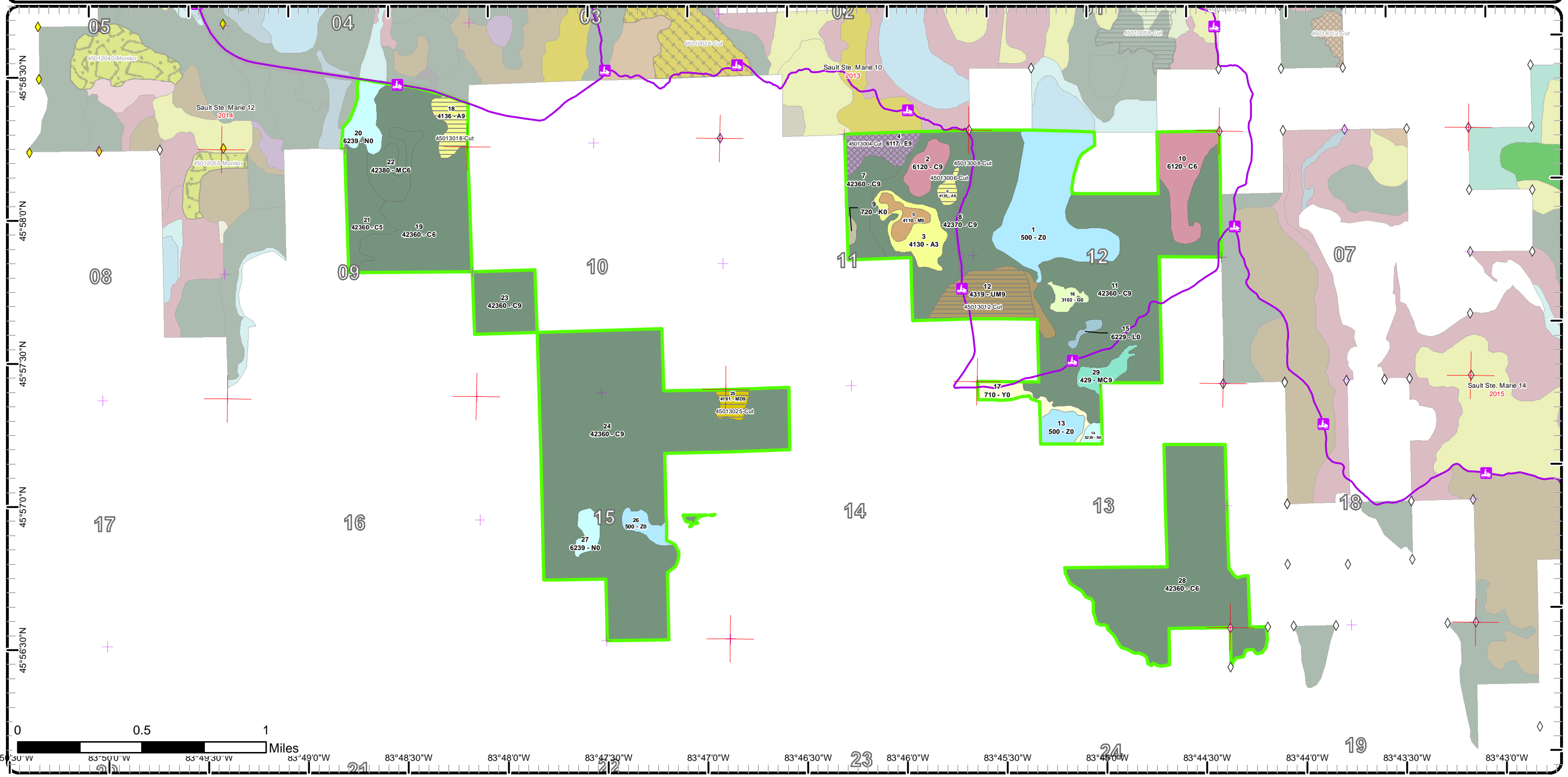
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



Compartment: 13
 T41N, R05E, Sec: 04, 09-15
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2018
 Acres: 1,655 GIS Calculated
 Examiner: Jeff Wise
 Map Revised: 12/6/2016
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- ▭ Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Other Harvest - See Comments
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil
- 720 - Exposed Rock

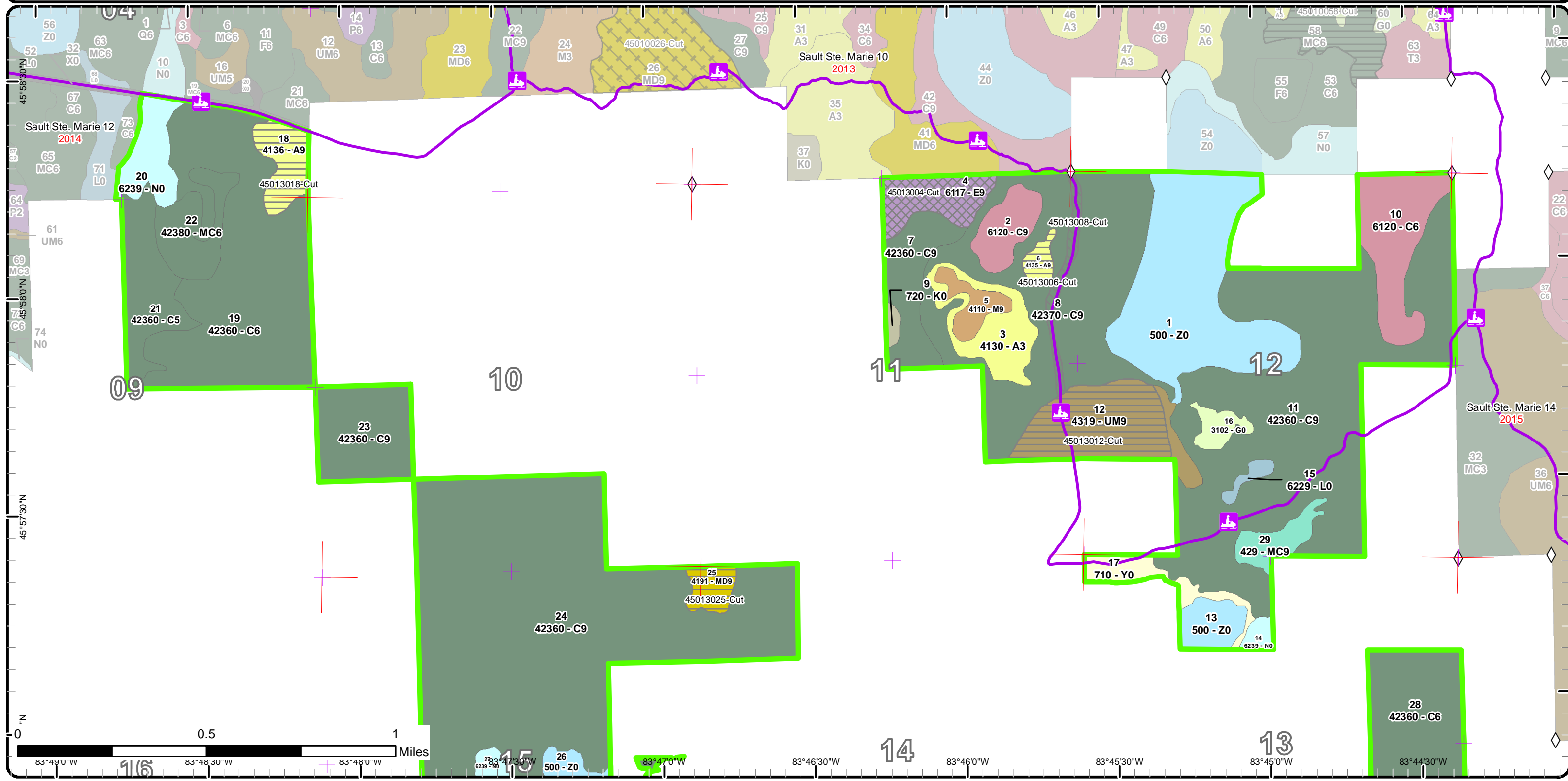


Cover Type & Treatments Map



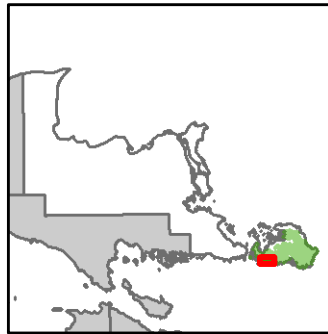
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- | | |
|----------------------------------|---------------------------------|
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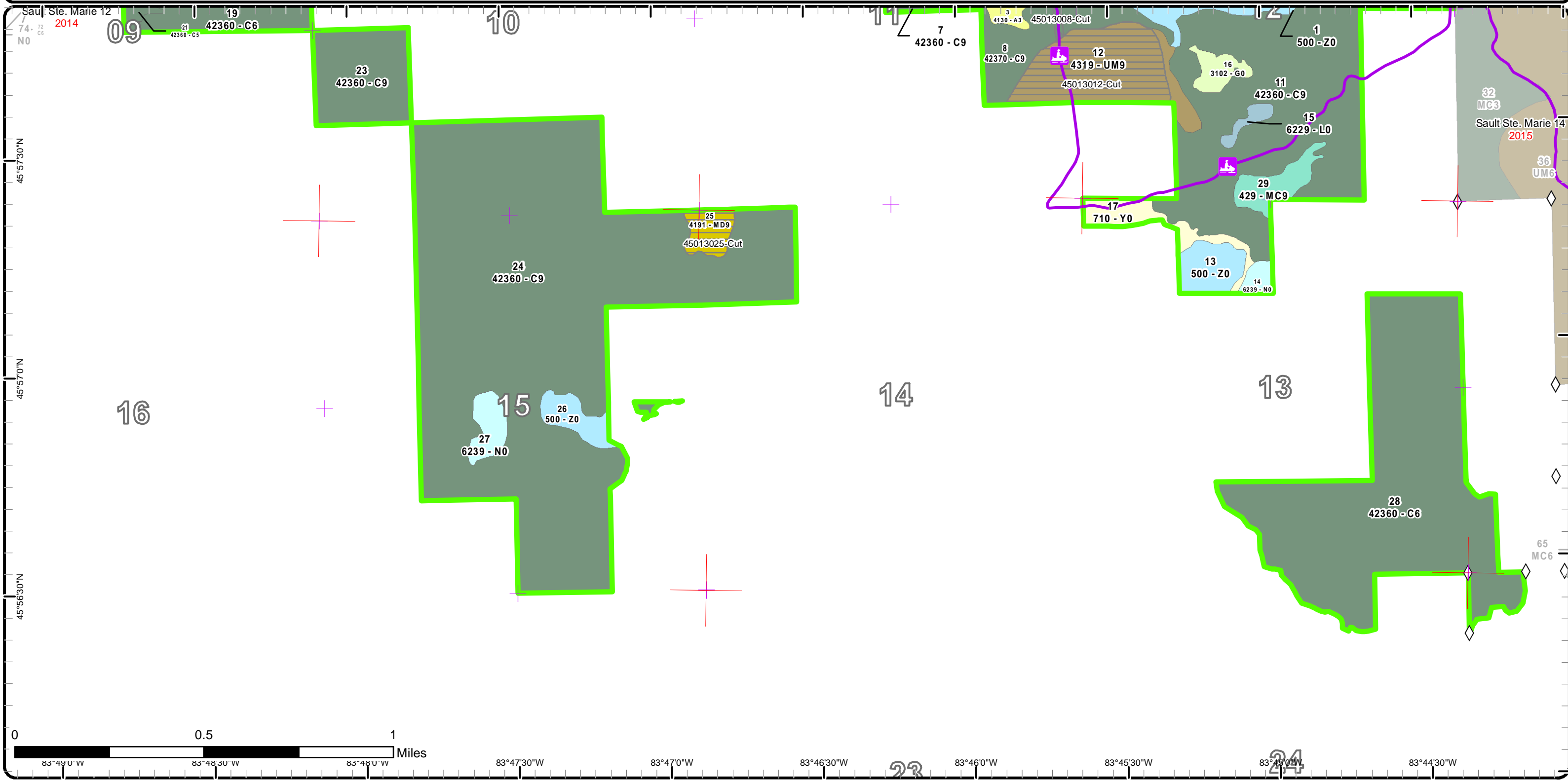


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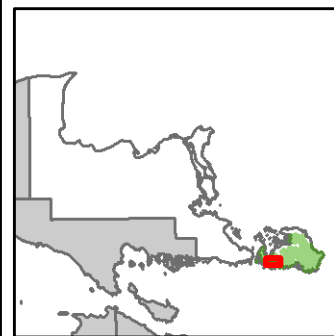


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Stand Boundary Map

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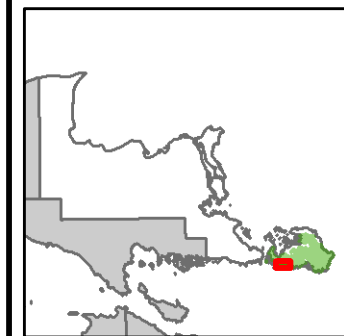


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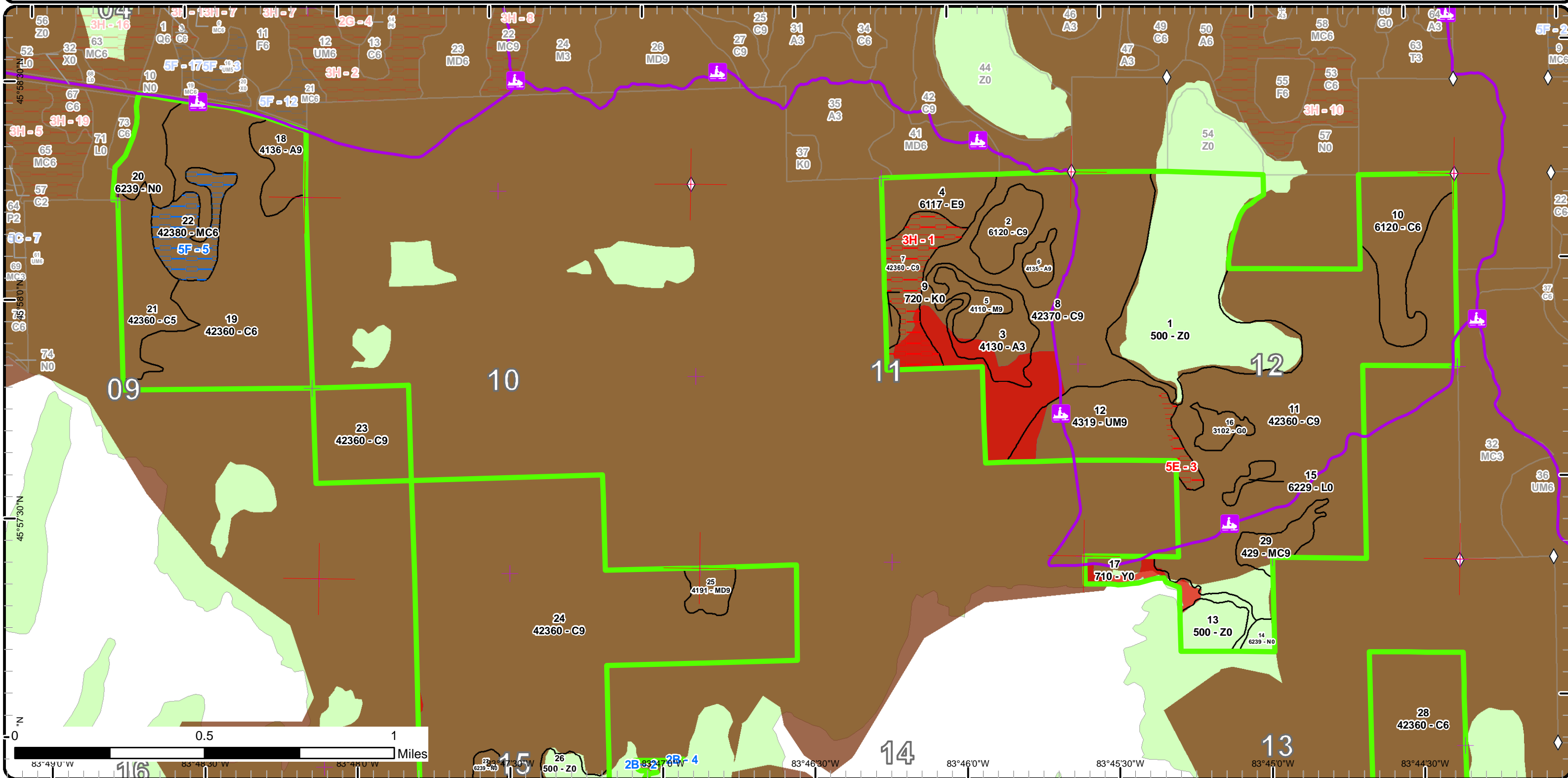


Special Conservation Areas & Site Conditions Map

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- ◇ Field Grade GPS Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 3H: Deer Wintering Areas
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Deer Winter Range
- Great Lakes Islands

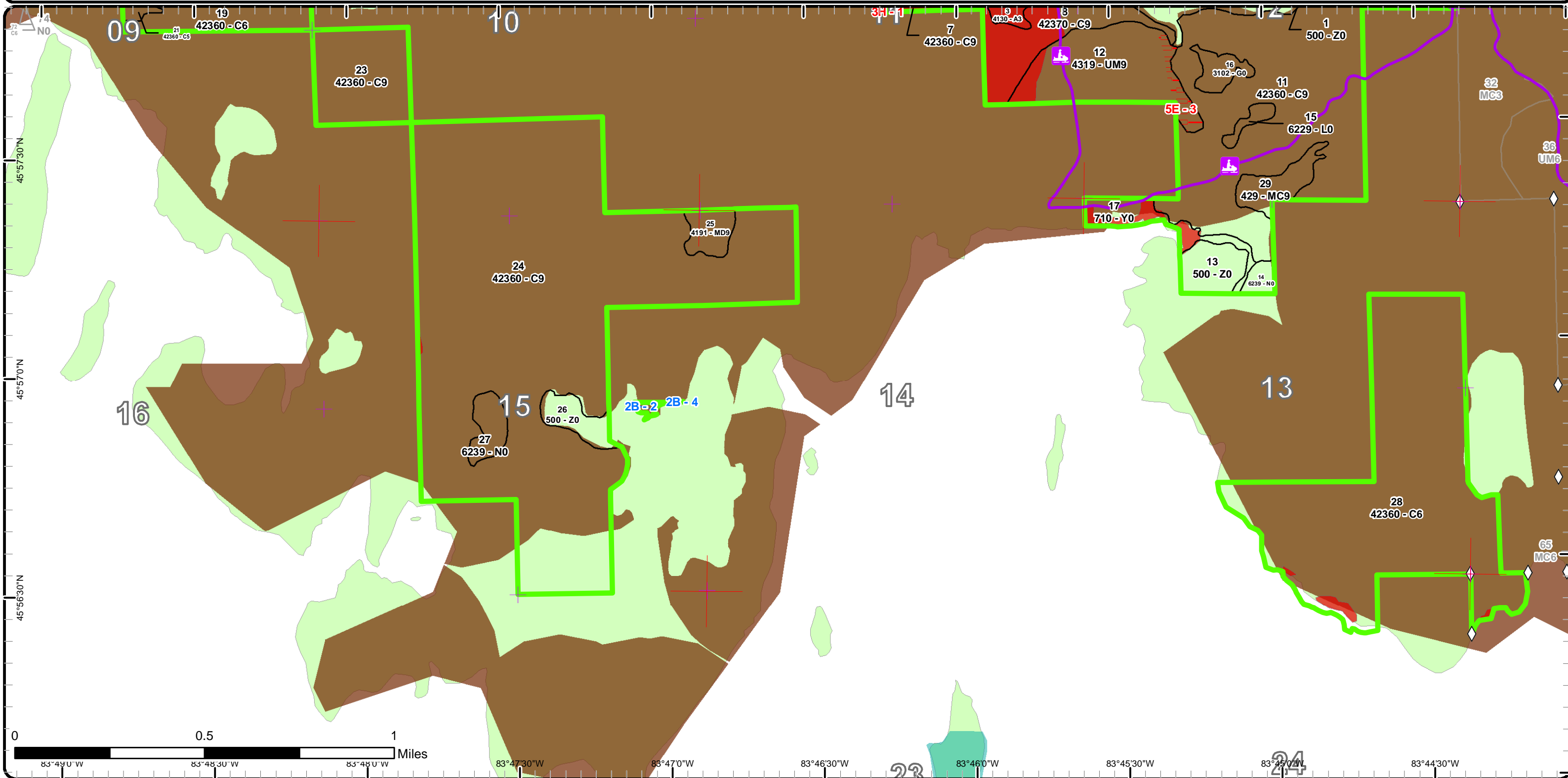


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- Stand Boundaries
- Ecological Reference Areas
- Coastal Environmental Areas
- Deer Winter Range
- Great Lakes Islands



Report 1 – Total Acres by Cover Type and Age Class



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	24	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	5	46
Cedar	0	0	0	0	0	0	0	0	33	0	0	139	41	483	0	183	0	417	1295
Exposed Rock	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Marsh	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10
Sand, Soil	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Conifers	0	0	0	0	0	0	0	0	12	24	0	0	0	0	0	0	0	0	36
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	50
Water	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Total	186	24	0	0	0	0	0	0	45	24	0	228	41	483	0	193	0	431	1653



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2018

Compartment 13
Total Compartment Acres: 1,655

Acres of Harvest

Commercial Harvest - 105
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	22	0	0	0	0	0	0	0	0	22
Cedar	0	0	0	0	0	0	0	8	0	8
Lowland Deciduous	0	21	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	44	0	0	0	0	0	0	0	0	44
Total	75	21	0	0	0	0	0	8	0	105

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	105	0	0	0	0	0	0	0	0	105
Next Step	0	0	0	0	0	97	0	0	0	97
Total	105	0	0	0	0	97	0	0	0	201



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	Approval Status
4	45013004-Cut	21.3	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	101	111-140	Harvest	Single Tree Selection	611 - Lowland Deciduous Forest	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Harvest all trees marked with paint, winter cut to benefit wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Present species acceptable.

Regen:

Other Cut with C10 st 41 in 2023 YOE.

Comment:

Proposed Start Date: 10/01/2022

6	45013006-Cut	5.2	4135 - Aspen, Cedar	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest all species except cedar groves, oak, hemlock, and pine if any in stand. Winter cut to benefit wintering deer, (Dec 1 to March 31). Cedar not in groves or clumps may be cut. Leave brush piles for hare.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Present species acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

8	45013008-Cut	8.4	42370 - Upland Cedar, Aspen	Sawtimber Well	141	111-140	Harvest	Other - Specify	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all aspen and white spruce within processor reach on both sides of trail for maintenance of mature/hazard trees. Cut between March 31 and December 1. Add to stand 12 sale.

Specs:

Next Step

Treatments:

Acceptable no regen desired.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

12	45013012-Cut	44.4	4319 - Mixed Upland Forest	Sawtimber Well	105	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest all species except pine and cedar groves to provide young early successional growth for deer, ruffed grouse, and other wildlife while maintaining diversity in the stand. Do not reach into cedar pockets to cut other species so closed canopy cover is maintained where it exists. Buffer wetlands on east side for retention. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Cedar not in clumps or groves may be cut. Leave brush piles for hare.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Present species acceptable.

Regen:

Other

Comment: Work with wildlife staff to put in lines around cedar stand. Treatment acres may change during sale prep.

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
18 45013018-Cut	16.7	4136 - Aspen, Mixed Conifer	Sawtimber Well	101	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Cut all species except cedar groves, oak, pine, and any yellow birch to provide young early successional growth for deer, ruffed grouse, and other wildlife while maintaining diversity in the stand. Do not reach into cedar pockets to cut other species so closed canopy cover is maintained where it exists. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Cedar not in clumps or groves may be cut. Leave brush piles for hare.

Next Step Monitoring, Natural Regen (Re-Inventry)
Treatments:

Acceptable present species acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

25 45013025-Cut	8.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	101	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Harvest all trees except cedar groves, oak, hemlock, pine, or yellow birch in winter (Dec 1-March 31). Cedar not in clumps or groves may be cut.
Specs: Leave brush piles for hare.

Next Step Monitoring, Natural Regen (Re-Inventry)
Treatments:

Acceptable Present species acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 104.9

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 13

Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2B	5F	3H	5E
		With Condition	Not Available					
46	46	0	0	Aspen				
1296	1266	1	29	Cedar	1		29	
2	2	0	0	Exposed Rock				
7	7	0	0	Herbaceous Openland				
21	21	0	0	Lowland Deciduous				
3	3	0	0	Lowland Shrub				
32	32	0	0	Marsh				
9	9	0	0	Mixed Upland Deciduous				
10	10	0	0	Northern Hardwood				
14	14	0	0	Sand, Soil				
35	12	23	0	Upland Conifers		23		
50	44	0	6	Upland Mixed Forest				6
128	128	0	0	Water				
1,655	1,596	25	35	Total Forested Acres	1	23	29	6
	96%	2%	2%	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	3H: Deer Wintering Areas	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Jeff Wise : Examiner

Compartment: 13
Year of Entry: 2018

3	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5F: Evaluated for Forest Health Considerations	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
	Potential Old Growth		SCA Removal	1
Comments Already a SCA - Deer wintering complex.				
	Potential Old Growth		SCA Removal	4
Comments Already a SCA - Deer wintering complex.				
	Potential Old Growth		SCA Removal	40
Comments Already a SCA - Deer wintering complex.				
	Potential Old Growth		SCA Removal	170
Comments SCA - Deer wintering complex. Remove "other SCA" category, as now correctly coded.				
	Potential Old Growth		SCA Removal	222
Comments Already a SCA - Deer wintering complex.				
	Potential Old Growth		SCA Removal	443
Comments SCA - Deer wintering complex. Remove "POG" coding - does not meet criteria and now correctly coded.				
	Potential Old Growth		SCA Removal	670
Comments SCA - Deer wintering complex. Remove "other SCA" and "POG" coding as now correctly coded.				



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	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.
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.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	Sawtimber Well	16.4	141	111-140	Lower ground cedar swamp.
3	4130 - Aspen	Sapling Well	24.1	3	Immature	Sale 45-006-08-01, cedar reserved.
4	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	21.3	101	111-140	Interesting and unique stand, typed as E but looks like M, nice large Yellow Birch as well as Black Ash pulp, R. Maple and Basswood, and S Maple logs, a few pine and hemlock.
5	4110 - Sugar Maple Association	Sawtimber Well	10.3	141	51-80	Select cut in 2013- sale 45-006-08-01.
6	4135 - Aspen, Cedar	Sawtimber Well	5.2	100	81-110	Small high ground knob of upland types, mostly aspen and maple.
7	42360 - Upland Cedar	Sawtimber Well	29.0	141	81-110	Very rocky, and has more diversity than st8.
8	42370 - Upland Cedar, Aspen	Sawtimber Well	137.8	141	111-140	Snowmobile trail in stand, most of stand very mature.
10	6120 - Lowland Cedar	Poletimber Well	40.5	111	111-140	Lower ground Cedar swamp.
11	42360 - Upland Cedar	Sawtimber Well	236.1	120	111-140	Was several stands in the OI system, snowmobile trail on the main road.
12	4319 - Mixed Upland Forest	Sawtimber Well	50.5	105	81-110	Treatment period 0 last time around in OI, very mature and not providing much deer cover, mostly open understory, without much cedar. scattered r & w pine. Snowmobile trail in stand.
18	4136 - Aspen, Mixed Conifer	Sawtimber Well	16.7	101	81-110	Pretty junky stand, mature aspen/ birch mostly, less hardwood but some oak, some deer yard influence, sale access would be through quarry, deer browse on hdwd regen.
19	42360 - Upland Cedar	Poletimber Well	138.8	100	81-110	Aspen poor quality and unmerchantable.
21	42360 - Upland Cedar	Poletimber Medium	33.0	79	1-50	Upland Cedar and Spruce, poor quality site, much more sparse than stand 19.
22	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	23.5	80	81-110	Upland Cedar, Spruce, Aspen, rocky, like stand 19 with more aspen.
23	42360 - Upland Cedar	Sawtimber Well	40.6	122	111-140	Was two stands, has lowland balm/aspen in the middle with standing water at this date.
24	42360 - Upland Cedar	Sawtimber Well	417.4	156	111-140	Cedar with mixed pine and aspen, south part is lower with more cedar and white pine. Was several stands under the OI system, also combined with a small ownership on Gravel lake.

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Sault Ste. Marie Mgt. Unit

Report 7 – Forested Stands

Compartment: 13
Year of Entry: 2018



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.9	101	81-110	Small hardwood area in stand 24, with more aspen/birch.
28	42360 - Upland Cedar	Poletimber Well	206.7	125	81-110	Was several stands in the OI system, land-locked, has upland and lowland, north part has the most aspen, has some Lake Huron shoreline, and about an acre of Knutson Lake.
29	429 - Mixed Upland Conifers	Sawtimber Well	11.9	76	81-110	This was an A9 stand in OI. Very mature red pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	500 - Water	104.3	No	Bailey Lake
9	720 - Exposed Rock	2.4	No	Quarry trespass in the 80's , quarry spoils
13	500 - Water	13.3	No	Helens Lake
14	6239 - Mixed Emergent Wetland	4.0	No	Marsh, wet and dry at times.
15	6229 - Mixed lowland shrub	3.4	No	
16	3102 - Grass	6.9	No	Open Alvar type stand, exposed rock with sedges, lichens, and Junipers, along with Cedar and Spruce clumps, really cool spot.
17	710 - Sand, Soil	14.0	No	Shoreline around Helens Lake and Huron Bay , flat-rock, corners on the west are in, water is 100 feet south of corner, provides public access to Huron Bay.
20	6239 - Mixed Emergent Wetland	19.5	No	Just a plain ole marsh
26	500 - Water	10.0	No	Part of Gravel Lake
27	6239 - Mixed Emergent Wetland	8.9	No	A marsh.