



# Compartment Review Presentation

## Sault Ste. Marie Forest Management Unit

Compartment 45017

Entry Year 2017

Acreage: 2,855

County Chippewa

Management Area: Drummond Island

---

**Revision Date:** 2015-08-07

**Stand Examiner:** Josh Brinks

### Legal Description:

T42N R7E, Sec 28, 29, 30, 31, 32

### 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 and enhance wildlife habitat. 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.

### Soil and topography:

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. Markey-Dawson: deep, level, poorly drained mucky and peaty soils on outwash plains on the east side to Fourth Lake. Topography is rolling hills to flat rock to steep cliffs. Cedar swamps and hardwood knobs are mixed among the aspen hills.

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

Contiguous block of State land with no developments. Primarily used for hunting, trail riding, and timber and wildlife management. There is one private parcel adjoining the compartment on the west side with a camp. State land surrounding the compartment maintains landscape level management.

### Unique Natural Features:

There is a potential for rare threatened or endangered plant and animal species within the compartment. Stands to be managed will be checked for species of concern. Management will be modified per management guidelines for that species if species are found within those stands or would be affected by treatment of the stands.

### Archeological, Historical, and Cultural Features:

Remnants of old railroad grade along with old homestead sites can be found in this compartment.

### Special Management Designations or Considerations:

Compartment contains areas within Deer Designated Habitat Area.

### Watershed and Fisheries Considerations:

This compartment, located on Drummond Island, contains portions of Dry Lake and Fourth Lake. Dry Lake is approximately 165 acres in size with a maximum depth of 8 feet, and supports primarily yellow perch. Fourth Lake is part of the Potagannissing Flooding, has an average depth of 2 feet, and is primarily a northern pike spawning area. Prescribed management activities are appropriate for the protection of these waterbodies. If possible, a landing/parking area should be left adjacent to Dry Lake to provide for access to this waterbody.

### Wildlife Habitat Considerations:

This compartment is located on Drummond Island toward the northern end of the Drummond Island Management Area. Featured species in the management area include white-tailed deer, black bear, snowshoe hare, ruffed grouse, sharp-tailed grouse, and northern goshawk. This compartment is primarily composed of aspen intermixed with cedar and maple with variable densities of a spruce/fir under story as well as cedar stands. Most of the aspen was over 60 years old during the last entry and was treated to provide age and structural diversity while also maintaining the aspen type. As a result, most aspen stands including 1 large stand are young. The young aspen will provide favorable habitat for a suite of wildlife including deer, black bear, snowshoe hare, and ruffed grouse. This process will continue on a mature stand, although stand sizes may be reduced to better accommodate future age class diversity between stands while maintaining the aspen resource in the compartment. White pine and hemlock as well as cedar clumps that occur within the aspen stands prescribed for harvest will generally be left as seed trees, potential snags, and other habitat features to create diverse stands while still regenerating early successional habitats. The cedar stands will be left due to their value to wildlife ranging

from deer to Neotropical migratory birds.

Most northern hardwood stands were previously prescribed for treatment due to beech bark disease being present. These harvests will target beech, although some beech will be retained to maintain diversity and a food source for bear and other wildlife as long as possible and also to provide future snags for cavity-nesters. Remaining species including mast-producers like serviceberry, hazel, and cherry, will generally be left. Oak or disease-resistant beech planting will be considered where beech has been harvested, but site conditions and access may not be favorable for plantings.

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

Surface sediments consist of thin to discontinuous glacial deposits over bedrock. There is insufficient data to determine the glacial drift thickness. The Silurian Manistique and Burnt Bluff Groups sub crop below the glacial drift. These formations are quarried for stone/dolomite. A gravel pit is located two miles to the west and potential is unknown. There is no current economic oil and gas production in the UP.

### **Vehicle Access:**

Logging roads, jeep trails, and ORV Trails are throughout the compartment. Most can be accessed with two wheel drive vehicles; others are strictly passable with four wheel drive. The primary access to this compartment is the Second Lake Road.

### **Survey Needs:**

There are no survey needs at this time.

### **Recreational Facilities and Opportunities:**

ORV and jeep trails are throughout the compartment. No facilities. Hunting is one of the main sporting opportunities along with camping, hiking, and sight seeing.

### **Fire Protection:**

There is good to fair vehicle access to most of the compartment. Accessible water sources are scarce.

### **Additional Compartment Information:**

#### **The following reports from the Inventory are attached:**

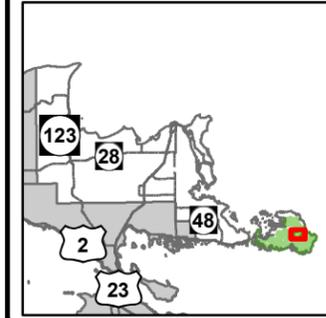
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

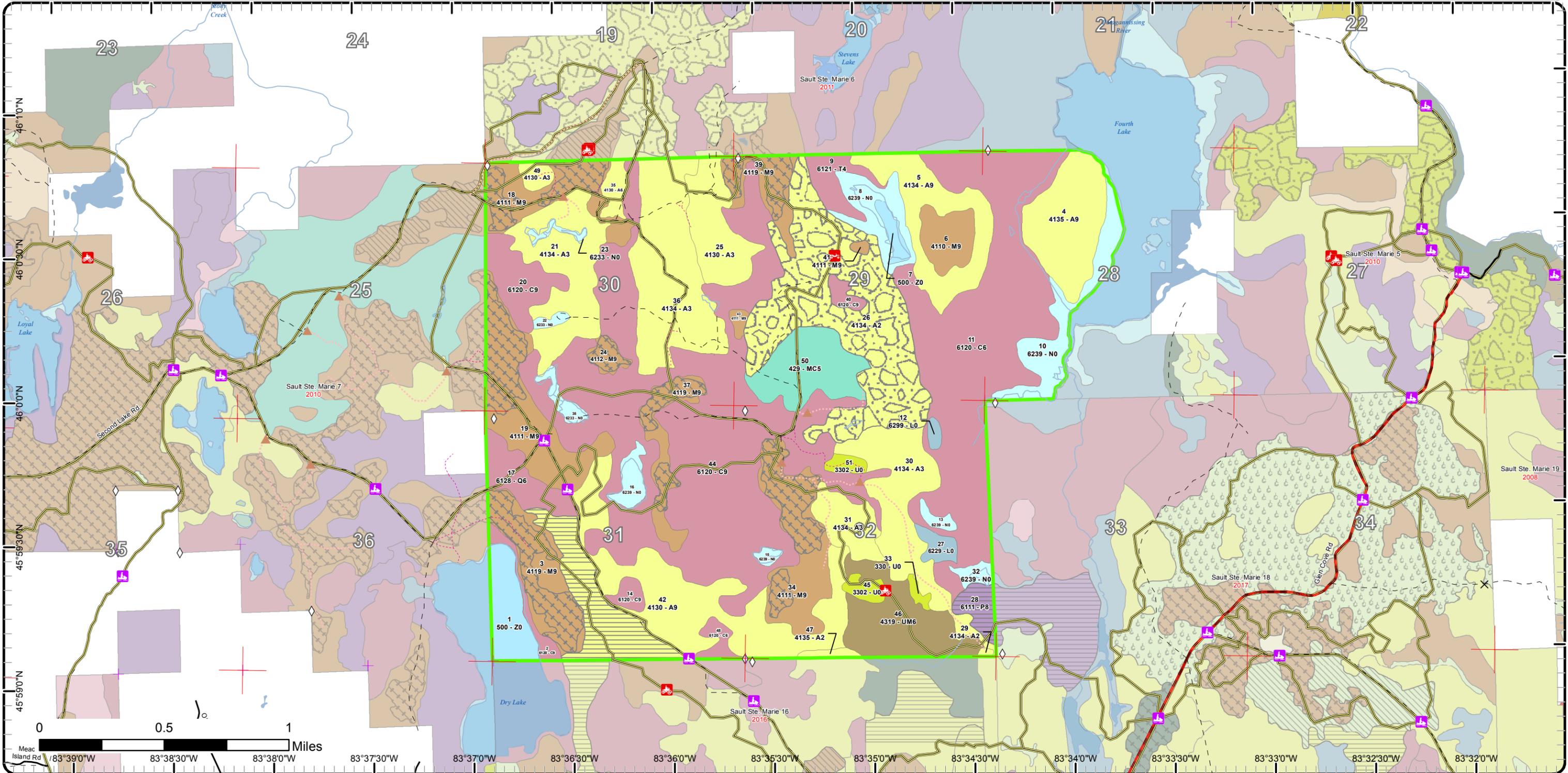
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments

Compartment: 17  
 T42N, R07E, Sec: 28 - 32  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Drummond Island  
 YOE: 2017  
 Acres: 2855 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/10/2015  
 Map Phase: Review

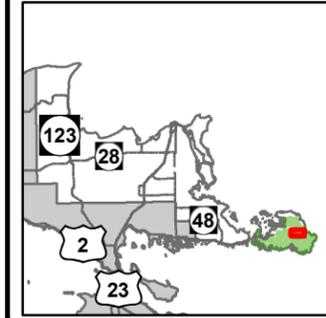


- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- ⋯ Closed Roads
- ✕ Gate
- ▲ Berms
- 🚙 ORV Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Rivers
- Lakes
- Treatments
- ▭ Clearcut (w/Reserves)
- ▭ Salvage
- ▭ Regeneration Survey
- Forest Covertype
- 411 - Northern Hardwood
- 413 - Aspen
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forests
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

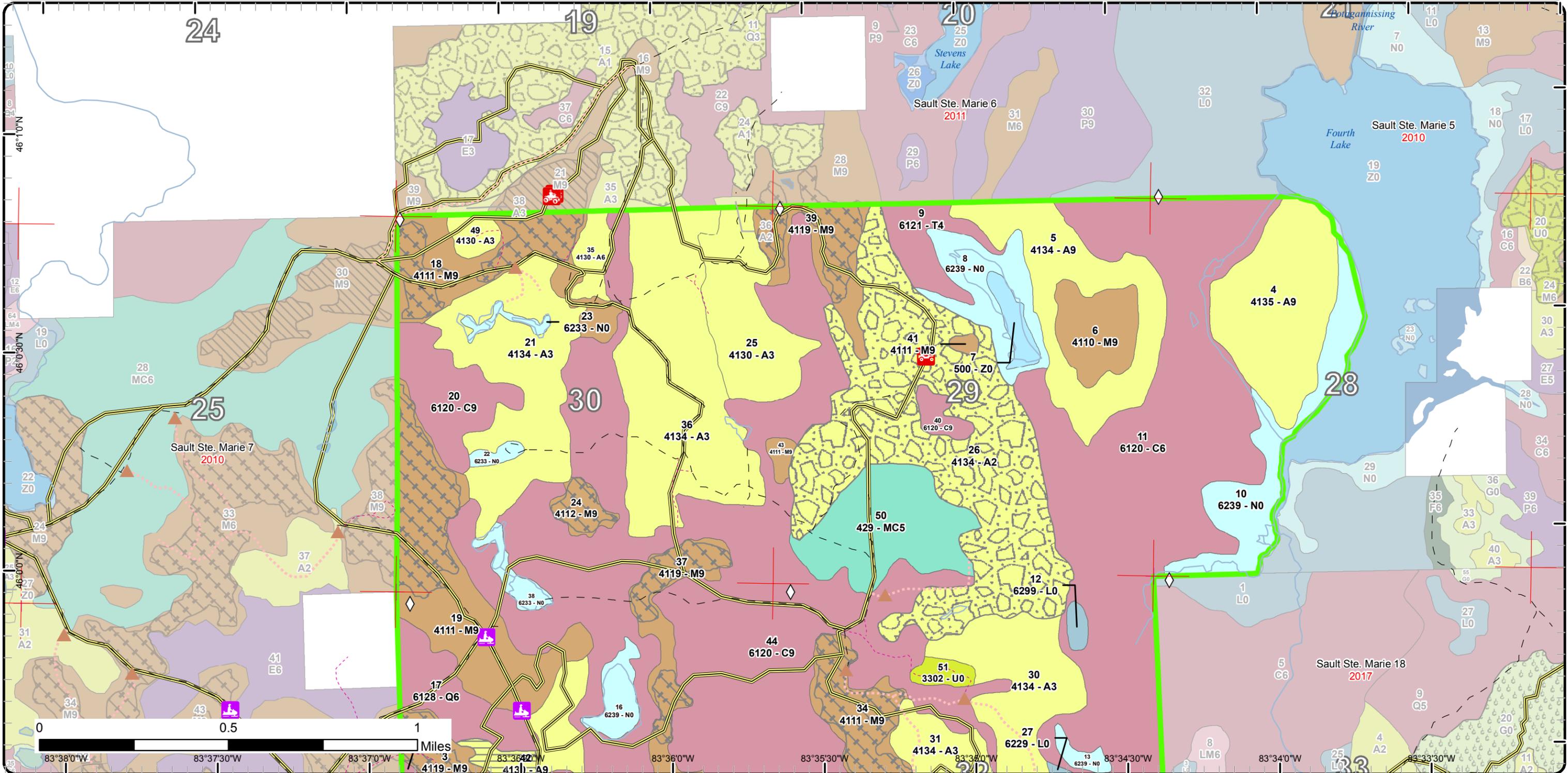


# Cover Type & Treatments

Compartment: 17  
 T42N, R07E, Sec: 28 - 32  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Drummond Island  
 YOE: 2017  
 Acres: 2855 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/10/2015  
 Map Phase: Review

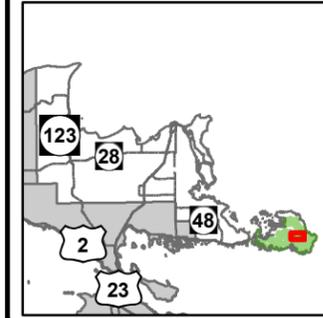


- ✦ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- ⋯ Closed Roads
- ▲ Berms
- 🚙 ORV Trails
- 🚚 ORV Routes
- 🛷 Snowmobile Trails
- Rivers
- 🌊 Lakes
- ☐ Clearcut (w/Reserves)
- ✂ Salvage
- 📊 Regeneration Survey
- 🌲 Forest Covertype
- 🟤 411 - Northern Hardwood
- 🟡 413 - Aspen
- 🟢 429 - Mixed Upland Conifers
- 🟣 612 - Lowland Coniferous Forest
- 🟢 Non-Forest Covertype
- 🟡 330 - Low Density Trees
- 🟦 500 - Water
- 🟤 622 - Lowland Shrub
- 🟢 623 - Emergent Wetland

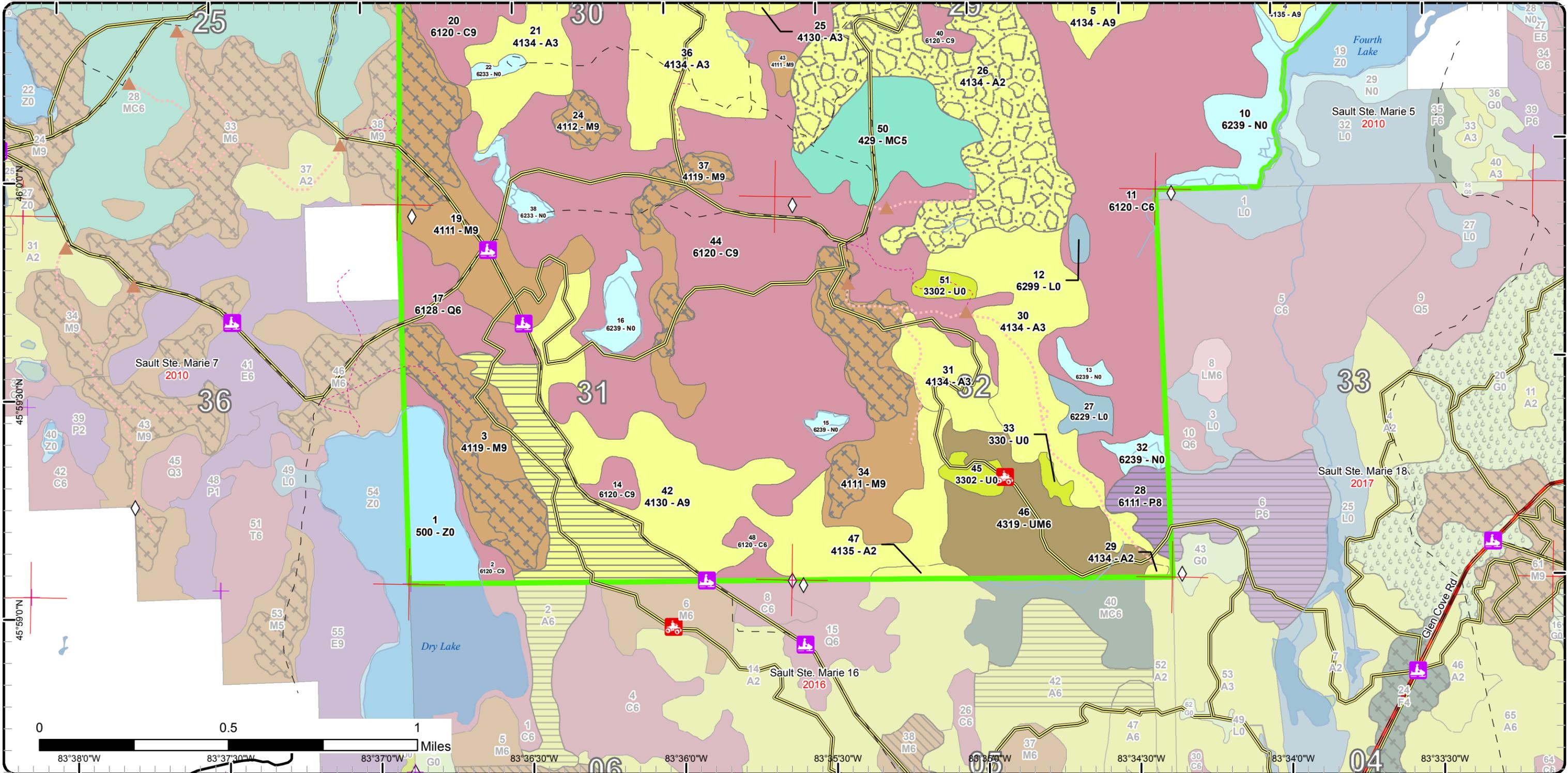


# Cover Type & Treatments

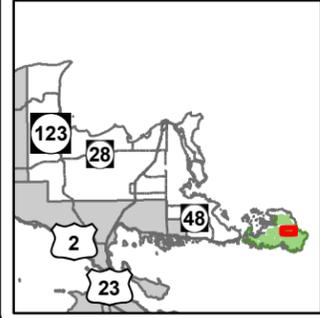
Compartment: 17  
 T42N, R07E, Sec: 28 - 32  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Drummond Island  
 YOE: 2017  
 Acres: 2855 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/10/2015  
 Map Phase: Review



- Remonumented Section Corners
- Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Berms
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Rivers
- Lakes
- Treatments**
- Clearcut (w/Reserves)
- Salvage
- Regeneration Survey
- Forest Covertype**
- 411 - Northern Hardwood
- 413 - Aspen
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forests
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype**
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

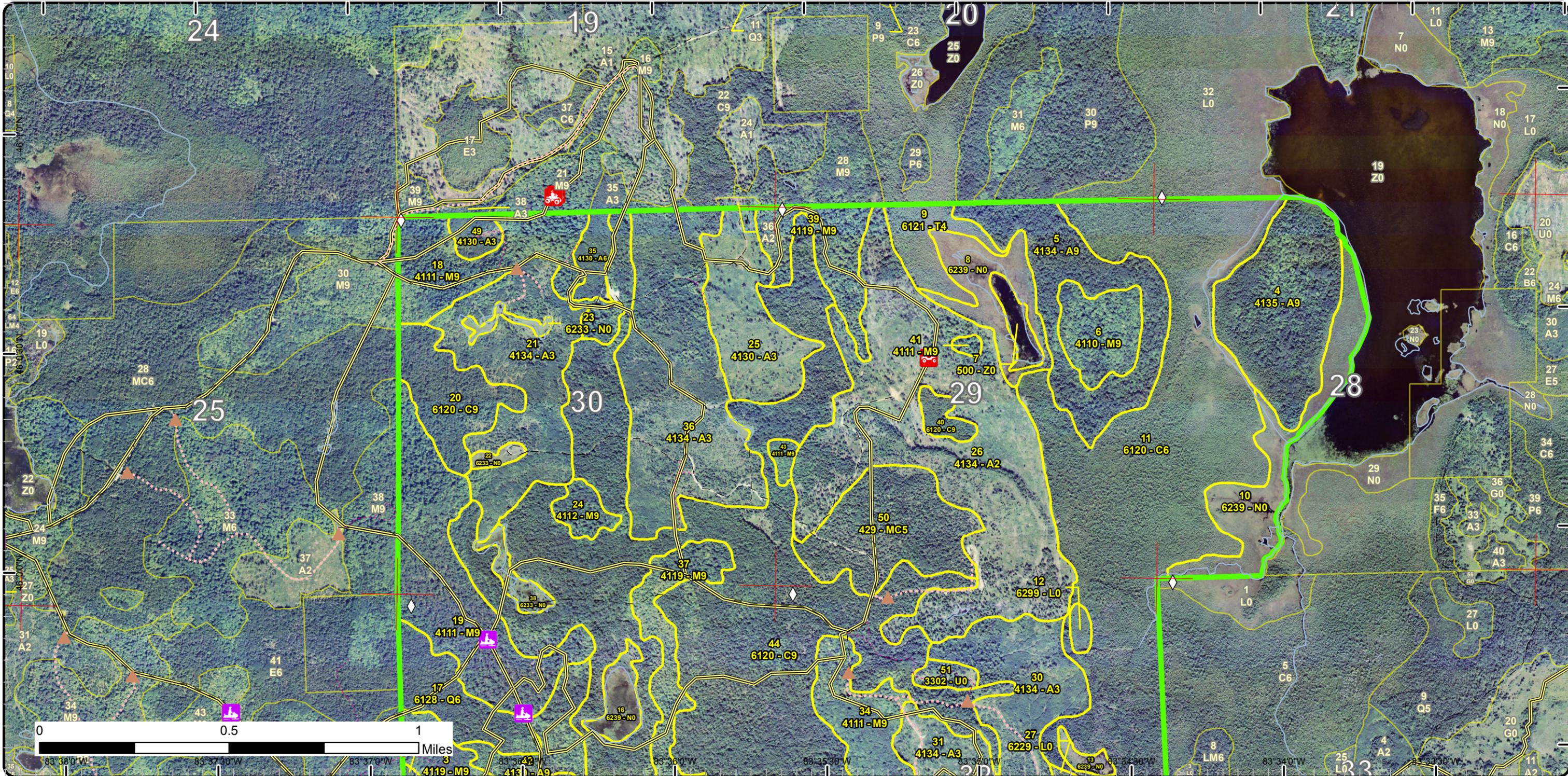


# Stand Boundary Map



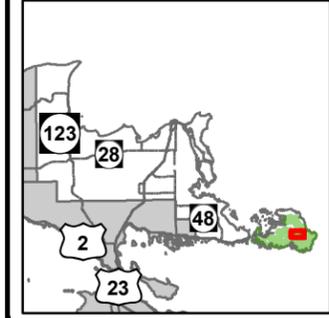
Compartment: 17  
 T42N, R07E, Sec: 28 - 32  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Drummond Island  
 YOE: 2017  
 Acres: 2855 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/10/2015  
 Map Phase: Review

- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- - Poor Dirt Roads
- · - · Trail (Non-Recreation)
- · · · Closed Roads
- ▲ Berms
- 🚙 ORV Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Rivers
- Stand Boundaries
- Forest Covertype
  - 411 - Northern Hardwood
  - 413 - Aspen
  - 429 - Mixed Upland Conifers
  - 612 - Lowland Coniferous Forest
- Non-Forest Covertype
  - 330 - Low Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland

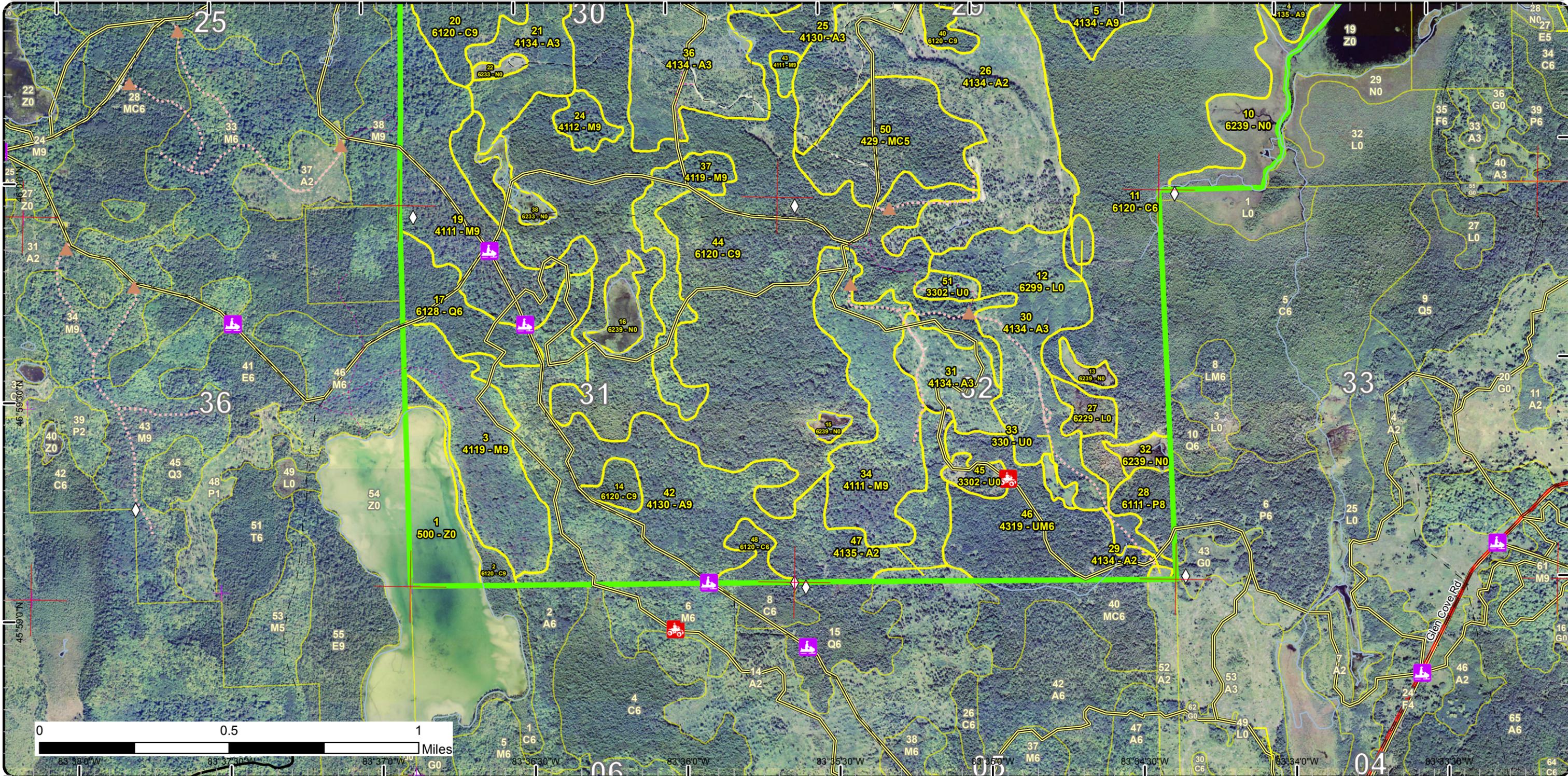


# Stand Boundary Map

Compartment: 17  
 T42N, R07E, Sec: 28 - 32  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Drummond Island  
 YOE: 2017  
 Acres: 2855 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/10/2015  
 Map Phase: Review

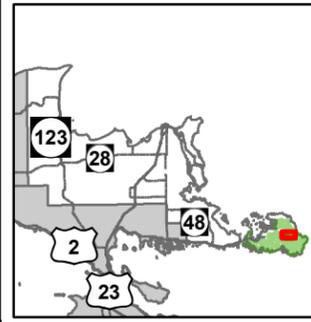


- Remonumented Section Corners
- Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Berms
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Rivers
- Stand Boundaries
- Forest Covertypes**
  - 411 - Northern Hardwood
  - 413 - Aspen
  - 429 - Mixed Upland Conifers
  - 430 - Upland Mixed Fores
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
- Non-Forest Covertypes**
  - 330 - Low Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland

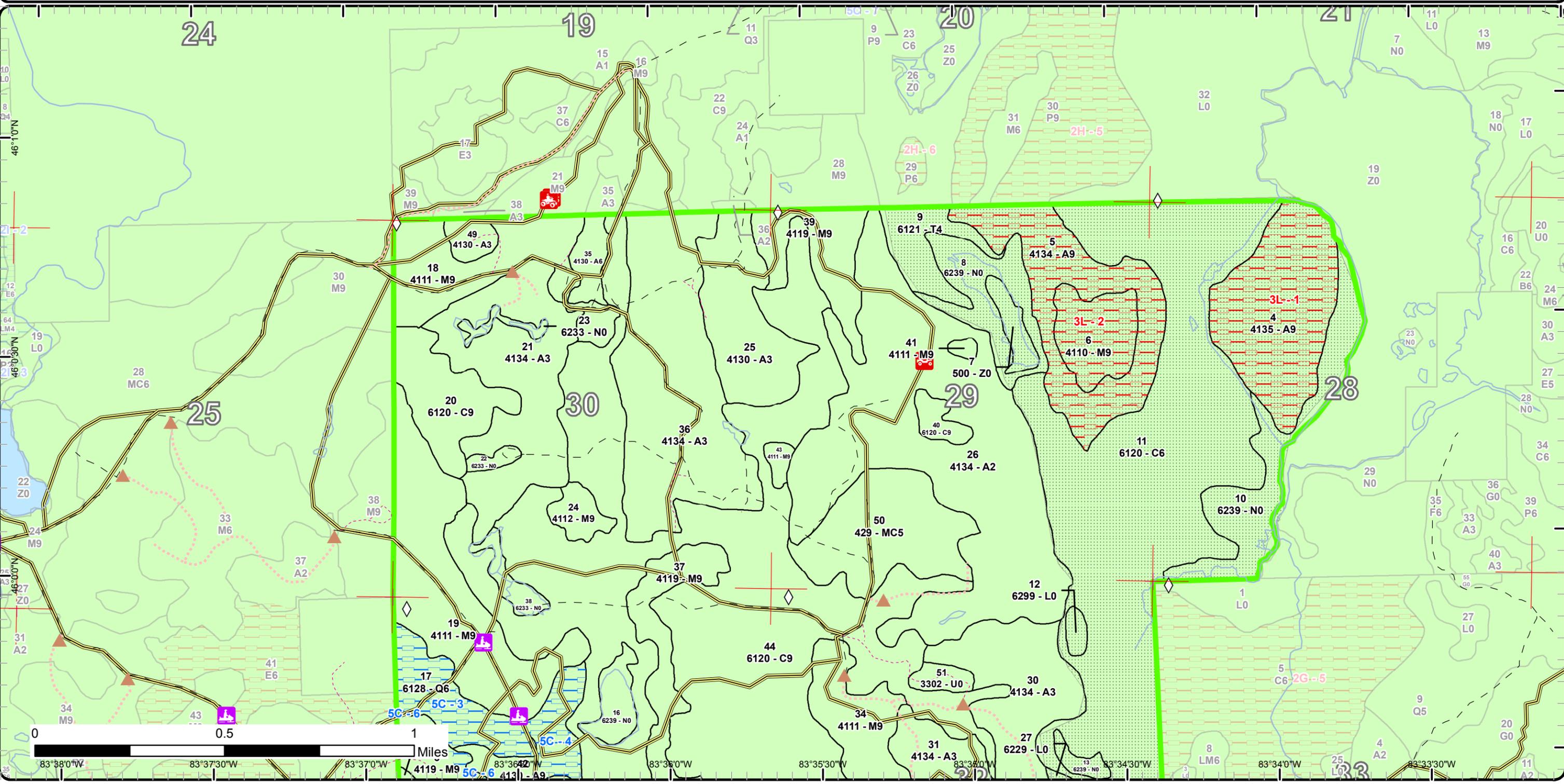


# Special Conservation Areas & Site Conditions Map

Compartment: 17  
 T42N, R07E, Sec: 28 - 32  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Drummond Island  
 YOE: 2017  
 Acres: 2855 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/10/2015  
 Map Phase: Review

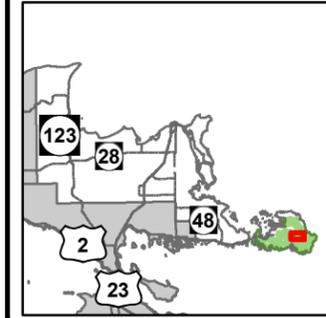


- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- ⋯ Closed Roads
- ▲ Berms
- 🛵 ORV Trails
- 🚗 ORV Routes
- 🏠 Snowmobile Trails
- Rivers
- ▭ Stand Boundaries
- ⋯ SCA
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 3L: Other wildlife concerns
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- Great Lakes Islands
- Other Habitat Area
- Potential Old Growth

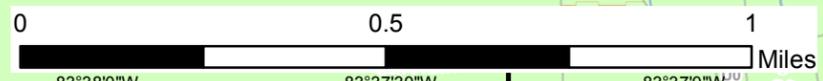
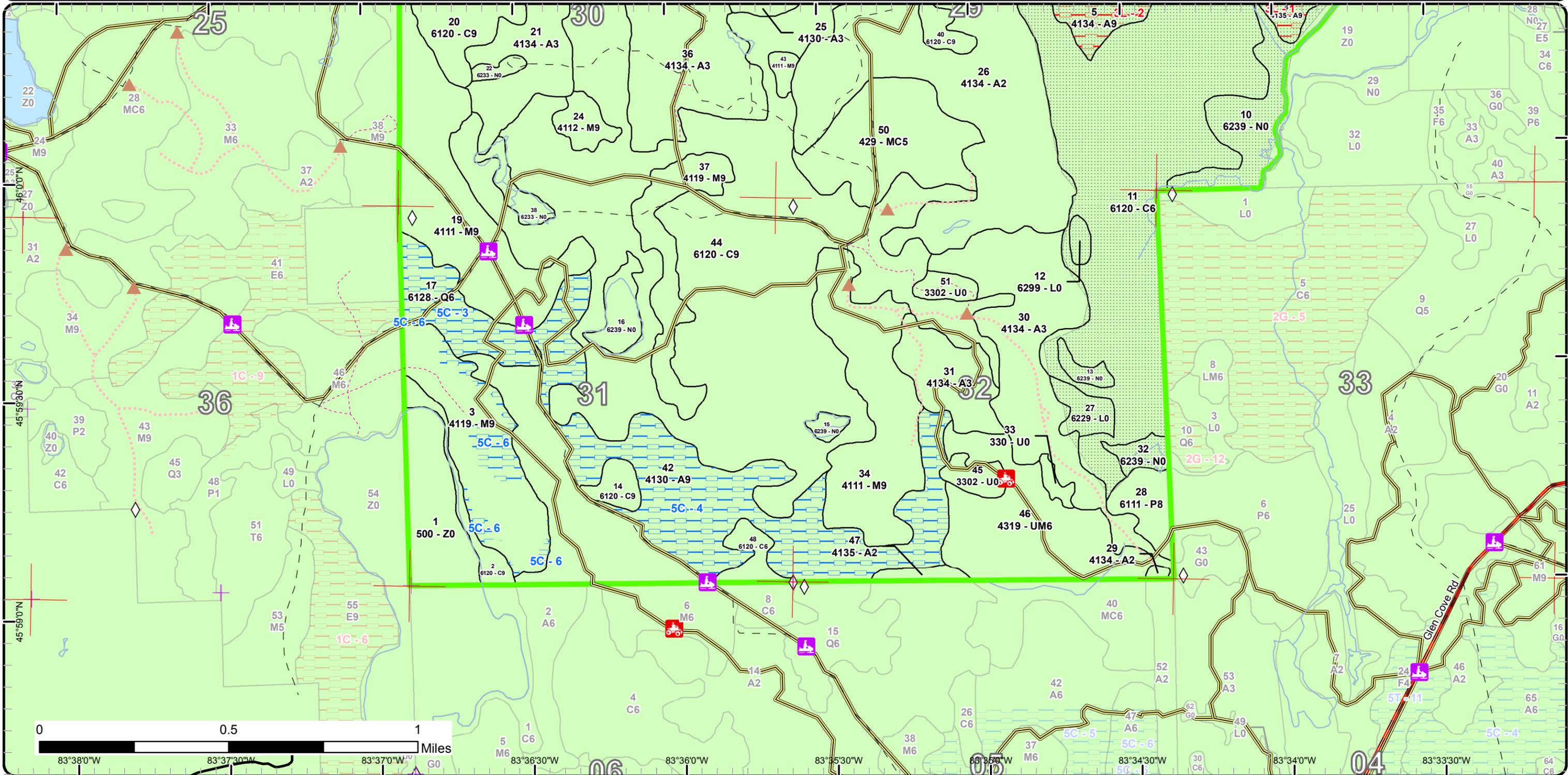


# Special Conservation Areas & Site Conditions Map

Compartment: 17  
 T42N, R07E, Sec: 28 - 32  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Drummond Island  
 YOE: 2017  
 Acres: 2855 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/10/2015  
 Map Phase: Review



- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- ⋯ Closed Roads
- ▲ Berms
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Rivers
- Stand Boundaries
- Recommendation**
- ▨ SCA
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 3L: Other wildlife concerns
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- Great Lakes Islands
- Other Habitat Area



83°38'0"W 83°37'30"W 83°37'0"W 83°36'30"W 83°36'0"W 83°35'30"W 83°35'0"W 83°34'30"W 83°34'0"W 83°33'30"W

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	323	324	20	0	0	0	0	0	225	161	0	0	0	0	0	0	0	1053
Cedar	0	0	0	0	0	0	0	0	0	912	0	0	18	0	0	0	0	0	930
Low-Density Trees	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	35
Lowland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Marsh	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135
Northern Hardwood	0	0	0	0	0	0	0	0	61	177	125	70	0	0	0	0	0	0	433
Tamarack	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24
Upland Conifers	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0	67
Upland Mixed Forest	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	0	0	78
Water	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
<b>Total</b>	<b>218</b>	<b>323</b>	<b>324</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>67</b>	<b>156</b>	<b>1349</b>	<b>286</b>	<b>70</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2855</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2017

Acres of Harvest

Compartment 17  
Total Compartment Acres: 2,855

Commercial Harvest - 293  
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	70	0	0	0	0	0	0	0	0	70
Lowland Aspen/Balsam Poplar	17	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	0	206	0	206
<b>Total</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>206</b>	<b>0</b>	<b>293</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	293	0	0	0	0	0	227	0	0	520
Next Step	0	0	206	0	0	206	293	0	0	706
<b>Total</b>	<b>293</b>	<b>0</b>	<b>206</b>	<b>0</b>	<b>0</b>	<b>206</b>	<b>520</b>	<b>0</b>	<b>0</b>	<b>1226</b>



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
3	45017003-Cut	46.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	102	111- 140	Harvest	Salvage	411 - Northern Hardwood	Uneven- Aged	Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Remove all beech and ash except those marked for retention. Cutting of operational trees that is required to maneuver in the stands will be allowed. The beech and/or ash will be cruised and any hardwood that is cut during the harvest will be piled and scaled. The price for hardwood pulp will be set higher than average to deter the cutting of more trees than is necessary. 1-3 beech and/or ash per acre will be marked with green paint as retention trees focusing on those that look resistant, have significant bear claw marks or are large and wolfy.

Next Step Monitoring, Natural Regen (Intermediate); Pesticide, Other - Specify; Planting, Underplant  
Treatments:

Acceptable Maple, Beech, Cherry, Ironwood, Ash, Fir, Spruce, Pine, Birch  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

18	45017018- OOYOE-Cut	30.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	78	81-110	Harvest	Salvage	4112 - Maple, Beech, Cherry Association	Uneven- Aged	Field Boundary
----	------------------------	------	---	-------------------	----	--------	---------	---------	---	-----------------	----------------

**Habitat Cut: No****Site Condition:**

Prescription Remove all beech and ash except those marked for retention. Cutting of operational trees that is required to maneuver in the stands will be allowed. The beech and/or ash will be cruised and any hardwood that is cut during the harvest will be piled and scaled. The price for hardwood pulp will be set higher than average to deter the cutting of more trees than is necessary. 1-3 beech and/or ash per acre will be marked with green paint as retention trees focusing on those that look resistant, have significant bear claw marks or are large and wolfy.

Next Step Monitoring, Natural Regen (Intermediate); Pesticide, Other - Specify; Planting, Underplant  
Treatments:

Acceptable  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/15/2013

19	45017019-Cut	38.5	4111 - S.Maple, Hard Mast Association	Sawtimber Well	82	81-110	Harvest	Salvage	411 - Northern Hardwood	Uneven- Aged	Field Boundary
----	--------------	------	---	-------------------	----	--------	---------	---------	----------------------------	-----------------	----------------

**Habitat Cut: No****Site Condition:**

Prescription Remove all beech and ash except those marked for retention. Cutting of operational trees that is required to maneuver in the stands will be allowed. The beech and/or ash will be cruised and any hardwood that is cut during the harvest will be piled and scaled. The price for hardwood pulp will be set higher than average to deter the cutting of more trees than is necessary. 1-3 beech and/or ash per acre will be marked with green paint as retention trees focusing on those that look resistant, have significant bear claw marks or are large and wolfy.

Next Step Monitoring, Natural Regen (Intermediate); Pesticide, Other - Specify; Planting, Underplant  
Treatments:

Acceptable  
Regen:

Other Approved via the post compartment review process. Old next step comments:  
Comment:

Proposed Start Date: 12/9 /2014



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
24	45017024-Cut	8.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	81-110	Harvest	Salvage	411 - Northern Hardwood	Uneven-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Remove all beech and ash except those marked for retention. Cutting of operational trees that is required to maneuver in the stands will be allowed. The beech and/or ash will be cruised and any hardwood that is cut during the harvest will be piled and scaled. The price for hardwood pulp will be set higher than average to deter the cutting of more trees than is necessary. 1-3 beech and/or ash per acre will be marked with green paint as retention trees focusing on those that look resistant, have significant bear claw marks or are large and wolfy.

Next Step Monitoring, Natural Regen (Intermediate); Pesticide, Other - Specify; Planting, Underplant  
Treatments:

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/7 /2015

26	45017026-Monitor	227.0	4134 - Aspen, Spruce/Fir	Sapling Medium	3	Immatu re	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	Proposal
----	------------------	-------	--------------------------	----------------	---	-----------	------------	------------------------------	-------------	-----------	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Check regen as per the work instructions  
Specs:

Next Step Treatments:

Acceptable Regen: Acceptable regeneration includes aspen, birch, maple, fir, spruce, pine, cedar.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2019

28	45017028-Cut	16.6	6111 - Lowland Balsam Poplar	Sawtimber Medium	72	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Proposal
----	--------------	------	------------------------------	------------------	----	-------	---------	-------------------------	----------------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Stay out of patches of thick. Stay out of areas with heavy tag alder understory.  
Specs:

Next Step Treatments:

Acceptable Regen: Acceptable regeneration includes aspen, balsam poplar, spruce, fir, birch.

Other Comment: Cut with adjacent stand in compartment 18. Old next step comments:

Proposed Start Date: 10/1 /2016

34	45017034-Cutx	43.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	93	81-110	Harvest	Salvage	411 - Northern Hardwood	Uneven-Aged	Field Boundary
----	---------------	------	---------------------------------------	----------------	----	--------	---------	---------	-------------------------	-------------	----------------

**Habitat Cut: No**

**Site Condition:**

Prescription Remove all beech and ash except those marked for retention. Cutting of operational trees that is required to maneuver in the stands will be allowed. The beech and/or ash will be cruised and any hardwood that is cut during the harvest will be piled and scaled. The price for hardwood pulp will be set higher than average to deter the cutting of more trees than is necessary. 1-3 beech and/or ash per acre will be marked with green paint as retention trees focusing on those that look resistant, have significant bear claw marks or are large and wolfy.

Next Step Monitoring, Natural Regen (Intermediate); Pesticide, Other - Specify; Planting, Underplant  
Treatments:

Acceptable Regen:

Other Comment: Approved via the post compartment review process. Old next step comments:

Proposed Start Date: 12/8 /2014



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	45017037-Cut	19.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	86	81-110	Harvest	Salvage	411 - Northern Hardwood	Uneven-Aged	Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Remove all beech and ash except those marked for retention. Cutting of operational trees that is required to maneuver in the stands will be allowed. The beech and/or ash will be cruised and any hardwood that is cut during the harvest will be piled and scaled. The price for hardwood pulp will be set higher than average to deter the cutting of more trees than is necessary. 1-3 beech and/or ash per acre will be marked with green paint as retention trees focusing on those that look resistant, have significant bear claw marks or are large and wolfy.

Next Step Treatments: Pesticide, Other - Specify; Planting, Underplant; Monitoring, Natural Regen (Intermediate)

Acceptable Regen:

Other Comment: Approved via the post compartment review process. Old next step comments:

Proposed Start Date: 12/9 /2014

39	45017039-Cut	20.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	86	81-110	Harvest	Salvage	411 - Northern Hardwood	Uneven-Aged	Field Boundary
----	--------------	------	---------------------------------	----------------	----	--------	---------	---------	-------------------------	-------------	----------------

**Habitat Cut: No**

**Site Condition:**

Prescription Remove all beech and ash except those marked for retention. Cutting of operational trees that is required to maneuver in the stands will be allowed. The beech and/or ash will be cruised and any hardwood that is cut during the harvest will be piled and scaled. The price for hardwood pulp will be set higher than average to deter the cutting of more trees than is necessary. 1-3 beech and/or ash per acre will be marked with green paint as retention trees focusing on those that look resistant, have significant bear claw marks or are large and wolfy.

Next Step Treatments: Monitoring, Natural Regen (Intermediate); Pesticide, Other - Specify; Planting, Underplant

Acceptable Regen:

Other Comment: Approved via the post compartment review process. Old next step comments:

Proposed Start Date: 12/9 /2014

42	45017042-Cut	70.3	4130 - Aspen	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
----	--------------	------	--------------	----------------	----	---------	---------	-------------------------	-------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more to maintain the early successional habitat for deer, ruffed grouse, & other wildlife. Leave at least 1 acre retention patches. Do not cut oak and cedar due to their value to wildlife. Stay out of cedar patches. Only go into hardwood patches to cut aspen beech and paper birch. Stay off the rocky ledges.

Next Step Treatments:

Acceptable Regen: Acceptable regeneration includes aspen, birch, maple, spruce, fir, cedar, hemlock, beech, oak.

Other Comment: Only treat a smaller portion of the stand at this treatment. Old next step comments:

Proposed Start Date: 10/1 /2021

**Total Treatment Acreage Proposed: 520.2**

## Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 17

Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
-------------	-----------------	--------------------------------	---------------------

### Dominant Site Conditions

5C 3L

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	5C	3L
1054	738	155	161	Aspen	155	161
930	930	0	0	Cedar		
19	19	0	0	Low-Density Trees		
17	17	0	0	Lowland Aspen/Balsam Poplar		
35	0	35	0	Lowland Conifers	35	
14	14	0	0	Lowland Shrub		
135	135	0	0	Marsh		
433	383	20	30	Northern Hardwood	20	30
24	24	0	0	Tamarack		
67	67	0	0	Upland Conifers		
78	78	0	0	Upland Mixed Forest		
50	50	0	0	Water		
2,855	2,454	210	191	Total Forested Acres	210	191
	86%	7%	7%	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	3L: Other wildlife concerns	85	2E: Road needed	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
<b>Comments:</b> DHA							
2	Unavailable	3L: Other wildlife concerns	107	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> DHA							

## Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 17

Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	155	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



**Report 6 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS**

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
	Habitat Areas or Corridors	Other Habitat Area	<b>Proposed SCA</b>	667
<b>Comments</b>				
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.				



### Report 7 – 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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	Sawtimber Well	12.5	85	141-170	Strip of cedar along the shore of Dry Lake. Area to the south near the compartment line is more open with some ash and tag alder.
3	4119 - Mixed Northern Hardwoods	Sawtimber Well	70.1	102	111-140	Nice hardwood stand bordering Dry Lake. Some areas of exposed bed rock with deep cracks. Regen looks like it is mostly maple with some of the more open areas being dominated by beech. Lots of diseased beech. Stand is currently on proposal for a salvage operation.
4	4135 - Aspen, Cedar	Sawtimber Well	84.9	90	111-140	Island I will be trying to get out to with the CO this summer.
5	4134 - Aspen, Spruce/Fir	Sawtimber Well	76.5	94	141-170	Stand is mostly aspen/birch in the area adjacent to the hardwood then as you go up into the north finger it gets a little bit lower and turns into the typical aspen over cedar. There is a lot of established maple regeneration in the aspen/birch portion of the stand. The northern part that is aspen over cedar looks like it could be operated in. The thickest cedar is adjacent to the lowland.
6	4110 - Sugar Maple Association	Sawtimber Well	30.0	96	111-140	This is a neat old stand of hardwoods with very large trees. Looks like it is untouched for the most part.
9	6121 - Tamarack	Poletimber Poor	23.5	56	1-50	Most of the cedar in this stand died when the beavers build the dam many years ago. Now there is tamarack growing amongst the cedar snags and stumps with cedar regeneration that is about 5' tall. Up to the north along the compartment line the stand is more of a C6 comparable to the stand in the adjacent compartment.
11	6120 - Lowland Cedar	Poletimber Well	330.5	83	171-200	Stand is really nice cedar along the aspen clearcut edge but as you get closer to Fourth Lake the stand gets small and more
14	6120 - Lowland Cedar	Sawtimber Well	8.7	87	171-200	Stand of cedar that is too thick to cut in. East of the old road the stand gets a little smaller in DBH, more mixed and has a heavier understory. West of the old road it is giant cedar that is open underneath.
17	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	35.2	87	141-170	Mixed conifer stand with some patches of thick cedar. The rest of the stand is more mixed with aspen, spruce and fir.
18	4111 - S.Maple, Hard Mast Association	Sawtimber Well	61.1	78	81-110	Stand was last thinned in 2001 as the Second Lake Hardwood sale. This stand is currently on proposal for beech salvage as the sale Second Lake Beech. There is thick regeneration in portions of this stand especially on the east side. Scattered cedar in the stand. A good size ridge runs through the stand.
19	4111 - S.Maple, Hard Mast Association	Sawtimber Well	97.2	82	81-110	Stand was last thinned in 2012 as part of Smurf Hardwoods. Stand is mostly sugar maple with beech mixed in especially in the north end of the stand. Good regen coming in that is not all beech. Scattered oak, hemlock and cedar.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6120 - Lowland Cedar	Sawtimber Well	40.7	85	171-200	Very large aspen over cedar. Lots of blow down but not a lot of regeneration in the understory. There are some areas in this stand that are operable. The southern portions of the stand seem to be thicker with cedar than the north. The north part of the stand is different and is more of a mixed of aspen and spruce with scattered cedar. A little bit higher ground here.
21	4134 - Aspen, Spruce/Fir	Sapling Well	92.9	19	Immature	Stand was cut in 1996 as part of Second Lake Sale. Regeneration is now 15-20 ft tall mostly aspen with conifers in the understory. Some areas of pole size mixed conifers that were left during harvest. There are areas in the north part of the stand that are more open.
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.5	92	81-110	Stand was last thinned in 2012 as part of Smurf Hardwoods. This stand has a lot of beech with BBD. Scattered hemlock and cedar. Beech brush is just starting to come in.
25	4130 - Aspen	Sapling Well	56.5	4	Immature	Stand was cut in 2011 as part of Rocky Road Aspen. Awesome aspen regeneration with scattered overstory trees. The north end of the stand is a little lower and is mostly balsam poplar. There is a good size ridge in the stand south of the two track.
26	4134 - Aspen, Spruce/Fir	Sapling Medium	227.0	3	Immature	Most of this stand was cut in 2012 with the exception of a few areas that were finished up in 2014. This was part of Rocky Road Aspen. Aspen is coming in very nicely with the only spots lacking regeneration where harvesting took place last winter. Scattered pole size trees throughout the sale. Most of the pine in the stand is at the southern end. Retention left on rock ledges through the middle of the stand.
28	6111 - Lowland Balsam Poplar	Sawtimber Medium	16.6	72	51-80	Low wet stand. The west side of the stand is very wet with tag alder in the understory and an open canopy. The balsam poplar is dying and blowing over.
29	4134 - Aspen, Spruce/Fir	Sapling Medium	1.2	4	Immature	A little piece of aspen clearcut that was cut over the line from compartment 18.
30	4134 - Aspen, Spruce/Fir	Sapling Well	95.7	14	Immature	Stand was cut in 2001 as the Stand 31 Aspen sale. Nice aspen and balsam poplar regeneration in this stand with scattered large poles throughout the stand. Fir and spruce are coming in under the aspen. Southern portion of this stand is more wet and has most of the balsam poplar. The northern portion of this stand has scattered red and white pine that were left during the harvest.
31	4134 - Aspen, Spruce/Fir	Sapling Well	33.5	3	Immature	Stand was cut in 2012 as part of Rocky Road Aspen. Very nice aspen regeneration with balsam and spruce. Regen is getting to be around 5ft tall now. Small pole size maple, ironwood and beech were left in the sale.
34	4111 - S.Maple, Hard Mast Association	Sawtimber Well	84.7	93	81-110	South half of this stand was thinned in 2012 as part of Smurf Hardwoods. This portion of the stand is more of a pole size stand. There is a drainage separating this area from the northern portion of the stand. Most of the beech is in the northern part of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4130 - Aspen	Poletimber Well	11.5	21	51-80	Stand was cut in 1994 as part of Second Lake Sale. Right on the edge of a sapling/pole stand. Aspen over spruce/fir with some scattered larger dbh trees.
36	4134 - Aspen, Spruce/Fir	Sapling Well	135.7	19	Immature	Stand was cut in 1996 as part of Second Lake Road Sale. Came back fairly nicely after harvest. Some areas where bedrock is close to the surface have come back to more of a MC type with a more open canopy than areas of aspen. Scattered log and pole size aspen, oak, white pine left during harvest. There is a patch of "retention" that was left toward the north end of the stand that is pole size spruce and fir. In the future we might be able to type out the MC types from the
37	4119 - Mixed Northern Hardwoods	Sawtimber Well	38.4	86	81-110	Stand was last thinned in 2001 as the timber sale Hook Hardwoods. Fair amount of beech in this stand. Scattered conifers throughout the stand. Stand is access from a skid trail at the north end or along the orv trail towards the south.
39	4119 - Mixed Northern Hardwoods	Sawtimber Well	34.8	86	81-110	The east half of this stand was thinned in 2011 and the west half was thinned in 2012. Typical of hardwood stands on the island it has aspen and birch mixed in along the fringes. Not a lot of regen in the understory. Beech is diseased.
40	6120 - Lowland Cedar	Sawtimber Well	7.8	110	201+	Cedar stand that was excluded from the adjacent clearcut. There is hardly anything in the understory of this stand besides blowdowns.
41	4111 - S.Maple, Hard Mast Association	Sawtimber Well	2.1	87	81-110	Pocket of hardwoods that was excluded from the clearcut. Giant basswood in this stand.
42	4130 - Aspen	Sawtimber Well	225.3	86	111-140	Stand of really nice aspen and paper birch. There is scattered cedar in the stand. Some small patches of hardwood can be found in the southern part of the stand. There are some cool rock ledges to the west of the snowmobile trail.
43	4111 - S.Maple, Hard Mast Association	Sawtimber Well	4.0	88	81-110	Very nice stand of large hardwood. There is no record in the file of this stand being thinned. Typical of Drummond hardwood stands there is aspen along the edges. Not a lot of regeneration in the understory..
44	6120 - Lowland Cedar	Sawtimber Well	519.7	86	141-170	Large cedar stand. It is pretty neat how most of this stand is low but there is also some rocky ledges . Some of the higher ground is supporting groves of hardwood. There isn't much growing in the understory but there are some areas of thick spruce/fir.
46	4319 - Mixed Upland Forest	Poletimber Well	78.0	77	111-140	Different stand of spruce with aspen/birch. The soil in this stand is quite rocky. It looks like this stand was cleared in the past and has grown in over the years. There is thick spruce regen in most of the stand. there are some pockets of better quality aspen. Showing some signs of spruce bud worm.
47	4135 - Aspen, Cedar	Sapling Medium	5.2	4	Immature	Aspen clearcut from the adjacent compartment. Cedar was left during the harvest.

S  
t  
a  
n  
d

Sault Ste. Marie Mgt. Unit

## Report 8 – Forested Stands

Compartment: 17  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	6120 - Lowland Cedar	Poletimber Well	10.3	111	141-170	Area of cedar in the aspen complex. The southern portion of the stand is the most pure cedar. It is more mixed at the north end of the stand. Very little in the understory besides blow downs. The north end is drier.
49	4130 - Aspen	Sapling Well	8.4	24	Immature	This stand was cut in 1991 as part of Second Lake Sale. Aspen is doing well and is almost to a pole size stand.
50	429 - Mixed Upland Conifers	Poletimber Medium	66.6	65	51-80	Stand of white pine and white spruce. Shallow rocky soils have resulted in a poor quality stand. I am guessing this stand has slowly regenerated from a rocky opening. Scattered patches of cedar in the stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	500 - Water	40.5	No	
7	500 - Water	9.3	No	Stand has a beaver dam along the south edge with two beaver lodges in the pond.
8	6239 - Mixed Emergent Wetland	34.2	No	Wetland stand with cattails and dead cedar.
10	6239 - Mixed Emergent Wetland	54.4	No	
12	6299 - Lowland Shrub (OI)	3.9	No	
13	6239 - Mixed Emergent Wetland	5.1	No	There is water flowing in this stand that was open even in march when everything else was froze. Mostly wetland species with scattered tamaracks and stumps/snags. Old beaver dam stretches the whole south side of this stand.
15	6239 - Mixed Emergent Wetland	3.6	No	Stand is seasonally flooded mostly grasses.
16	6239 - Mixed Emergent Wetland	13.7	No	Pond is seasonally flooded and might hold some water year round.
22	6233 - Wet Meadow	3.7	No	This stand is seasonally flooded. A few scattered trees but mostly a grass opening.
23	6233 - Wet Meadow	4.2	No	This stand is seasonally flooded. Mostly grasses with scattered trees.
27	6229 - Mixed lowland shrub	10.1	No	Old Beaver flooding. A cone of balsam poplar in the stand along with lots of shrubs. Beaver dam on north side of the stand.
32	6239 - Mixed Emergent Wetland	7.4	No	Beaver Flooding.
33	330 - Low-Density Trees	3.7	No	Herbaceous open land with a low density of trees. Mostly aspen and fir.
38	6233 - Wet Meadow	8.9	No	Stand is seasonally flooded. Mostly grasses with scattered trees(aspen, tamarack).
45	3302 - Low Density Conifer Trees	8.5	No	This stand will be forested next time or just wrapped into the adjacent stand. It was an opening at one time that is growing in with spruce. Most of the spruce is less than 3' tall with scattered pole size trees.
51	3302 - Low Density Conifer Trees	6.7	No	This is the old Finn Camp opening that is growing in with spruce trees. There is a rock pile in the opening and a rock fence along the edge of the woods.