



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 110

Entry Year 2015

Acreage: 1,376

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 10/31/2013

Stand Examiner: Darrick Coy

Legal Description:

T32N, R6E, Sections 1, 2, & 13; T32, R7E, Section 7

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and topography:

Soils are primarily somewhat poorly to poorly drained mucky sands. Dominating soil types are Tacoda-Wakely Complex and Proper-Deford-Rousseau Complex. Pockets of higher ground with better drainage occur within the SE of section 18. The topography is relatively flat.

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

State land ownership is solid within the interior. State land borders to the S and W. Some hunting camps are using two-tracks for private access within sections 13 and 7.

Unique Natural Features:

None known, MNFI has not surveyed within this compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Do not conduct anymore clearcutting within cedar stands due to poor regeneration results. Begin haresting within cedar stands once technology and environmental conditions are more favorable for cedar regeneration. Protect the North Branch of the Thunder Bay River and soils sensitive to rutting and compaction when prescribing any treatments.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Featured species within this compartment include ruffed grouse, snowshoe hare, American woodcock, and black bear. There is good potential for red shouldered hawk and goshawk as well. Any treatments should protect stick nests as appropriate. Most uplands in this compartment are ridges with little potential for developing or maintaining openings. This has historically been the case. Wildlife benefits will come from maintaining a mix of young forest with older stands for variation in habitat types.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, coarse-textured glacial till and minor dune sand. The glacial drift thickness varies between 0 and 50 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is quarried for clay/shale and limestone/cement products ten miles to the southeast. Gravel pits are located in the area but potential on State land appears to be limited. This area has had no drilling for oil and gas. The Antrim Shale is not present. There are no State oil and gas leases in the area.

Vehicle Access:

Good, less developed in extremely wet areas. Close any skid trails and access two-tracks created before closing sales.

Survey Needs:

SE corner of NWNW section 7, potential cabin trespass.

Recreational Facilities and Opportunities:

Snowmobile trail bisections portions of section 7 and 12. Many areas are likely used by hunters of bear, bobcat, hare,

deer, and grouse. The North Branch of the Thunder Bay river may get some fishing use as well.

Fire Protection:

Alpena field office.

The majority of this compartment is lowland and has potential for more extreme fires within extended periods of drought.

Water resources are available but difficult to access with poorly drained soils.

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

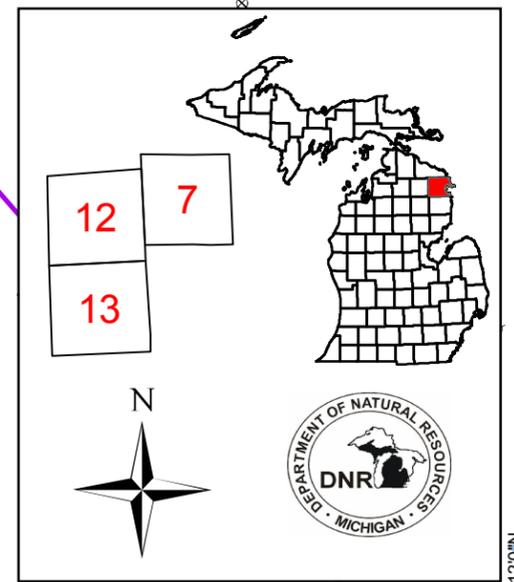
Site condition boundaries

Details on the road access system

Cover Type & Treatment Map

Compartment: 110
 T32N R06E
 Sections 12, 13
 T32N R07E
 Section 7
 County: Alpena
 Unit: Atlanta
 YOE: 2015
 Acres: 1,376 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 09/10/2013
 Map Phase: Web Post

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



Legend

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Powerline
- Stream
- Intermittent Stream
- Lakes and Rivers
- Snowmobile Trails
- Snowmobile Trail

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)

Forest Stands

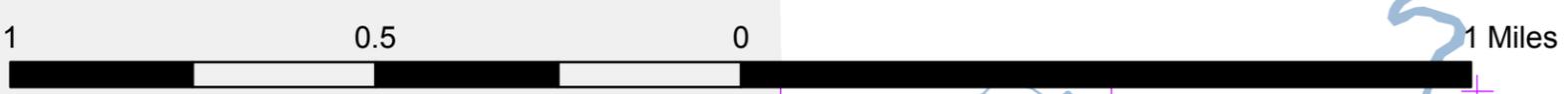
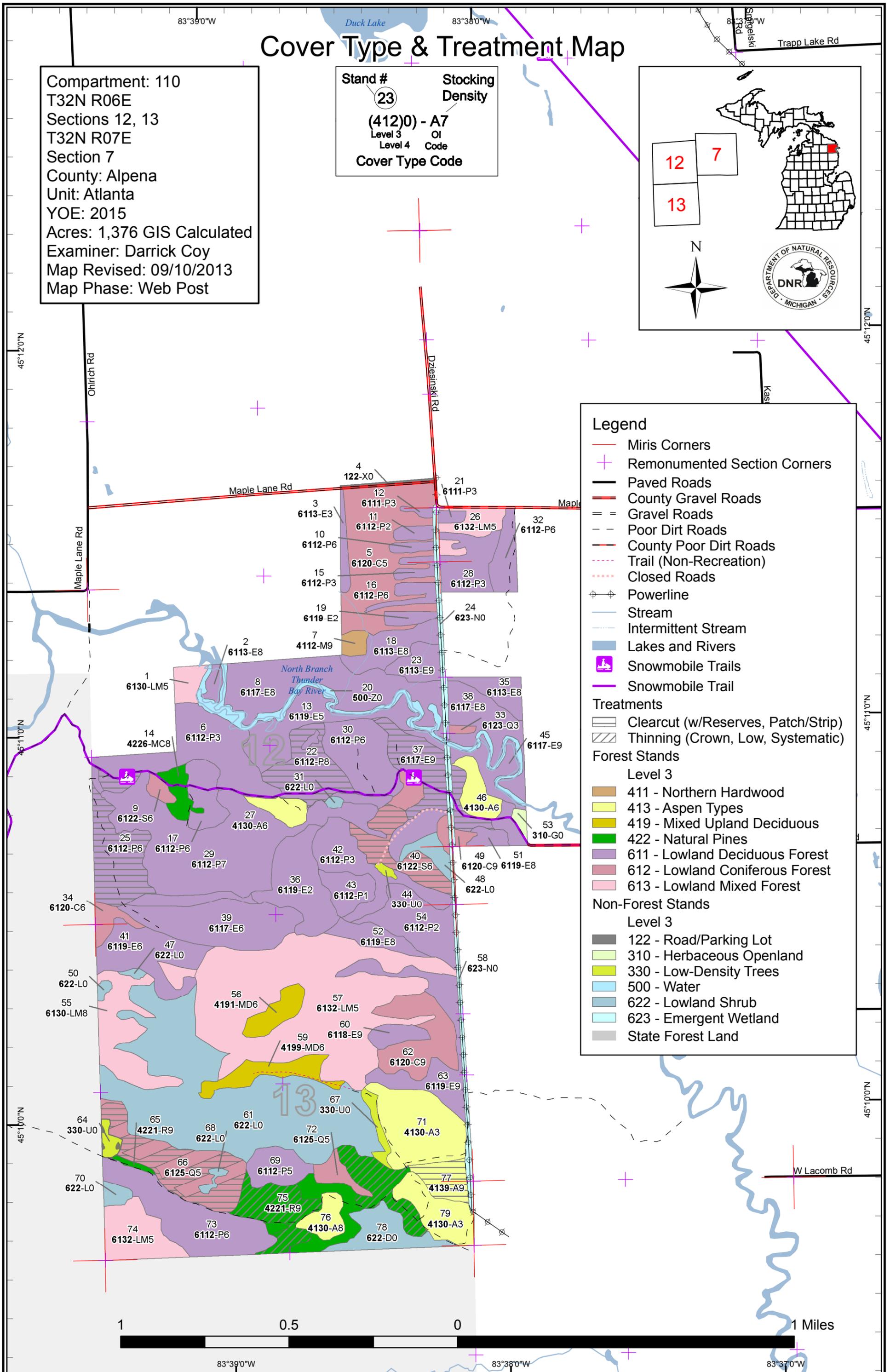
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 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
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- State Forest Land



83°39'0"W 83°38'0"W 83°37'0"W

45°12'0"N 45°11'0"N 45°10'0"N

45°12'0"N 45°11'0"N 45°10'0"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	17	32	0	6	9	0	0	8	10	0	0	0	0	0	81
Cedar	0	0	0	0	0	0	0	0	5	3	77	0	0	0	85
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	98	17	84	7	29	0	0	25	11	79	0	0	0	352
Lowland Conifers	0	0	0	7	0	0	0	34	0	0	0	0	0	0	41
Lowland Deciduous	0	34	0	35	32	0	9	37	36	131	0	0	0	0	315
Lowland Mixed Forest	0	0	0	0	0	0	0	6	27	128	10	19	0	0	189
Lowland Shrub	142	0	0	0	0	0	0	0	0	0	0	0	0	0	142
Lowland Spruce/Fir	0	0	0	0	0	0	0	22	3	0	0	0	0	0	24
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6
Northern Hardwood	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
Red Pine	0	0	0	0	0	0	0	49	0	0	0	0	0	0	49
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Total	226	165	17	132	49	29	9	176	106	277	166	19	6	0	1376



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2015

Compartment 110
Total Compartment Acres: 1,376

Acres by Treatment Type

Commercial Harvest - 157 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	10	0	0	0	0	0	10
Lowland Coniferous Forest	38	0	0	0	0	0	38
Lowland Deciduous Forest	74	0	0	0	0	0	74
Natural Pines	0	0	0	0	35	0	35
Total	122	0	0	0	35	0	157



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	54110022-Cut	21.7	6112 - Lowland Aspen	Medium Density Log	87	51-80	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<u>Prescription</u> -clearcut <u>Specs:</u> -leave all wp, cedar, and rp -retention/exclusion pockets for excessively wet pocket to N and area S of snowmobile trail already excluded from treatment boundary (see treatment layer) -winter cut only in specs -protect snowmobile trail in specs -grouse spec <u>Other</u> -good landing location within SW corner of stand adjacent to P3 stand 6 <u>Comments:</u> <u>Next</u> -regen survey in 3-5 yrs <u>Steps:</u> -acceptable regeneration is aspen, rm, and lowland conifer of moderate to high stocking <u>Proposed</u> <u>Start Date:</u> 10/01/2014										

25	54110025-Cut	28.4	6112 - Lowland Aspen	High Density Pole	52	51-80	Harvest	Clearcut with Reserves	6130 - Fir, Aspen, Maple	Cmpt. Review Proposal
<u>Prescription</u> -clearcut <u>Specs:</u> -leave all wp, cedar, and rp -3-7% retention pocket(s) (leave around excessively wet areas that may have a harder time regenerating (E to SE half)) -keep excluded drainage to NW corner out of treatment (see treatment layer) -protect wp over 26 in in specs -require harvesting outside of Spring and protect snowmobile trail in specs -grouse spec <u>Other</u> -access two-track S needs temporary crossing for intermittent drainageway (see OFS) <u>Comments:</u> <u>Next</u> -regen survey in 3-5 years <u>Steps:</u> -acceptable regen is aspen, rm, ash, and lowland conifer of medium to high stocking <u>Proposed</u> <u>Start Date:</u> 10/01/2014										

37	54110037-Cut	23.8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	75	51-80	Harvest	Clearcut with Reserves	6130 - Fir, Aspen, Maple	Cmpt. Review Proposal
<u>Prescription</u> -clearcut (partial stand harvest- see treatment layer) <u>Specs:</u> -leave all rp and wp -no area retention necessary (excluded stream buffer, vernal pond, and drop-off area south of closed two-track satisfies this requirement) -harvest outside of Spring and protect snowmobile trail in specs -grouse spec <u>Other</u> -use powerline opening for landing area to N <u>Comments:</u> -if producer chooses to create an additional landing for S, closed NE-SW two-track holes will need leveling and fill <u>Next</u> -regen survey in 3-5 yrs <u>Steps:</u> -acceptable regen is aspen, rm, bf and ash of medium to high stocking <u>Proposed</u> <u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	54110040-Cut	17.2	6122 - Black Spruce	High Density Pole	77	51-80	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -seed-tree cut (partial stand treatment- see trmt layer) <u>Specs:</u> -cut all trees and leave 30-50 ba rp and wp in clumps and/or scattered individuals when opportunity presents itself (suggest mark-to-cut and evaluate possibility of blowdown while marking) -include treatment with adjacent clearcut to east -harvest outside of Spring <u>Other</u> -access two-track heading NE-SW needs fill and/or culverts, if used <u>Comments:</u> -wp & rp more common to S half of treatment <u>Next</u> -regen survey in 3-5 yrs <u>Steps:</u> -acceptable regen is bs, bf, rm, aspen, ash, rp, and wp of medium to high stocking <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
66	54110066-Cut	21.0	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	78	51-80	Harvest	Patch or Strip Clearcut	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> -strip clearcut <u>Specs:</u> -leave equally spaced 3 chain wide strips orienting NE-SW to help with seeding stand and improving drainage (see treatment layer) -leave all, depending on abundance, RP and WP (if some/all blow over that is ok) -no other retention necessary besides lowland nf inclusion exclusion -harvest outside of Spring -leave at least 1 brush pile per 1-2 acres in specs (WLD) <u>Other</u> -better regeneration success within areas of slightly higher terrain from previous adjacent clearcut to west, stand 64, cut in winter of 2009 <u>Comments:</u> <u>Next</u> -regen survey in 3 years <u>Steps:</u> -acceptable regen is jp, wp, rp, bs, bf, and aspen of medium to high stocking -scarify and/or furrow seed stand to jack pine and black spruce mix if natural regeneration is inadequate <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
75	54110075-Cut	35.4	42210 - Natural Red Pine	High Density Log	72	141-170	Harvest	Crown Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> -mark thin rp to approx. 110-120 BA leaving roughly 2/3-3/4 residual BA <u>Specs:</u> -concentrate on removing skinny unproductive rp with small crowns -leave slightly higher residual near adjacent open areas and cut to east to avoid blowdown <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
77	54110077-Cut	9.7	4139 - Aspen, Mixed Deciduous	High Density Log	88	111-140	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> -clearcut <u>Specs:</u> -leave retention pockets (3-7%) around areas heavier to birch to sw -harvest outside of Spring due to two-track access rutting -grouse spec <u>Other</u> -aspen is too dominant to manage for n hardwood <u>Comments:</u> <u>Next</u> -regen survey in 3-5 yrs <u>Steps:</u> -acceptable regeneration is aspen, sm, rm, bf, and birch of medium to high stocking <u>Proposed</u> <u>Start Date:</u> 10/01/2014										

**Total Treatment
Acreage Proposed: 157.2**

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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

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment 110
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions								
	Available	Not Available		No	5C	5B	5A	3L	3J	2H	2G	
81	81	0	Aspen	74		8		0				
85		85	Cedar				82		3			
352	349	3	Lowland Aspen/Balsam Poplar	253	17	79			3			
40	40		Lowland Conifers	28		12						
314	189	126	Lowland Deciduous	127	15	47	12	3	59	3	49	
189	6	182	Lowland Mixed Forest	6			29		2	24	127	
24	24		Lowland Spruce/Fir	24								
21		21	Mixed Upland Deciduous							21		
6	6		Natural Mixed Pines	6								
3	3	1	Northern Hardwood	3					1			
49	49		Red Pine	49								
1,166	748	418	Total Forested Acres	571	31	146	123	3	67	48	177	
	64%	36%	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
002	Available	5B: Retention for regeneration purposes	8				
Comments: -significant aspen blowdown from past rp thinning harvesting what little aspen that is left would be difficult and conflicting with surrounding rp management							
003	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	24	5A: Not able to obtain desirable regeneration			
Comments:							

Report 5 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

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Year of Entry 2015

004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	25	5A: Not able to obtain desirable regeneration	
Comments: -if cut a lot of this stand would convert to tag alder and poor quality black ash					
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6		
Comments:					
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9		
Comments:					
007	Available	5B: Retention for regeneration purposes	79		
Comments: -canopy is falling apart and now only constitutes 25-50% coverage -BA is under 50 overall, subcanopy regrowth is significant due to overstory decline -too much damage would be done to developing saplings and poles					
008	Available	5B: Retention for regeneration purposes	8		
Comments: -canopy is falling apart and now only constitutes 25-50% coverage -BA is under 50 overall, half of aspen is dead, subcanopy regrowth is significant due to overstory decline					

Report 5 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment 110
Year of Entry 2015

009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5		
Comments:					
010	Available	5B: Retention for regeneration purposes	26		
Comments:					
-significant amount of conifer would be damaged that is now coming in well under aspen that is in very poor condition and barely alive					
011	Available	5B: Retention for regeneration purposes	13		
Comments:					
-significant amount of conifer would be damaged that is now coming in well under aspen that is in very poor condition and barely alive					
012	Not Available	3J: Water quality / BMPs (stream, river, or lake)	67	2G: Too wet (sensitive soils, does not include access issues)	3L: Other wildlife concerns
Comments:					
-Minimum 100ft buffer distance for stream and lake protection with 0% slope					
-Selection or thinning may be allowed but no clearcutting					
-other wildlife concern is for vernal pool and amphibians					
013	Not Available	5A: Not able to obtain desirable regeneration	12	2G: Too wet (sensitive soils, does not include access issues)	
Comments:					
-standing water throughout whole stand approx. 60-80% coverage					
-harvesting would put stand at risk in becoming non-forested and/or cause significant rutting near/adjacent to riparian area and stream					

Report 5 – Site Conditions

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Year of Entry 2015

014	Not Available	2G: Too wet (sensitive soils, does not include access issues)	14	3L: Other wildlife concerns	
Comments: -other wildlife concern is for vernal pool and amphibians					
015	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11		
Comments:					
016	Not Available	5A: Not able to obtain desirable regeneration	24		
Comments: -deer browse and lack of regeneration technology					
017	Not Available	2G: Too wet (sensitive soils, does not include access issues)	128	5A: Not able to obtain desirable regeneration	5A: Not able to obtain desirable regeneration
Comments: -fairly stagnant growth with very old smaller diameter trees and high tag alder subcanopy dominance					
018	Not Available	5A: Not able to obtain desirable regeneration	3		
Comments: -deer browse and lack of regeneration technology					
019	Not Available	5A: Not able to obtain desirable regeneration	50		
Comments: -deer browse and lack of regeneration technology					

Report 5 – Site Conditions

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020	Not Available	5A: Not able to obtain desirable regeneration	10		
Comments: -deer browse and lack of regeneration technology					
021	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3	5A: Not able to obtain desirable regeneration	
Comments: -significantly wet, overstory falling apart with saps coming in					
022	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7	5A: Not able to obtain desirable regeneration	2F: Too steep
Comments: -thick alder under scattered aspen and drop-off S of two-track					
023	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3		
Comments:					
024	Not Available	5A: Not able to obtain desirable regeneration	5		
Comments: -deer browse and lack of regeneration technology					
025	Not Available	5A: Not able to obtain desirable regeneration	19		
Comments: -deer browse and lack of regeneration technology					

Report 5 – Site Conditions

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026	Available	5B: Retention for regeneration purposes	12	
Comments:				
027	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	2F: Too steep
Comments:				
028	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	
Comments:				
029	Not Available	3L: Other wildlife concerns	3	
Comments: -other wildlife concern is for vernal pool and amphibians				



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
Vernal Pool B	Spring-Seeps, Riparian Areas	Vernal Pool	SCA	3.4
Comments vernal pool with 2 chain buffering				
Vernal Pool A	Spring-Seeps, Riparian Areas	Vernal Pool	SCA	6.7
Comments pool with buffer of 2 chains				



Report 7 – 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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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 110
Year of Entry: 2015

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6130 - Fir, Aspen, Maple	Medium Density Pole	5.6	77		
2	6113 - Lowland Maple	Medium Density Log	2.9	93		
3	6113 - Lowland Maple	High Density Sapling	3.9	16		-could not locate corner to the south to confirm whether this is/was a timber trespass -it appears the fence was followed with the painted boundary line on private
5	6120 - Lowland Cedar	Medium Density Pole	53.2	103	51-80	-maple more significant to the south where it is overtopping cedar
6	6112 - Lowland Aspen	High Density Sapling	37.2	14		-some higher ground mixed in but mostly lowland -poorer regen success to E with alder, birch, ash, and spruce
7	4112 - Maple, Beech, Cherry Association	High Density Log	3.4	94	81-110	-half of stand could be on private property, could not locate survey corner -adjust boundary once corner is established or located
8	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	45.9	94	51-80	-dense balsam in subcanopy -significant thermal protection stand with riparian concerns -more aspen vs adjacent stands to north
9	6122 - Black Spruce	High Density Pole	2.8	85	51-80	
10	6112 - Lowland Aspen	High Density Pole	2.4	43		
11	6112 - Lowland Aspen	Medium Density	3.0	19		
12	6111 - Lowland Balsam Poplar	High Density Sapling	1.2	29		-rubber boots req. if outside of winter
13	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	23.8	87	51-80	-standing water in most of stand -trees growing on hummocks -same age as adj stand to S but less aspen
14	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	6.5	125	51-80	-two trees average 125 yrs -smooth scaly bark on tp -small stand, rolling terrain, inconsistent stocking, lowland veins intermixed
15	6112 - Lowland Aspen	High Density Sapling	3.7	19		
16	6112 - Lowland Aspen	High Density Pole	5.1	48		
17	6112 - Lowland Aspen	High Density Pole	11.7	38		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6113 - Lowland Maple	Medium Density Log	13.4	94	51-80	-two intermittent streams (3-5ft wide) bisect stand and were mostly GPS'd
19	6119 - Mixed Lowland Deciduous Forest	Medium Density	3.7	15		-fair amount of ash and tall alder
21	6111 - Lowland Balsam Poplar	High Density Sapling	1.8	36		
22	6112 - Lowland Aspen	Medium Density Log	25.4	87	51-80	
23	6113 - Lowland Maple	High Density Log	8.7	61	111-140	-very dense and high volume in maple -water table is very high in this stand and rm is thriving -pockets over 120 ba -average quality timber -vernal pool or broad base drainage located as well as intermittent stream (3-5 ft wide)
25	6112 - Lowland Aspen	High Density Pole	29.4	52	51-80	-upland ridge bisects stand n-s with lowlands below primarily consisting of rm -lowland component seems dominant and access is through lowland
26	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	9.5	105	51-80	
27	4130 - Aspen	High Density Pole	6.3	37		
28	6112 - Lowland Aspen	High Density Sapling	15.6	28		
29	6112 - Lowland Aspen	Low Density Log	79.3	103	1-50	-most aspen are significantly rotten and should be gone in next 10-20 years -low aspen canopy coverage 35-45% and total residual ba is under 50
30	6112 - Lowland Aspen	High Density Pole	24.0	37		
32	6112 - Lowland Aspen	High Density Pole	9.4	38		-two-track through stand to S., appears to be for private hunting cabin may be in trespass in the northeast corner of this property -33 ft wide easement granted in 1975 to access the SWNW section 7
33	6123 - Lowland Fir	High Density Sapling	1.2	36	1-50	-appears that this small pocket was harvested -dense fir
34	6120 - Lowland Cedar	High Density Pole	5.0	85	111-140	-trees on hummocks
35	6113 - Lowland Maple	Medium Density Log	8.4	95	1-50	-stand has declined more significantly and has lost a lot of its overstory -significant regrowth of ash and rm throughout stand



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	6119 - Mixed Lowland Deciduous Forest	Medium Density	26.7	13	1-50	-1999 -large adjacent clearcutting resulted in mod.-low aspen stocking due to high water table and no-low residual trees left
37	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	36.9	75	51-80	
38	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	20.9	95	51-80	-about 1/2 of aspen is dead and ba is fairly low 20-30 -rm 20-30 ba -all aspen showing rot -aspen too rotten to bore
39	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	35.1	31	1-50	-mixed stand, scattered log trees -uneven aged (w 1/3rd) -significantly saturated to E
40	6122 - Black Spruce	High Density Pole	21.7	77	51-80	-appears that north 1/3 of stand is smaller size with poorer drainage and more dominant feather moss ground cover (spruce bog)
41	6119 - Mixed Lowland Deciduous Forest	High Density Pole	32.2	44	51-80	-1968 -cedar and balsam 50-50 mix in volume -small inclusion of older timber of same covertypes that was not harvested to adj south, below e-w line on imagery, no significant difference -more ash stems but smaller crowns vs red maple
42	6112 - Lowland Aspen	High Density Sapling	22.5	13		-better regeneration success vs other stands cut to the adjacent south, better drainage
43	6112 - Lowland Aspen	Low Density Sapling	9.6	13		-broke out stand due to density change, quite a bit of the stand has not regenerated
45	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	8.9	83	51-80	-variable structure -peninsula has most cedar and all basswood- some pole cedar overtopped by rm with open subcanopy
46	4130 - Aspen	High Density Pole	9.1	41		-it appears that they left portions to S and W for trail buffer
49	6120 - Lowland Cedar	High Density Log	3.3	93	141-170	-cedar density is much higher east of pwr line
51	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	3.6	81	1-50	-overstory log trees are declining and giving rise to ash -broken up canopy -very high water table and tag alder -poor quality aspen and rm
52	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	8.9	98	51-80	-left out of previous harvest, assume for lowland buffer -overstory aspen will be gone in next 10-20 yrs -smaller timber within southern half closest to lowland, more stagnant growth due to increasingly poorer drainage



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	6112 - Lowland Aspen	Medium Density	22.3	13		
55	6130 - Fir, Aspen, Maple	Medium Density Log	27.3	85	1-50	-veins of lowland shrub blocking n-s access -blocked by many lowland patches and other physical obstacles
56	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	8.7	77	51-80	-have fun climbing the ridge completely covered with balsam to from sw1/3rd to ne..... -some large pine mixed in with stand within sw 1/3rd turning to more birch and rm to ne -a lot of deer tracks
57	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	127.5	96	111-140	-rather stagnant growth, small diameters
59	4199 - Other Mixed Upland Deciduous	High Density Pole	12.4	79	51-80	-on ridge/hilltop
60	6118 - Lowland Deciduous with Cedar	High Density Log	5.8	92	51-80	
62	6120 - Lowland Cedar	High Density Log	23.5	109	111-140	-dense pockets of good quality cedar with scattered rm, birch, ws, and qa logs
63	6119 - Mixed Lowland Deciduous Forest	High Density Log	25.1	92	51-80	-small meandering stand -heavier to rm to the S and ash to N and W -most trees growing in standing water, increasing saturation going from E to W
65	42210 - Natural Red Pine	High Density Log	1.2	72	81-110	
66	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	33.9	78	51-80	
69	6112 - Lowland Aspen	Medium Density Pole	11.4	96	1-50	-very high water table -overstory aspen is almost gone -next yoe aspen should be gone -showing uneven age characteristics but not there yet
71	4130 - Aspen	High Density Sapling	32.1	19		-1993 -vigorous aspen
72	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	5.5	37	1-50	-small bog with natural pines
73	6112 - Lowland Aspen	High Density Pole	36.7	34	1-50	
74	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	19.0	111	51-80	-some cedar is overtopped -standing water throughout stand

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 110
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	42210 - Natural Red Pine	High Density Log	47.7	72	141-170	-PARVCo site -a fair amount of unproductive rp should have been removed and was left, some has blown down along perimeter with lowland
76	4130 - Aspen	Medium Density Log	7.6	72	1-50	-lower basin stand, still upland
77	4139 - Aspen, Mixed Deciduous	High Density Log	9.7	88	111-140	
79	4130 - Aspen	High Density Sapling	16.5	6		-2006



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	122 - Road/Parking Lot	2.2	No	Unspecified	
20	50 - Water	20.8	No	Unspecified	
24	623 - Emergent Wetland	7.2	No	Unspecified	
31	622 - Lowland Shrub	1.0	No	Unspecified	
44	330 - Low-Density Trees	1.0	No	Unspecified	
47	622 - Lowland Shrub	1.0	No	Unspecified	
48	622 - Lowland Shrub	5.5	No	Unspecified	
50	622 - Lowland Shrub	1.2	No	Unspecified	
53	310 - Herbaceous Openland	1.8	No	Unspecified	Sandy site used as party spot. Encourage continued law enforcement action.
58	623 - Emergent Wetland	12.3	No	Unspecified	
61	622 - Lowland Shrub	129.0	No	Unspecified	
64	3302 - Low Density Conifer Trees	2.8	Natural Regen	Lowland Conifers	
67	330 - Low-Density Trees	4.0	Yes	Medium	
68	622 - Lowland Shrub	1.5	No	Unspecified	
70	622 - Lowland Shrub	3.1	No	Unspecified	
78	6224 - Treed Bog	15.2	No	Low	