



**ATLANTA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 96 ENTRY YEAR: 2014

Compartment Acreage: 1724 County: Alpena

Revision Date: July 13, 2012

Stand Examiner: Kirby Osvold

Legal Description: T31N-R5E SEC. 4, 9, & 16

MA: Alpena Lake Plain

Management Goals:

The management goal for the compartment is to maintain the multiple resource management in the area. Resources maintained include: recreation, timber production, and wildlife opportunities.

Soil and Topography:

The compartment is generally flat with slightly more topography in the north. Soils are mostly organic muck, decomposing plant materials, and poorly drained sands. This compartment is part of the Long Swamp.

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

Ownership surrounding the compartment is comprised of mainly state land, with the Thunderbay River as the southern border. There is a small percentage of private ownership bordering the compartment in the northeast. Land use within the compartment includes: hunting, snowmobiling, and timber production. The compartment is three miles east of the Village of Hillman.

Unique, Natural Features (include only non-site specific and non-sensitive information):

The compartment is part of the influence zones for a Great Blue Heron Rookery (located in compartment 97) as well as a Male Fern (*Dryopteris filix-mas*) to the east.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

None reported.

Special Management Designations or Considerations:

None reported.

Watershed and Fisheries Considerations:

The Thunder Bay River forms the compartment's southern boundary.

Wildlife Habitat Considerations:

Compartment 96 is dominated by lowland cover types including swamp hardwoods, balsam poplar, and lowland brush. These cover types provide rich habitat for pileated woodpeckers, American woodcock, ruffed grouse, wild turkey, white-tailed deer, black bear, beaver, bald eagle, and a wide variety of reptiles,

amphibians, and songbirds. Vernal ponds found in this compartment should be buffered from any future treatments to limit impacts on wildlife dependent on those systems.

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of peat and muck and dune sand. The glacial drift thickness varies between 10 and 100 feet. Beneath the glacial drift are the Devonian Antrim Shale and Traverse Group, which are quarried for limestone and cement products. A gravel pit is located one and one-half miles to the southeast, but potential appears to be limited. This area has not had much drilling for oil and gas. Additional drilling for the Antrim Shale is unlikely, as the Antrim Shale appears to be thinning in this area. There are no oil and gas leases, currently.

Vehicle Access:

The compartment is accessible from Long Rapids Road and the Hillman-Alpena snowmobile trail. There is also a road that provides access to the northern part of the stand along a sandy ridge and a potential access through a currently gated ORV trail extended off of McConnaughey Rd. through the adjacent compartment (Compartment 97). Access within the compartment is poor, due to the large wetland component.

Survey Needs:

No surveys needed at this time.

Recreational Facilities and Opportunities:

The former D&M railroad grade comprises one mile of snowmobile trail that runs W/E through the southern portion of the compartment. This area is used for hunting various game species as well as potential for wildlife viewing.

Fire Protection:

Covered under the Alpena DNR.

Additional Compartment Information:

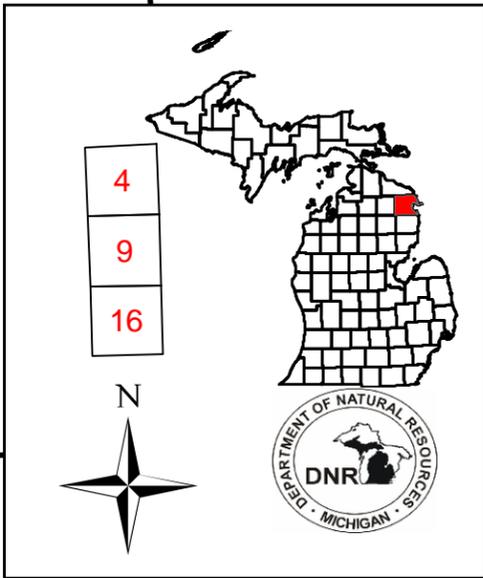
- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

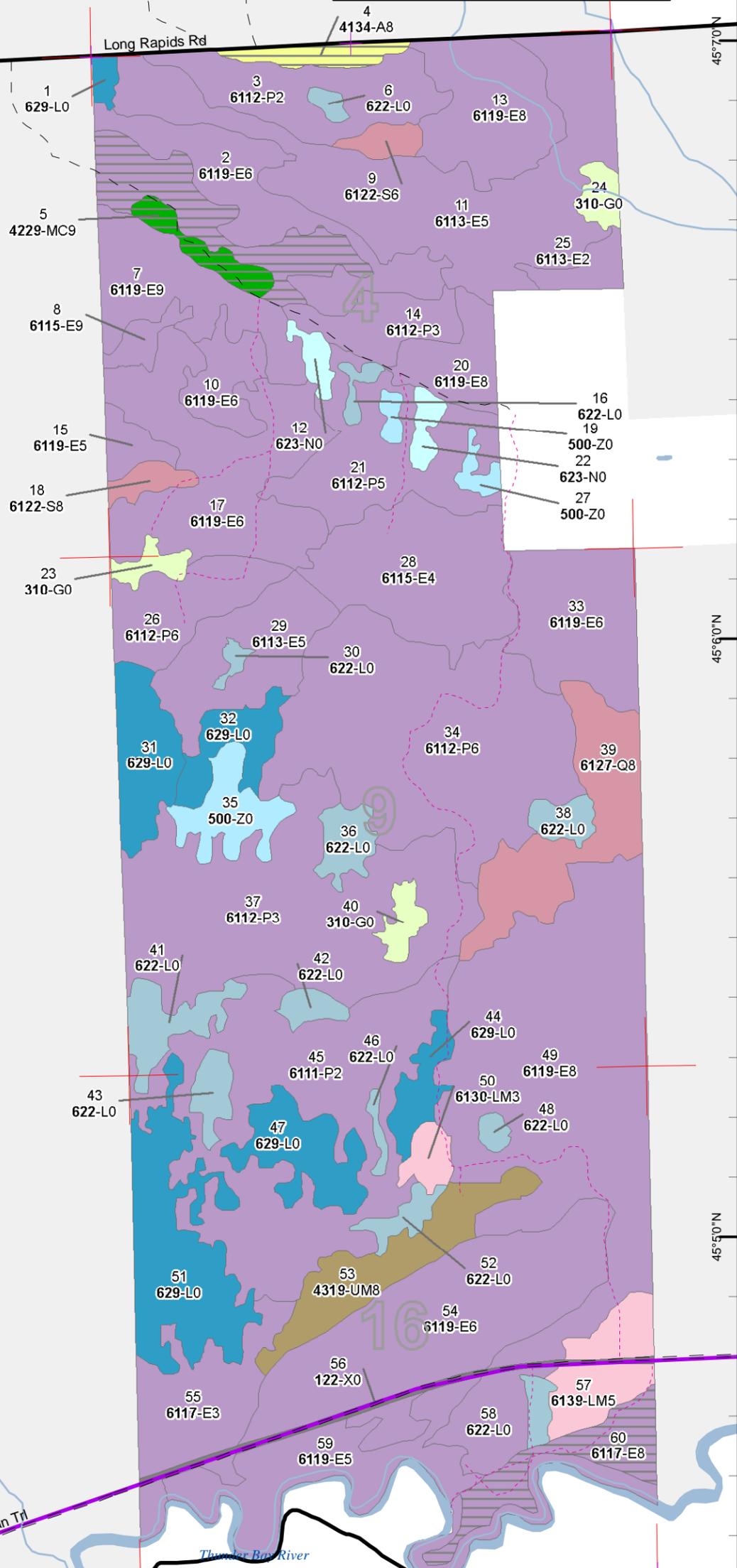
Cover Type & Treatment Map

Compartment: 096
 T31N R05E Sec. 4, 9, 16
 County: Alpena
 Unit: Atlanta
 YOE: 2014
 Acres: 1,724 GIS Calculated
 Examiner: Kirby Osvold
 Map Revised: 08/17/2012
 Map Phase: Pre-Review

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



- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Paved Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Trail (Non-Recreation)
 - Lakes and Rivers
 - Stream
 - Intermittent Stream
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Forest Stands**
- Level 3
- 413 - Aspen Types
 - 422 - Natural Pines
 - 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
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested wetland



Stand Boundary Map

Compartment: 096
 T31N R05E Sec. 4, 9, 16
 County: Alpena
 Unit: Atlanta
 YOE: 2014
 Acres: 1,724 GIS Calculated
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 Map Revised: 08/17/2012
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Stand # **23**
 Stocking Density
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

4
9
16

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DEPARTMENT OF NATURAL RESOURCES
DNR
MICHIGAN

Legend

- Miris Corners
- + Remonumented Section Corners
- Paved Roads
- = Gravel Roads
- - - Poor Dirt Roads
- - - Trail (Non-Recreation)
- Stream
- - - Intermittent Stream
- ▭ Stand Boundaries

Forest Stands

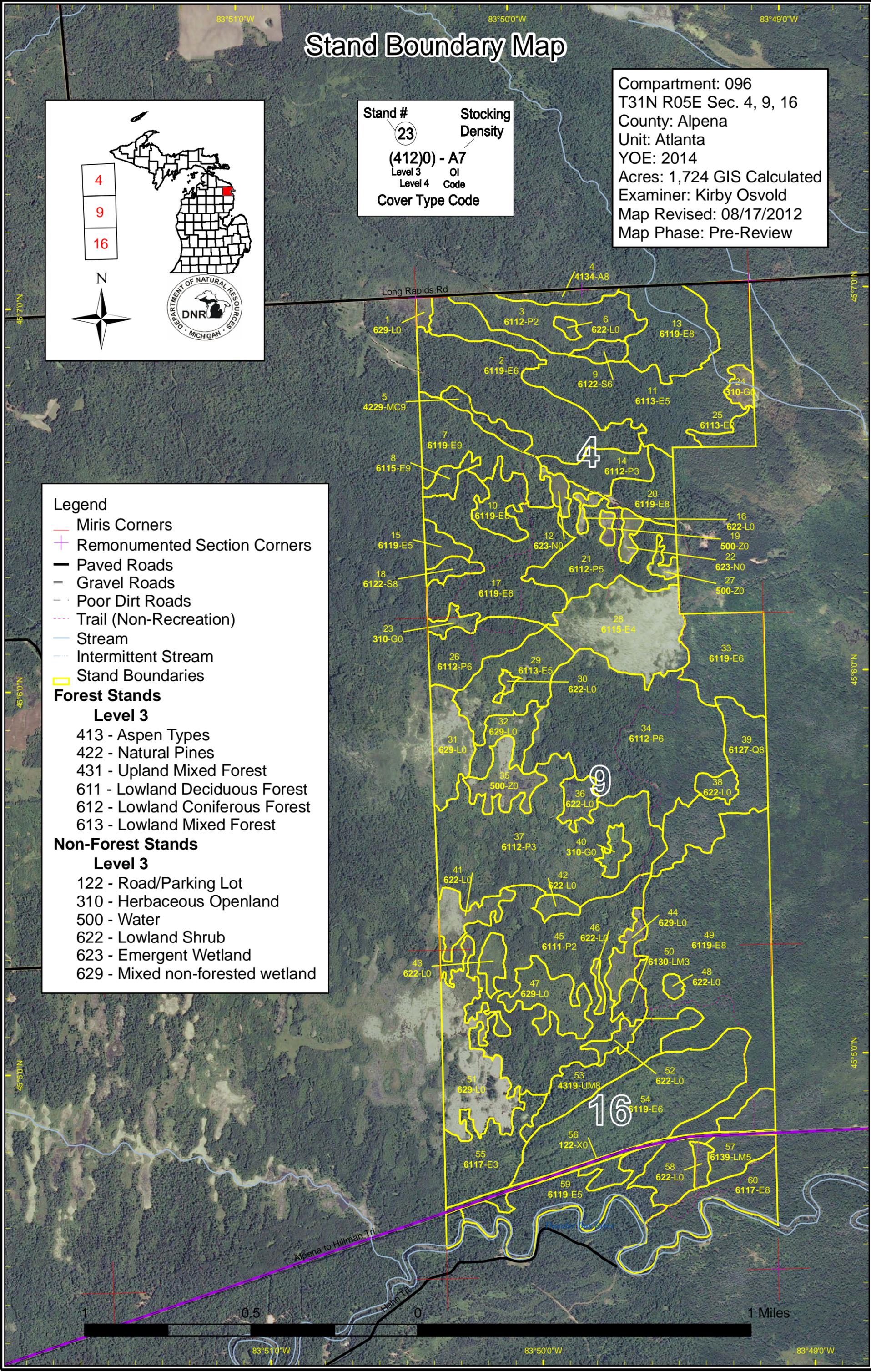
Level 3

- 413 - Aspen Types
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
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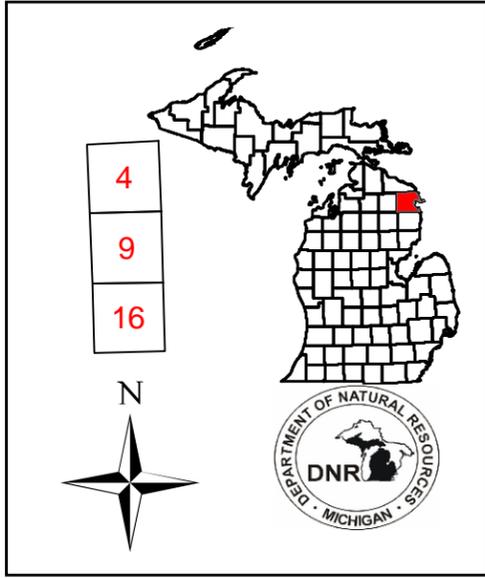


Dedicated & Proposed Special Conservation Area Map

83°51'0"W

83°50'0"W

83°49'0"W



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

Compartment: 096
 T31N R05E Sec. 4, 9, 16
 County: Alpena
 Unit: Atlanta
 YOE: 2014
 Acres: 1,724 GIS Calculated
 Examiner: Kirby Osvold
 Map Revised: 08/17/2012
 Map Phase: Pre-Review

Legend

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries

Forest Stands

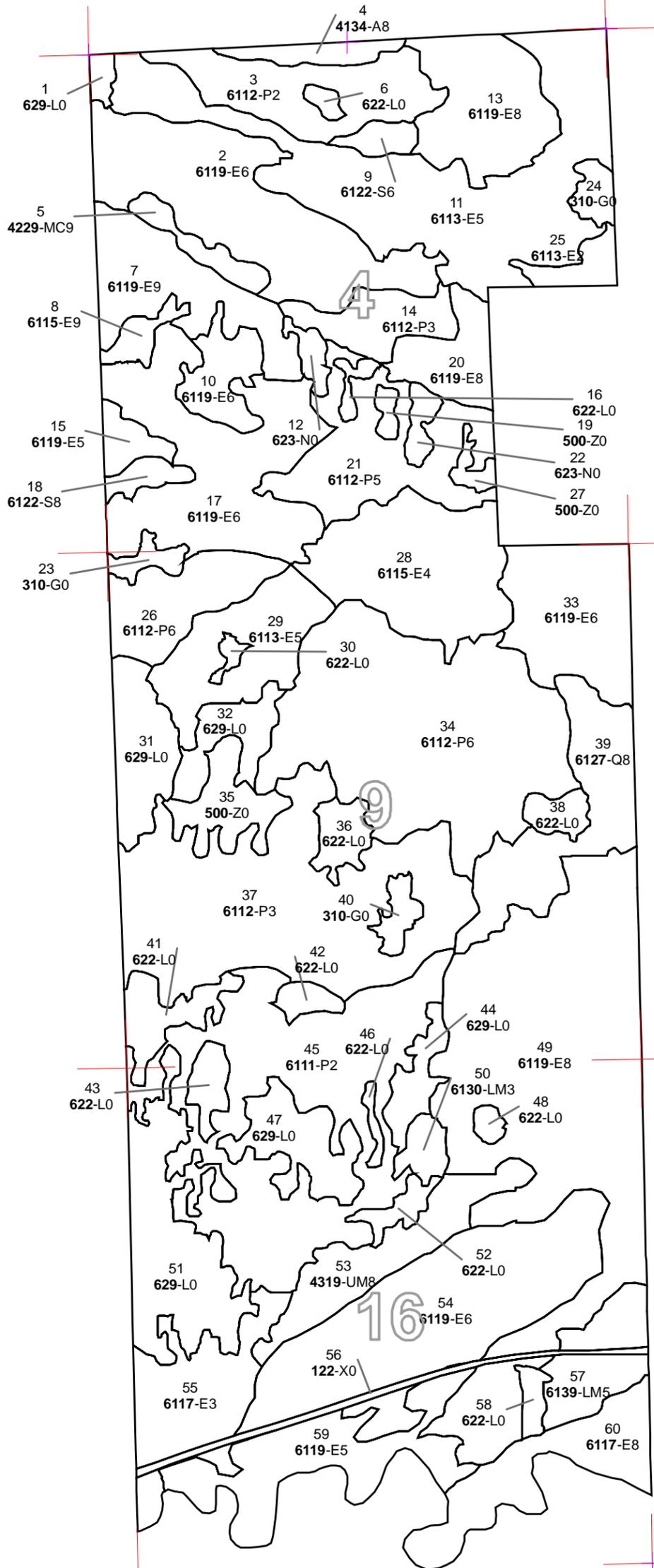
Level 3

- 413 - Aspen Types
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Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
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- 629 - Mixed non-forested wetland



83°52'0"W

83°51'0"W

83°50'0"W

83°49'0"W

45°7'0"N

45°7'0"N

45°6'0"N

45°6'0"N

45°5'0"N

45°5'0"N

Table 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 +		Uneten Age
Aspen	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	0	245	232	0	0	0	0	0	0	0	0	0	0	477
Lowland Conifers	0	0	0	0	0	0	42	0	0	0	0	0	0	0	42
Lowland Deciduous	0	38	0	62	0	73	68	72	460	78	41	0	0	0	891
Lowland Mixed Forest	0	0	0	6	0	22	0	0	0	0	0	0	0	0	28
Lowland Shrub	176	0	0	0	0	0	0	0	0	0	0	0	0	0	176
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Natural Mixed Pines	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Total	229	38	245	300	0	95	110	80	478	78	41	0	30	0	1724



Table 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2014

Compartment 096
Total Compartment Acres: 1724

Acres by Treatment Type

Commercial Harvest - 69	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	8	0	0	0	0	0	0	8
Lowland Deciduous	53	0	0	0	0	0	0	53
Natural Mixed Pines	8	0	0	0	0	0	0	8
Total	69	0	0	0	0	0	0	69



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	54096002_Cut	30.9	6119 - Mixed Lowland Deciduous Forest	High Density Pole	54	51-80	Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<u>Prescription:</u> Final harvest. Leave 3-10% of stand as retention areas representative of the stand on a whole. Exclude wet areas from the sale. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Expected regeneration includes a medium stocking level of: quaking aspen, red maple, and black spruce. Regeneration survey in 3-5 years. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
4	54096004-Cut	7.8	4134 - Aspen, Spruce/Fir	Medium Density Log	86	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription:</u> Final harvest. Retain 1-2 mature pine per acre as seed trees. Avoid damage to advanced regeneration of pine and spruce in the understory. <u>Specs:</u> <u>Other</u> Currently stand acts as a visual buffer along Long Rapids Rd, however aspen throughout the stand is beginning to decline and should be <u>Comments:</u> harvested. <u>Next</u> Acceptable regeneration includes a medium/medium-high stocking level of aspen, red maple, spruce, fir, and pine. Regeneration survey in 3-5 <u>Steps:</u> years. <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
5	54096005-Cut	8.4	42290 - Natural Mixed Pine	High Density Log	74	81-110	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription:</u> Clearcut all merchantable species. Leave retention area(s) and reserve 1-3 red and white pine per acre as seed trees. Protect red and white pine <u>Specs:</u> over 26" in diameter. Also protect unmerchantable pine and spruce trees in the understory. <u>Other</u> <u>Comments:</u> <u>Next</u> Expected regeneration includes: any mix of aspen, red and white pine, black spruce, paper birch and red maple at a high/medium-high stocking <u>Steps:</u> level. Regeneration survey in 3-5 years. <u>Proposed</u> <u>Start Date:</u> 10/01/2013										
	54096060-Cut	22.1					Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription:</u> Final harvest. Maintain the 100' buffer for the Thunder Bay River as retention. Avoid damage to pine, oak, and spruce regeneration in the <u>Specs:</u> understory. <u>Other</u> Access through gated ORV trail extending off of McConnaughey Rd . Summer cut only. Harvesting early to cut with a stand in C94. <u>Comments:</u> <u>Next</u> Expected regeneration includes a medium/medium-high stocking of: aspen, paper birch, red maple, white pine, black spruce, and balsam fir. <u>Steps:</u> Regeneration survey in 3-5 years. <u>Proposed</u> <u>Start Date:</u> 10/01/2012										
Total Treatment Acreage Proposed:		69.1								

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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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Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54002031-N-CCR Burn/Scarify	2.9	42220 - Natural Jack Pine	High Density Pole	69		Harvest	Clearcut with Reserves	42121 - Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal - Incomplete

Prescription Do not cut red pine, white pine, oak. Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand. Retain 3 to 10 percent of stand area in one or more patches. Location(s) will be determined during sale prep and will be representative of the stand's species mix as a whole.

Other Comments:

Next Steps: Post harvest: if this treatment falls inside of a BSA, then burn or scarify before planting jack pine. When planting, attempt to avoid the use of trenching. If the treatment is not inside a BSA, plant jack pine.

Proposed Start Date: 10/01/2010

54002031-N-CCR Burn/Scarify	2.9	42220 - Natural Jack Pine	High Density Pole	69		Harvest	Clearcut with Reserves	42121 - Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal - Incomplete
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Prescription Do not cut red pine, white pine, oak. Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a medium or well stocked stand. Retain 3 to 10 percent of stand area in one or more patches. Location(s) will be determined during sale prep and will be representative of the stand's species mix as a whole.

Other Comments:

Next Steps: Post harvest: if this treatment falls inside of a BSA, then burn or scarify before planting jack pine. When planting, attempt to avoid the use of trenching. If the treatment is not inside a BSA, plant jack pine.

Proposed Start Date: 10/01/2010

**Total Treatment
Acreage Proposed: 5.8**

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Atlanta Mgt. Unit

5 – Forested Stands

Compartment: 096

Year of Entry: 2014



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6119 - Mixed Lowland Deciduous Forest	High Density Pole	73.4	54	51-80	
3	6112 - Lowland Aspen	Medium Density	36.2	32		
4	4134 - Aspen, Spruce/Fir	Medium Density Log	7.8	86	81-110	Large residual jack pine scattered throughout the stand.
5	42290 - Natural Mixed Pine	High Density Log	8.4	74	81-110	Merchantable timber along road.
7	6119 - Mixed Lowland Deciduous Forest	High Density Log	36.8	88	81-110	Low areas with standing water. Substantial blowdown, mostly declining aspen. Scattered white and black spruce present in the stand.
8	6115 - Lowland Ash	High Density Log	5.7	88	81-110	Standing water.
9	6122 - Black Spruce	High Density Pole	5.2	82	51-80	
10	6119 - Mixed Lowland Deciduous Forest	High Density Pole	14.8	63	51-80	A few scattered large red pine. Wet ground.
11	6113 - Lowland Maple	Medium Density Pole	106.6	87	1-50	Standing water, blowdown heavy in some areas. Varying degrees of wetness throughout the stand.
13	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	38.6	84	111-140	Varying amounts of standing water throughout the stand.
14	6112 - Lowland Aspen	High Density Sapling	18.1	26		
15	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	7.1	84	51-80	Dense tag alder in areas.
17	6119 - Mixed Lowland Deciduous Forest	High Density Pole	71.9	77	1-50	Large standing dead snags. Over mature aspen and birch; Large scattered red pine and black spruce throughout the stand.
18	6122 - Black Spruce	Medium Density Log	5.2	86	1-50	
20	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	17.7	69	81-110	
21	6112 - Lowland Aspen	Medium Density Pole	44.9	39	81-110	Higher ground areas of nice aspen, scattered areas of young aspen. Beaver activity present in stand.
25	6113 - Lowland Maple	Medium Density	7.5	36		

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Atlanta Mgt. Unit

5 – Forested Stands

Compartment: 096

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6112 - Lowland Aspen	High Density Pole	26.4	33	81-110	Standing water in places, drier toward the northern part of stand. Beaver activity present in stand.
28	6115 - Lowland Ash	Low Density Pole	54.4	33		Standing water and beaver activity present. Lots of declining/dying ash, extremely wet/poor site. Cattails make up much of the understory.
29	6113 - Lowland Maple	Medium Density Pole	35.2	61	51-80	Heavy beaver activity. Standing water throughout. A few black willow scattered in stand.
33	6119 - Mixed Lowland Deciduous Forest	High Density Pole	41.2	105	1-50	Standing water throughout a majority of the stand.
34	6112 - Lowland Aspen	High Density Pole	124.1	33	111-140	
37	6112 - Lowland Aspen	High Density Sapling	115.3	22		Scattered white pine, balsam fir, and white spruce. Occasional upland ridges, dominated mostly by lowlands.
39	6127 - Lowland Pine	Medium Density Log	41.9	68	81-110	Scattered black spruce throughout stand.
45	6111 - Lowland Balsam Poplar	Medium Density	112.0	22		Overall poor site quality. Beaver activity present.
49	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	173.2	86		Scattered cedar and balsam in stand.
50	6130 - Fir, Aspen, Maple	High Density Sapling	6.2	36		Understory mostly tag alder.
53	4319 - Mixed Upland Forest	Medium Density Log	30.0	125	111-140	Good wildlife stand. There are a lot of standing dead snags as well as animal burrows.
54	6119 - Mixed Lowland Deciduous Forest	High Density Pole	91.6	86	111-140	
55	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	38.0	17		
57	6139 - Mixed Lowland Forest	Medium Density Pole	22.0	54		Standing water present throughout much of the site.
59	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	42.7	96		Scattered black spruce and white pine located along the RR grade/snowmobile trail.
60	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	35.0	95	1-50	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	629 - Mixed non-forested wetland	2.7	N/A	Unspecified	
6	6220 - Alder/willow	2.1	N/A	Unspecified	New stand added.
12	623 - Emergent Wetland	4.1	N/A	Unspecified	
16	6229 - Mixed lowland shrub	2.6	N/A	Unspecified	
19	50 - Water	2.4	N/A	Unspecified	
22	6239 - Mixed Emergent Wetland	4.4	N/A	Unspecified	
23	3102 - Grass	4.6	N/A	Unspecified	
24	3102 - Grass	5.3	N/A	Unspecified	
27	50 - Water	3.3	N/A	Unspecified	
30	6229 - Mixed lowland shrub	1.8	N/A	Unspecified	New stand added. Stand swapped from Forested to Non-Forested.
31	629 - Mixed non-forested wetland	21.7	N/A	Unspecified	
32	629 - Mixed non-forested wetland	14.1	N/A	Unspecified	
35	50 - Water	16.2	N/A	Unspecified	
36	6220 - Alder/willow	8.1	N/A	Unspecified	New stand added.
38	6220 - Alder/willow	5.8	N/A	Unspecified	should be seperated from stand 36 Stand swapped from Forested to Non-Forested.
40	3102 - Grass	5.3	N/A	Unspecified	
41	6229 - Mixed lowland shrub	12.9	N/A	Unspecified	
42	6229 - Mixed lowland shrub	4.4	N/A	Unspecified	New stand added.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
43	6229 - Mixed lowland shrub	6.5	N/A	Unspecified	Stand swapped from Forested to Non-Forested.
44	629 - Mixed non-forested wetland	9.8	N/A	Unspecified	Stand swapped from Forested to Non-Forested.
46	6229 - Mixed lowland shrub	2.0	N/A	Unspecified	
47	629 - Mixed non-forested wetland	21.3	N/A	Unspecified	Stand swapped from Forested to Non-Forested.
48	6220 - Alder/willow	2.3	N/A	Unspecified	New stand added.
51	629 - Mixed non-forested wetland	48.2	N/A	Unspecified	
52	6220 - Alder/willow	5.3	N/A	Unspecified	Stand swapped from Forested to Non-Forested.
56	122 - Road/Parking Lot	7.7	N/A	Unspecified	New stand added.
58	6220 - Alder/willow	3.9	N/A	Unspecified	New stand added.



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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