



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 84

Entry Year 2016

Acreage: 1,751

County Delta

Management Area: North Menominee Moraines

Revision Date: 06/17/2014

Stand Examiner: Dan Racine

Legal Description:

T41N R24W sections 5, 7, 8, 17, 18, 19, 30

Identified Planning Goals:

This compartment contains a mix of upland and lowland forest stands. The majority of the upland stands are aspen and aspen spruce/fir types that have been harvested in previous treatment periods. The majority of the treatments in this treatment period are within the lowland cover types designed to regenerate these stands and continue to provide age class distribution within the lowland cover types. The majority of the harvests within the upland cover types are in the mixed deciduous and aspen cover types. There is one plantation stand that will be harvested and planted to spruce for winter deer cover. There are several plantings designed to add soft mast browse for deer in the winter months.

Soil and topography:

Soils are poorly drained nonacid mucks and peats, in nearly equal proportion, interspersed among well drained loam soils. Other soils include well drained loams over limestone bedrock. Major soil series include Miami Loams, Cathro, Trenary loams, Onaway, Carbondale, and Ronsseau Sand. Topography is gently rolling with level lowlands.

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

This compartment is within a mixed ownership pattern. Mostly state land to the east of the compartment but industrial forest land mixed with non-industrial forest land surrounding the rest of the compartment.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The Mile Twenty One road is closed by directors order. This compartment contains a portion of the Deer Range Improvement Purchase (DRIP) in Delta and Menominee counties.

Watershed and Fisheries Considerations:

The Ford River.

Wildlife Habitat Considerations:

This compartment is about 50% lowland and 50% upland. The upland areas are mostly covered in aspen stands with several small herbaceous openings spaced throughout the compartment. The herbaceous openings will be maintained to benefit game and non-game wildlife species. The lowland conifer types are predominantly composed of cedar with some small pockets of tamarack and spruce. The best areas of lowland conifer will be retained to provide cover for white-tailed deer, snowshoe hare, and other non-game species. Much of the aspen habitat is less than 30 years old, but some stands of older aspen will be cut and regenerated which will provide early successional wildlife habitat. In addition, some planted tamarack stands will be final harvested and then planted to white spruce. The white spruce will serve as excellent wildlife cover in coming years. A buffer of mature trees will be maintained on the banks of the Ford River to provide wildlife movement corridors and protect the riparian habitat.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River Group underlies the glacial drift. The Black River is used for dolomite/stone and may overlap Precambrian aged rocks which may have metallic and nonmetallic mineral potential. Section 18 was previously leased for metallic exploration. A gravel pit is located in Section 20 and there appears to be potential in that Section. No economic oil and gas production has been found in the UP.

Vehicle Access:

The northern block of this compartment has good access. The center block is very difficult to access. The south part of the compartment has access through private lands.

Survey Needs:

N/A

Recreational Facilities and Opportunities:

There are not any recreational facilities within this compartment, however there is very good opportunities for hunting and fishing in this area.

Fire Protection:

Most of this compartment is timber types that are less prone to fire. Should a fire occur portions of this compartment will be extremely difficult to access. There is abundant water within a few miles of this compartment.

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**

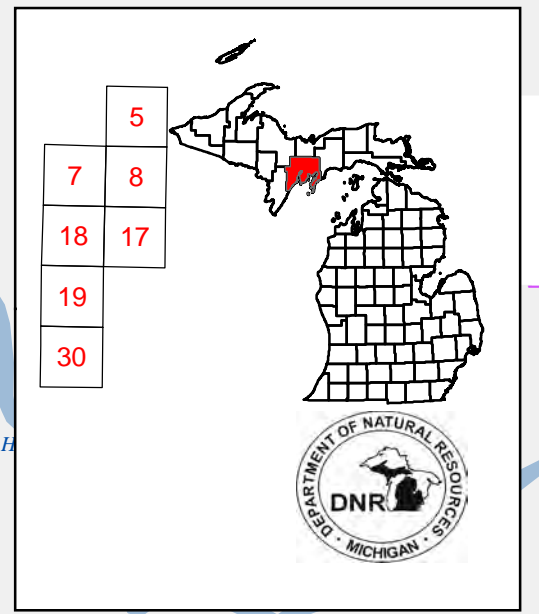
The following information is displayed, where pertinent, on the attached compartment maps:

- 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: 084
 T41N R24W Sec. 5, 7, 8, 17-19, 30
 County: Delta
 Unit: Escanaba
 YOE: 2016
 Acres: 1,751 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 05/20/2014
 Map Phase: Pre-Review

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



Legend

- ◆ Survey Grade
- ◇ Non-Survey Grade
- ⊕ Remonumented Section Corners
- ⊕ Miris Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Railroads
- ⊕ Powerline
- Stream
- Intermittent Stream
- Lakes and Rivers

Treatments

- ▨ Clearcut (w/Reserves, Patch/Strip)
- ▨ Seed Tree (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Planting (tree species)
- ▨ Other Treatment - See Comments

Forest Stands

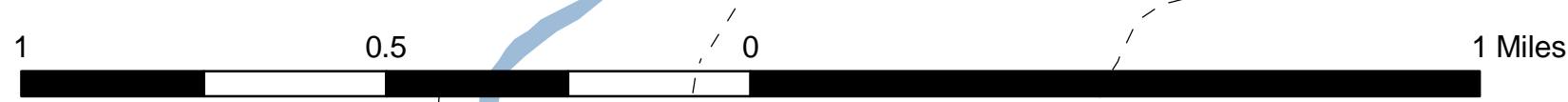
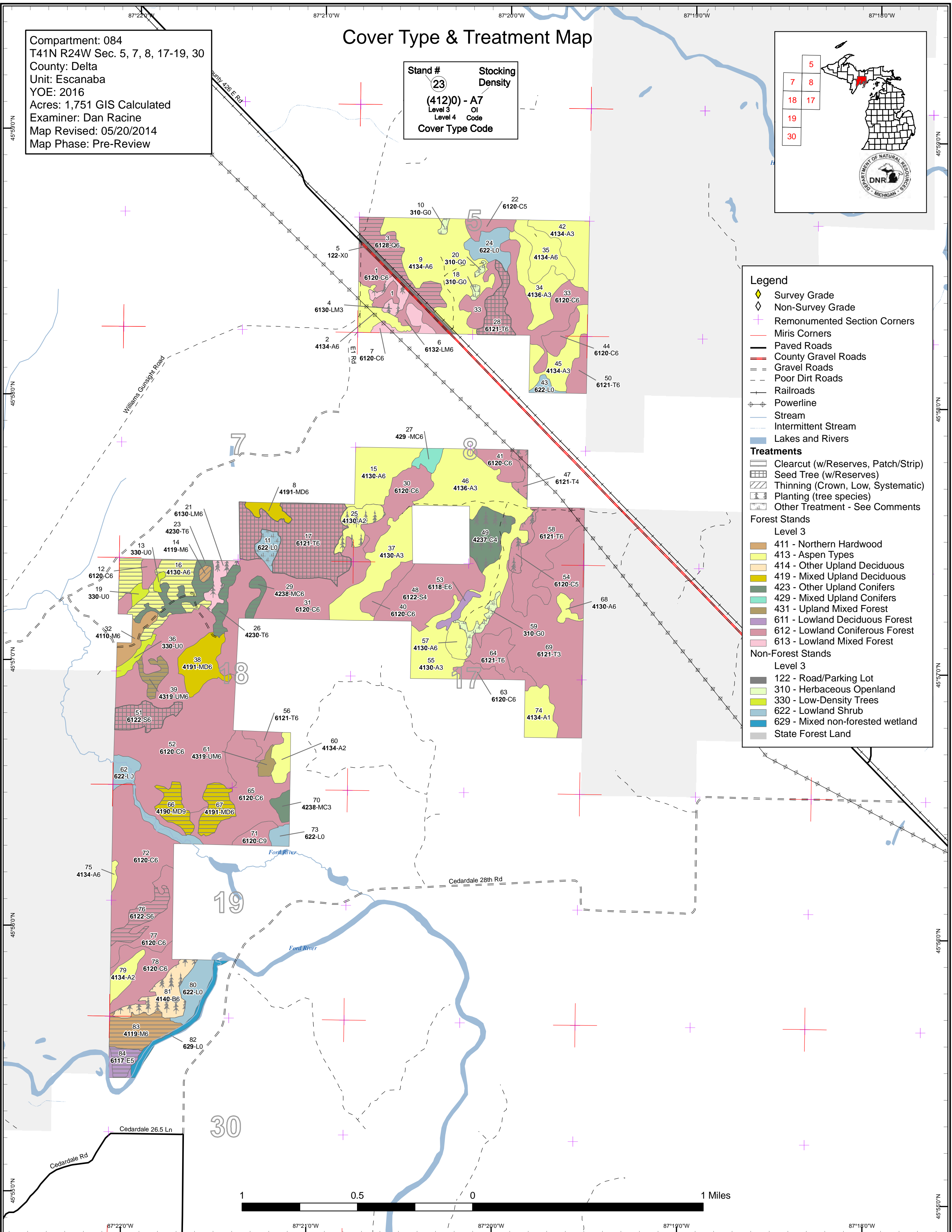
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- State Forest Land



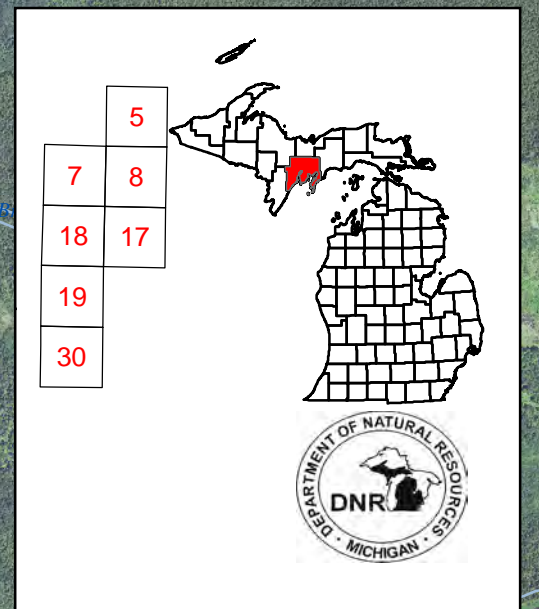
87°22'0"W 87°21'0"W 87°20'0"W 87°19'0"W 87°18'0"W

45°55'0"N 45°54'0"N 45°53'0"N 45°52'0"N 45°51'0"N

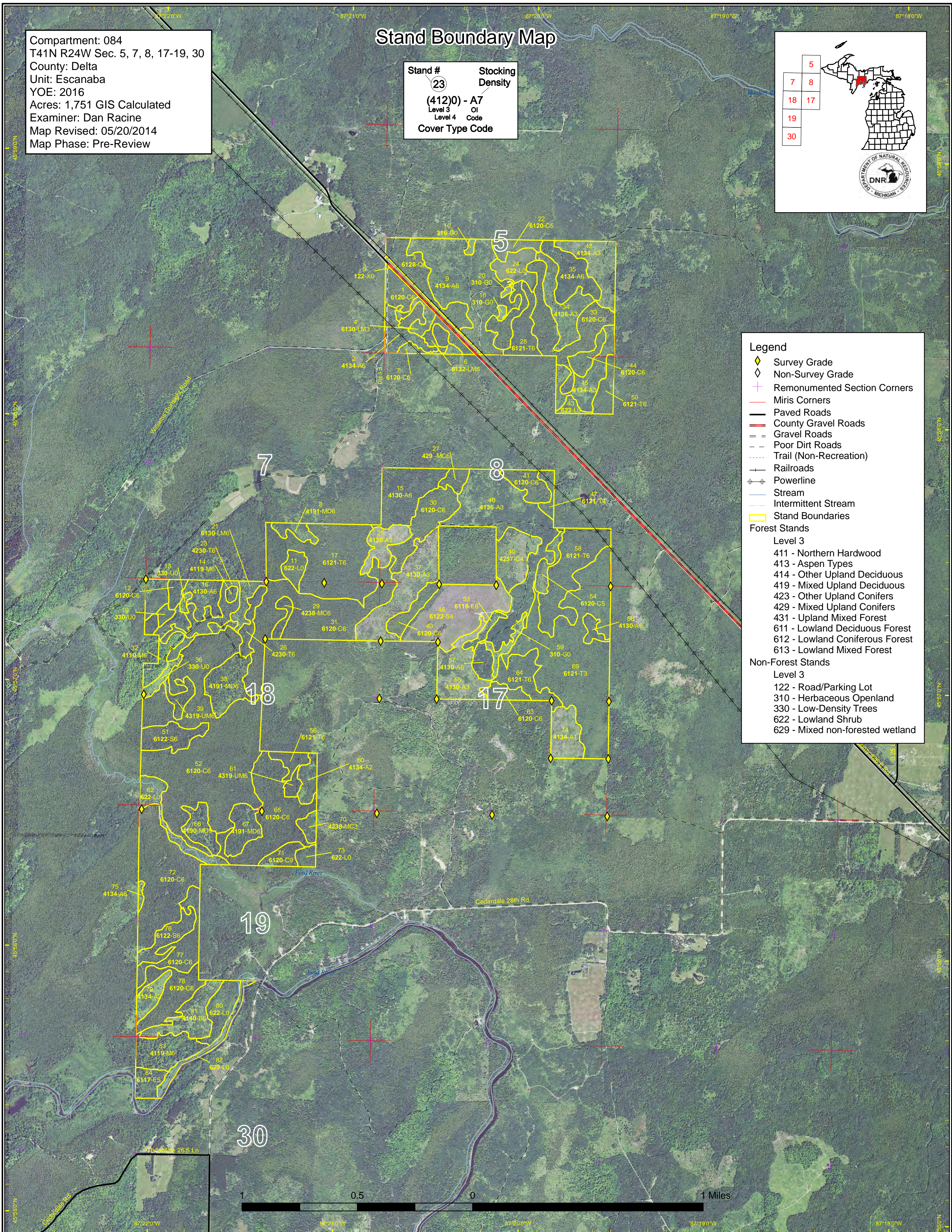
Stand Boundary Map

Compartment: 084
 T41N R24W Sec. 5, 7, 8, 17-19, 30
 County: Delta
 Unit: Escanaba
 YOE: 2016
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 Map Revised: 05/20/2014
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



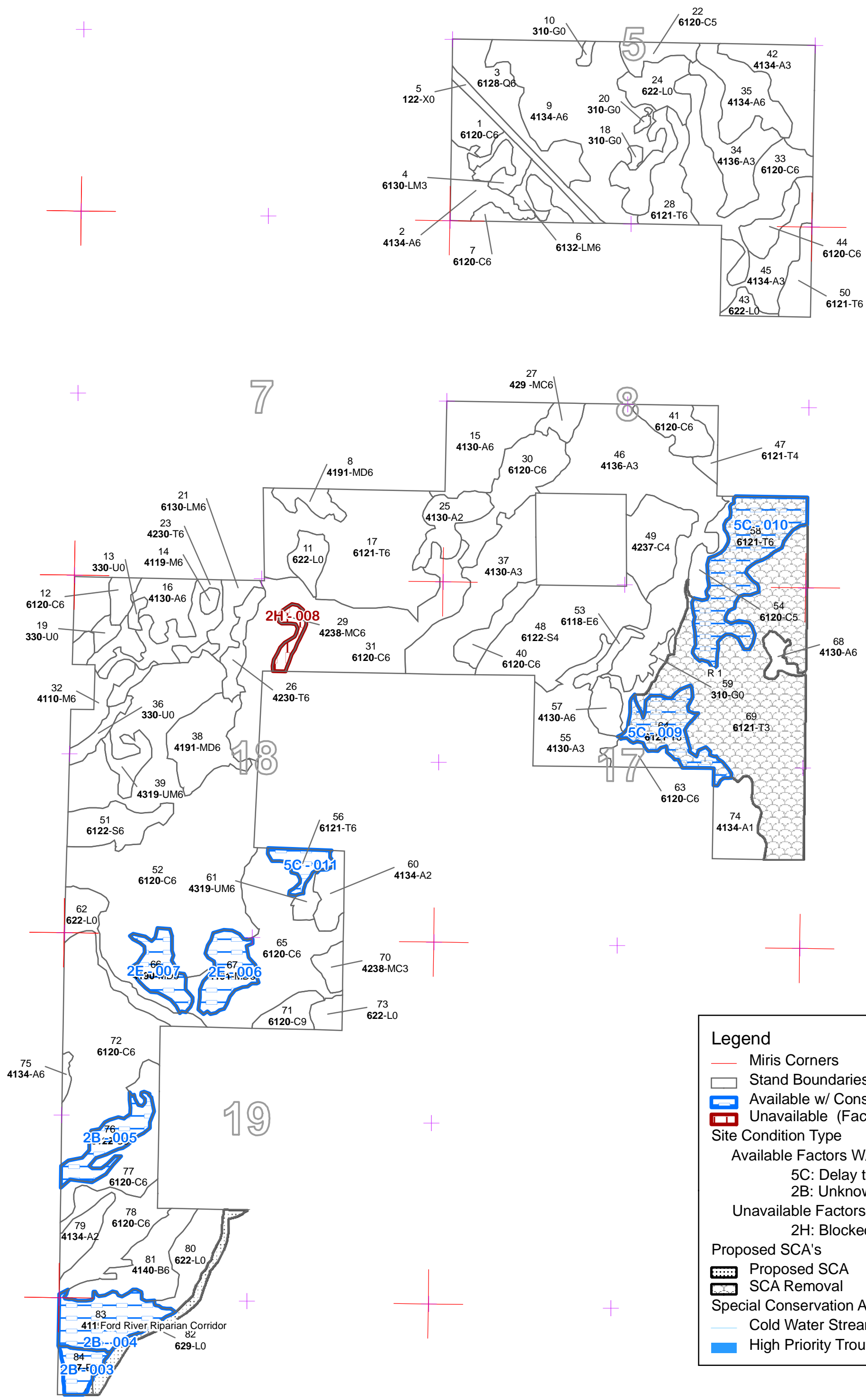
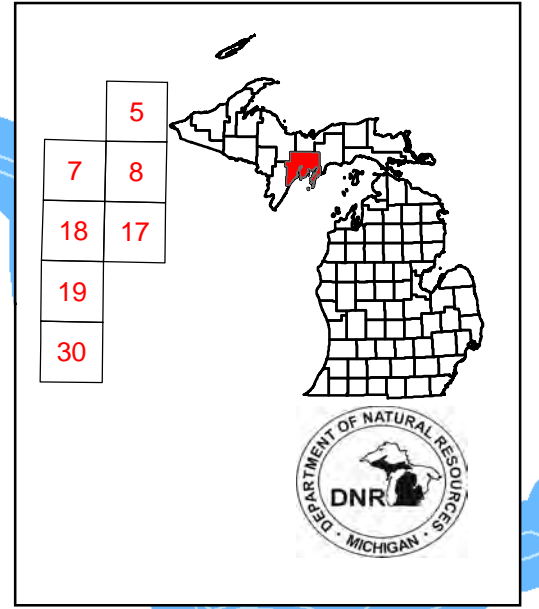
- Legend**
- ◆ Survey Grade
 - ◇ Non-Survey Grade
 - ✚ Remonumented Section Corners
 - Miris Corners
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Trail (Non-Recreation)
 - Railroads
 - Powerline
 - Stream
 - Intermittent Stream
 - ▭ Stand Boundaries
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
 - 413 - Aspen Types
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- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland



Compartment: 084
 T41N R24W Sec. 5, 7, 8, 17-19, 30
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 Map Revised: 05/20/2014
 Map Phase: Pre-Review

Special Conservation Areas & Site Conditions Map

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



Legend

- Miris Corners
- Stand Boundaries
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

Site Condition Type

Available Factors W/ Constraints

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2B: Unknown if access through adjacent landowner(s) is possible

Unavailable Factors

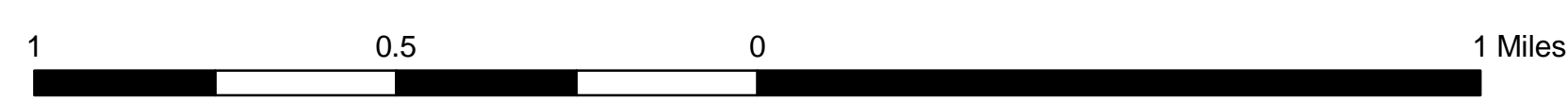
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Proposed SCA's

- Proposed SCA
- SCA Removal

Special Conservation Areas

- Cold Water Streams
- High Priority Trout Stream Buffer



87°22'0"W 87°21'0"W 87°20'0"W 87°19'0"W 87°18'0"W

45°58'0"N
45°57'0"N
45°56'0"N
45°55'0"N

45°58'0"N
45°57'0"N
45°56'0"N
45°55'0"N

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	124	45	192	55	38	0	0	0	0	0	0	0	0	0	455
Cedar	0	0	0	0	0	0	0	7	36	23	528	0	7	0	601
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
Lowland Deciduous	0	0	0	0	0	0	0	5	9	0	0	0	0	0	14
Lowland Mixed Forest	0	7	8	0	8	0	0	0	0	0	0	0	0	0	22
Lowland Shrub	70	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Lowland Spruce/Fir	0	0	0	0	0	0	0	68	0	14	0	0	0	0	83
Mixed Upland Deciduous	0	0	6	0	23	0	15	0	13	0	0	0	0	0	57
Northern Hardwood	0	0	0	0	0	0	0	11	23	0	0	0	0	0	34
Paper Birch	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Tamarack	0	0	24	122	10	47	25	15	72	0	0	0	0	0	315
Upland Conifers	0	0	5	0	0	0	0	0	6	5	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	0	7	0	0	0	4	0	0	0	11
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	221	52	258	177	78	47	47	107	159	42	556	0	7	0	1751



Report 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2016

Compartment 084
Total Compartment Acres: 1,751

Acres by Treatment Type

Commercial Harvest - 272 Tree Planting - 87 Other - 0
 Habitat Cut - 0 Opening Maintenance - 17

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	34	0	0	0	0	0	34
Lowland Coniferous Forest	39	0	103	0	0	0	142
Lowland Deciduous Forest	8	0	0	0	0	0	8
Mixed Upland Deciduous	28	0	0	0	0	0	28
Northern Hardwood	23	0	0	0	2	0	25
Other Upland Conifers	29	0	0	0	0	0	29
Upland Mixed Forest	7	0	0	0	0	0	7
Total	166	0	103	0	2	0	272



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	33084003-Cut	24.2	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	106		Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Leave retention patches of the areas with the heaviest cedar volumes and all cut all other trees.										
<u>Specs:</u>										
<u>Other</u> The cedar cover type is approximately 35% of the canopy with cedar in heavy patches. Plant Red Osier Dogwood in the lowest areas and long										
<u>Comments:</u> the edge.										
<u>Next</u> Wildlife Division will create an FTP for planting Red Osier Dogwood and other soft mast species. Monitor the regeneration at appropriate										
<u>Steps:</u> intervals.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
14	33084014-Cut	1.9	4119 - Mixed Northern Hardwoods	High Density Pole	70		Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thinning- Harvest the stand retaining approximately 70BA.										
<u>Specs:</u>										
<u>Other</u> --Dan Racine : 07/04/2014 comments:										
<u>Comments:</u> Per pre-review wildlife comments; encourage the slash to be in small piles particularly along the stand edges.										
This stand was left out of the planting area of European Larch.										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
16	33084016-Cut	33.5	4130 - Aspen	High Density Pole	41		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves- Leave retention along the boundary line and harvest all other trees.										
<u>Specs:</u>										
<u>Other</u> --Dan Racine : 07/04/2014 comments:										
<u>Comments:</u> Per pre-review comments from wildlife division; encourage the slash to be in small piles particularly in areas along the stand edges.										
This stand was acquired through a DRIP purchase through Plum Creek land. This stand will is younger but it will regenerate to aspen and provide a food source between the spruce plantation.										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
17	33084017-Cut	72.1	6121 - Tamarack	High Density Pole	80		Harvest	Seed Tree with Reserves	6121 - Tamarack	Cmpt. Review Proposal
<u>Prescription</u> Seed Tree- Leave clumps of a mix of species throughout the stand. The clumps will be approximately 8-10 trees at approximately 1 clump every										
<u>Specs:</u> 1-2 acres.										
<u>Other</u> --Dan Racine : 07/04/2014 comments:										
<u>Comments:</u> Per pre review comments from wildlife division; encourage the slash to be in small piles particularly in areas closer to low conifer cover.										
The cedar cover type is approximately 30% of the canopy cover type.										
<u>Next</u> Monitor the regeneration at appropriate intervals.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	33084023-Cut	15.2	42300 - Planted Larch	High Density Pole	24		Harvest	Clearcut	42320 - Upland Spruce	Cmpt. Review Proposal

Prescription Clearcut with no reserves- Harvest all trees.

Specs:

Other This stand is a Larch plantation picked up through a DRIP purchase from Plum Creek.

Comments:

Next Check with the TMS about either RX burning post harvest or requiring chipping. Create an FTP for planting and burning if required.

Steps:

Proposed

Start Date: 10/01/2015

26	33084026-Cut	8.7	42300 - Planted Larch	High Density Pole	24		Harvest	Clearcut	42310 - Planted Spruce	Cmpt. Review Proposal
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Prescription Clearcut with no reserves- Clearcut the stand and prepare for planting.

Specs:

Other The stand is a Larch plantation acquired through Plum Creek and the DRIP purchase.

Comments:

Next Check with TMS to decide if rx burn post harvest or requiring chipping is the most appropriate for this site. Create an FTP post harvest for planting to white spruce.

Steps:

Proposed

Start Date: 10/01/2015

28	33084028-Cut	15.1	6121 - Tamarack	High Density Pole	72		Harvest	Seed Tree with Reserves	6121 - Tamarack	Cmpt. Review Proposal
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Prescription Seed Tree- Leave a retention strip along the west line and clumps of approximately 10 trees of a mix of species spaced throughout the stand.

Specs:

Other --Dan Racine : 07/04/2014 comments:

Comments: Per pre review comments from wildlife division; encourage the slash to be in small piles particularly in areas with low conifer cover.

The cedar cover type is approximately 25% of the canopy.

Next Monitor the regeneration at appropriate intervals.

Steps:

Proposed

Start Date: 10/01/2015

39	33084039-Cut	7.3	4319 - Mixed Upland Forest	High Density Pole	60		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Clearcut with reserves- Leave all the cedar and leave some white pine for seed trees. Leave retention along the redline.

Specs:

Other --Dan Racine : 07/04/2014 comments:

Comments: Per pre-review wildlife comments; encourage the slash to be in small piles particularly in areas with low conifer cover.

The cedar cover type is approximately 10% of the canopy cover type.

Next Monitor the regeneration at appropriate intervals.

Steps:

Proposed

Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	33084051-Cut	16.2	6122 - Black Spruce	High Density Pole	75		Harvest	Seed Tree with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Seed Tree harvest- Leave clumps of seed trees of approximately 10 trees of mixed species spaced throughout the stand.

Specs:

Other --Dan Racine : 07/04/2014 comments:

Comments: Per pre-review comments from wildlife division; encourage the slash to be in small piles particularly in areas with low conifer cover.

The cedar cover type is approximately 5% of the canopy scattered in the stand with almost pure black spruce.

Next Monitor the regeneration at appropriate intervals.

Steps:

Proposed

Start Date: 10/01/2015

4	33084004- Plant	6.7	6130 - Fir, Aspen, Maple	High Density Sapling	15		Tree Planting	Hand Plant	6130 - Fir, Aspen, Maple	Cmpt. Review Proposal
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Prescription Tree planting- Plant Red Osier Dogwood along the edges and open areas of the stand.

Specs:

Other There was phragmites found within the stand.

Comments:

Next Wildlife division will create an FTP for planting the Red Osier Dogwood and other soft mast species. Follow up on an FTP for phragmites

Steps: control.

Proposed

Start Date: 10/01/2015

21	33084021- Plant	7.8	6130 - Fir, Aspen, Maple	High Density Pole	24		Tree Planting	Hand Plant	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Tree Planting- Plant Red Osier Dogwood along the edges of the stand.

Specs:

Other This stand was cut 24 years ago. Plant along edges in open areas.

Comments:

Next Wildlife division will create an FTP for planting Red Osier Dogwood and other soft mast species.

Steps:

Proposed

Start Date: 10/01/2015

25	33084025- Plant	14.2	4130 - Aspen	Medium Density Sapling	3		Tree Planting	Hand Plant	413 - Aspen	Cmpt. Review Proposal
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Prescription Tree Planting- Plant soft mast in the open areas of the stand.

Specs:

Other This stand is regenerating to a mix of aspen and balsam with some spruce and fir. The open areas of the stand are within the center and east

Comments: part. Previously this stand was an older F6.

Next Wildlife division will create an FTP for the planting. The long term MO of this stand is mixed aspen and conifer. The plantings will enhance the

Steps: habitat for grouse and deer.

Proposed

Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	33084047- Plant	5.4	6121 - Tamarack	Low Density Pole	65		Tree Planting	Hand Plant	6121 - Tamarack	Cmpt. Review Proposal

Prescription Habitat management- Plant Red Osier Dogwood along the edges and open areas of the stand.

Specs:

Other

Comments:

Next Wildlife Division will create an FTP for planting Red Osier Dogwood and other soft mast species.

Steps:

Proposed

Start Date: 10/01/2015

49	33084049- Plant	22.0	42370 - Upland Cedar, Aspen	Low Density Pole	106		Tree Planting	Hand Plant	42370 - Upland Cedar, Aspen	Cmpt. Review Proposal
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Prescription Tree planting- Plant Red Osier Dogwood in the lower open areas that are not filling in.

Specs:

Other

This stand was cut under the Twenty One Mile sale.

Comments:

Next Wildlife Division will create an FTP for the planting of Red Osier Dogwood and other soft mast species.

Steps:

Proposed

Start Date: 10/01/2015

54	33084054- Plant	7.8	6120 - Lowland Cedar	Medium Density Pole	106		Tree Planting	Hand Plant	6120 - Lowland Cedar	Cmpt. Review Proposal
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Prescription Tree planting- Plant Red Osier Dogwood in the open areas.

Specs:

Other

This stand was harvested with all the cedar left with some areas not filling in.

Comments:

Next Wildlife division will create an FTP for the planting of Red Osier Dogwood and other soft mast species.

Steps:

Proposed

Start Date: 10/01/2015

81	33084081- Plant	22.6	4140 - Other Upland Deciduous	High Density Pole	24		Tree Planting	Hand Plant	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
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Prescription Tree planting- Oak and soft mast species.

Specs:

Other

Comments:

Next Wildlife division will create an FTP for planting hard and soft mast species.

Steps:

Proposed

Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10	NF_33084010- NonFor	1.3	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<p><u>Prescription</u> Opening enhancement. Cut brush and encroaching tree species, mow, herbicide, lime, fertilize, plant both annual and perennial herbaceous plants as well as hard/soft mast producers within the opening boundaries for the benefit of both game and non-game species.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Complete FTP <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> Unspecified</p>										
11	NF_33084011- NonFor	7.8	6229 - Mixed lowland shrub				Non-Forest Management	Other - Specify	3204 - Mast Producing Shrub	Cmpt. Review Proposal
<p><u>Prescription</u> Shrub plantings- plant red oiser and other soft mast species within this stand</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> create FTP <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> Unspecified</p>										
18	NF_33084018- NonFor	1.3	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<p><u>Prescription</u> Opening enhancement. Cut brush and encroaching tree species, mow, herbicide, lime, fertilize, plant both annual and perennial herbaceous plants as well as hard/soft mast producers within the opening boundaries for the benefit of both game and non-game species.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Complete FTP <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> Unspecified</p>										
20	NF_33084020- NonFor	1.0	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<p><u>Prescription</u> Opening enhancement. Cut brush and encroaching tree species, mow, herbicide, lime, fertilize, plant both annual and perennial herbaceous plants as well as hard/soft mast producers within the opening boundaries for the benefit of both game and non-game species.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Complete FTP <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> Unspecified</p>										
59	NF_33084059- NonFor	6.0	3102 - Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<p><u>Prescription</u> Opening enhancement. Cut brush and encroaching tree species, mow, herbicide, lime, fertilize, plant both annual and perennial herbaceous plants as well as hard/soft mast producers within the opening boundaries for the benefit of both game and non-game species.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> create FTP <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> Unspecified</p>										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Total Treatment Acreage Proposed:		298.2							

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29 33084029-Cut	4.8	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	98		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Clearcut with reserves- Leave retention of the heaviest cedar patches and harvest all other trees.

Specs:

Other Comment: The cedar cover type is approximately 40% of the canopy cover type with most of the cedar between the upland islands. Most cedar will be left out with the retention area. This stand is limited factor due to access through private and blocked by the larger surrounding cedar stand with no winter road.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed

Start Date: 10/01/2015

Limiting Factor 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

66 33084066-Cut	12.8	4190 - Mixed Upland Deciduous with Cedar	High Density Log	82		Harvest	Clearcut with Reserves	4190 - Mixed Upland Deciduous with Cedar	Cmpt. Review Proposal
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Prescription Clearcut with reserves- Leave retention patches where the cedar volumes are the highest. Harvest all trees outside these patches.

Specs:

Other Comment: --Dan Racine : 07/04/2014 comments:

Per comments from pre-review from wildlife division; encourage the slash to be in small piles particularly in areas with low conifer cover.

This stand is limited factor due to access. Potential winter access through the cedar swamp and old winter road. The cedar cover type is approximately 25% of the canopy with most being concentrated in patches.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed

Start Date: 10/01/2015

Limiting Factor 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

67 33084067-Cut	14.9	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	68		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Clearcut with reserves- Leave retention patches where the cedar volumes are the highest. Harvest all other trees outside the retention areas.

Specs:

Other Comment: --Dan Racine : 07/04/2014 comments:

Per comments from pre-review from wildlife division; encourage the slash to be in small piles particularly in areas with low conifer cover.

This stand is limited factor with potential access through the winter road through the cedar swamp. The cedar cover type is approximately 10% of the canopy mostly in pockets.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed

Start Date: 10/01/2015

Limiting Factor 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
76 33084076-Cut	14.4	6122 - Black Spruce	High Density Pole	92		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Clearcut with reserves- Leave retention where the cedar volumes are the highest. Harvest all other trees outside these retention areas.
Specs:

Other --Dan Racine : 07/04/2014 comments:

Comment: Per comments from pre-review from wildlife division; encourage the slash to be in small piles particularly in areas with low conifer cover.

The cedar is 10% of the canopy in pockets with the majority being left out with retention areas. This stand is limited factor and will require access from the private landowner to the east.

Next Monitor the regeneration at appropriate intervals.

Steps:

Proposed

Start Date: 10/01/2015

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

83 33084083-Cut	22.8	4119 - Mixed Northern Hardwoods	High Density Pole	82	51-80	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription Clearcut with reserves- Leave retention along the eastern portion of the stand. Leave all hemlock and all other trees will be harvested.
Specs:

Other This stand is limited factor with access required from the landowner to the east. The hemlock is 15% of the canopy. This stand was acquired through a DRIP purchase through Plum Creek and last thinned in 1990. Mix of regeneration with several open areas and raspberries.

Next --Dan Racine : 07/05/2014 comments:

Steps: Per pre-review comments from wildlife division; Wildlife division will create an FTP for planting hard and soft mast species.

Monitor the regeneration at appropriate intervals.

Proposed

Start Date: 10/01/2015

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

84 33084084cut-Cut	7.8	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	82		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Clearcut with reserves- Leave a minimum of a 100 foot buffer along the Ford River. Leave all cedar and harvest all other trees. Approximately 1/2 of the stand will be harvested with the southern portion being left out with more lowland brush.
Specs:

Other This stand is limited factor due to access required from the landowner to the east.

Comment:

Next Monitor the regeneration at appropriate intervals.

Steps:

Proposed

Start Date: 10/01/2015

Limiting Factor 2B: Unknown if access through adjacent landowner(s) is possible

**Total Treatment
Acreage Proposed: 77.5**

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment 084
Year of Entry 2016

Availability for Management

Availability for Management			Dominant Site Conditions					
Total Acres	Acres Available	Acres Not Available						
			No	5C	2H	2E	2B	
455	455		Aspen	455				
601	601		Cedar	601				
24	24		Lowland Conifers	24				
14	14		Lowland Deciduous	6				8
22	22		Lowland Mixed Forest	22				
83	83		Lowland Spruce/Fir	68				14
57	57		Mixed Upland Deciduous	29			28	
34	34		Northern Hardwood	11				23
23	23		Paper Birch	23				
315	315		Tamarack	248	67			
15	11	5	Upland Conifers	11		5		
11	11		Upland Mixed Forest	11				
1,654	1,649	5	Total Forested Acres	1,509	67	5	28	45
	100%	0%	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	Available	2B: Unknown if access through adjacent landowner(s) is possible	8				
Comments:							
004	Available	2B: Unknown if access through adjacent landowner(s) is possible	23				
Comments:							

Report 5 – Site Conditions

Escanaba Mgt. Unit
 Dan Racine : Examiner

Compartment 084
 Year of Entry 2016

005	Available	2B: Unknown if access through adjacent landowner(s) is possible	14	
Comments:				
006	Available	2E: Road needed	15	
Comments:				
007	Available	2E: Road needed	13	
Comments:				
008	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	
Comments:				
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	
Comments:				
010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	
Comments:				

Escanaba Mgt. Unit
Dan Racine : Examiner

Report 5 – Site Conditions

Compartment 084
Year of Entry 2016

011	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7
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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
Ford River Riparian Corridor	Spring-Seeps, Riparian Areas	Riparian Area	SCA	9.2
Comments Scattered L0 areas and scattered ash areas.				
R 1	Potential Old Growth		SCA Removal	121.7
Comments Tamarack filling in with L0 areas. Small island of Spruce, Tamarack, paper birch and aspen that is bigger timber. Some bigger tamarack to the south with 58 years old about 3" dbh. Mostly T3 with L0.				



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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	14.8	98		Scattered larger tamarack. Stand along edge of county road. Other species include aspen and tamarack.
2	4134 - Aspen, Spruce/Fir	High Density Pole	13.1	29		
3	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	24.2	106		This stand is overmature balsam poplar and places with more L0. The baslam/spruce and tamarack are 5-8"dbh.
4	6130 - Fir, Aspen, Maple	High Density Sapling	6.7	15		Possible planting for Red Osier Dogwood. This stand was cut under the 426 patchwork sale.
6	6132 - Mixed Lowland Forest with Cedar	High Density Pole	7.7	44		Harvest this stand in 10 years.
7	6120 - Lowland Cedar	High Density Pole	7.2	130		Heavy to cedar with more ash closer to 426.
8	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	6.3	26		Island of P5 stand.
9	4134 - Aspen, Spruce/Fir	High Density Pole	75.0	23		Mostly cut under the white collar aspen sale. Places heavy to aspen and places heavy to balsam fir and spruce.
12	6120 - Lowland Cedar	High Density Pole	7.7	104		
14	4119 - Mixed Northern Hardwoods	High Density Pole	1.9	70		Island of hardwood left out from planting. Thinning
15	4130 - Aspen	High Density Pole	32.1	37		Other species include black ash and red maple. Cut this stand with 23-38 timber pre-inventory stand.
16	4130 - Aspen	High Density Pole	33.5	41		Mix of sizes from 5-7 inches. DRIP purchase through plum creek. Harvest with the larch plantation.
17	6121 - Tamarack	High Density Pole	72.1	80		smaller cedar under the tamarack. 50/50 mix of tamarack and cedar with some areas heavier to tamarack and variable diameters of 5-8". This piece was broken out from original stand 24 pre-inventory. Seed Tree harvest.
21	6130 - Fir, Aspen, Maple	High Density Pole	7.8	24		Plant Red Osier Dogwood along the Edges.
22	6120 - Lowland Cedar	Medium Density Pole	7.5	72		Lots of dead cedar flooded out area.
23	42300 - Planted Larch	High Density Pole	15.2	24		Picked up from Plum Creek through DRIP purchase.
25	4130 - Aspen	Medium Density	14.2	3		Sumac planting in the open areas.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42300 - Planted Larch	High Density Pole	8.7	24		Larch plantation 2-3 sticks tall. Replant to white spruce after harvest for deer cover. Mead inventory data for planting record.
27	429 - Mixed Upland Conifers	High Density Pole	5.8	80		Harvest this stand with stand 15 pre-inventory.
28	6121 - Tamarack	High Density Pole	15.1	72		Tamarack overtopping small cedar about 1-2 sticks.
29	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	4.8	98		Islands not connected with cedar between.
30	6120 - Lowland Cedar	High Density Pole	25.8	80		
31	6120 - Lowland Cedar	High Density Pole	77.0	106		As you go west the quality of the stand declines with patchy Tamarack and Cedar. More Tamarack and Spruce as you go west but smaller diameter. Heavy to cedar in some places.
32	4110 - Sugar Maple Association	High Density Pole	9.4	77	51-80	Decent stand of northern hardwood. Treat with compartment 72 when the hardwood stand is ready.
33	6120 - Lowland Cedar	High Density Pole	50.6	100		
34	4136 - Aspen, Mixed Conifer	High Density Sapling	23.2	17		This stand was cut in fall of 1997 under the Dog Fir aspen sale with all cedar, pine and hemlock left.
35	4134 - Aspen, Spruce/Fir	High Density Pole	21.4	38		Aspen 5-7". Harvest next treatment period. Other species include paper birch, white ash, and red maple in the overstory and sugar maple and ironwood in the understory.
37	4130 - Aspen	High Density Sapling	40.1	3		This stand was cut under the 426 Western sale. Few scattered hemlock.
38	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	22.7	44		This stand was cut in the 70's and appears to have been cut about 10 years ago. Some pole sized red maple and sapling red maple/aspen/balm/balsam fir. Cedar and hemlock were left after harvest.
39	4319 - Mixed Upland Forest	High Density Pole	7.3	60		Upland/lowland mix with some white pine 10".
40	6120 - Lowland Cedar	High Density Pole	10.3	84		
41	6120 - Lowland Cedar	High Density Pole	12.1	106		South end is poor quality Cedar, Tamarack, ash, and balm. North end is nice quality Cedar, aspen, paper birch.
42	4134 - Aspen, Spruce/Fir	High Density Sapling	23.5	5		This stand was cut under the twenty one mile sale completed in 2009. Small piece of hardwood along the east line than extends to compartment 85 to the east.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	6120 - Lowland Cedar	High Density Pole	7.9	101		
45	4134 - Aspen, Spruce/Fir	High Density Sapling	22.1	15		This stand was cut under the Dog Fir aspen sale completed in 1999. The west piece is a balm stand from OI combined.
46	4136 - Aspen, Mixed Conifer	High Density Sapling	78.3	29		Fully stocked stand of aspen. Just coming in pole size now.
47	6121 - Tamarack	Low Density Pole	5.4	65		Planting of Red Osier Dogwood, Cattails in the understory.
48	6122 - Black Spruce	Low Density Pole	52.1	74		This stand was cut under the 426 western sale with the canopy being scattered seed trees, strip along the western border and submerchantable trees left after the harvest. The stand was cut in 2010. Small ridge of red pine is included with this stand. Mix of areas 0-25, 25-50, and 75-100% canopy closure depending on location. Seed trees on the ground
49	42370 - Upland Cedar, Aspen	Low Density Pole	22.0	106		Plant Red Osier Dogwood in the open areas that are not filling in. This stand was cut under the Twenty One Mile Sale. The cedar was left after the harvest.
50	6121 - Tamarack	High Density Pole	9.7	40		Appears to be about 35-40 years old.
51	6122 - Black Spruce	High Density Pole	16.2	75		Almost pure spruce with good quality. Few cedar.
52	6120 - Lowland Cedar	High Density Pole	170.1	106		small patch of tamarack 3-5 inches.
53	6118 - Lowland Deciduous with Cedar	High Density Pole	4.7	70		
54	6120 - Lowland Cedar	Medium Density Pole	7.8	106		Red Osier Dogwood planting site.
55	4130 - Aspen	High Density Sapling	28.6	3		This stand was cut under the 426 western sale. Scattered cedar, black ash left in overstory.
56	6121 - Tamarack	High Density Pole	6.8	59		Small diameter tamarack 2-4 sticks. Small diameter cedar.
57	4130 - Aspen	High Density Pole	7.4	22		This stand was harvested in 1992 under the woodlawn islands aspen sale. Trace of black cherry in overstory and tamarack in the understory.
58	6121 - Tamarack	High Density Pole	40.7	58		Some larger tamarack. Wait 10 years. Mix of 5-9 inch tamarack.
60	4134 - Aspen, Spruce/Fir	Medium Density	8.9	20		Cedar was left after harvest. Heavy to aspen/balm with spots of balsam/spruce.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4319 - Mixed Upland Forest	High Density Pole	3.8	106		Aspen is dying. Harvest with stand pre-inventory 55.
63	6120 - Lowland Cedar	High Density Pole	7.2	106		Pockets of mature tamarack, spruce, and mix of aspen and balsam fir.
64	6121 - Tamarack	High Density Pole	19.8	65		Tamarack with scattered Cedar. Some pockets of mature spruce/fir/aspen. Lots of submerchantable tamarack and L0 types. Merchantable Tamarack is scattered.
65	6120 - Lowland Cedar	High Density Pole	53.4	106		Combination of a few stands from pre-inventory. West side has more L0 than C and east side has more C than L0.
66	4190 - Mixed Upland Deciduous with Cedar	High Density Log	12.8	82		Upland mix of everything with hardwood areas over mature. Stand was cut previously with younger aspen, red maple, and balsam fir.
67	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.9	68		North end has sugar maple, red maple and aspen. Lots of sugar maple in understory over topped by larger aspen and sugar maple. South end has upland Cedar, red maple, paper birch, and spruce over mature.
68	4130 - Aspen	High Density Pole	4.6	46		Small island of upland. Cut with the surrounding Tamarack stand.
69	6121 - Tamarack	High Density Sapling	121.7	30		Tamarack filling in with L0 areas. Small island of Spruce, Tamarack, paper birch and aspen that is bigger timber. Some bigger tamarack to the south with 58 years old about 3" dbh. Mostly T3 with L0.
70	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Sapling	4.9	21		Mixed upland/lowland site. Scattered cedar, tamarack trees left.
71	6120 - Lowland Cedar	High Density Log	7.9	95		Decent cedar stand. Lowland brush to the south end. Trace amounts of black spruce.
72	6120 - Lowland Cedar	High Density Pole	64.7	106		Same as stand 50.
74	4134 - Aspen, Spruce/Fir	Low Density Sapling	17.6	5		This stand was cut under the cedardale sale. South end has better regeneration than the north end.
75	4134 - Aspen, Spruce/Fir	High Density Pole	1.6	31		Part of stand 32 in compartment 72.
76	6122 - Black Spruce	High Density Pole	14.4	92		Nice spruce. Some pockets of Cedar but none in the plots. Smaller timber to the south.
77	6120 - Lowland Cedar	High Density Pole	21.7	100		Smaller spruce to the south. Stand 76 was broken out from this stand.

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Escanaba Mgt. Unit

Report 8 – Forested Stands

Compartment: 084
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	6120 - Lowland Cedar	High Density Pole	25.8	101		Some dead tops of cedar. Poor quality cedar.
79	4134 - Aspen, Spruce/Fir	Medium Density	9.3	21		Edges are spruce/fir/balm 5-20' tall and middle is aspen. Large white pine in SW corner of the stand.
81	4140 - Other Upland Deciduous	High Density Pole	22.6	24		Cedar along the edge. Mix of sapling balm, with few aspen, pole balm and scattered timber. Cut under mead. Purchased through DRIP funds. Combined the residual strips.
83	4119 - Mixed Northern Hardwoods	High Density Pole	22.8	82	51-80	Last thinned in 1990. Trace of White Pine.
84	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	9.2	82		Scattered L0 areas and scattered ash areas.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	122 - Road/Parking Lot	7.6	Unspecified	Unspecified	county road 426
10	3102 - Grass	1.3	No	Unspecified	
11	6229 - Mixed lowland shrub	7.8	No	Unspecified	Red Osier Dogwood planting
13	3303 - Mixed Low Density Trees	1.7	No	Unspecified	Mixed low density trees and lowland brush.
18	3102 - Grass	1.3	No	Unspecified	
19	3303 - Mixed Low Density Trees	2.8	No	Unspecified	Low density trees and lowland shrub.
20	3102 - Grass	1.0	No	Unspecified	
24	6229 - Mixed lowland shrub	13.7	No	Unspecified	Scattered trees of Tamarack, paper birch, balsam fir, white spruce, and cedar.
36	3303 - Mixed Low Density Trees	4.9	No	Unspecified	Filling in with spruce/balm/tamarack/white pine/balsam fir. Fern and raspberries in understory.
43	6229 - Mixed lowland shrub	3.5	No	Unspecified	Primarily Lo with some tamarack and cedar.
59	3102 - Grass	6.0	No	Unspecified	
62	6229 - Mixed lowland shrub	15.6	No	Unspecified	Creek runs through. Picked up from plum creek through DRIP purchase.
73	6229 - Mixed lowland shrub	4.6	No	Unspecified	This stand is mostly tag alder with willow brush and scattered tamarack, white spruce, and balm trees. Less than 25% cover type.
80	6229 - Mixed lowland shrub	15.3	No	Unspecified	
82	629 - Mixed non-forested wetland	9.8	No	Unspecified	Part and along the Ford River