



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 182

Entry Year 2015

Acreage: 2,184

County Mackinac

Management Area: County Line Hardwoods

Revision Date: 06/05/2013

Stand Examiner: Cory Luoto

Legal Description:

T44N-R11W, Sections 3-5, 10 & 11

Identified Planning Goals:

This compartment is located about three miles northeast of Curtis. The northern part of the Black Creek Flooding lies within compartment boundaries. The majority of the compartment is lowland swamp conifer and cedar. Other timber types include lowland poplar, lowland hardwoods, northern hardwoods, aspen and a red pine stand. The aspen and spruce – fir types are regenerating nicely and the hardwoods and red pine need regular treatments to promote health and growth.

Soil and topography:

Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch Complexes. Upland are generally Amadon-Rock outcrop complex, Menominee loamy sand, Wallace sand, and Paquin sand. Level lowlands to rolling uplands.

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

The compartment is bordered by state land to the southwest, the northeast, and the east. The far southern portion of the compartment is primarily private. There are also several parcels of private land along the eastern and western portion of the compartment. The Mackinac/Luce County line is the north boundary.

Unique Natural Features:

Within the Western portion of the compartment there is a great blue heron rookery, osprey nests, an eagle nest, and the Black Creek headwaters.

Archeological, Historical, and Cultural Features:

The northern portion of the Black Creek Wildlife Flooding lies in section 5. The Tahquamenon Area School Forest is adjacent to the compartment.

Special Management Designations or Considerations:

Some stands within this compartment are only accessible in the winter through private land. ORV trails will be maintained and signed when harvesting stands.

Watershed and Fisheries Considerations:

This compartment contains the upper Black Creek above the Black Creek Flooding near Big Manistique Lake. No file information exists for these small streams. Implementation of BMP's will aid in preventing sediment input from road crossings and upland areas are critically important to protect spawning areas for stream-resident fishes.

Wildlife Habitat Considerations:

Compartment 182 is located in the County Line Hardwoods Management Area. Cedar swamp and marsh are common here. Part of the Black Creek Flooding State Wildlife Management Area is located on the western side of the compartment. Northern hardwoods and some aspen are located on the far eastern side. Species use of the compartment includes, but is not limited, to white-tailed deer, snowshoe hare, bobcat, black bear, coyote, beaver, otter, mink, eagles, osprey, and waterfowl including mallards and wood ducks.

Wildlife objectives in this compartment are to maintain and enhance species and structural diversity within the hardwood forests, and maintain the cedar cover. A component of beech will be retained in northern hardwoods, and some large wolfy trees will be left for potential hawk nests and future cavity nesting species. Cedar stands will be retained to provide wintering cover for white-tailed deer as well as habitat for bobcat, black bear, and numerous other wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and coarse-textured glacial till to the west. The glacial drift thickness varies from insufficient data to determine thickness to 10 to 50 feet. The Silurian Burnt Bluff Group subcrops below the glacial drift. The Burnt Bluff is quarried for stone/limestone elsewhere in the UP. Gravel pits are

located to the south and there may be potential on the uplands. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the eastern portion of the compartment is limited to Forest Trail which is a poorer quality county road. The hardwood stands have fairly good access from old logging two tracks. The interior of the compartment has a two track and several ice-roads but these originate on private land. Large portions of the compartment are inaccessible.

Survey Needs:

None

Recreational Facilities and Opportunities:

Snowmobile trail #457 traverses the southeast portion of the compartment. The Sandtown Motorcycle trail also traverses this same corner of the compartment. As much as possible, avoid the motorcycle trail; cut ORV marker trees above the markers whenever possible. Keep all trails clear of logging slash and debris.

Fire Protection:

The compartment cover types and low ground limit potential for any large scale fire problems. The potential for fire exists where human activity is present and in adjoining private lands. Access would be a problem for any fires occurring in the compartments interior. Vehicle access is very limited. Any fires in the lower areas would pose potential mop-up problems.

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**

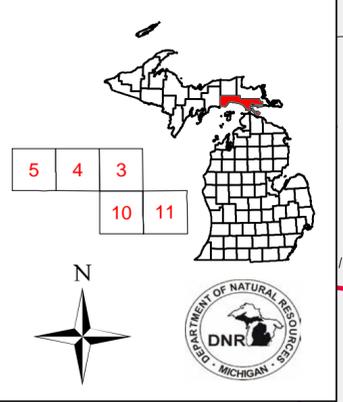
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

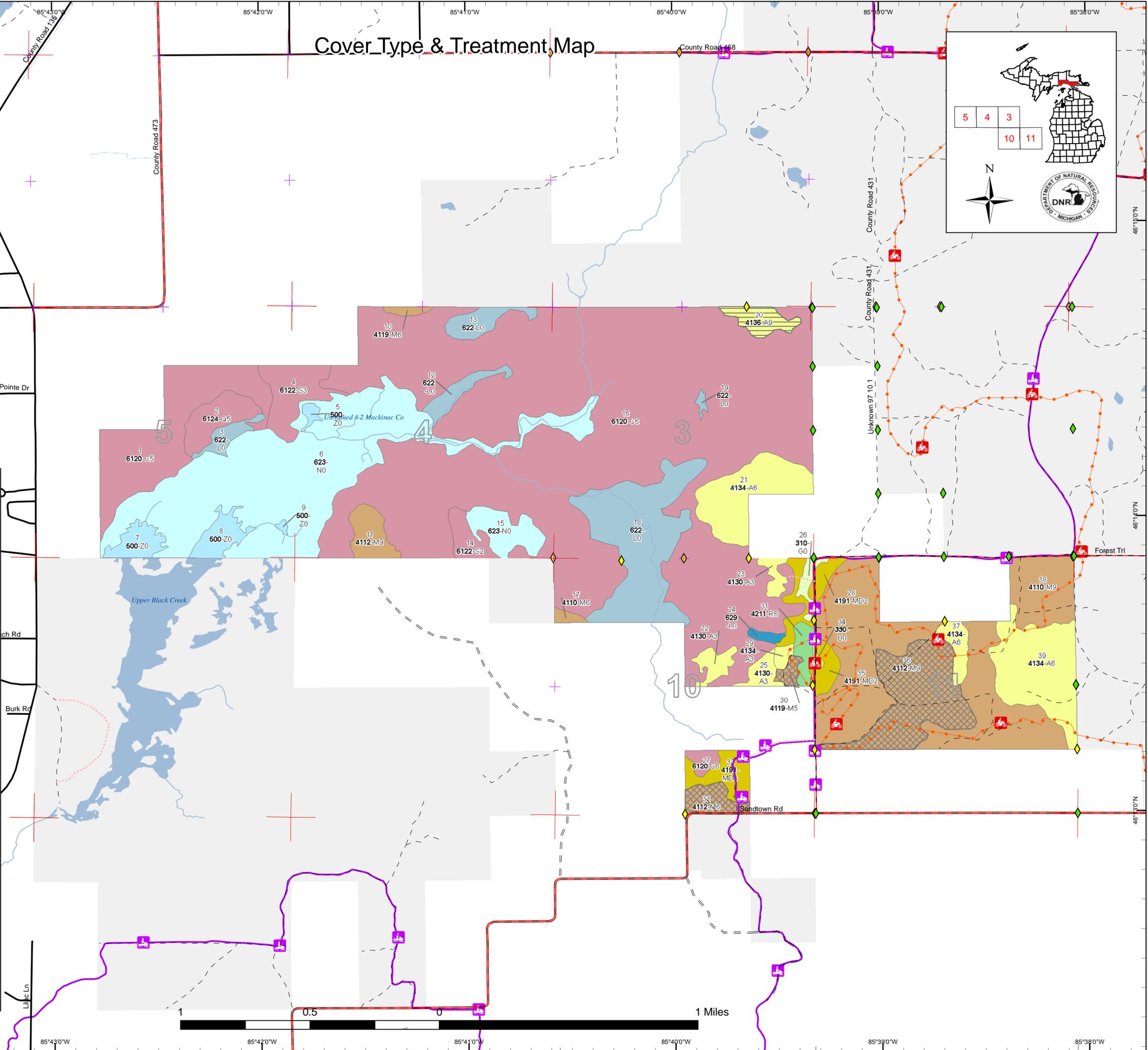
Compartment: 182
 T44N R11W Sections 3-5, 10, 11
 County: Mackinac
 Unit: Sault Ste. Marie
 YOY: 2015
 Acres: 2,184 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 06/17/2014
 Map Phase: Post-Review

Stand #
 23
 Stacking
 Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

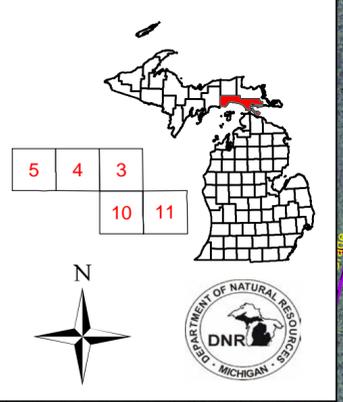
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- Remunented Section Corners
- DNR Survey Grade Corners
- PLSS Corner
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
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- Trail (Non-Recreation)
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- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Treatments Post Review
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)
- Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands
 - Level 3
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested wetland



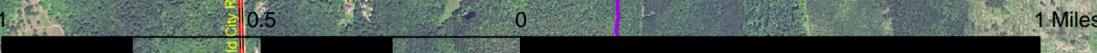
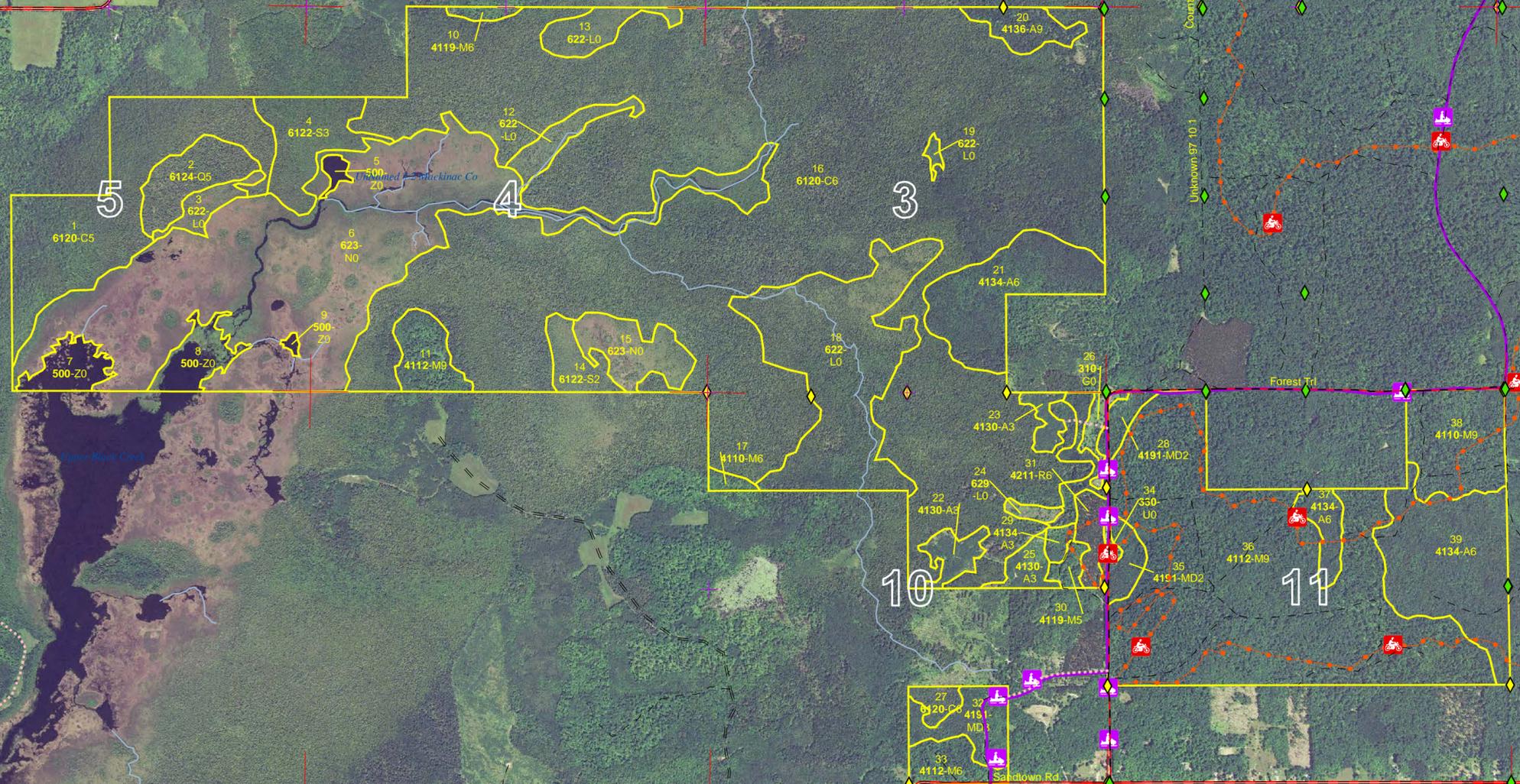
Stand Boundary Map

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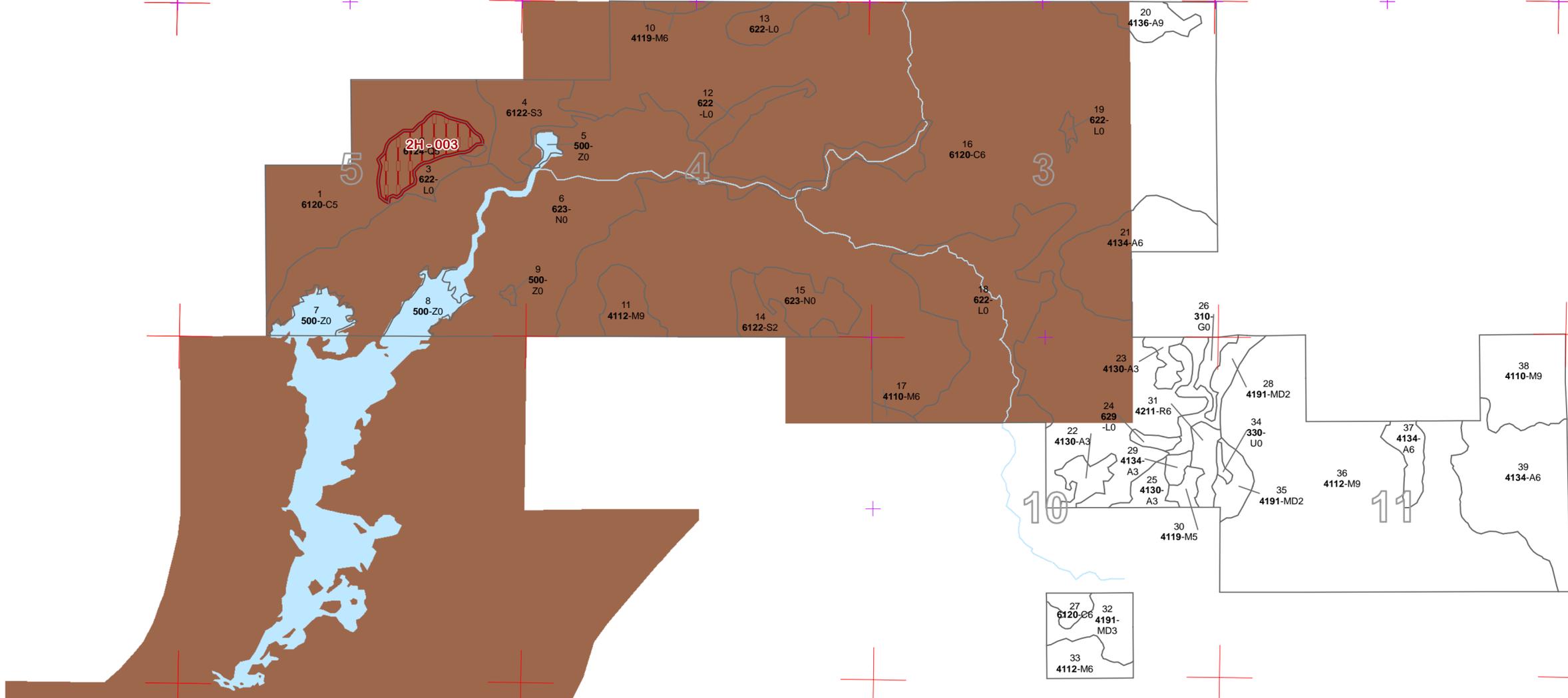
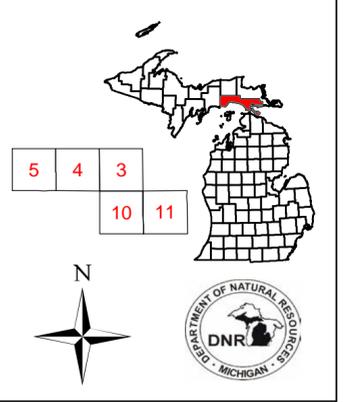
- Legend**
- Miris Corners
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 - ◆ PLSS Corner
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Special Conservation Areas & Site Conditions Map

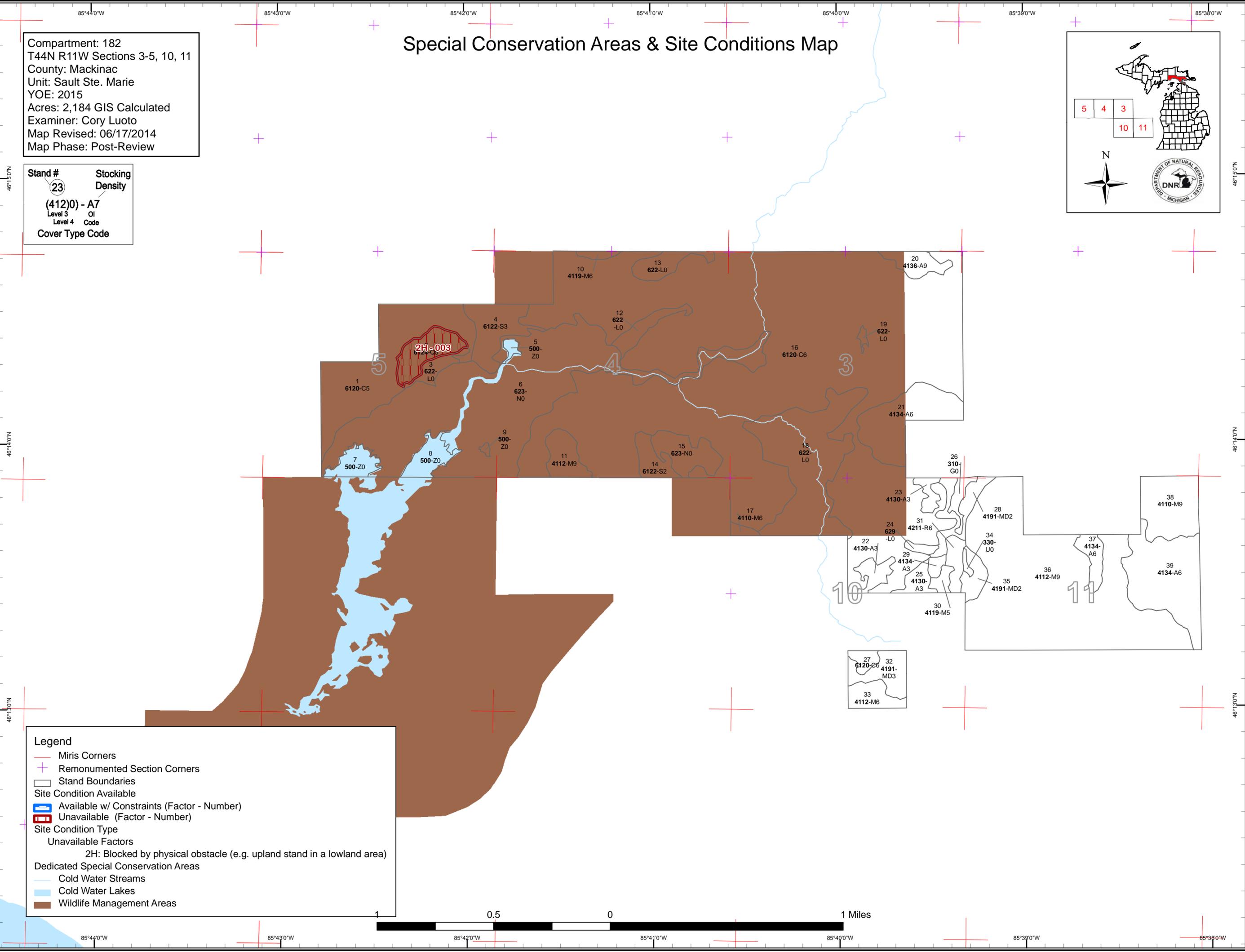
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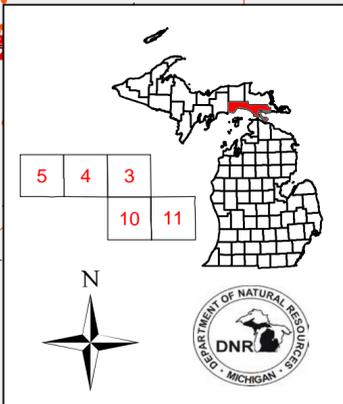
- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Unavailable Factors
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Dedicated Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas



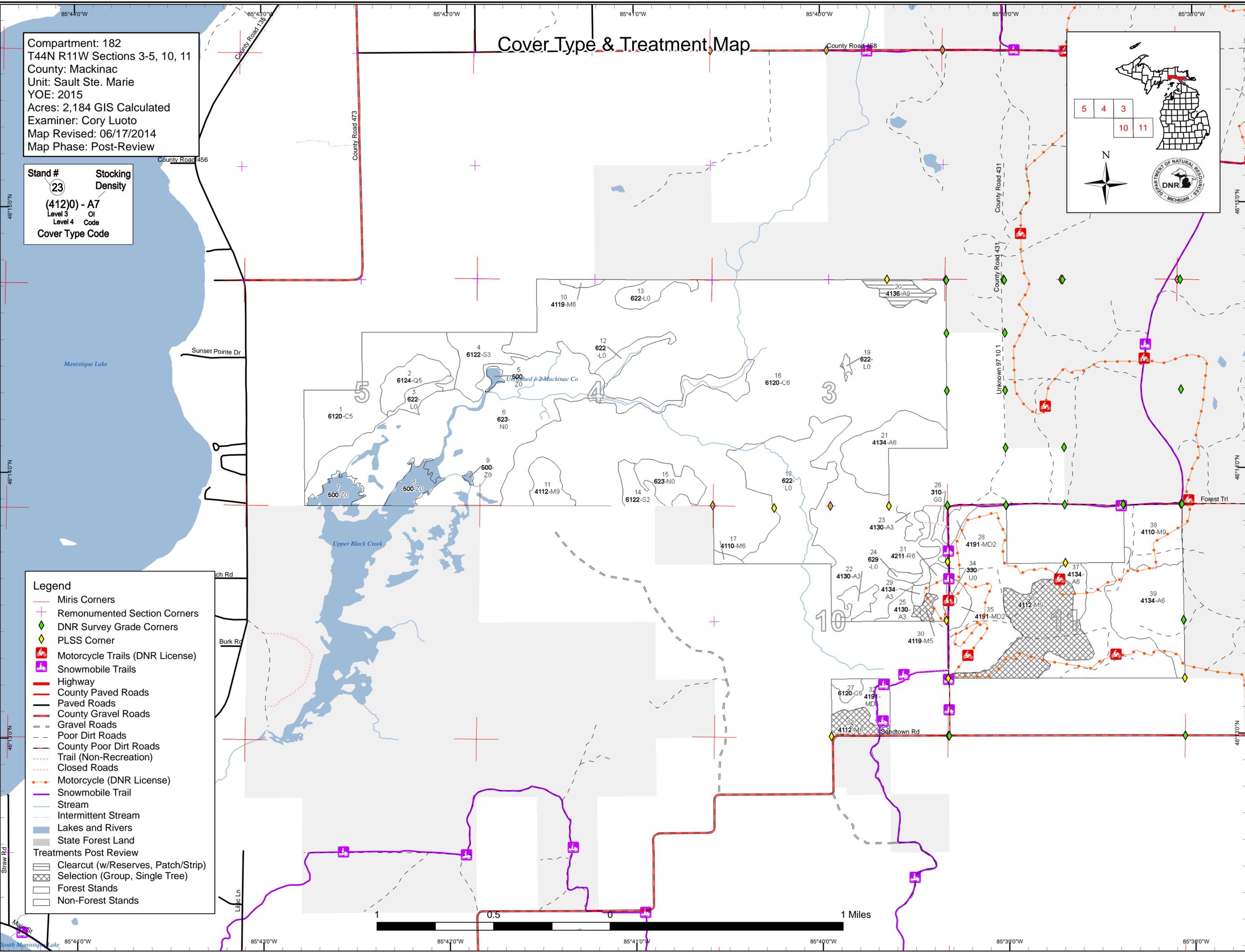
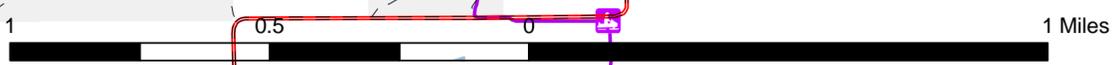
Cover Type & Treatment Map

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 County: Mackinac
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 - ▨ Treatments Post Review
 - ▨ Clearcut (w/Reserves, Patch/Strip)
 - ▨ Selection (Group, Single Tree)
 - ▨ Forest Stands
 - ▨ Non-Forest Stands



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	24	15	124	0	14	0	0	0	0	0	0	0	0	176
Cedar	0	0	0	0	0	0	0	0	0	98	0	952	0	0	1050
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	23	0	23
Lowland Shrub	147	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Lowland Spruce/Fir	0	0	0	0	0	45	0	0	0	0	0	0	0	0	45
Marsh	301	0	0	0	0	0	0	0	0	0	0	0	0	0	301
Mixed Upland Deciduous	0	0	48	0	0	0	0	0	0	0	0	0	0	0	48
Northern Hardwood	0	0	0	0	0	0	14	8	281	41	0	0	0	0	345
Red Pine	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Water	33	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Total	488	24	63	124	0	59	24	8	281	139	0	952	23	0	2184



Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2015

Compartment 182
Total Compartment Acres: 2,184

Acres by Treatment Type

Commercial Harvest - 110 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen Types	14	0	0	0	0	0	14
Northern Hardwood	0	96	0	0	0	0	96
Total	14	96	0	0	0	0	110



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	45182020-Cut	13.7	4136 - Aspen, Mixed Conifer	High Density Log	53		Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Clearcut with reserves following the retention guidelines. Leave mature aspen, and scattered conifer along edge.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Cut this stand with adjacent stand 58 in Newberry compartment 107 because of access.</p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										

30	45182030-Cut	4.8	4119 - Mixed Northern Hardwoods	Medium Density Pole	73	81-110	Harvest	Single Tree Selection	4113 - R.Maple, Conifer	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										

33	45182033-Cut	14.3	4112 - Maple, Beech, Cherry Association	High Density Pole	68	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										

36	45182036-Cut	76.9	4112 - Maple, Beech, Cherry Association	High Density Log	89	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood if present and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present. Open up the drip line of the hemlock.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										

**Total Treatment
Acreage Proposed: 109.7**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment 182

Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No		2H
	Available	Not Available		No	2H	
176	176		Aspen	176		
1050	1050		Cedar	1,050		
23		23	Lowland Conifers			23
45	45		Lowland Spruce/Fir	45		
48	48		Mixed Upland Deciduous	48		
345	345		Northern Hardwood	345		
10	10		Red Pine	10		
1,696	1,673	23	Total Forested Acres	1,673		23
	99%	1%	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
003	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	23	2B: Unknown if access through adjacent landowner(s) is possible			
Comments: Stand is a riparian area on the north end of Black Creek Flooding.							



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
Comments				



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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Medium Density Pole	97.6	98		Poor quality, extremely wet cedar. Some areas are fairly sparse. Stand borders the Black Creek Wildlife Flooding.
2	6124 - Lowland Spruce- Fir	Medium Density Pole	23.2	134	51-80	Poor quality spruce stand. Mix of Black and white spruce plus cedar. Slightly higher ground than surrounding cedar but still lowland.
4	6122 - Black Spruce	High Density Sapling	31.5	51		Smaller, sapling size trees.
10	4119 - Mixed Northern Hardwoods	High Density Pole	3.3	72		Using Don Kuhr's data from the compartment to the north.
11	4112 - Maple, Beech, Cherry Association	High Density Log	17.6	89	51-80	Stand was thinned previous entry. Heavy deer browse.
14	6122 - Black Spruce	Medium Density	13.4	51		Small black spruce.
16	6120 - Lowland Cedar	High Density Pole	946.6	113		Very large cedar stand. Went into it from several different spots. Some variations in the imagery but it is all part of the same complex. Heavy deer use.
17	4110 - Sugar Maple Association	High Density Pole	3.1	82	81-110	Stand Data taken from adjacent compartment. Poorer quality sugar maple stand. Small dia's and low % of good boles. Thin heavy next entry.
20	4136 - Aspen, Mixed Conifer	High Density Log	13.7	53		Aspen ridge, Dying. Inventory data taken from the compartment to the north. Data collected by Don Kuhr. Stand will be set up when Newberry does the work in comp 42107.
21	4134 - Aspen, Spruce/Fir	High Density Pole	51.7	39	1-50	Stand has just transitioned from a sapling to pole stand. Still lots of sapling size stuff in the stand.
22	4130 - Aspen	High Density Sapling	9.1	12		Aspen is doing great. Very little conifer.
23	4130 - Aspen	High Density Sapling	6.2	12		Aspen is doing great. Not a lot of conifer.
25	4130 - Aspen	High Density Sapling	8.3	12		Aspen regen is doing great.
27	6120 - Lowland Cedar	High Density Pole	5.8	117	111-140	Small pocket of cedar. Not alot of deer sign in this small stand. Private land to the north was clear cut a few years ago. Will have to watch that to see if cedar regenerates.
28	4191 - Mixed Upland Deciduous with Conifer	Medium Density	17.7	29		This stand was an upland brush stand and a grassy opening in the previous inventory. It now has enough trees to be forested. It has a little bit of everything in it.
29	4134 - Aspen, Spruce/Fir	High Density Sapling	3.5	28		Stand has filled in nicely since last inventory. It will be a pole stand by the next inventory cycle.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	4119 - Mixed Northern Hardwoods	Medium Density Pole	4.8	73	81-110	Red maple clumps, sugar maple, beech and a few cherry. There is a fair amount of spruce and balsam also. Thin down to 70-80 basal area. Concentrate the marking on red maple clumps and beech.
31	42110 - Planted Red Pine	High Density Pole	9.6	60	111-140	Nice red pine. Look at thinning or a clearcut in ten years. One big lone white pine in the stand. Awesome legacy tree.
32	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	19.8	29		This an upland Mackinac Mix stand. The east side has more deciduous while the west has a greater conifer component.
33	4112 - Maple, Beech, Cherry Association	High Density Pole	14.3	68	81-110	Stand can be thinned. Heavy deer browse.
35	4191 - Mixed Upland Deciduous with Conifer	Medium Density	10.4	29		This stand is similar to the one to the north. Previous inventory it was an upland brush stand. It now has enough trees to be forested. It is a mix of everything.
36	4112 - Maple, Beech, Cherry Association	High Density Log	260.7	89	81-110	This is a large maple stand. Last entry over half of the stand was thinned. The central portion was thinned 17 years ago and is ready to be thinned again. Not alot of beech in the stand. There is a small patch of conifer in the south east corner of the stand. Heavy deer browse in most of the regen.
37	4134 - Aspen, Spruce/Fir	High Density Pole	11.1	28	1-50	Stand is just barely a pole stand. Lots of sapling size trees in the stand.
38	4110 - Sugar Maple Association	High Density Log	41.3	95	81-110	This stand was thinned 5 years ago. Look at thinning in ten years. Most of the beech was taken in the sale. Lots of deer browse.
39	4134 - Aspen, Spruce/Fir	High Density Pole	71.9	34	1-50	Stand has just transitioned from a sapling to pole stand. Still lots of sapling size stuff in the stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	622 - Lowland Shrub	9.0	Unspecified	Unspecified	
5	50 - Water	2.8	Unspecified	Unspecified	
6	623 - Emergent Wetland	277.3	Unspecified	Unspecified	
7	50 - Water	13.7	Unspecified	Unspecified	
8	50 - Water	15.2	No	Low	
9	50 - Water	1.0	Unspecified	Unspecified	
12	622 - Lowland Shrub	11.8	Unspecified	Unspecified	
13	622 - Lowland Shrub	14.2	Unspecified	Unspecified	
15	623 - Emergent Wetland	23.2	Unspecified	Unspecified	
18	622 - Lowland Shrub	107.0	Unspecified	Unspecified	
19	622 - Lowland Shrub	1.6	Unspecified	Unspecified	
24	629 - Mixed non-forested wetland	3.2	Unspecified	Unspecified	
26	310 - Herbaceous Openland	6.0	Unspecified	Unspecified	
34	330 - Low-Density Trees	1.5	Unspecified	Unspecified	