



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 17

Entry Year 2016

Acreage: 1,057

County Montmorency

Management Area: Avery Hills

Revision Date: 10/28/2014

Stand Examiner: Darrick Coy

Legal Description:

T29N, R02E, Section 36; T29N, R03E, Section 31 & 32

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 mostly loamy sand complexes. Overall, the topography is rolling to flat. The dominant covertypes are northern hardwood, aspen, and oak. The compartment forest habitat types are mostly PARVVb and AFO.

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

Ownership is mostly State to the north and south and private to the east and west. There are some private hunting lands at the east end and the Hunt Creek Research Area lies to the west of the compartment. Active oil and gas wells are scattered throughout the compartment.

Unique Natural Features:

Occurrences-
Potential Occurrences- prairie or pale agoseris and red shouldered hawk

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Hunt Creek

Wildlife Habitat Considerations:

The following have been identified as featured species for this management area and are found in this compartment: Ruffed grouse, Wild turkey, White-tailed deer, and to a lesser extent black bear and pileated woodpecker. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest; extensive mature forest and large open grassland complexes; the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of Coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no known economic use for the Coldwater Shale. The nearest gravel pit is located one mile to the northeast and potential should be good. This area has been drilled and is producing gas from the Antrim Shale.

Vehicle Access:

Hunt Creek and Eberly are the main county roads. Two-tracks intersecting with these roads are mainly used by natural gas/oil companies.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Hunt Creek ORV trail

Fire Protection:

Response time is adequate and cover types are primarily deciduous with a less severe fire threat. Some access two-tracks in poor condition and steep slopes may create access problems.

Additional Compartment Information:

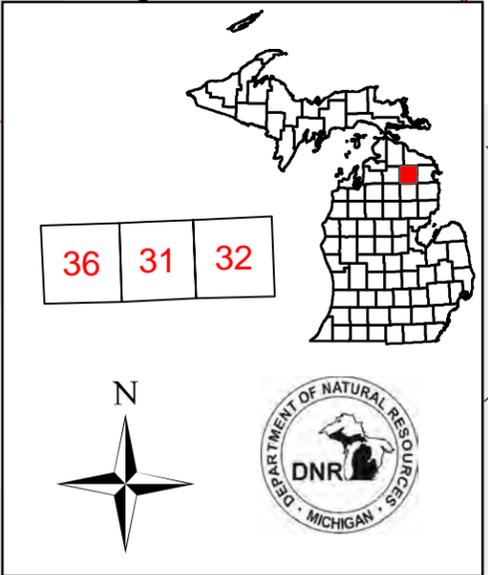
The following reports from the Inventory are attached:

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

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

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

Compartment: 017
 T29N R02E
 Section: 36
 T29N R03E
 Sections: 31, 32
 County: Montmorency
 Unit: Atlanta
 Management Area: Avery Hills
 YOE: 2016
 Acres: 1,057 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 09/06/2014
 Map Phase: Web Post



Cover Type & Treatment Map

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

Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner

Type

- Water Feature
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Pipeline
- Powerline
- Motorcycle Trails (DNR License)
- Motorcycle (DNR Sticker)

Planned Regeneration

- Natural
- Planted

Treatments

- Other Treatment - See Comments
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)
- Treatments w/ Site Condition

Forest Stands

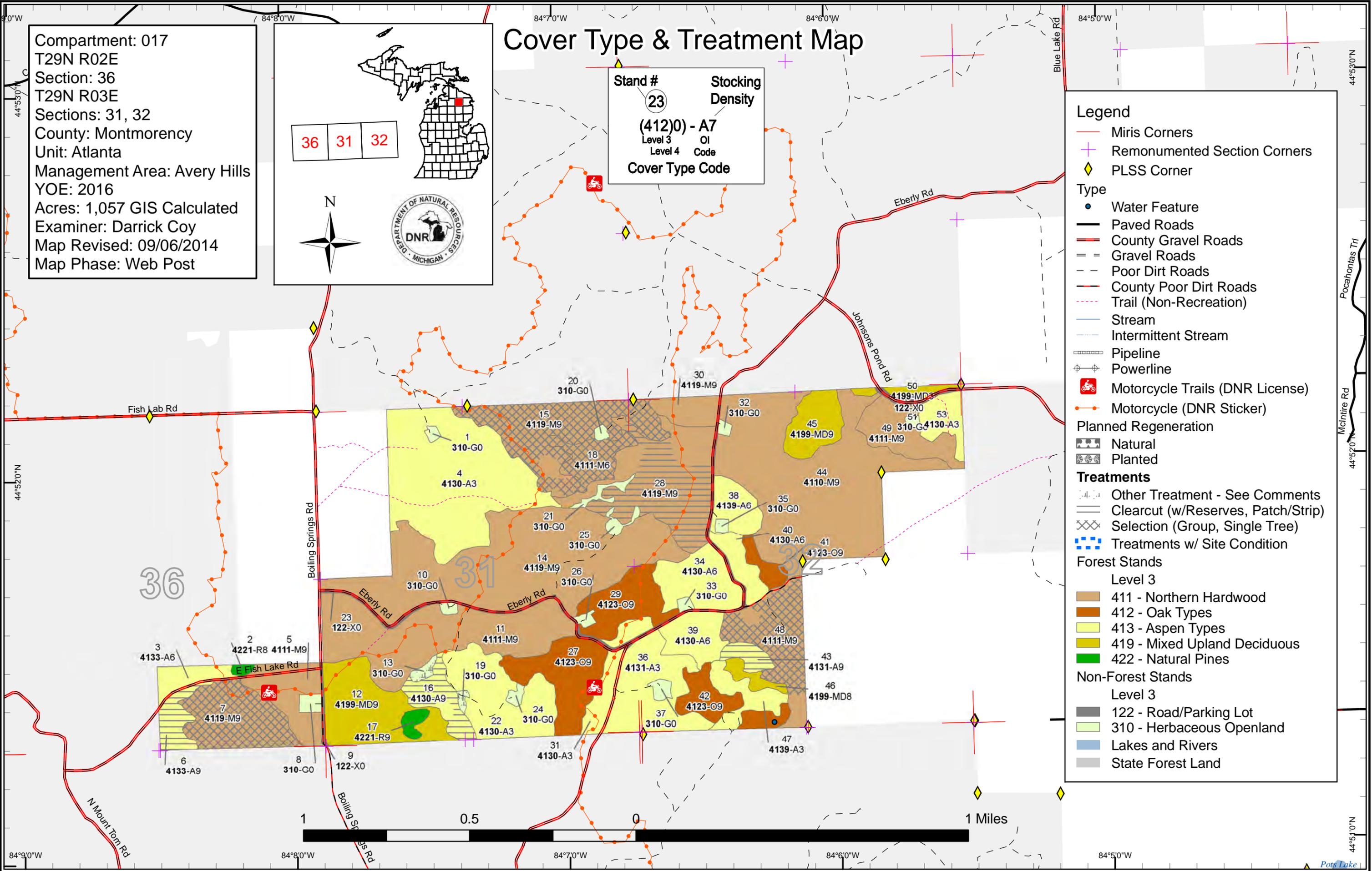
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines

Non-Forest Stands

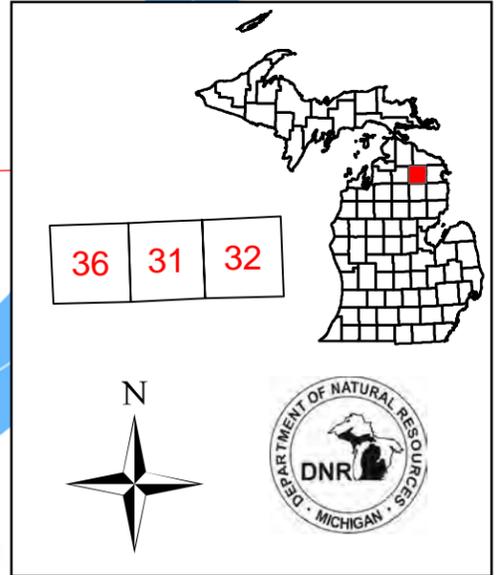
Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- Lakes and Rivers
- State Forest Land



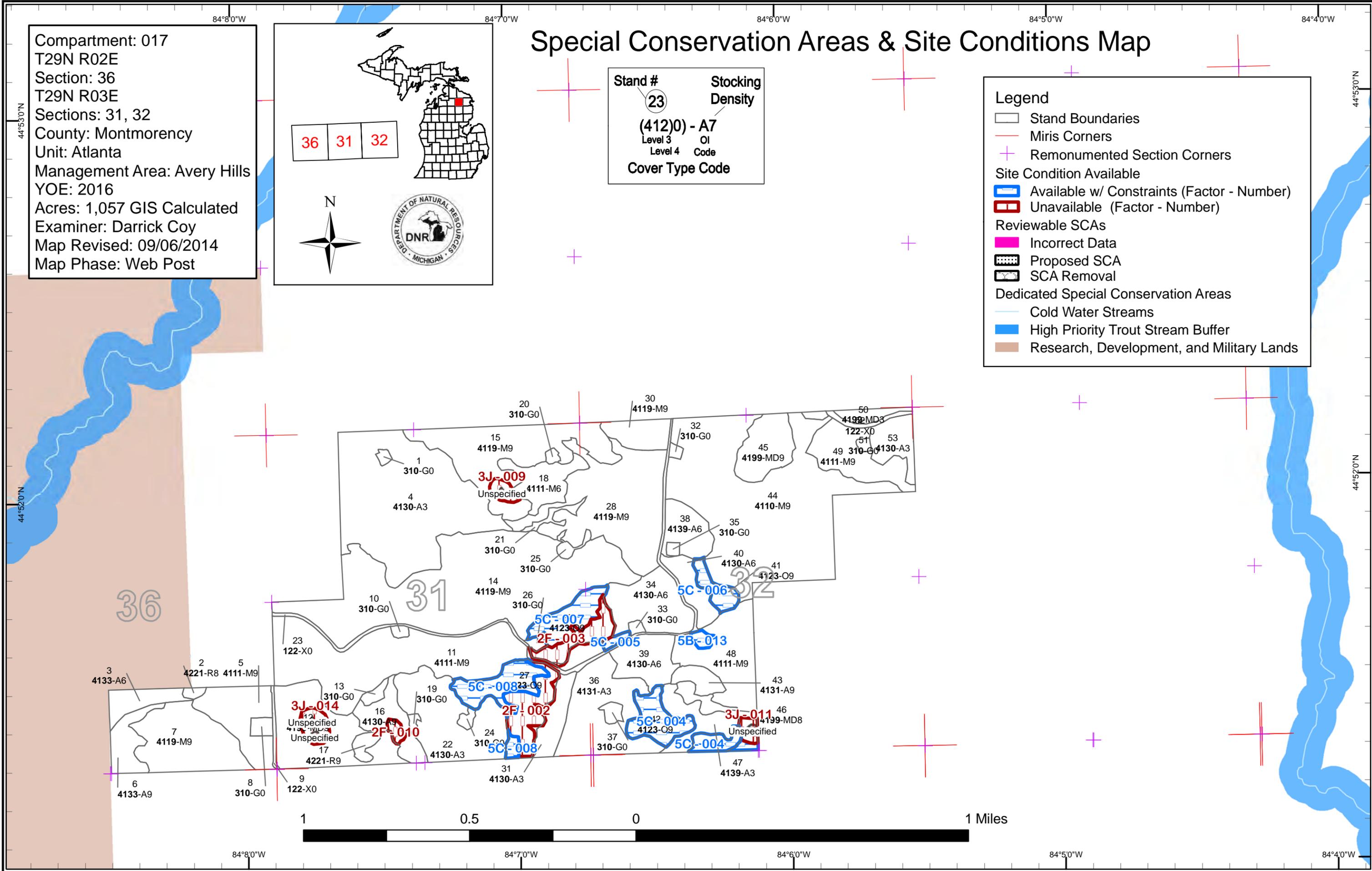
Special Conservation Areas & Site Conditions Map

Compartment: 017
 T29N R02E
 Section: 36
 T29N R03E
 Sections: 31, 32
 County: Montmorency
 Unit: Atlanta
 Management Area: Avery Hills
 YOE: 2016
 Acres: 1,057 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 09/06/2014
 Map Phase: Web Post



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

- Legend**
- Stand Boundaries
 - Miris Corners
 - + Remonumented Section Corners
 - Site Condition Available
 - ▭ Available w/ Constraints (Factor - Number)
 - ▭ Unavailable (Factor - Number)
 - Reviewable SCAs
 - ▭ Incorrect Data
 - ▭ Proposed SCA
 - ▭ SCA Removal
 - Dedicated Special Conservation Areas
 - Cold Water Streams
 - ▭ High Priority Trout Stream Buffer
 - ▭ Research, Development, and Military Lands



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 | 12 | 14 | 178 | 9 | 61 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 304 |
| Herbaceous Openland | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Mixed Upland Deciduous | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 65 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 192 | 381 | 0 | 0 | 0 | 0 | 573 |
| Oak | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 74 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| Urban | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 49 | 14 | 183 | 9 | 61 | 0 | 3 | 0 | 222 | 517 | 0 | 0 | 0 | 0 | 1057 |



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2016

Compartment 017
Total Compartment Acres: 1,057

Acres by Treatment Type

| | | |
|--------------------------|-------------------------|-----------|
| Commercial Harvest - 195 | Tree Planting - 0 | Other - 0 |
| Habitat Cut - 0 | Opening Maintenance - 3 | |

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 | 28 | 0 | 0 | 0 | 0 | 0 | 28 |
| Northern Hardwood | 42 | 125 | 0 | 0 | 0 | 0 | 166 |
| Total | 70 | 125 | 0 | 0 | 0 | 0 | 195 |



| S t a n d | Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|--|----------------|-------|-----------------------------|---------------------|-----------|----------|----------------|---------------------------|-----------------------------|--------------------------|
| 6 | 54017006-Cut | 10.3 | 4133 - Aspen, Mixed Pine | High Density Log | 89 | | Harvest | Clearcut with Reserves | 4133 - Aspen, Mixed Pine | Cmpt. Review Proposal |
| <u>Prescription</u> -clearcut <u>Specs:</u> -leave area retention 3-7% -leave scattered rp, wp, and/or oak not to exceed a combined residual BA of 10 <u>Other</u> -advertise with adjacent stand/treatment <u>Comments:</u> <u>Next</u> -regeneration survey 3-5 yrs <u>Steps:</u> -acceptable regeneration is rm, aspen, fir, pine, and oak of medium to high stocking <u>Proposed</u> <u>Start Date:</u> 10/01/2015 | | | | | | | | | | |

| | | | | | | | | | | |
|---|--------------|------|------------------------------------|---------------------|----|---------|---------|--------------------------|------------------------------------|--------------------------|
| 7 | 54017007-Cut | 34.1 | 4119 - Mixed Northern Hardwoods | High Density Log | 92 | 111-140 | Harvest | Single Tree Selection | 4119 - Mixed Northern Hardwoods | Cmpt. Review Proposal |
| <u>Prescription</u> -cut all ash and beech, except leave 1 beech every 3-5 acres in clumps or scattered individuals <u>Specs:</u> -crop tree release remaining trees to 80 BA residual -create 100 ft regeneration gaps in areas of primarily beech and ash at approximate spacing of 1 every 5 acres (larger regeneration gaps of 120-160ft (1/4 ac- 1/2 ac) may be used in areas heavy to mature oak) -mark-to-cut all trees >2 in DBH in regeneration gaps (clean gaps) and under individual beech and ash -mark 1 mast beech to leave every 3-5 acres in clumps or individuals -avoid partially marking oak stump sprout clusters (take all stems or none) to limit harvest equipment damage to residuals -require shortwood in specs for slopes and residual tree protection -require harvesting with snow off and unfrozen ground -advertise as 3 yr contract due to shorter harvest window -protect ORV trail in specs <u>Other</u> -advertise with adjacent stand/treatment <u>Comments:</u> -treatment purpose is for a regeneration and salvage harvest <u>Next</u> -regen survey in 3-5 years <u>Steps:</u> -acceptable regeneration is aspen, oak, maple, oak, basswood, ash, pine, and beech of medium to high stocking <u>Proposed</u> <u>Start Date:</u> 10/01/2015 | | | | | | | | | | |

| | | | | | | | | | | |
|--|--------------|------|------------------------------------|---------------------|----|---------|---------|--------------------------|------------------------------------|--------------------------|
| 15 | 54017015-Cut | 47.2 | 4119 - Mixed Northern Hardwoods | High Density Log | 81 | 111-140 | Harvest | Single Tree Selection | 4119 - Mixed Northern Hardwoods | Cmpt. Review Proposal |
| <u>Prescription</u> -cut all ash and beech, except leave 1 beech every 3-5 acres in clumps or scattered individuals <u>Specs:</u> -crop tree release remaining trees to 80 BA residual -mark-to-cut all trees >2 in DBH growing under beech and ash -do not mark trees to cut along side slopes greater than 35% -require shortwood in specs for slopes and residual tree protection -protect vernal pool with 2-3 chain buffer (already excluded) -protect ORV trail in specs <u>Other</u> -treatment purpose is for an intermediate and salvage harvest <u>Comments:</u> -qd shows stand is overstocked/high in 6-10 inch DBH class -advertise with adjacent stands/treatments <u>Next</u> -regen survey in 3-5 years <u>Steps:</u> -acceptable regeneration is aspen, oak, maple, oak, basswood, ash, pine, and beech of medium to high stocking <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 |
|---|-------------------|-------|---|-------------------------|--------------|-------------|-------------------|---------------------------|-------------------------------------|--------------------------|
| 16 | 54017016-Cut | 12.3 | 4130 - Aspen | High Density Log | 89 | | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
| <u>Prescription</u> -clearcut | | | | | | | | | | |
| <u>Specs:</u> -leave some scattered mast oak or pine (if present) -area retention already excluded from treatment for steep areas (see site conditions) -shortwood in specs for slopes -protect ORV trail in specs | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | |
| <u>Comments:</u> | | | | | | | | | | |
| <u>Next</u> -regen survey in 3-5 years | | | | | | | | | | |
| <u>Steps:</u> -acceptable regeneration is aspen, oak, maple, oak, basswood, ash, pine, and beech of medium to high stocking | | | | | | | | | | |
| <u>Proposed</u> | | | | | | | | | | |
| <u>Start Date:</u> 10/01/2015 | | | | | | | | | | |
| 18 | 54017018-Cut | 13.7 | 4111 - S.Maple, Hard Mast Association | High Density Pole | 81 | 111-140 | Harvest | Single Tree Selection | 4119 - Mixed Northern Hardwoods | Cmpt. Review Proposal |
| <u>Prescription</u> -cut all ash and beech, except leave 1 beech every 3-5 acres in clumps or scattered individuals | | | | | | | | | | |
| <u>Specs:</u> -crop tree release remaining trees to 80 BA residual -mark-to-cut all trees >2 in DBH growing under beech and ash -do not mark trees to cut along side slopes greater than 35% -require shortwood in specs for slopes and residual tree protection -protect vernal pool with 2-3 chain buffer (already excluded) | | | | | | | | | | |
| <u>Other</u> -treatment purpose is for an intermediate and salvage harvest | | | | | | | | | | |
| <u>Comments:</u> -qd shows stand is overstocked/high in 8-12 inch DBH class -advertise with adjacent stands/treatments | | | | | | | | | | |
| <u>Next</u> -regen survey in 3-5 years | | | | | | | | | | |
| <u>Steps:</u> -acceptable regeneration is aspen, oak, maple, oak, basswood, ash, pine, and beech of medium to high stocking | | | | | | | | | | |
| <u>Proposed</u> | | | | | | | | | | |
| <u>Start Date:</u> 10/01/2015 | | | | | | | | | | |
| 28 | 54017028-Cut | 41.6 | 4119 - Mixed Northern Hardwoods | High Density Log | 87 | 81-110 | Harvest | Clearcut with Reserves | 4116 - Mixed N. Hardwood - Aspen | Cmpt. Review Proposal |
| <u>Prescription</u> -clearcut (partial stand harvest (see treatment layer) for areas of low timber quality and heavy to beech) | | | | | | | | | | |
| <u>Specs:</u> -mark all trees to leave greater than 26 inches in DBH -leave 1 mast or scale resistant beech per 3-5 acres in clumps or scattered individuals -leave 5-10% in multiple area retention pockets (concentrate around mast oak, hollow den trees, and ORV trail) -require harvesting with snow off and unfrozen ground -advertise as 3 yr contract due to shorter harvest window -protect ORV trail in specs | | | | | | | | | | |
| <u>Other</u> -treatment purpose is for a regeneration and salvage harvest | | | | | | | | | | |
| <u>Comments:</u> -advertise with adjacent stands/treatments -regeneration and salvage harvest | | | | | | | | | | |
| <u>Next</u> -regen survey in 3-5 years | | | | | | | | | | |
| <u>Steps:</u> -acceptable regeneration is aspen, oak, maple, oak, basswood, ash, pine, and beech of medium to high stocking | | | | | | | | | | |
| <u>Proposed</u> | | | | | | | | | | |
| <u>Start Date:</u> 10/01/2015 | | | | | | | | | | |
| 43 | 54017043-Cut | 5.8 | 4131 - Aspen, Oak | High Density Log | 84 | 111-140 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
| <u>Prescription</u> -clearcut | | | | | | | | | | |
| <u>Specs:</u> -leave area retention 3-5% -shortwood in specs for slopes | | | | | | | | | | |
| <u>Other</u> -advertise with adjacent stands/treatments | | | | | | | | | | |
| <u>Comments:</u> | | | | | | | | | | |
| <u>Next</u> -regen survey 3-5 yrs | | | | | | | | | | |
| <u>Steps:</u> -acceptable regeneration is aspen, maple, basswood, pine, ash, oak, and beech of medium to high stocking | | | | | | | | | | |
| <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 |
|-----------------------|-------------------|-------|---|---------------------|--------------|-------------|-------------------|--------------------------|---|--------------------------|
| 48 | 54017048-Cut | 29.5 | 4111 - S.Maple, Hard Mast Association | High Density Log | 85 | 111-140 | Harvest | Single Tree Selection | 4111 - S.Maple, Hard Mast Association | Cmpt. Review Proposal |

Prescription -cut all ash and beech, except leave 1 beech every 3-5 acres in clumps or scattered individuals

Specs:
-crop tree release remaining trees to 80 BA residual
-mark-to-cut all trees >2 in DBH growing under beech and ash
-do not mark trees to cut along side slopes greater than 35%
-require shortwood in specs for slopes and residual tree protection
-protect vernal pool with 2-3 chain buffer (already excluded)

Other -treatment purpose is for an intermediate and salvage harvest

Comments:
-qd shows stand is overstocked/high in 8-14 inch DBH class
-advertise with adjacent stands/treatments

Next -regen survey in 3-5 years

Steps: -acceptable regeneration is aspen, oak, maple, oak, basswood, ash, pine, and beech of medium to high stocking

Proposed

Start Date: 10/01/2015

| | | | | | | | | | | |
|----|------------------------|-----|------------------------------|--|--|--|--------------------------|-----------------|------------------------------|--------------------------|
| 13 | NF_54017013- NonFor | 2.0 | 310 - Herbaceous Openland | | | | Non-Forest Management | Other - Specify | 310 - Herbaceous Openland | Cmpt. Review Proposal |
|----|------------------------|-----|------------------------------|--|--|--|--------------------------|-----------------|------------------------------|--------------------------|

Prescription Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Specs:

Other

Comments:

Next Monitor for cover type and perform opening maintenance on 5-10 year rotation

Steps:

Proposed

Start Date: Unspecified

| | | | | | | | | | | |
|----|------------------------|-----|------------------------------|--|--|--|--------------------------|-----------------|------------------------------|--------------------------|
| 19 | NF_54017019- NonFor | 1.0 | 310 - Herbaceous Openland | | | | Non-Forest Management | Other - Specify | 310 - Herbaceous Openland | Cmpt. Review Proposal |
|----|------------------------|-----|------------------------------|--|--|--|--------------------------|-----------------|------------------------------|--------------------------|

Prescription Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Specs:

Other

Comments:

Next Monitor for cover type and perform opening maintenance on 5-10 year rotation

Steps:

Proposed

Start Date: Unspecified

**Total Treatment
Acreage Proposed: 197.6**

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

#Type!

#Type!

PrescriptionSpecs:OtherComment:NextSteps:ProposedStart Date: #Type!Limiting Factor

| | |
|--|------------|
| Total Treatment Acreage Proposed: | 0.0 |
|--|------------|

Report 5 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment 017
Year of Entry 2016

Availability for Management

| Total Acres | Acres | | Dominant Site Conditions | No | 5C | 5B | 3J | 2F |
|----------------|-----------|---------------|-------------------------------|-----|----|----|----|----|
| | Available | Not Available | | | | | | |
| 304 | 302 | 2 | Aspen | 302 | | | | 2 |
| 65 | 60 | 5 | Mixed Upland Deciduous | 60 | | | 5 | |
| 573 | 568 | 5 | Northern Hardwood | 565 | 1 | 2 | 5 | |
| 74 | 52 | 22 | Oak | 1 | 51 | | | 22 |
| 4 | 4 | | Red Pine | 4 | | | | |
| 1,020 | 987 | 34 | Total Forested Acres | 933 | 52 | 2 | 10 | 24 |
| | 97% | 3% | 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 | Not Available | 2F: Too steep | 13 | | | | |
| Comments: | | | | | | | |
| 003 | Not Available | 2F: Too steep | 9 | | | | |
| Comments: | | | | | | | |
| 004 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 17 | | | | |
| Comments: | | | | | | | |
| 005 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 1 | | | | |
| Comments: | | | | | | | |
| -merge with younger adjacent aspen next YOE | | | | | | | |

Report 5 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment 017
Year of Entry 2016

| | | | | |
|----------------------------------|---------------|--|----|--|
| 006 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 6 | |
| Comments: | | | | |
| 007 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 12 | |
| Comments: | | | | |
| 008 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 15 | |
| Comments: | | | | |
| 009 | Not Available | 3J: Water quality / BMPs (stream, river, or lake) | 3 | |
| Comments: -vernal pool buffer | | | | |
| 010 | Not Available | 2F: Too steep | 2 | |
| Comments: | | | | |
| 011 | Not Available | 3J: Water quality / BMPs (stream, river, or lake) | 2 | |
| Comments: | | | | |

Report 5 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment 017
Year of Entry 2016

| | | | |
|-----|-----------|--|---|
| 012 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 1 |
|-----|-----------|--|---|

Comments:

| | | | |
|-----|-----------|--|---|
| 013 | Available | 5B: Maintain for regeneration purposes | 2 |
|-----|-----------|--|---|

Comments:

| | | | |
|-----|---------------|---|---|
| 014 | Not Available | 3J: Water quality / BMPs (stream, river, or lake) | 5 |
|-----|---------------|---|---|

Comments:

-vernal pool



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 |
|---------------------------------|------------------------------|-------------|----------------|-------|
| Unspecified Comments | Spring-Seeps, Riparian Areas | Vernal Pool | SCA | 0.1 |
| Unspecified Comments | Spring-Seeps, Riparian Areas | Vernal Pool | SCA | 0.2 |
| Unspecified Comments | Spring-Seeps, Riparian Areas | Vernal Pool | SCA | 0.3 |
| Unspecified Comments | Spring-Seeps, Riparian Areas | Vernal Pool | SCA | 0.4 |

**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 | Research and Military Areas | These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands. |

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 017
Year of Entry: 2016

| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|---------------------------------------|----------------------|-------|-----------|----------|---|
| 2 | 42210 - Natural Red Pine | Medium Density Log | 1.2 | 91 | 111-140 | |
| 3 | 4133 - Aspen, Mixed Pine | High Density Pole | 8.8 | 35 | | -more wp to ne half |
| 4 | 4130 - Aspen | High Density Sapling | 92.4 | 25 | | -clearcut completed 7/8/87 -54-016-86-01 Rainy Day Sale -cut all trees except aspen, beech, and oak with green paint -past proposal volume= 54% aspen, 26% mhwd, 11% oak, 7% bsw, & 2% birch -appears that they left mostly oak and some aspen to NW 1/4 of stand |
| 5 | 4111 - S.Maple, Hard Mast Association | High Density Log | 21.5 | 87 | 81-110 | -selection cut completed 9/16/98 -54-031-96-01 Hunt Creek Rd Hwd -cut all trees with orange paint |
| 6 | 4133 - Aspen, Mixed Pine | High Density Log | 10.3 | 89 | | -transitional stand -last chance to regenerate aspen |
| 7 | 4119 - Mixed Northern Hardwoods | High Density Log | 34.1 | 92 | 111-140 | -selection cut completed 9/16/98 -54-031-96-01 Hunt Creek Rd Hwd -cut all trees with orange paint -mature oak -more oak than adjacent stand to east -higher ba in south half |
| 11 | 4111 - S.Maple, Hard Mast Association | High Density Log | 73.4 | 93 | 81-110 | -thinning completed 1/16/03 -54-014-99-01 Pop Two -cut marked trees -proposal volume= 1/3 bsw and 2/3rds mixed hwd |
| 12 | 4199 - Other Mixed Upland Deciduous | High Density Log | 38.7 | 91 | 51-80 | -shelterwood prep RX? completed 5/12/97 -54-002-96-01 manged hwd -cut all aspen and birch -proposal vol.= 91% aspen & 9% birch BA ranges from 30 to 100. |
| 14 | 4119 - Mixed Northern Hardwoods | High Density Log | 128.0 | 95 | 51-80 | -west half cut was more heavy and is heavy to ironwood -sugar maple seedlings under mostly ash and ironwood to west 1/2 -east half seems to be higher res ba -better sugar maple regen, better site to east half -thinning completed 1/16/03 -54-014-99-01 Pop Two -cut marked trees -proposal volume= 1/3 basswood and 2/3rds mixed hwd |
| 15 | 4119 - Mixed Northern Hardwoods | High Density Log | 50.0 | 81 | 111-140 | -some steep ridges -vernal pool in south end of stand |
| 16 | 4130 - Aspen | High Density Log | 13.9 | 89 | | |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|----------------------|-------|--------------|-------------|---|
| 17 | 42211 - Natural Red Pine, Mixed Deciduous | High Density Log | 3.1 | 65 | 111-140 | -might be uneven aged -various sizes in rp -steep -burnt stumps everywhere |
| 18 | 4111 - S.Maple, Hard Mast Association | High Density Pole | 14.1 | 81 | 111-140 | -some steep terrain in places, most is workable -heavier to beech to SW |
| 22 | 4130 - Aspen | High Density Sapling | 38.6 | 24 | | -clearcut complete 9/9/88 -54-006-86-01 Ridge View Sale -Units 1-3 -cut all but oak with green paint (east half) -proposal volume= 55% bta, 26% oak, 10% mhwd, 6% birch, 3% pine |
| 27 | 4123 - Red Oak | High Density Log | 29.4 | 97 | 81-110 | -most areas are too steep to harvest. Fire scarred oak. -thinned NW 1/3rd/leg of stand along level terrain |
| 28 | 4119 - Mixed Northern Hardwoods | High Density Log | 60.2 | 87 | 81-110 | -poor quality timber except for ne 1/3rd and NW where past thinning occurred -large oak and beech with mast crowns -some pockets of aspen, not quite dead yet -high to ironwood in subcanopy |
| 29 | 4123 - Red Oak | High Density Log | 22.7 | 94 | 111-140 | -most of stand is inoperable due to steep slopes |
| 30 | 4119 - Mixed Northern Hardwoods | High Density Log | 10.1 | 85 | 51-80 | -Thinning completed 1/17/01 -57-006-98-01 Pop Hardwood -cut marked trees only -treated with stand to adjacent east -proposal volume= 8% aspen, 39% mixed hwd, 53% basswood |
| 31 | 4130 - Aspen | High Density Sapling | 14.4 | 16 | | -clearcut complete 4/17/97 -54-041-96-01 Lucky 17 -cut all trees except those with green paint -proposal volume= 32% ro, 47% BTA, 21% mhwd |
| 34 | 4130 - Aspen | High Density Pole | 23.4 | 40 | | -pocket of log oak left in SE corner of stand, not significant enough to be a new stand |
| 36 | 4131 - Aspen, Oak | High Density Sapling | 35.5 | 24 | | -clearcut complete 9/9/88 -54-006-86-01 Ridge View Sale -Units 4-5 -cut all trees -proposal volume= 55% bta, 26% oak, 10% mhwd, 6% birch, 3% pine |
| 38 | 4139 - Aspen, Mixed Deciduous | High Density Pole | 12.4 | 41 | | -ironwood is significant and tall in subcanopy -good mix of species |
| 39 | 4130 - Aspen | High Density Pole | 15.4 | 40 | | |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------------|-------|--------------|-------------|--|
| 40 | 4130 - Aspen | High Density Pole | 9.7 | 41 | | |
| 41 | 4123 - Red Oak | High Density Log | 5.7 | 98 | 81-110 | -large oak, good quality -smaller nhwd mixed in -appears to have never been cut, due to terrain, rolling to steep |
| 42 | 4123 - Red Oak | High Density Log | 16.6 | 93 | 81-110 | -shelterwood cut complete 9/16/08 -54-030-06-01 rolling oak -cut all rm, aspen, and orange trees -proposal vol.= 68% aspen, 3% bsw, 29% mhwd -was RX for shelterwood but is a thinning 75-90BA |
| 43 | 4131 - Aspen, Oak | High Density Log | 5.8 | 84 | 111-140 | -long slope NE-SW, mostly 20-30% |
| 44 | 4110 - Sugar Maple Association | High Density Log | 124.7 | 94 | 81-110 | -Thinning completed 1/17/01 -57-006-98-01 Pop Hardwood -cut marked trees only -proposal volume= 8% aspen, 39% mixed hwd, 53% basswood -thick ironwood -high in small logs |
| 45 | 4199 - Other Mixed Upland Deciduous | High Density Log | 16.9 | 97 | 81-110 | -large oak helping nhwd gain more height/still developing |
| 46 | 4199 - Other Mixed Upland Deciduous | Medium Density Log | 4.6 | 91 | 1-50 | -shelterwood cut? RX complete 9/16/08 -54-030-06-01 rolling oak -cut all rm and aspen -proposal vol.= 68% aspen, 3% bsw, 29% mhwd |
| 47 | 4139 - Aspen, Mixed Deciduous | High Density Sapling | 12.4 | 5 | 1-50 | -shelterwood cut? RX complete 9/16/08 -54-030-06-01 rolling oak -cut all rm and aspen -proposal vol.= 68% aspen, 3% bsw, 29% mhwd |
| 48 | 4111 - S.Maple, Hard Mast Association | High Density Log | 35.8 | 85 | 111-140 | |
| 49 | 4111 - S.Maple, Hard Mast Association | High Density Log | 20.8 | 94 | 51-80 | -fairly poor nhwd timber quality -variable structure -good wildlife stand with many cavity trees -aspen cut to north cut a small pocket out according to sale map -ash are dead |
| 50 | 4199 - Other Mixed Upland Deciduous | High Density Sapling | 5.1 | 20 | 1-50 | -appear to have left a rd buffer, older trees -mixed composition -ironwood in canopy in places -cut in 1993 with compartment 16 |
| 53 | 4130 - Aspen | High Density Sapling | 11.2 | 25 | | -clearcut completed 11/05/87 -54-018-86-01 -cut all trees -prop. vol.= 39% aspen, 34% mhwd, 21% bsw -larger pole hard maple to west, assume was slightly unmerchatable when cut was made -fairly pure aspen stand with thick ironwood in subcanopy |



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|---------------------------|-------|--------------|---------------------------------|-------------------|
| 1 | 310 - Herbaceous Openland | 1.0 | Yes | Low | gas well |
| 8 | 310 - Herbaceous Openland | 2.3 | Yes | Low | |
| 9 | 122 - Road/Parking Lot | 1.5 | No | Unspecified | |
| 10 | 310 - Herbaceous Openland | 1.1 | Yes | Low | -gas well |
| 13 | 310 - Herbaceous Openland | 2.0 | No | Unspecified | |
| 19 | 310 - Herbaceous Openland | 1.0 | Yes | Low | |
| 20 | 310 - Herbaceous Openland | 1.0 | Yes | Low | gas well |
| 21 | 310 - Herbaceous Openland | 2.4 | No | Unspecified | |
| 23 | 122 - Road/Parking Lot | 11.0 | No | Unspecified | |
| 24 | 310 - Herbaceous Openland | 1.4 | Yes | Low | gas well |
| 25 | 310 - Herbaceous Openland | 2.1 | Yes | Low | gas well |
| 26 | 310 - Herbaceous Openland | 1.3 | Yes | Low | |
| 32 | 310 - Herbaceous Openland | 1.0 | Yes | Low | gas well |
| 33 | 310 - Herbaceous Openland | 1.0 | Yes | Low | |
| 35 | 310 - Herbaceous Openland | 1.0 | Yes | Low | |
| 37 | 310 - Herbaceous Openland | 2.1 | Yes | Low | |
| 51 | 310 - Herbaceous Openland | 1.0 | Yes | Low | |
| 52 | 122 - Road/Parking Lot | 2.3 | No | Unspecified | |