



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45005

Entry Year 2020

Acreage: 1,904

County Chippewa

Management Area: Drummond Island

Revision Date: 2018-07-20

Stand Examiner: Josh Brinks

Legal Description:

T42N R7E, Sec 15, 16, 21, 22, 25 - 28

Identified Planning Goals:

To develop an optimal age class distribution of aspen stands for sustainable forestry and wildlife values. To rotate hardwood treatments for optimum regeneration and stocking of all age classes. Maintain current openings as needed for diversity and enhancement of wildlife benefits. To provide reasonable public access for multiple use benefits such as hunting, trail riding, camping, and hiking, while protecting the natural resources. Past management has been concentrated in the south part and has been successfully completed. The north part has limited access through private land and has not been harvested in the recent past.

Soil and topography:

Shelter-Posen-Summerville Association, very deep and shallow, nearly level to very steep, somewhat poorly drained and well drained, loamy soils on ground moraines and glacial lake benches.

Markey Dawson Association, very deep, nearly level, very poorly drained, mucky and peaty soils on outwash plains, lake plains, and ground moraines. Generally, the land is rolling with gravel pits, rocky areas, and a good amount of Great lakes shoreline.

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

A contiguous block of State ownership with one large block of private land centrally located, leaving the northern portion of the compartment virtually inaccessible by vehicle. Private land borders the north, Lake Huron on the east, Fourth Lake on the west and additional State land on the south. There are no developments save a few hunting camps, and land use is hunting and sight seeing.

Unique Natural Features:

A scenic beach known as Glen Cove attracts people from all over.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

Northern Shrub Thicket ERA and Mesic Northern Forest ERA both located in the northern part of the compartment. Limestone Cobble Shore ERA is located along the shoreline.

Watershed and Fisheries Considerations:

This compartment contains Lake Huron shoreline as well as all or part of Third and Fourth Lakes, which are part of the Potagannissing River system. These lakes provide important spawning and nursery habitat for northern pike. Best management practices, including the 100-foot buffer, are protective of these waterbodies.

Wildlife Habitat Considerations:

This compartment is part of the Drummond Island MA; featured wildlife species include black bear, northern goshawk, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. The compartment contains a variety of cover types ranging from openings to conifers and wetland habitats. The eastern boundary of the compartment is the Lake Huron shoreline. Much of the shoreline is rock and cobble, and a limestone cobble shore ERA is present. The northern part of the compartment contains a northern shrub thicket ERA and a mesic northern forest ERA. These areas will be protected to maintain their characteristics and allow natural processes to occur. Some northern hardwood stands will be treated to promote age and structural diversity within them for hawks, bear, and other wildlife. Some aspen stands will be harvested to promote young early successional habitat for ruffed grouse, woodcock, and snowshoe hare. Openings provide habitat for openland species like sharp-tailed grouse as well as feeding areas for others like deer. One larger

opening is part of a larger openings complex, and treatments are intended to maintain the opening to support these species. Wetlands will be left to support beaver, muskrat, waterfowl, and other wetland wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of thin to discontinuous glacial till over bedrock and peat and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Burnt Bluff Group, Cabothead Shale and Manitoulin Dolomite and the Ordovician Queenston Shale subcrop below the glacial drift. The Burnt Bluff is quarried for stone and the Manitoulin could be used for stone/dolomite. Gravel pits are not known in the area and potential is limited. There is no current economic oil and gas production in the UP.

Vehicle Access:

The main access to this compartment is a well maintained county road, called either Sheep Ranch Rd or Glen Cove Rd depending on your source of info. Once at Glen Cove, the road turns to a rocky off road trail and is accessible only with good ground clearance or four wheel drive.

Survey Needs:

Possibly Sec 15 and 16 for timber sales.

Recreational Facilities and Opportunities:

The snow trail runs along the lakeshore trail. Glen Cove is a nice beach for swimmers and campers. Hunting, camping, and nature watching are the predominant opportunities for people to enjoy this area. Designated ORV trails wind around various areas as well.

Fire Protection:

Glen Cove Road provides good access to most areas in the south portion of the comp. The north part could be accessed through the private hunting camp via Colton Bay Rd. A few other two tracks provide additional limited access. Water sources are plentiful with Lake Huron readily accessible.

Additional Compartment Information:

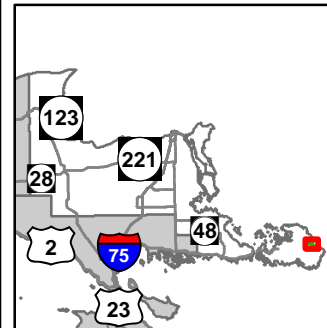
The following reports from the Inventory are attached:

- 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:

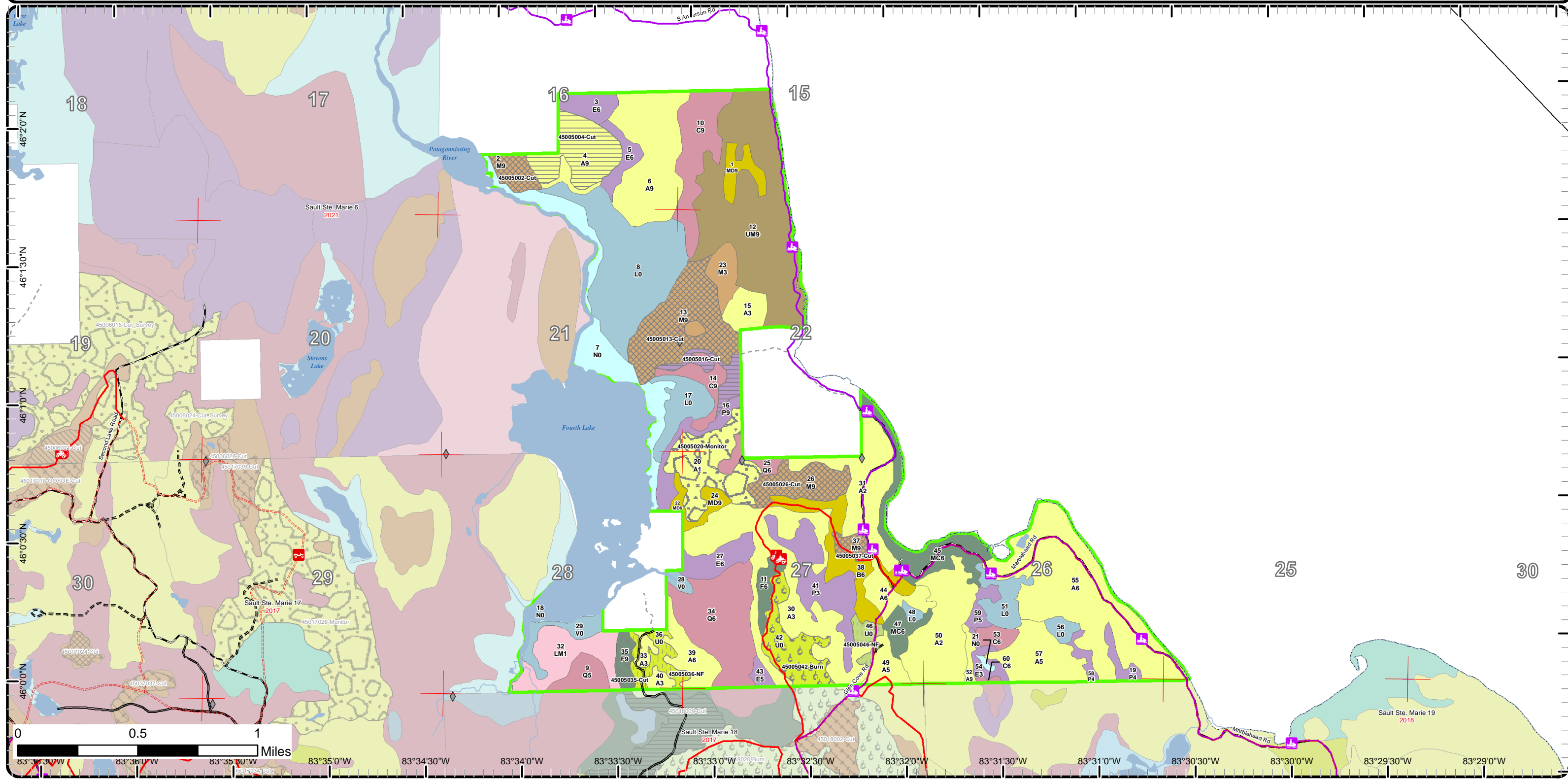
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

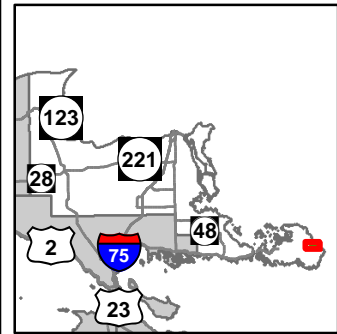


Compartment: 5
 T42N, R07E, Sec: 15, 16, 21, 22,
 26-28
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2020
 Acres: 1,904 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 12/3/2018
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚲 ORV Trails
- 🚲 Snowmobile Trails
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- Designated ORV Route
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Salvage
- Prescribed Burn
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

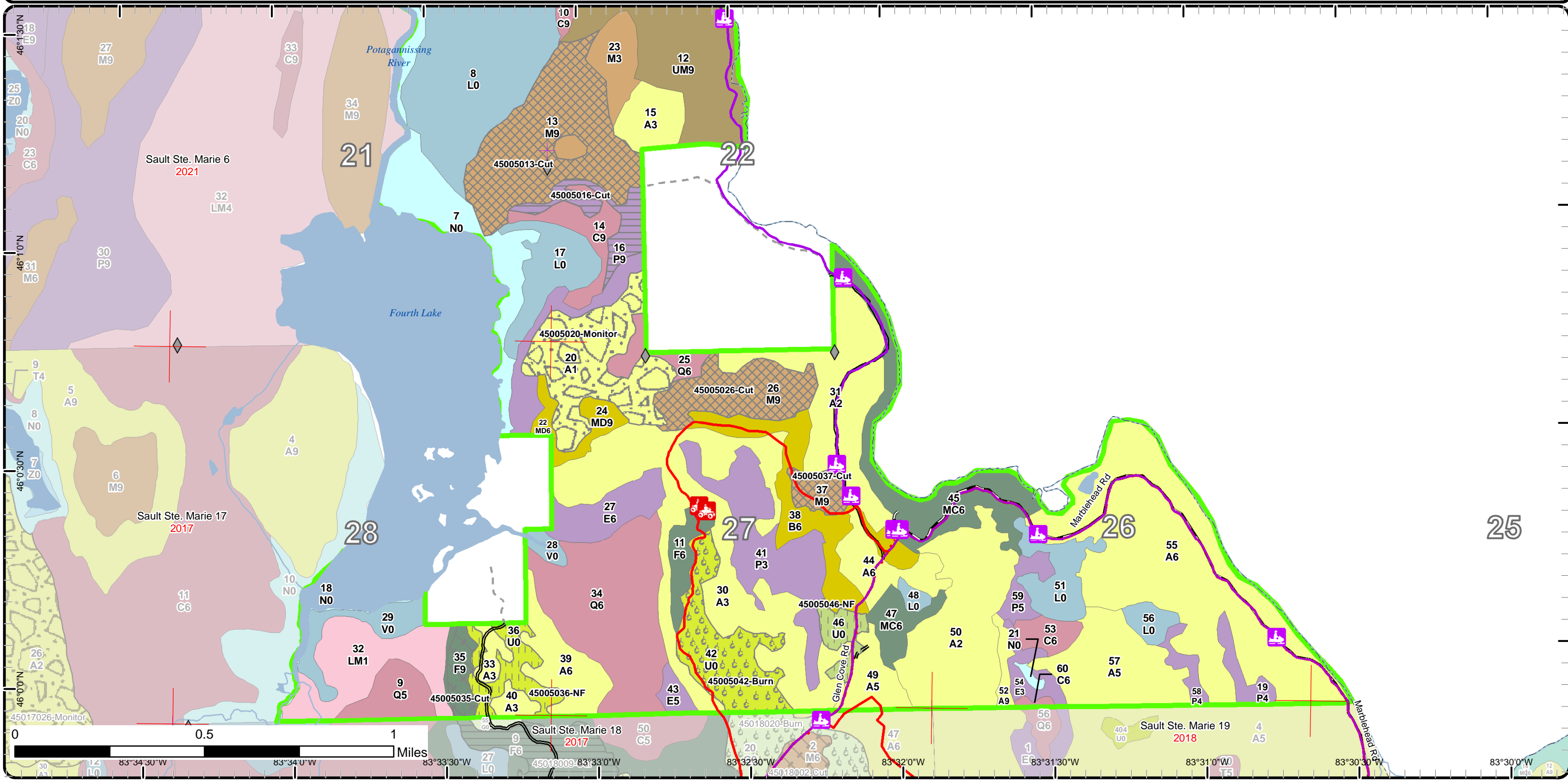


Cover Type & Treatments Map

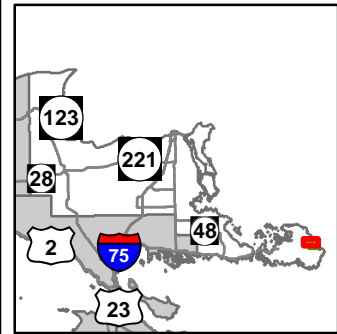


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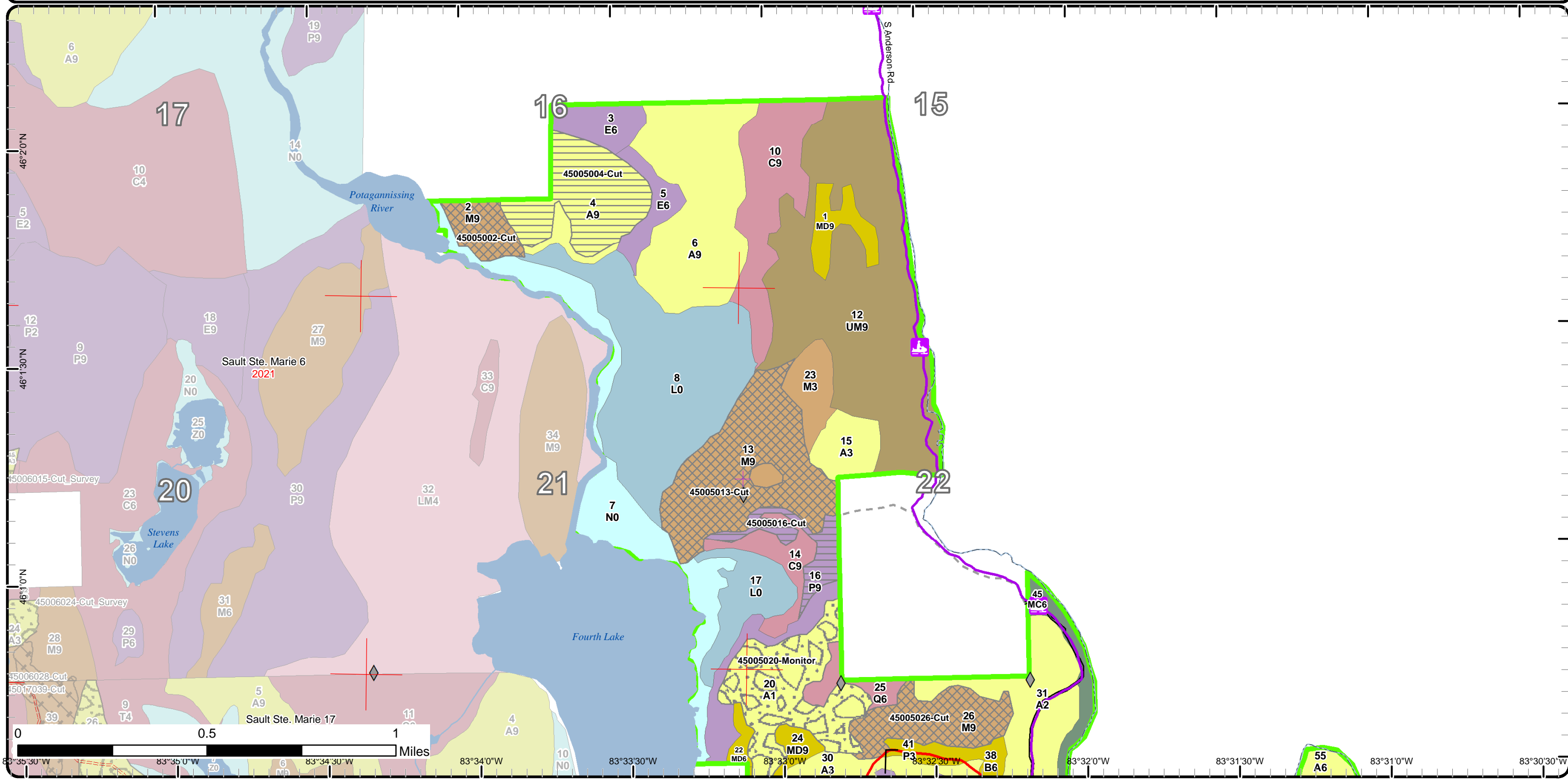


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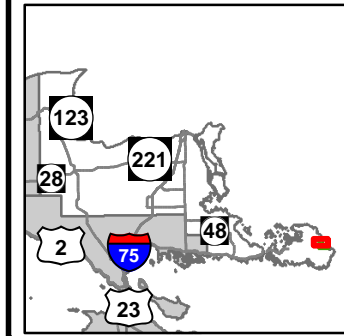


Stand Boundary Map

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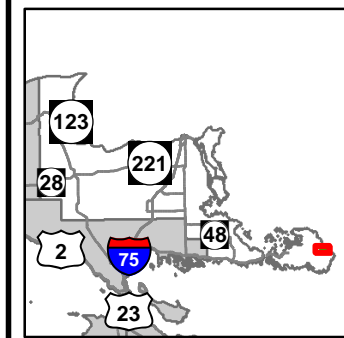


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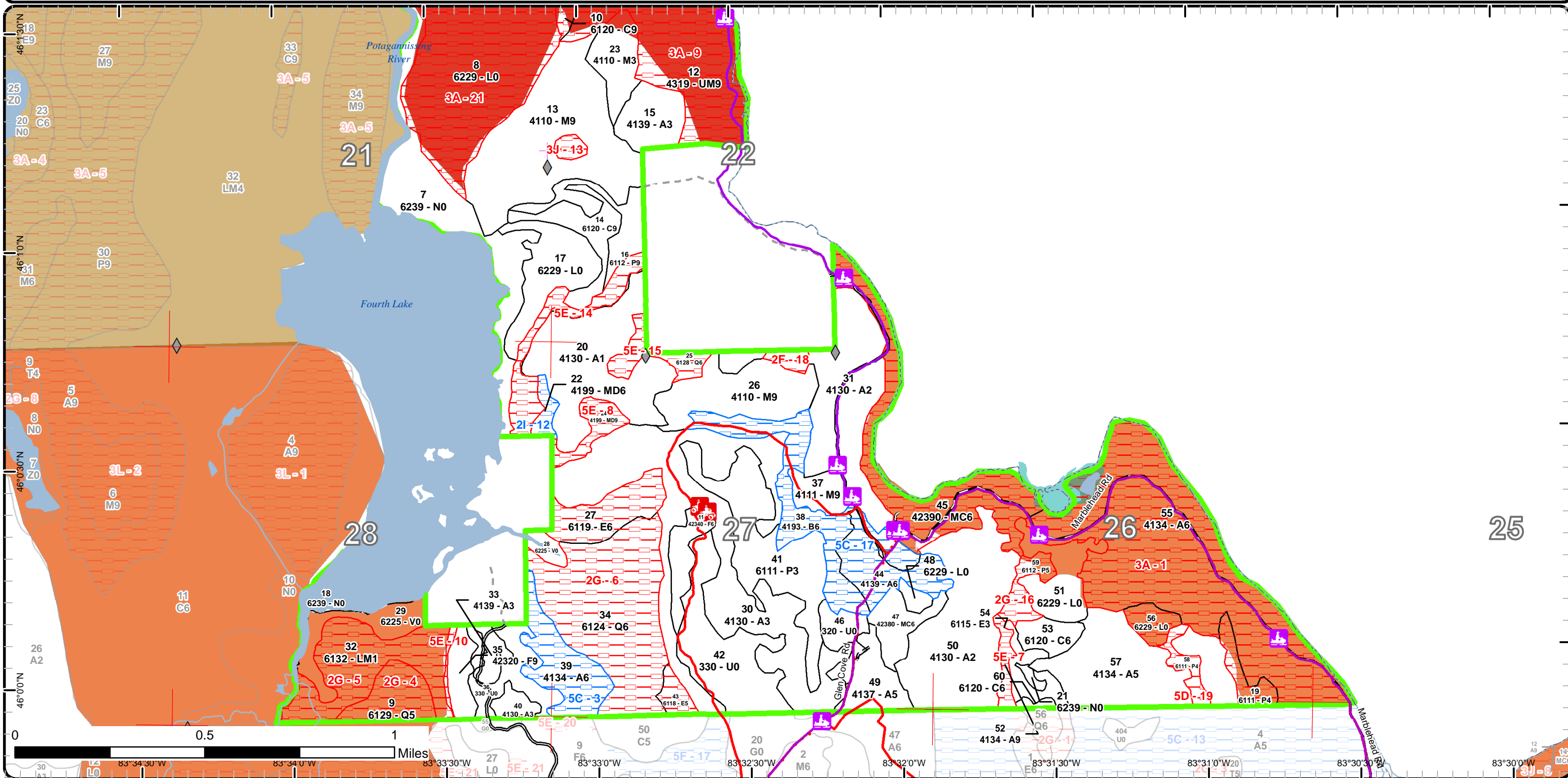


Special Conservation Areas & Site Conditions Map

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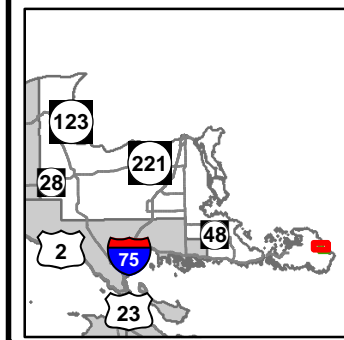


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Coastal Environmental Areas
- Forest Habitat Core Interior
- Other Habitat Area

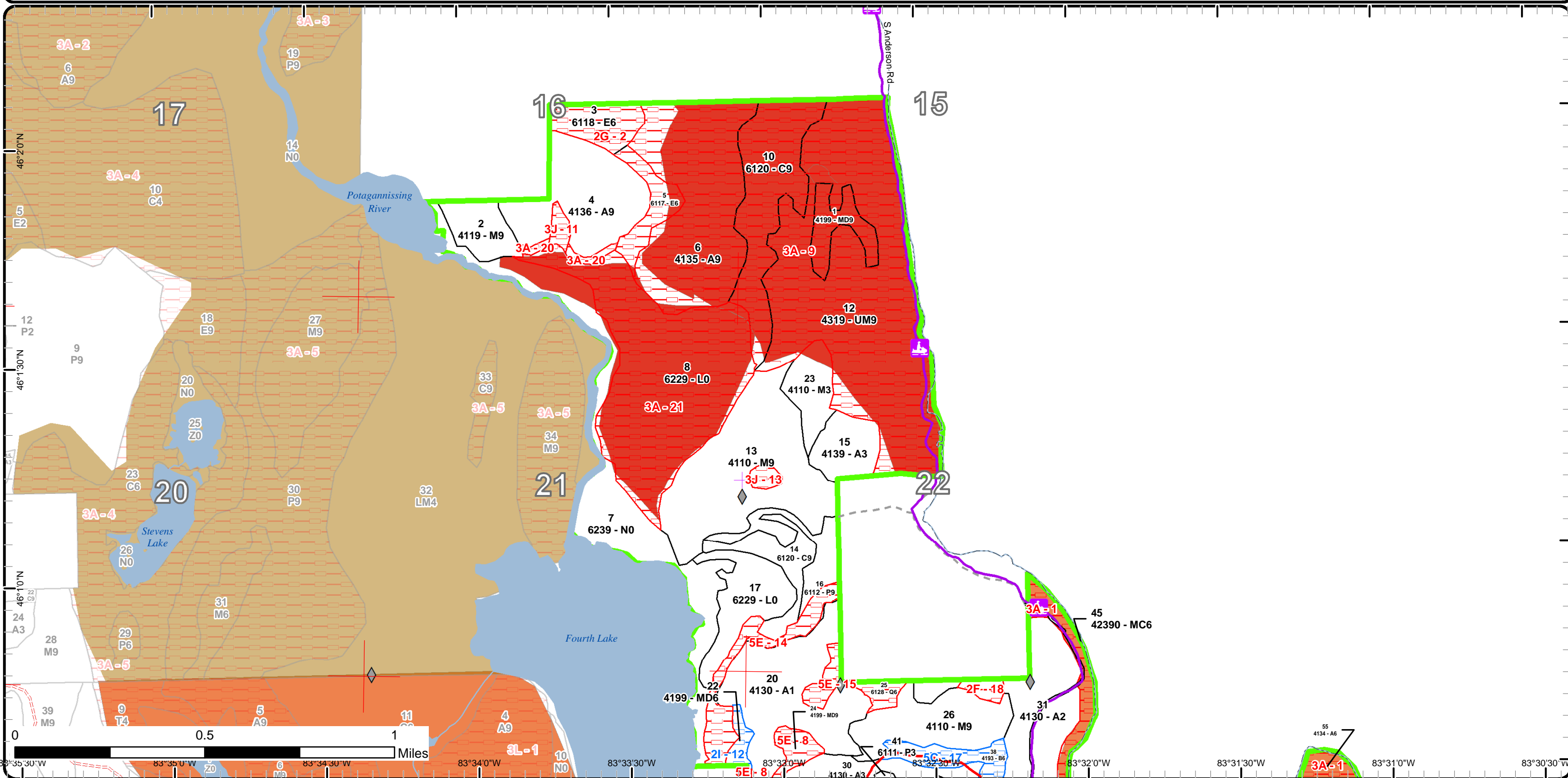


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Report 1 – Total Acres by Cover Type and Age Class



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	180	109	0	27	57	0	44	158	0	0	0	136	0	0	0	0	0	711
Bog	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Cedar	0	0	0	0	0	0	0	0	0	10	0	0	0	0	65	0	0	0	75
Low-Density Trees	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Aspen/Balsam Poplar	0	0	47	0	0	0	14	0	8	34	0	0	0	0	0	0	0	0	103
Lowland Conifers	0	0	0	0	0	0	0	0	77	26	0	0	0	0	0	0	0	0	103
Lowland Deciduous	0	0	0	0	0	0	9	33	0	0	0	15	0	0	0	0	0	5	62
Lowland Mixed Forest	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Shrub	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
Marsh	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Mixed Upland Deciduous	0	0	0	0	0	4	0	0	0	8	0	0	14	0	0	0	0	0	26
Northern Hardwood	0	0	0	0	16	0	0	0	0	0	43	0	0	79	0	0	0	15	153
Paper Birch	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	38
Upland Conifers	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	63
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	167	0	0	0	0	0	167
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Spruce/Fir	0	0	0	0	0	11	0	11	0	0	0	0	0	0	0	0	0	0	21
Total	342	180	156	0	43	152	23	88	306	78	43	15	317	79	65	0	0	20	1904



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 5
Total Compartment Acres: 1,904

Commercial Harvest - 206
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	46	0	0	0	0	0	0	0	0	46
Lowland Aspen/Balsam Poplar	16	0	0	0	0	0	0	0	0	16
Northern Hardwood	0	135	0	0	0	0	0	0	0	135
Upland Spruce/Fir	0	0	0	0	0	0	9	0	0	9
Total	62	135	0	0	0	0	9	0	0	206

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	206	0	0	0	39	0	56	0	27	328
Next Step	0	0	0	0	27	66	236	0	39	367
Total	206	0	0	0	66	66	292	0	66	694



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
2	45005002-Cut	15.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	110	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Thin stand to 80-90 BA to increase age class diversity in the stand for deer, ruffed grouse, and other wildlife. Focus on removing beech, aspen and birch first. Do not remove any cedar. Open up canopy gaps around oak to try to increase regeneration of oak for future sources of hard mast. Leave a strip of continuous canopy along the wetland edge for a travel corridor and to buffer the wetland.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regen includes maple, basswood, ash, oak, pine, birch, aspen, fir, spruce, and cedar.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
4	45005004-Cut	46.4	4136 - Aspen, Mixed Conifer	Sawtimber Well	112	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all deciduous down to 2" and all conifer down to 4" to promote young early successional habitat for deer, ruffed grouse, woodcock, and other wildlife. Do not cut pine, oak, yellow birch or hemlock to maintain food sources and some cover. Leave 1 patch for every 10 acres of harvest that is roughly 0.5-1 acre in size. Focus these retention patches on areas of thick cedar when and if possible. Leave one brush pile at least 6' high and 12' in diameter for every 5 acres to benefit hare. Buffer the small stream within the stand and the northern shrub thicket ERA as appropriate.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regen includes aspen, spruce, fir, birch, maple, pine, and cedar.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
13	45005013-Cut	76.5	4110 - Sugar Maple Association	Sawtimber Well	120	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Thin stand to 80 BA to increase age class diversity for deer, ruffed grouse, and other wildlife. Buffer vernal pond area in the center of the stand and any other vernal features that may be found to maintain habitat for amphibians, as well as the ERAs as appropriate. Remove most diseased beech and ash. Open up canopy gaps around yellow birch and any oak to increase regeneration of those species to promote future food sources for wildlife. Do not remove cedar, hemlock or white pine to maintain these species for cover in the stand.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regen includes maple, ash, beech, birch, basswood, cedar, pine and oak.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
16	45005016-Cut	15.7	6112 - Lowland Aspen	Sawtimber Well	87	111- 140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all deciduous down to 2" and conifers down to 4" to promote young early successional habitat for ruffed grouse, woodcock, snowshoe hare, and other wildlife. Do not cut sugar maple, pine, cedar, oak, hemlock and yellow birch to maintain cover species and enhance diversity. Retention will be the scattered trees along with the strip along the south side of the stand.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, spruce, fir, cedar, pine, maple.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											



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
20	45005020-Monitor	56.2	4130 - Aspen	Sapling Poor	5	Immature	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Re-Check wet areas to see if they are regenerating. During inventory it was noted that large portions of the stand were not regenerated yet.

Specs:

Next Step

Treatments:

Acceptable Regen: Acceptable regeneration includes aspen, birch, spruce, fir, maple

Other Comment:

Other Comment:

Proposed Start Date: 10/1 /2019

26	45005026-Cut	33.6	4110 - Sugar Maple Association	Sawtimber Well	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to 80 BA. Remove most diseased beech and some of the ash as they will die out if left. Open up canopy gaps around yellow birch and any oak to increase regeneration of those species to promote future hard mast and other food sources for wildlife. Do not remove cedar, hemlock or white pine to maintain these cover species. Leave large cavity nesting trees.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regeneration includes maple, ash, beech, birch, basswood, pine, spruce, fir.

Other Comment:

Other Comment:

Proposed Start Date: 10/1 /2019

35	45005035-Cut	9.1	42320 - Upland Spruce	Sawtimber Well	68	111-140	Harvest	Salvage	429 - Mixed Upland Conifers	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all spruce and fir down to 2" in DBH. Treatment will encourage new growth that will benefit snowshoe hare and ruffed grouse. The temporary opening will also benefit sharp-tailed grouse.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Other Comment: Being prescribed because of a high or veryhigh risk of SBW damage. Set this stand up with adjacent sale in compartment 18 2017 YOE.

Other Comment:

Proposed Start Date: 10/1 /2016

36	45005036-NF	17.2	330 - Low-Density Trees	Nonstocked			NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Use mechanical methods to control the encroachment of the forest to maintain the opening for wildlife.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/1 /2019



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
37	45005037-Cut	9.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand to 80 BA. Remove all diseased beech and some of the ash. Open up canopy gaps around yellow birch and any oak to increase regeneration of those species and encourage future hard mast production for wildlife. Do not remove cedar, hemlock or white pine to maintain diversity and maintain cover for various species. Do not cut large cavity nesting trees.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes maple, ash, beech, basswood, birch, pine, spruce, fir.

Other

Comment:

Proposed Start Date: 10/1 /2019

42	45005042-Burn	38.9	330 - Low-Density Trees	Nonstocked			Burn	Opening	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Burn to control woody vegetation encroachment in opening and maintain opening for sharp-tailed grouse and other wildlife. It is recommended that this be burned using a wet line rather than a dozer line. Other openings maintenance methods may include mechanical or chemical treatments.

Specs:

Next Step Monitoring, Prescribed Burn

Treatments: ; NonForestMgt, Brush Cutting; Pesticide, Other - Specify

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

46	45005046-NF	9.5	320 - Upland Shrub	Nonstocked			NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Use mechanical means to control the encroachment of woody vegetation to maintain the opening for wildlife.

Specs:

Next Step Burn, Opening; Pesticide, Other - Specify

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 327.5**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 5

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions								
		With Condition				2I	5C	2F	2G	3A	3J	5D	5E	
711	417	44		251	Aspen		44	3		240	3			5
20	20	0		0	Bog									
75	26	0		49	Cedar					49				
56	56	0		0	Low-Density Trees									
102	63	0		39	Lowland Aspen/Balsam Poplar				8	8		6	18	
103	0	0		103	Lowland Conifers				93				10	
62	9	0		53	Lowland Deciduous				53					
41	0	0		41	Lowland Mixed Forest				41					
169	48	0		121	Lowland Shrub					121				
86	86	0		0	Marsh									
26	0	4		22	Mixed Upland Deciduous	4				14			8	
153	150	0		3	Northern Hardwood						3			
39	0	39		0	Paper Birch		39							
63	12	0		51	Upland Conifers					51				
167	0	0		167	Upland Mixed Forest					167				
9	9	0		0	Upland Shrub									
22	20	0		1	Upland Spruce/Fir								1	
1,904	916	86		901	Total Forested Acres	4	82	3	195	649	6	6	42	
	48%	5%		47%	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	3A: Conservation Values incompatible with harvest at this time	207	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Drummond Island Shoreline Integrity Area. There may be opportunity to harvest areas away from the shoreline.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 5

Year of Entry: 2020

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Stream runs through this stand							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	102	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Too wet and not supporting productive forest at this time.							
7	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 5

Year of Entry: 2020

8	Unavailable	5E: Long-Term Retention	8	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Most of this stand serves as good retention for the adjoining clearcuts. The hardwood/birch patch could be harvested in the future after the adjacent cuts fill in.							
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	314	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Boreal Forest and Mesic Northern Forest ERA's. Also within the Fourth Lake core interior habitat area.							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Small stream in the area.							
12	Available	2I: Survey needed	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Vernal pond area serving as retention							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 5

Year of Entry: 2020

14	Unavailable	5E: Long-Term Retention	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	10	2G: Too wet (sensitive soils, does not include access issues)	3L: Other wildlife concerns	Unspecified	Unspecified
Comments: Part is too wet and the rest has too much cedar and hemlock. Leave as retention.							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments: These stands will hold for another 10 years. With all the recent cc in the area hold off on these stands.							
18	Unavailable	2F: Too steep	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: This portion of the timber sale was too steep and the logger decided to leave it.							
19	Unavailable	5D: Unproductive Forest Land	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Very few trees in this stand. Wet ground with aspen over lowland shrub.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 5

Year of Entry: 2020

20	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer for adjacent ERA							
21	Unavailable	3A: Conservation Values incompatible with harvest at this time	114	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							



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
	Habitat Area	Habitat Corridor	Error	989
Comments				
Proposing to add this area to the DHA in the compartment to the north. Makes sense to follow the landscape rather than the compartment lines.				
Drummond Island Shoreline Integrity Area	Habitat Area	Habitat Corridor	Error	216
Comments				
SCA is to identify federal interest area for protection of the coastal integrity and associated ecological and aesthetic values				



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.
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.6	112	141-170	This stand seems to be to top of the ridge and contains a narrow strip of hardwood surrounded by a mix of maple and aspen/spruce/fir.
2	4119 - Mixed Northern Hardwoods	Sawtimber Well	15.0	110	81-110	Stand of mixed hardwoods. The stand is doing well with some large trees and a decent amount of advanced regen. There is an abandoned structure located on the west side of the stand along the river.
3	6118 - Lowland Deciduous with Cedar	Poletimber Well	15.3	108	Unspecified	Did not make it to this stand. Looks like a stand of lowland ash and BAM with cedar and thick balsam fir.
4	4136 - Aspen, Mixed Conifer	Sawtimber Well	52.3	112	111-140	Stand of very large aspen that is starting to decline. There is quite a bit of blow down occurring in the stand. Some cedar clumps are present in the stand. There is a drainage that runs through the middle of the stand with a stream in it. I would say that about half of the aspen is approaching being oversized for the mills.
5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	12.6	63	111-140	Stand of pole size BAM and black ash. Flowing stream runs through the middle of the stand.
6	4135 - Aspen, Cedar	Sawtimber Well	83.9	112	111-140	Stand of very large aspen that is starting to decline. There is quite a bit of blow down occurring in the stand. Some cedar clumps are present in the stand. I would say that about half of the aspen is approaching being oversized for the mills.
9	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	16.4	83	51-80	I walked up to the east edge of the stand and the blowdowns prevented me from walking further. From what I could see the canopy of the is stand is fairly open and there is a good mix of conifers.
10	6120 - Lowland Cedar	Sawtimber Well	49.5	133	171-200	This stand is low ground, most of the tip up have ice and water under them. Because of that there is a lot of blowdown in the stand making it very hard to traverse.
11	42340 - Upland Spruce/Fir	Poletimber Well	11.2	46	81-110	Stand sits on a westward facing slope. It is dominated by white spruce along with a few clones of aspen which are expanding out into the opening. The canopy is patchy in some spots.
12	4319 - Mixed Upland Forest	Sawtimber Well	166.7	112	141-170	Stand is a mix of cedar and aspen in varying densities. Some areas of very thick cedar with little in the understory, areas of aspen with thick fir in the understory and other areas where the aspen and cedar is mixed together in a more diverse stand.
13	4110 - Sugar Maple Association	Sawtimber Well	79.3	120	111-140	Really nice stand of hardwoods. Last thinned in 1985. The ash in the stand is starting to show signs of decline. There are some very large sugar maples in this stand with a lot of advanced regeneration. We are missing the small pole size class in this stand. Lots of topography in this stand. Vernal pond right in the middle of the stand. Low ground along the western border of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	6120 - Lowland Cedar	Sawtimber Well	15.8	133	141-170	Stand of cedar with some aspen/bam. Areas of open understory under large cedars and ash swales. The DBH falls off as you approach the edge of the lowland.
15	4139 - Aspen, Mixed Deciduous	Sapling Well	16.5	31	Immature	Decent aspen stand with some scattered cedar trees. There are also scattered log size aspen in the stand. The stand is right on the verge of becoming a pole size stand.
16	6112 - Lowland Aspen	Sawtimber Well	33.8	87	111-140	This stand is an aspen mix with cedar. For the most part it is a transitional stand between the upland and lowland types. The southern portion of the stand is retention for the adjacent clearcut. There is a small inclusion of hardwood along the private line.
19	6111 - Lowland Balsam Poplar	Poletimber Poor	7.8	56	1-50	Lowland swale is mostly shrub with aspen over it. In a few spots there are conifers mixed in. The se portion of this stand has larger and more dense aspen than in the narrow strip.
20	4130 - Aspen	Sapling Poor	56.2	5	Immature	Stand was cut in winter of 2013 as part of Rainy Day Aspen. Overall poor regen across the stand but there are some patches of very good aspen regen. There are large areas of grass and cattails with willow. These areas are wetter than the rest of the stand and may be taking longer to regenerate.
22	4199 - Other Mixed Upland Deciduous	Poletimber Well	4.2	48	51-80	Ridge of paper birch and sugar maple. The trees are pole size and not very mature at this time. There are old burnt stumps throughout the stand.
23	4110 - Sugar Maple Association	Sapling Well	15.6	32	Immature	Stand was cut in 1986. Good sugar maple regen with some aspen and ash. Log size sugar maples scattered throughout the stand but most are showing signs of decline.
24	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.4	87	81-110	Stand consists of a small hardwood patch(actualy has red maple) and patch of paper birch surrounded by a aspen/spruce/fir mix. The beech in the hardwoods has BBD very bad. This stand serves as good retention for the surrounding cuts.
25	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.8	80	111-140	Diverse stand. The west part of the stand is mature white spruce and aspen. The east part is cedar, paper birch and aspen with a grove of large hemlock on the edge of the hardwood stand. Most of the stand is lowland but does contain upland along the edges.
26	4110 - Sugar Maple Association	Sawtimber Well	33.6	95	81-110	Nice hardwood stand that contains ash and beech. The beech has BBD and the ash is starting to show signs of decline. Lots of large trees. The ground in this stand is very rocky but operable.
27	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	20.1	64	81-110	Lowland ash with cedar. Doesn't appear to be any EAB holes at this time.
30	4130 - Aspen	Sapling Well	109.3	13	Immature	Stand was cut in 2005. Very good aspen regeneration with some spruce and fir making it into the canopy but most of it is in the understory. Scattered pole size cedar and a few log white pine retained during harvest. There are a few shallow drainages throughout the stand. ORV trail in stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	4130 - Aspen	Sapling Medium	58.1	6	Immature	Stand was cut in Dec. 2012 as part of Rainy Day Aspen. Decent aspen regen. Some wet areas with grass and cattails. Scattered cedar retained along with some hardwoods. Cedar patch retained along PVT line.
32	6132 - Mixed Lowland Forest with Cedar	Sapling Poor	40.9	45	1-50	Stand is on the border of lowland mix and forested stand. Out near the lake and river the stand has a lot of cedar snags with sapling size cedar coming up. The south half of the stand away from the lake it is more of a mix of Black ash, cedar, black spruce, bam, and balsam fir. Stand is very wet and supports poor quality trees.
33	4139 - Aspen, Mixed Deciduous	Sapling Well	5.6	30	81-110	Stand of aspen and BAM with some scattered conifer over dogwood. This stand is filling in the opening.
34	6124 - Lowland Spruce-Fir	Poletimber Well	77.0	78	81-110	Lowland mixed conifer type. Cedar dominates the edges of this stand along with a larger patch in the south. The rest of the stand is a more open canopy black spruce and balsam fir with black ash scattered throughout. The eastern border of the stand had a lot of stumps, not sure if this was from old cutting, fire, or natural causes.
35	42320 - Upland Spruce	Sawtimber Well	10.5	68	111-140	Very nice stand of white spruce. This stand is currently under contract. The stand sits on the side of a hill sloping down the west. Evidence of old fire throughout the stand.
37	4111 - S.Maple, Hard Mast Association	Sawtimber Well	9.4	95	81-110	Nice stand of hardwoods with beech and ash. Stand contains some large diameter trees. The ORV trail runs through the stand.
38	4193 - Birch, Aspen	Poletimber Well	38.5	48	111-140	This stand has the ORV trail running through it. It is a mix of paper birch with aspen and sugar maple. There is one patch of mature aspen over spruce/fir at the north end.
39	4134 - Aspen, Spruce/Fir	Poletimber Well	24.4	68	81-110	This is a stand of many stands. It transitions from upland to the lowland stand. There is younger aspen along the western edge that is filling in the opening with very little in the understory besides dogwood. Areas of pole size aspen/spruce/fir. The southern portion of the stand is dominated by white spruce. The eastern edge of the stand is a narrow strip of lowland aspen over tag alder.
40	4130 - Aspen	Sapling Well	4.9	30	51-80	Grass stand converting to aspen and balm with some scattered spruce.
41	6111 - Lowland Balsam Poplar	Sapling Well	46.6	13	Immature	Stand was cut in 2005. Cedar was reserved during the harvest. Mostly BAM over tag alder. The stand is very wet.
43	6118 - Lowland Deciduous with Cedar	Poletimber Medium	4.9	64	51-80	Flooded stand of ash and cedar. Looks like there was beaver activity in this stand at one time. The cedar is starting to die out. Some areas of lowland shrub.
44	4139 - Aspen, Mixed Deciduous	Poletimber Well	19.2	68	81-110	Variable aspen stand, some parts are log size while others are still small poles. The understory is variable from hardwoods to conifers depending on where you are at.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	50.5	78	111-140	This stand contains a little less aspen than the adjacent shoreline stand to the east and a bit more cedar. This stand acts as a great buffer along the lakeshore.
47	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	12.4	78	81-110	This stand is very thick to white spruce with some overtopping aspen. The ground gets a little lower with some cedar as you get close to the wetland.
49	4137 - Aspen, Birch	Poletimber Medium	14.9	40	81-110	Stand is a mix of aspen and BAM. Very few conifers in the stand. A few patches of log size and sapling size trees scattered in this stand.
50	4130 - Aspen	Sapling Medium	65.9	5	Immature	Stand was cut in Oct.-Nov. 2012 as part of Rainy Day Aspen. There is decent aspen and BAM regeneration. There are still some patches of grassy areas but it looks like it will fill in over the next few years. Decent amount of fir and spruce that is coming in under the aspen. Scattered small poles and saplings that were left during the harvest. A few log size White pine remain. The dogwood in the understory is almost all browsed on.
52	4134 - Aspen, Spruce/Fir	Sawtimber Well	4.8	78	111-140	Stand of aspen with conifers. Upland stand with some lowland ground along the east edge. Stand serves as retention for adjacent clearcut.
53	6120 - Lowland Cedar	Poletimber Well	8.3	89	141-170	Very wet stand of cedar.
54	6115 - Lowland Ash	Sapling Well	8.8	55	51-80	Very wet ash and Bam with some scattered cedar.
55	4134 - Aspen, Spruce/Fir	Poletimber Well	152.9	78	81-110	This stand is very variable. Some patches of really nice log size aspen either over conifers or dogwood and hazel brush. Other areas of sapling size trees and an open canopy. There area series of ridges down to the lake shore. Some are holding up small wetlands. The cedar can be found on the shoreline.
57	4134 - Aspen, Spruce/Fir	Poletimber Medium	42.4	45	51-80	This is an open pole and sapling size aspen stand. The canopy is not very dense. Some areas the conifer regeneration is very dense in the understory and in others there is very little in the understory except dogwood and grass. Some small scattered patches of aspen but not very big.
58	6111 - Lowland Balsam Poplar	Poletimber Poor	5.9	56	1-50	Lowland strip of aspen over shrubs.
59	6112 - Lowland Aspen	Poletimber Medium	8.1	78	51-80	Ground is very wet within this stand.
60	6120 - Lowland Cedar	Poletimber Well	1.5	89	111-140	Cedar stand that extends into the compartment to the south.



Stand	Cover Type	Acres	Managed Site	General Comments:
7	6239 - Mixed Emergent Wetland	71.8	No	
8	6229 - Mixed lowland shrub	114.3	No	Stand of lowland shrubs with cedar snags throughout. Sapling cedar, ash and paper birch.
17	6229 - Mixed lowland shrub	25.7	No	Stand of lowland shrubs with cedar snags throughout. Sapling cedar, ash and paper birch.
18	6239 - Mixed Emergent Wetland	13.1	No	Stand is emergent wetland that is mostly underwater. Includes the upper portion of the river.
21	6239 - Mixed Emergent Wetland	1.4	No	Wet area with grass, frag. and shrubs
28	6225 - Bog	4.2	No	
29	6225 - Bog	15.4	No	Stand consist of a few scattered sapling size trees but for the most part is a mix of emergent wetland species including what looks like a decent amount of native frag.
36	330 - Low-Density Trees	17.2	No	Opening growing in with aspen/spruce/fir. The "grass" areas have a lot of invasive (queen ann's lace, knapweed, mullen).
42	330 - Low-Density Trees	38.9	Yes	Stand is filling in with aspen and spruce.
46	320 - Upland Shrub	9.5	No	Stand contains patches of sugar maple and scattered conifer trees. There is a gravel pit in the south end of the stand. The open portions of this stand are infested with knapweed and have some scattered juniper.
48	6229 - Mixed lowland shrub	2.9	No	Lowland shrub with some emergent wetland.
51	6229 - Mixed lowland shrub	19.2	No	A mix of emergent and shrub. Looks like the beavers flooded a cedar stand which is now all snags at the south end of this stand.
56	6229 - Mixed lowland shrub	6.8	No	Lowland shrub stand with a lot of beaver activity around the edges in the aspen.