



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71183

Entry Year 2018

Acreage: 3,385

County Ogemaw

Management Area: Kirtland's Warbler

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**Revision Date:** 2016-07-26

**Stand Examiner:** Doug Bates

**Legal Description:**

T23N R01E , Sections 5-8, 18  
T24N R01E Sections 31

**Identified Planning Goals:**

To maintain species and structural diversity while managing the ecosystem for health, productivity, sustainability and recreation within the compartment. Emphasis is on maintaining a diverse age class of jack pine for Kirtland Warbler Habitat.

**Soil and topography:**

Topography is very flat sandy out washed plains. Soils are generally Grayling sands on the uplands

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

Some private property borders this compartment in many areas. 40 acres within section 6 belong to the Ogemaw county Nature park

**Unique Natural Features:**

Much of this compartment is part of the Kirtland's Warbler Management Area.

**Archeological, Historical, and Cultural Features:**

Old foundation along the snowmobile trail in section 5.

**Special Management Designations or Considerations:**

Kirtland warbler's.

**Watershed and Fisheries Considerations:**

Fairly large wetland complex in the southern portion of compartment.

**Wildlife Habitat Considerations:**

**Mineral Resource and Development Concerns and/or Restrictions**

Sections 5-8 & 18, T23N R1E and Section 31, T24N R1E, Ogemaw County  
Surface sediments consist of sand and gravel from ice-contact drift, glacial outwash, and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Michigan Formation, Marshall Sandstone, and Coldwater Shale. The Michigan is quarried for gypsum and the Marshall was previously used as a building stone elsewhere in the state. However, bedrock is too deeply buried here to be of economic value. The USGS topographic map indicates a former clay pit is located in Section 31. The nearest active sand/gravel pits are located in the NE $\frac{1}{4}$  NE $\frac{1}{4}$  of Section 36 (T24N R1W) and around St. Helen to the southwest. Much of the compartment is low-lying. Sand and gravel potential appears to be moderate within the compartment. The St. Helen and Rose City fields are located within two to four miles to the northwest and northeast, respectively. The fields have produced oil and gas primarily from the Devonian Detroit River Group. The compartment is currently partially leased for oil and gas exploration and development.

**Vehicle Access:**

Very good to most areas of compartment.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

The county roads are heavily used year round. Snowmobile trail 6/9 occurs in this compartment. Assure logging ahead signs are placed on the trail to notify users of logging activity. Focus retention pockets in clusters along or near trail. Flush cut stumps adjacent to snowmobile trail. Hunters utilize the compartment for deer, rabbit, and other game species.

**Fire Protection:**

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

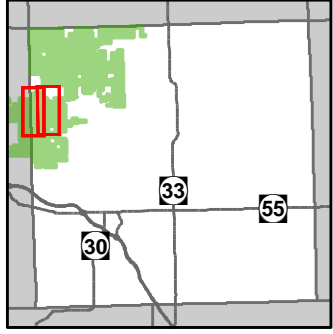
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

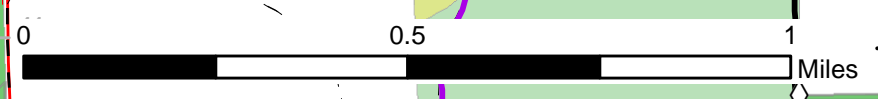
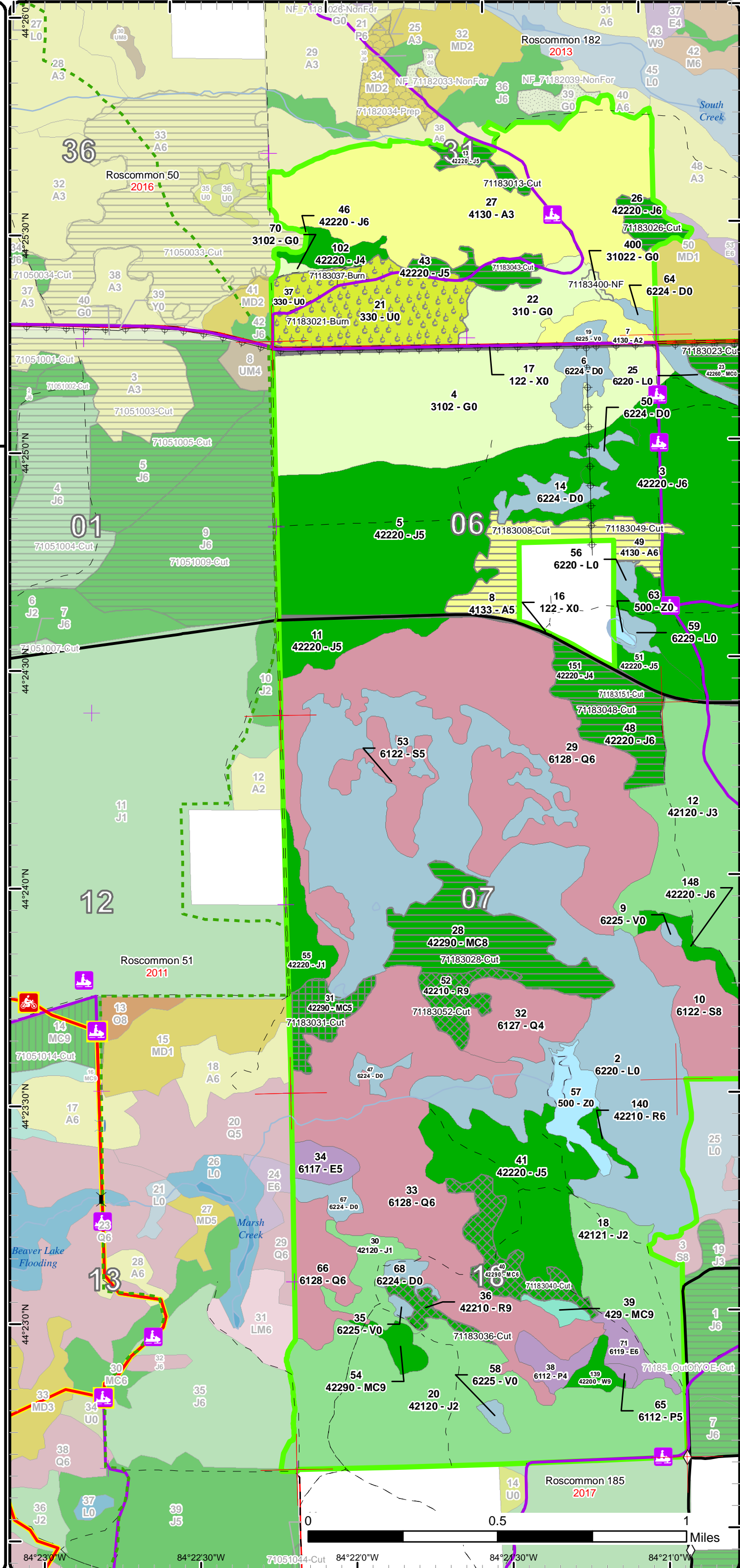
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatment Map

Compartment: 183  
 T24N,R01W, Sec.27, 34  
 County: Ogemaw  
 Unit: Roscommon  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2018  
 Acres: 3385 GIS Calculated  
 Examiner: Doug Bates  
 Map Revised: 2/9/2017  
 Map Phase: Post-Review



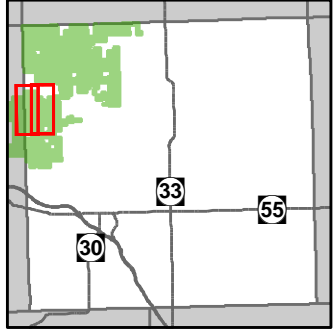
- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- Bridges
- Culverts
- MCCCT Trails
- ORV Trails
- Snowmobile Trails
- Designated Hiking Trails
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- Paved Roads
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- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
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- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Opening Maintenance
- Seed Tree (w/Reserves)
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes



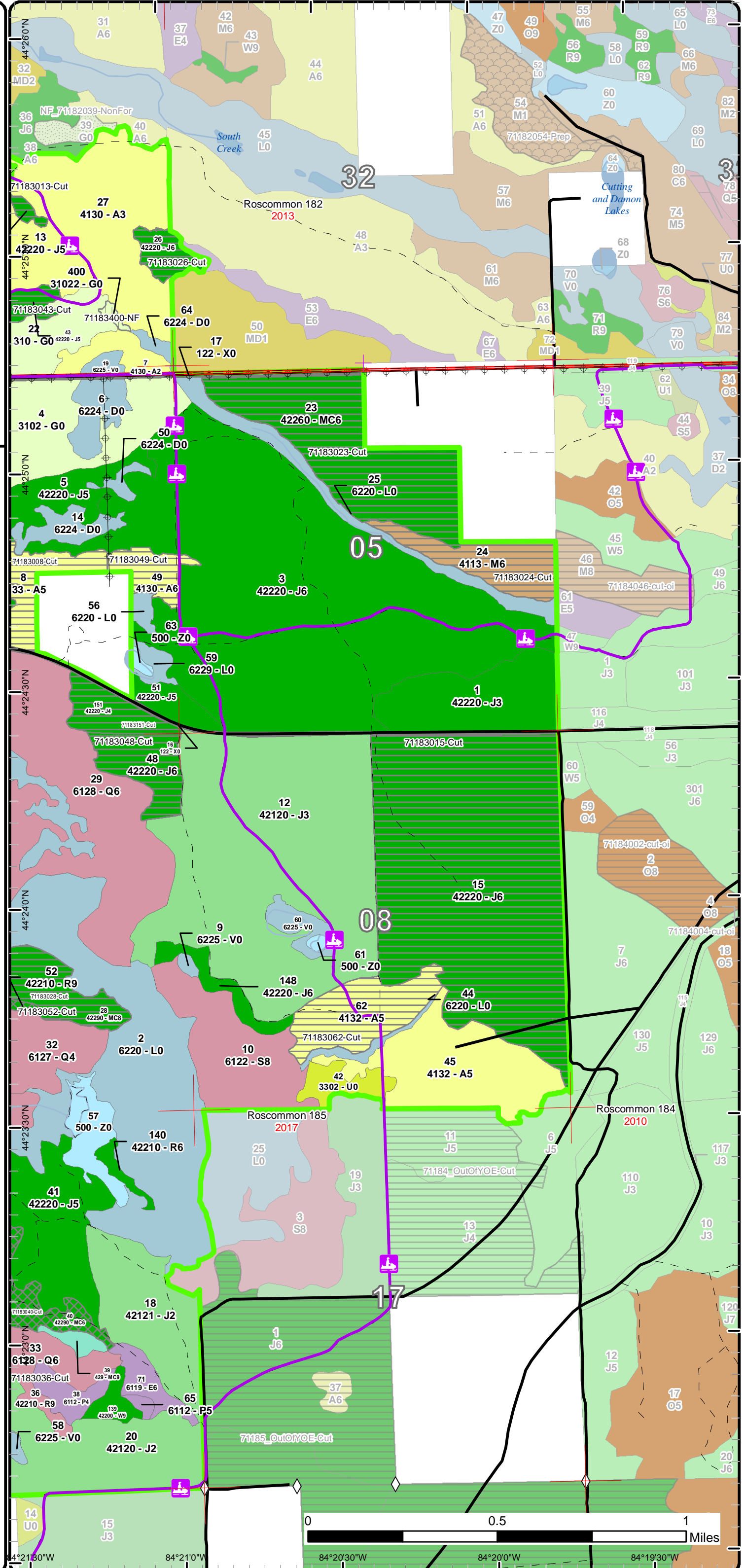
84°23'0"W 84°22'30"W 84°22'0"W 84°21'30"W 84°21'0"W

# Cover Type & Treatment Map

Compartment: 183  
 T24N,R01E, Sec.31  
 T23N,R01E, Sec.05-08, 17-18  
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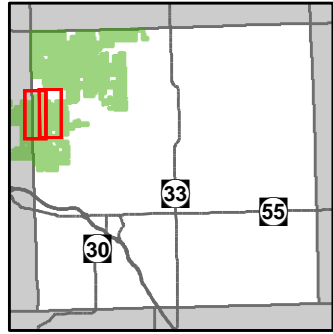
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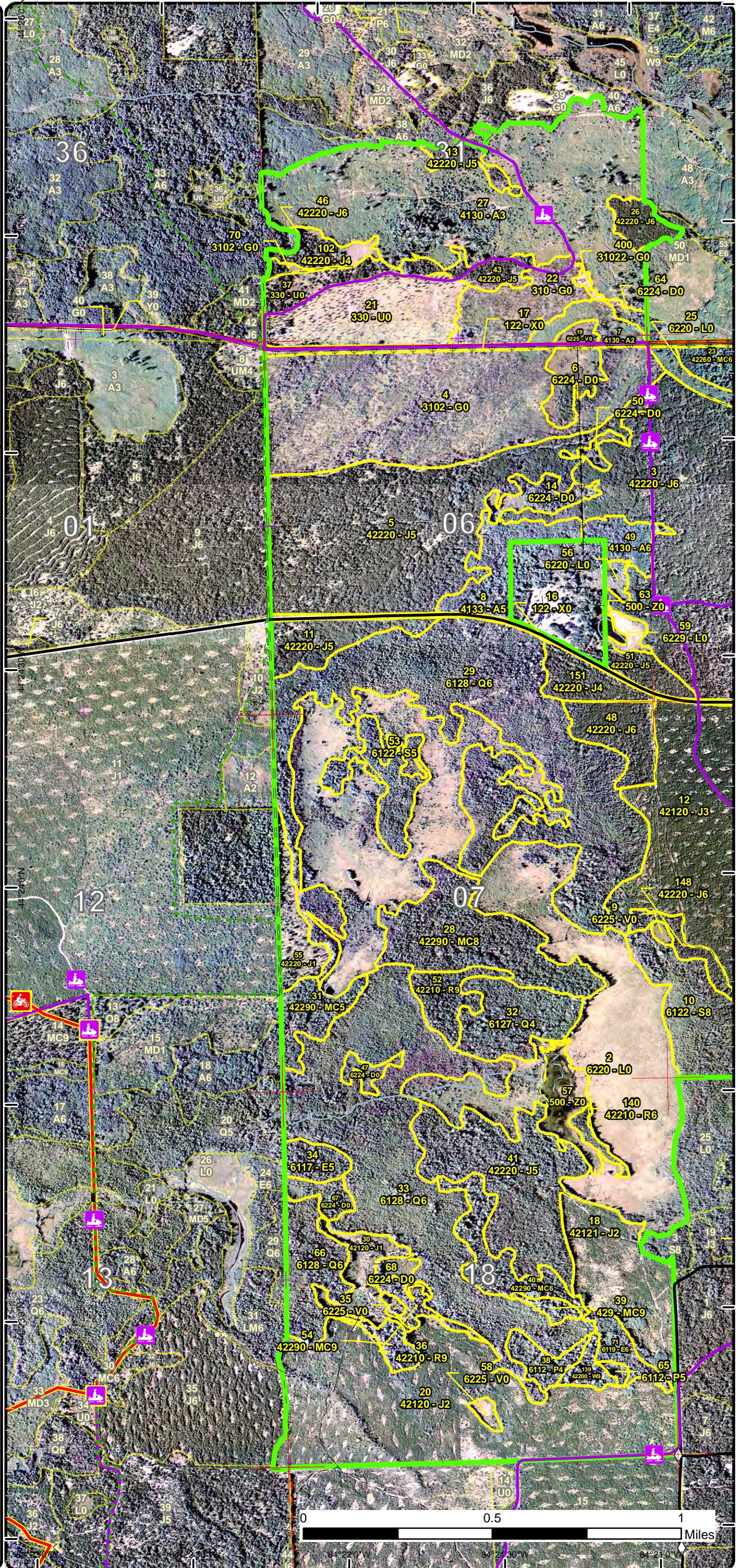
44°26'0"N 84°21'0"W 84°20'30"W 84°20'0"W 84°19'30"W

# Stand Boundary Map

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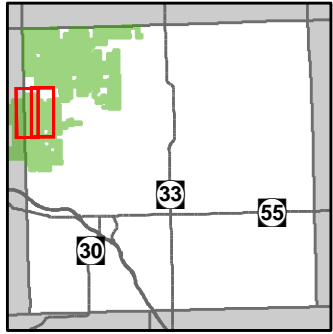


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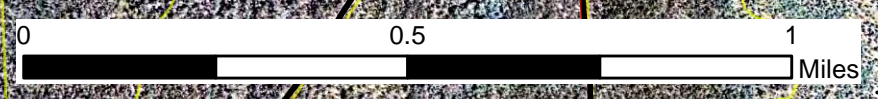
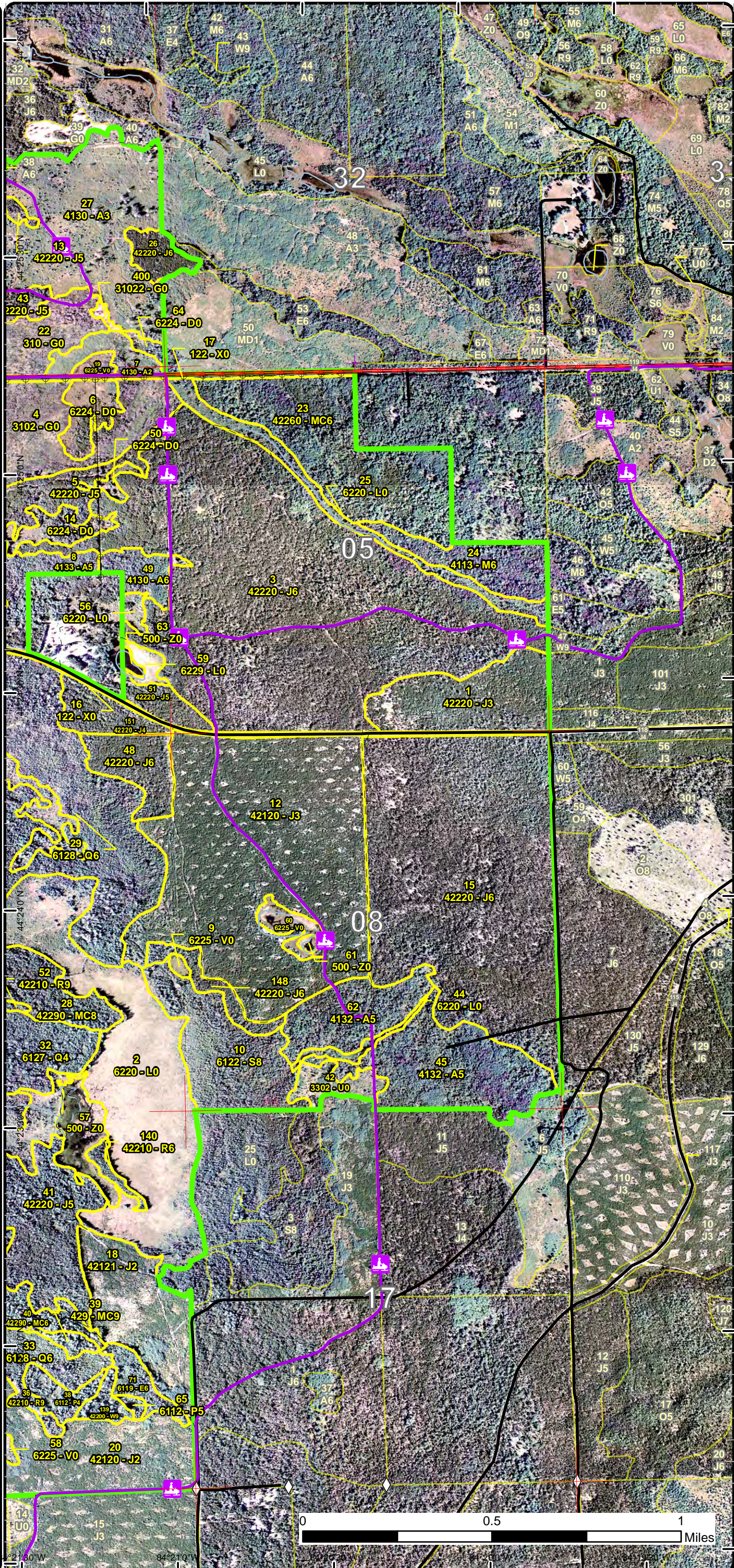


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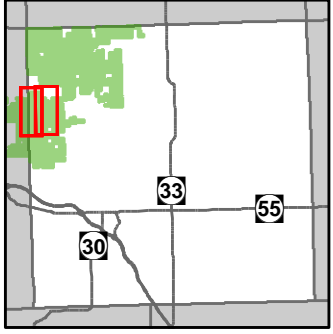


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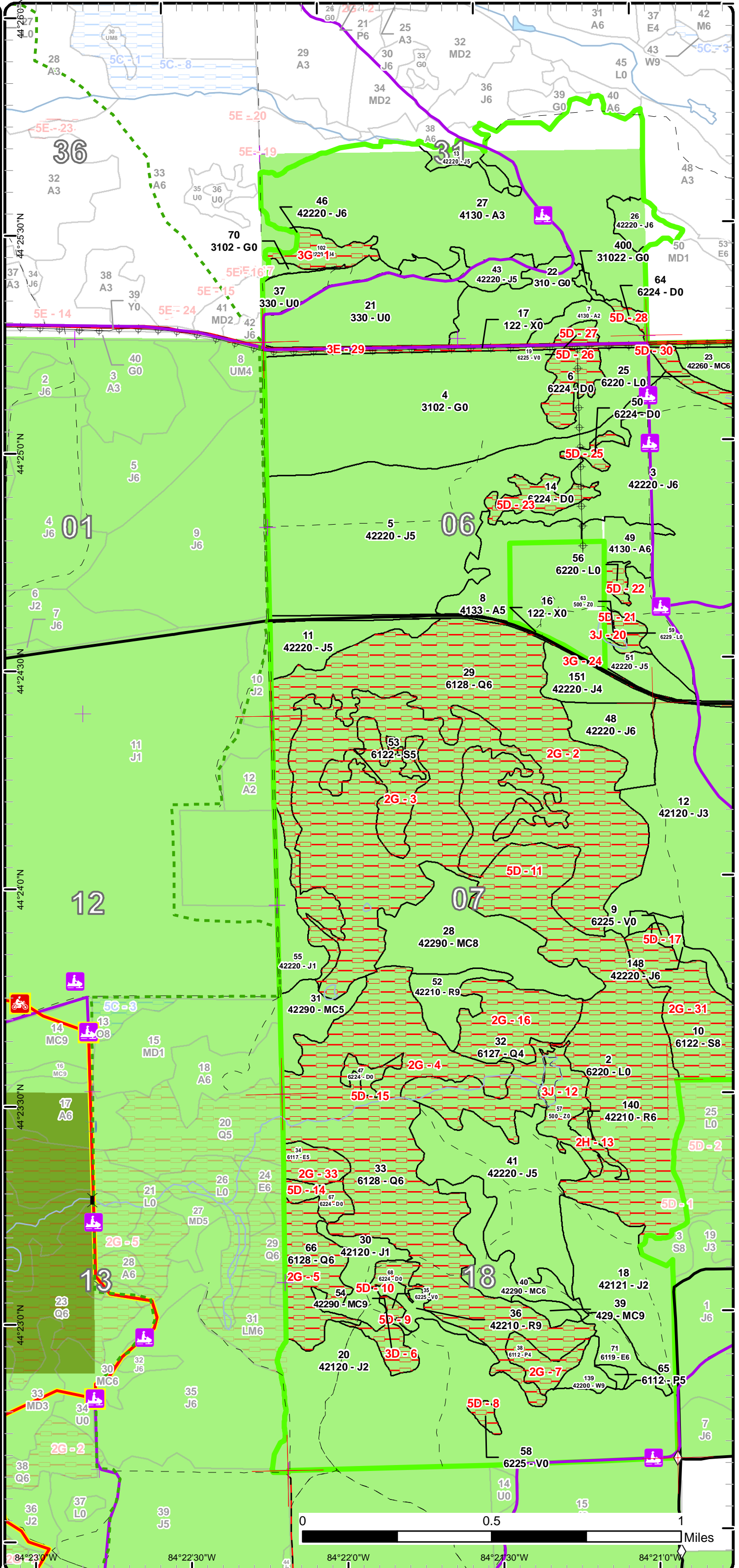


# Special Conservation Areas & Site Conditions Map

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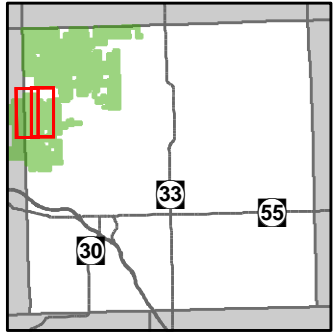


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- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas

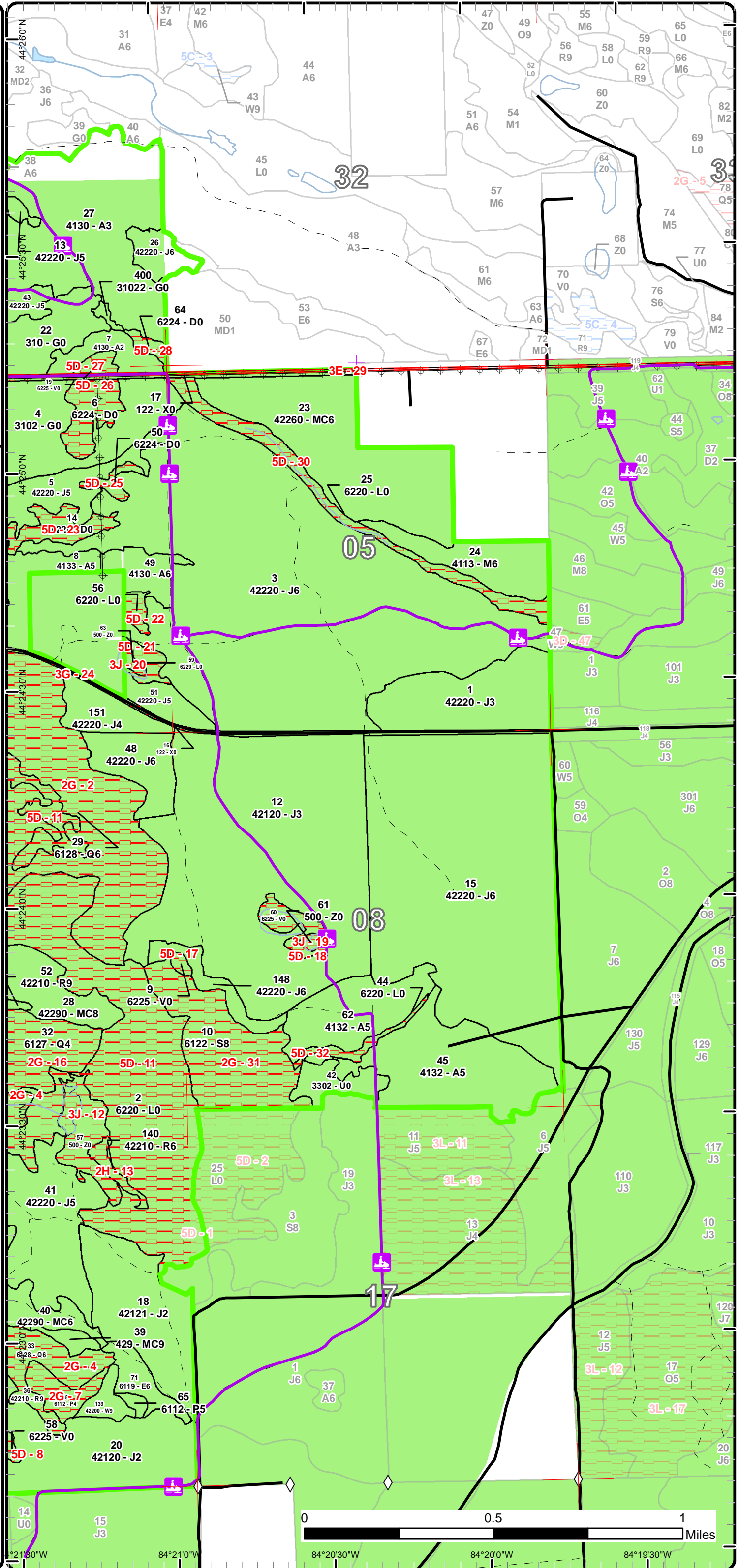


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

|                             | Non-Forest | 0-9        | 10-19      | 20-29      | 30-39     | 40-49     | 50-59       | 60-69     | 70-79     | 80-89     | 90-99      | 100-109    | 110-119  | 120-129  | 130-139  | 140-149  | 150+     | Uneven-Aged | Total       |
|-----------------------------|------------|------------|------------|------------|-----------|-----------|-------------|-----------|-----------|-----------|------------|------------|----------|----------|----------|----------|----------|-------------|-------------|
| Aspen                       | 0          | 207        | 0          | 0          | 0         | 0         | 137         | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 344         |
| Bog                         | 18         | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 18          |
| Herbaceous Openland         | 196        | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 196         |
| Jack Pine                   | 0          | 18         | 252        | 274        | 49        | 0         | 866         | 22        | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 1481        |
| Low-Density Trees           | 77         | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 77          |
| Lowland Aspen/Balsam Poplar | 0          | 0          | 0          | 0          | 0         | 0         | 12          | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 12          |
| Lowland Conifers            | 0          | 0          | 0          | 0          | 0         | 33        | 0           | 0         | 0         | 0         | 239        | 174        | 0        | 0        | 0        | 0        | 0        | 0           | 446         |
| Lowland Deciduous           | 0          | 0          | 0          | 0          | 0         | 0         | 11          | 0         | 10        | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 20          |
| Lowland Shrub               | 353        | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 353         |
| Lowland Spruce/Fir          | 0          | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 53        | 25         | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 78          |
| Natural Mixed Pines         | 0          | 0          | 0          | 0          | 0         | 0         | 88          | 77        | 0         | 24        | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 7           | 196         |
| Northern Hardwood           | 0          | 0          | 0          | 0          | 0         | 0         | 28          | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 28          |
| Red Pine                    | 0          | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 7         | 20        | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 27          |
| Treed Bog                   | 49         | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 49          |
| Upland Conifers             | 0          | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 4          | 0        | 0        | 0        | 0        | 0        | 0           | 4           |
| Urban                       | 29         | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 29          |
| Water                       | 20         | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 0           | 20          |
| White Pine                  | 0          | 0          | 0          | 0          | 0         | 0         | 0           | 0         | 0         | 0         | 0          | 0          | 0        | 0        | 0        | 0        | 0        | 7           | 6           |
| <b>Total</b>                | <b>742</b> | <b>225</b> | <b>252</b> | <b>274</b> | <b>49</b> | <b>33</b> | <b>1142</b> | <b>99</b> | <b>17</b> | <b>97</b> | <b>264</b> | <b>178</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>14</b>   | <b>3384</b> |



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2018

Acres of Harvest

Compartment 183  
Total Compartment Acres: 3,385

Commercial Harvest - 623  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

|                     | Clearcut   | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage  | Other    | Total Acres |
|---------------------|------------|-----------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Aspen               | 72         | 0         | 0              | 0         | 0           | 0        | 0                 | 0        | 0        | 72          |
| Jack Pine           | 310        | 0         | 0              | 0         | 0           | 0        | 0                 | 0        | 0        | 310         |
| Natural Mixed Pines | 149        | 24        | 0              | 17        | 0           | 0        | 0                 | 0        | 0        | 190         |
| Northern Hardwood   | 28         | 0         | 0              | 0         | 0           | 0        | 0                 | 0        | 0        | 28          |
| Red Pine            | 0          | 23        | 0              | 0         | 0           | 0        | 0                 | 0        | 0        | 23          |
| <b>Total</b>        | <b>558</b> | <b>47</b> | <b>0</b>       | <b>17</b> | <b>0</b>    | <b>0</b> | <b>0</b>          | <b>0</b> | <b>0</b> | <b>623</b>  |

### Proposed and Next Step Treatments by Method

|              | Harvest    | Site Prep  | Planting   | Seeding  | Burning    | Pesticide | Monitoring | Other    | Non-Forest Mgt. | Total Acres |
|--------------|------------|------------|------------|----------|------------|-----------|------------|----------|-----------------|-------------|
| Current      | 623        | 0          | 0          | 0        | 66         | 0         | 0          | 0        | 1               | 690         |
| Next Step    | 0          | 344        | 279        | 0        | 66         | 0         | 967        | 0        | 1               | 1657        |
| <b>Total</b> | <b>623</b> | <b>344</b> | <b>279</b> | <b>0</b> | <b>131</b> | <b>0</b>  | <b>967</b> | <b>0</b> | <b>3</b>        | <b>2346</b> |



| S<br>t<br>a<br>n<br>d | Treatment<br>Name | Acres | Stand<br>CoverType          | Size<br>Density      | Stand<br>Age | BA<br>Range     | Treatment<br>Type | Treatment<br>Method        | Cover Type<br>Objective | Age<br>Structure | Approval<br>Status      |
|-----------------------|-------------------|-------|-----------------------------|----------------------|--------------|-----------------|-------------------|----------------------------|-------------------------|------------------|-------------------------|
| 8                     | 71183008-Cut      | 24.9  | 4133 - Aspen,<br>Mixed Pine | Poletimber<br>Medium | 52           | Unspec<br>ified | Harvest           | Clearcut with<br>Retention | 413 - Aspen             | Even-Aged        | Draft Field<br>Boundary |

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to two inch except the red pine. Red pine mark down to 100 BA. Put some small retention pockets around wet  
Specs: depressions. Put in drumming log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable aspen  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

|    |              |     |                              |                      |    |      |         |          |                             |           |                         |
|----|--------------|-----|------------------------------|----------------------|----|------|---------|----------|-----------------------------|-----------|-------------------------|
| 13 | 71183013-Cut | 7.8 | 42220 - Natural<br>Jack Pine | Poletimber<br>Medium | 52 | 1-50 | Harvest | Clearcut | 4222 - Natural<br>Jack Pine | Even-Aged | Draft Field<br>Boundary |
|----|--------------|-----|------------------------------|----------------------|----|------|---------|----------|-----------------------------|-----------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to two inches except oak. Harvest this to 4 inches. Small irregular shape so recommend no retention. Access is via a  
Specs: seasonal county road used as a snowmobile trail. Place protection specs. in contract in case producer wishes to treat during the winter months.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable jack pine mixed with aspen and oak.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

|    |              |       |                              |                    |    |       |         |          |                             |           |                         |
|----|--------------|-------|------------------------------|--------------------|----|-------|---------|----------|-----------------------------|-----------|-------------------------|
| 15 | 71183015-Cut | 240.0 | 42220 - Natural<br>Jack Pine | Poletimber<br>Well | 52 | 51-80 | Harvest | Clearcut | 4212 - Planted<br>Jack Pine | Even-Aged | Draft Field<br>Boundary |
|----|--------------|-------|------------------------------|--------------------|----|-------|---------|----------|-----------------------------|-----------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to 2 inches except red pine. Leave all super-canopy red pine. Place retention as "fire whirls" within stand between 5-10  
Specs: percent. Chip all slash.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable KW plantation  
Regen:

Other Using KW guidelines, trench site in 2024 and plant in spring 2025.  
Comment:

Proposed Start Date: 10/01/2021

|    |                   |      |                            |            |   |              |      |       |                             |           |                         |
|----|-------------------|------|----------------------------|------------|---|--------------|------|-------|-----------------------------|-----------|-------------------------|
| 21 | 71183021-<br>Burn | 51.9 | 330 - Low-Density<br>Trees | Nonstocked | 7 | Immatu<br>re | Burn | Other | 42210 - Natural<br>Red Pine | Even-Aged | Draft Field<br>Boundary |
|----|-------------------|------|----------------------------|------------|---|--------------|------|-------|-----------------------------|-----------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Control burn to maintain a red pine barrens.  
Specs:

Next Step SitePrep, Other - Specify; Burn, Other; Monitoring, Other - Specify  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017



| Stand | Treatment Name | Acres | Stand CoverType                       | Size Density    | Stand Age | BA Range | Treatment Type | Treatment Method        | Cover Type Objective    | Age Structure | Approval Status      |
|-------|----------------|-------|---------------------------------------|-----------------|-----------|----------|----------------|-------------------------|-------------------------|---------------|----------------------|
| 23    | 71183023-Cut   | 88.3  | 42260 - Natural Pine, Mixed Deciduous | Poletimber Well | 53        | 1-50     | Harvest        | Clearcut with Retention | 4132 - Aspen, Jack Pine | Even-Aged     | Draft Field Boundary |

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to 2 inches except red pine. Mark 20-30 basal area of red pine to leave for visual. Place a 3-5 percent retention island around some of the shallow drain in the center of the stand. Harvest in dormancy time to stimulate aspen and protect sensitive soils.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable jack pine with a mix of aspen, maple, and white pine.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

|    |              |      |                         |                 |    |        |         |                         |                         |           |                      |
|----|--------------|------|-------------------------|-----------------|----|--------|---------|-------------------------|-------------------------|-----------|----------------------|
| 24 | 71183024-Cut | 27.6 | 4113 - R.Maple, Conifer | Poletimber Well | 55 | 81-110 | Harvest | Clearcut with Retention | 4113 - R.Maple, Conifer | Even-Aged | Draft Field Boundary |
|----|--------------|------|-------------------------|-----------------|----|--------|---------|-------------------------|-------------------------|-----------|----------------------|

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species too two inches. Mark a handful of large white pine for visual. Leave a 3-5% retention island in middle of stand or maybe along border with stand 46 to east to alleviate green-up issues. Cut during dry and/or frozen conditions to protect sensitive soils.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable maple and mixed pine to full stocking  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

|    |              |      |                           |                 |    |             |         |                         |                          |           |                      |
|----|--------------|------|---------------------------|-----------------|----|-------------|---------|-------------------------|--------------------------|-----------|----------------------|
| 26 | 71183026-Cut | 10.4 | 42220 - Natural Jack Pine | Poletimber Well | 62 | Unspecified | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | Draft Field Boundary |
|----|--------------|------|---------------------------|-----------------|----|-------------|---------|-------------------------|--------------------------|-----------|----------------------|

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to two inches. Place retention around some of the small wet swales within the stand. Proposed route from road to stand will be via an old skid trail thru stand 27 to the west. Access is via a seasonal county road used as a snowmobile trail. Place protection specs. in contract in case producer wishes to treat during the winter months.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable jack pine with mixed deciduous.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

|    |              |      |                            |                  |    |        |         |                         |  |           |                      |
|----|--------------|------|----------------------------|------------------|----|--------|---------|-------------------------|--|-----------|----------------------|
| 28 | 71183028-Cut | 60.4 | 42290 - Natural Mixed Pine | Sawtimber Medium | 69 | 81-110 | Harvest | Clearcut with Retention | 42221 - Natural Jack Pine, Mixed Deciduous | Even-Aged | Draft Field Boundary |
|----|--------------|------|----------------------------|------------------|----|--------|---------|-------------------------|--|-----------|----------------------|

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to two inches but the oak, those to 5 inch. Do not chip and spread the slash around to try and promote some natural seeding. A couple bogs in the stand's interior that need to be buffered and use this as the retention.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of pine and oak.  
Regen:

Other Will need to place a temporary culvert for the stream in Stand 31 and need so crane mats to cross a wet corner in Stand 33. Stand 28 is high ground.  
Comment:

Proposed Start Date: 10/01/2017



| S<br>t<br>a<br>n<br>d | Treatment<br>Name | Acres | Stand<br>CoverType            | Size<br>Density      | Stand<br>Age | BA<br>Range | Treatment<br>Type | Treatment<br>Method         | Cover Type<br>Objective | Age<br>Structure | Approval<br>Status      |
|-----------------------|-------------------|-------|-------------------------------|----------------------|--------------|-------------|-------------------|-----------------------------|-------------------------|------------------|-------------------------|
| 31                    | 71183031-Cut      | 17.4  | 42290 - Natural<br>Mixed Pine | Poletimber<br>Medium | 61           | 111-<br>140 | Harvest           | Seed Tree with<br>Retention | 4122 - Oak, Pine        | Two-Aged         | Draft Field<br>Boundary |

**Habitat Cut: No****Site Condition:**

Prescription Mark to cut large mature oaks. Leave those that will cause to much damage to regeneration removing. Mark to remove sawlog sized red pine  
Specs: leaving 40 basal area of saw size for shelterwood. If going to harvest Stands 28 and 52 to the east, will need to build at least a skid route through this stand to access the others. If so mark the trees to remove for the proposed haul route. Place retention around drain coming out of stand 2.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixture of pine and oak

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

|    |              |     |                             |                   |    |             |         |                          |                            |                 |                         |
|----|--------------|-----|-----------------------------|-------------------|----|-------------|---------|--------------------------|----------------------------|-----------------|-------------------------|
| 36 | 71183036-Cut | 7.2 | 42210 - Natural<br>Red Pine | Sawtimber<br>Well | 76 | 171-<br>200 | Harvest | Single Tree<br>Selection | 4221 - Natural<br>Red Pine | Uneven-<br>Aged | Draft Field<br>Boundary |
|----|--------------|-----|-----------------------------|-------------------|----|-------------|---------|--------------------------|----------------------------|-----------------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Thin stand from 90-110 basal area favoring the red pine. Remove the other species and favor best tree in place of all size classes. Leave the  
Specs: super-canopy red pines

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable red pine with mixed deciduous.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

|    |                   |      |                            |            |    |                 |      |       |                             |           |                         |
|----|-------------------|------|----------------------------|------------|----|-----------------|------|-------|-----------------------------|-----------|-------------------------|
| 37 | 71183037-<br>Burn | 13.6 | 330 - Low-Density<br>Trees | Nonstocked | 53 | Unspec<br>ified | Burn | Other | 4222 - Natural<br>Jack Pine | Even-Aged | Draft Field<br>Boundary |
|----|-------------------|------|----------------------------|------------|----|-----------------|------|-------|-----------------------------|-----------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Controlled burn to create a jack pine barrens.

Specs:

Next Step Burn, Other; Monitoring, Other - Specify; SitePrep, Other - Specify

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

|    |              |      |                               |                    |    |             |         |                 |                            |                 |                         |
|----|--------------|------|-------------------------------|--------------------|----|-------------|---------|-----------------|----------------------------|-----------------|-------------------------|
| 40 | 71183040-Cut | 24.2 | 42290 - Natural<br>Mixed Pine | Poletimber<br>Well | 81 | 141-<br>170 | Harvest | Group Selection | 4221 - Natural<br>Red Pine | Uneven-<br>Aged | Draft Field<br>Boundary |
|----|--------------|------|-------------------------------|--------------------|----|-------------|---------|-----------------|----------------------------|-----------------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Do a thinning reducing the basal area down to 70-90 by managing best trees in place. Leave larger super-canopy pines for diversity. Will need  
Specs: to be roundwood and still will get some damages to understory. Will come back. No retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable pine/mixed hardwoods.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



| S<br>t<br>a<br>n<br>d | Treatment<br>Name | Acres | Stand<br>CoverType           | Size<br>Density      | Stand<br>Age | BA<br>Range | Treatment<br>Type | Treatment<br>Method | Cover Type<br>Objective     | Age<br>Structure | Approval<br>Status      |
|-----------------------|-------------------|-------|------------------------------|----------------------|--------------|-------------|-------------------|---------------------|-----------------------------|------------------|-------------------------|
| 43                    | 71183043-Cut      | 12.8  | 42220 - Natural<br>Jack Pine | Poletimber<br>Medium | 53           | 51-80       | Harvest           | Clearcut            | 4222 - Natural<br>Jack Pine | Even-Aged        | Draft Field<br>Boundary |

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to two inches except the red pine. Third row thin the small red pine plantation pocket. Will in the future one day lump this into the red pine barrens to the south. The sale is small irregular shaped it is recommended not to leave retention. Access is via a seasonal county road used as a snowmobile trail. Place protection specs. in contract in case producer wishes to treat during the winter months.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable jack pine and aspen.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

|    |              |      |                              |                    |    |                 |         |          |                             |           |                         |
|----|--------------|------|------------------------------|--------------------|----|-----------------|---------|----------|-----------------------------|-----------|-------------------------|
| 48 | 71183048-Cut | 22.6 | 42220 - Natural<br>Jack Pine | Poletimber<br>Well | 52 | Unspec<br>ified | Harvest | Clearcut | 4212 - Planted<br>Jack Pine | Even-Aged | Draft Field<br>Boundary |
|----|--------------|------|------------------------------|--------------------|----|-----------------|---------|----------|-----------------------------|-----------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to 2 inches. Do not cut any super-canopy red pine. Chip slash and no retention.  
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable KW plantation  
Regen:

Other Trench site in 2024 and plant with jack pine in spring 2025. Do per KW guidelines.  
Comment:

Proposed Start Date: 10/01/2021

|    |              |      |              |                    |    |                 |         |                            |             |           |                         |
|----|--------------|------|--------------|--------------------|----|-----------------|---------|----------------------------|-------------|-----------|-------------------------|
| 49 | 71183049-Cut | 12.7 | 4130 - Aspen | Poletimber<br>Well | 57 | Unspec<br>ified | Harvest | Clearcut with<br>Retention | 413 - Aspen | Even-Aged | Draft Field<br>Boundary |
|----|--------------|------|--------------|--------------------|----|-----------------|---------|----------------------------|-------------|-----------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to two inches. Place a 3% retention island in middle. Cut during dormancy to stimulate regen. Will need to be done prior to December 1 because only access is snowmobile trail. Put in drumming log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable aspen with other mixed deciduous.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

|    |              |      |                             |                   |    |             |         |                          |                            |                 |                         |
|----|--------------|------|-----------------------------|-------------------|----|-------------|---------|--------------------------|----------------------------|-----------------|-------------------------|
| 52 | 71183052-Cut | 15.8 | 42210 - Natural<br>Red Pine | Sawtimber<br>Well | 87 | 171-<br>200 | Harvest | Single Tree<br>Selection | 4211 - Planted<br>Red Pine | Uneven-<br>Aged | Draft Field<br>Boundary |
|----|--------------|------|-----------------------------|-------------------|----|-------------|---------|--------------------------|----------------------------|-----------------|-------------------------|

**Habitat Cut: No****Site Condition:**

Prescription Mark to remove red and white pine to have a basal area fall between 90 and 110. Leave the super-canopy pines for legacy trees and manage the log/pole sizes for best tree in place. Remove all other species to a four inch d.b.h..

Next Step ; Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable red pine mixed with white pine and red maple.  
Regen:

Other Need to come through stand 28 for access.  
Comment:

Proposed Start Date: 10/01/2017

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d

| Treatment Name  | Acres | Stand CoverType         | Size Density      | Stand Age | BA Range    | Treatment Type | Treatment Method        | Cover Type Objective     | Age Structure | Approval Status      |
|-----------------|-------|-------------------------|-------------------|-----------|-------------|----------------|-------------------------|--------------------------|---------------|----------------------|
| 62 71183062-Cut | 34.7  | 4132 - Aspen, Jack Pine | Poletimber Medium | 52        | Unspecified | Harvest        | Clearcut with Retention | 4133 - Aspen, Mixed Pine | Even-Aged     | Draft Field Boundary |

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to two inches. Leave all white oak, if any, and cut during dormancy to stimulate coppice regeneration. Place retention islands around any wet depressions within stand, west end. Mark a handful of large red pine for diversity/visual. Portion of snowmobile trail in stand. May need to seek alternate haul route if trail snow covered. Place in a drumming log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with mix pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

|                  |      |                           |                 |    |      |         |          |                          |           |                      |
|------------------|------|---------------------------|-----------------|----|------|---------|----------|--------------------------|-----------|----------------------|
| 151 71183151-Cut | 16.0 | 42220 - Natural Jack Pine | Poletimber Poor | 36 | 1-50 | Harvest | Clearcut | 4212 - Planted Jack Pine | Even-Aged | Draft Field Boundary |
|------------------|------|---------------------------|-----------------|----|------|---------|----------|--------------------------|-----------|----------------------|

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all species to 2 inches. Chip site, no retention.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable KW plantation.

Regen:

Other

Trench site in 2024 and to be planted to KW specifications in spring 2025

Comment:

Proposed Start Date: 10/01/2021

|                 |     |                           |            |  |             |              |                                |                           |  |                      |
|-----------------|-----|---------------------------|------------|--|-------------|--------------|--------------------------------|---------------------------|--|----------------------|
| 400 71183400-NF | 1.4 | 31022 - Warm Season Grass | Nonstocked |  | Unspecified | NonForestMgt | Herbaceous/Crop/Grass Planting | 310 - Herbaceous Openland |  | Draft Field Boundary |
|-----------------|-----|---------------------------|------------|--|-------------|--------------|--------------------------------|---------------------------|--|----------------------|

**Habitat Cut: No****Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Ogemaw Field 6.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment  
Acreage Proposed: 689.7**

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 183

Year of Entry: 2018

### Availability for Management

| Total<br>Acres | Acres<br>Available | Acres Avail    |               | Dominant Site Conditions    | Dominant Site Conditions |    |    |    |    |    |    |     |
|----------------|--------------------|----------------|---------------|-----------------------------|--------------------------|----|----|----|----|----|----|-----|
|                |                    | With Condition | Not Available |                             | 2G                       | 2H | 3D | 3E | 3G | 3J | 5D |     |
| 344            | 344                | 0              | 0             | Aspen                       |                          |    |    |    |    |    |    |     |
| 18             | 0                  | 0              | 18            | Bog                         |                          |    |    |    |    |    |    | 18  |
| 196            | 196                | 0              | 0             | Herbaceous Openland         |                          |    |    |    |    |    |    |     |
| 1481           | 1468               | 0              | 13            | Jack Pine                   | 1                        |    |    |    |    | 12 |    |     |
| 77             | 77                 | 0              | 0             | Low-Density Trees           |                          |    |    |    |    |    |    |     |
| 12             | 2                  | 0              | 10            | Lowland Aspen/Balsam Poplar | 10                       |    |    |    |    |    |    |     |
| 446            | 0                  | 0              | 446           | Lowland Conifers            | 446                      |    |    |    |    |    |    |     |
| 20             | 11                 | 0              | 10            | Lowland Deciduous           | 10                       |    |    |    |    |    |    |     |
| 353            | 0                  | 0              | 353           | Lowland Shrub               |                          |    |    |    |    |    |    | 353 |
| 78             | 0                  | 0              | 78            | Lowland Spruce/Fir          | 78                       |    |    |    |    |    |    |     |
| 198            | 190                | 0              | 7             | Natural Mixed Pines         |                          |    | 7  |    |    |    |    |     |
| 28             | 28                 | 0              | 0             | Northern Hardwood           |                          |    |    |    |    |    |    |     |
| 27             | 23                 | 0              | 4             | Red Pine                    |                          | 4  |    |    |    |    |    |     |
| 49             | 0                  | 0              | 49            | Treed Bog                   |                          |    |    |    |    |    |    | 49  |
| 4              | 4                  | 0              | 0             | Upland Conifers             |                          |    |    |    |    |    |    |     |
| 29             | 0                  | 0              | 29            | Urban                       |                          |    |    | 14 | 15 |    |    |     |
| 20             | 0                  | 0              | 20            | Water                       |                          |    |    |    |    |    | 20 |     |
| 6              | 6                  | 0              | 0             | White Pine                  |                          |    |    |    |    |    |    |     |
| 3,385          | 2,349              |                | 1,037         | Total Forested Acres        | 545                      | 4  | 7  | 14 | 26 | 20 |    | 420 |
|                | 69%                |                | 31%           | 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 |
|---|---------------------------------|--|-------|----------------------|----------------------|----------------------|----------------------|
| 1   | Unavailable                     | 3G: Other Influence zones - See comments | 12    | Unspecified          | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b>  |                                 |  |       |                      |                      |                      |                      |
| Is an old borrow pit for clay. The area devoid of cover was being damaged by illegal ORV /mudder truck use so had to be covered in tree tops to stop the abuse. Need to keep the forest cover on remaining portions, otherwise will get same abuse. |                                 |  |       |                      |                      |                      |                      |



## Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 183

Year of Entry: 2018

|                  |             |   |     |  |             |             |             |
|------------------|-------------|---|-----|--|-------------|-------------|-------------|
| 2                | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 209 | Unspecified  | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |     |  |             |             |             |
| 3                | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 25  | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |     |  |             |             |             |
| 4                | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 174 | 3A: Potential old growth / biodiversity                                | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |     |  |             |             |             |
| 5                | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 31  | Unspecified  | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |     |  |             |             |             |
| 6                | Unavailable | 3D: Recreational / Scenic values                              | 7   | Unspecified  | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |     |  |             |             |             |
| 7                | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 10  | Unspecified  | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |     |  |             |             |             |

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 183

Year of Entry: 2018

|           |             |  |     |             |             |             |             |
|-----------|-------------|--|-----|-------------|-------------|-------------|-------------|
| 8         | Unavailable | 5D: Unproductive Forest Land   | 3   | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: |             |  |     |             |             |             |             |
| 9         | Unavailable | 5D: Unproductive Forest Land   | 2   | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: |             |  |     |             |             |             |             |
| 10        | Unavailable | 5D: Unproductive Forest Land   | 5   | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: |             |  |     |             |             |             |             |
| 11        | Unavailable | 5D: Unproductive Forest Land   | 310 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: |             |  |     |             |             |             |             |
| 12        | Unavailable | 3J: Water quality / BMPs (stream, river, or lake)                      | 17  | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: |             |  |     |             |             |             |             |
| 13        | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 4   | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: |             |  |     |             |             |             |             |

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 183

Year of Entry: 2018

|                  |             |   |    |             |             |             |             |
|------------------|-------------|---|----|-------------|-------------|-------------|-------------|
| 14               | Unavailable | 5D: Unproductive Forest Land                                  | 8  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |    |             |             |             |             |
| 15               | Unavailable | 5D: Unproductive Forest Land                                  | 5  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |    |             |             |             |             |
| 16               | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 33 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |    |             |             |             |             |
| 17               | Unavailable | 5D: Unproductive Forest Land                                  | 2  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |    |             |             |             |             |
| 18               | Unavailable | 5D: Unproductive Forest Land                                  | 9  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |    |             |             |             |             |
| 19               | Unavailable | 3J: Water quality / BMPs (stream, river, or lake)             | 1  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |   |    |             |             |             |             |

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 183

Year of Entry: 2018

|   |             |  |    |             |             |             |             |
|---|-------------|--|----|-------------|-------------|-------------|-------------|
| 20  | Unavailable | 3J: Water quality / BMPs<br>(stream, river, or lake) | 2  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>                                  |             |  |    |             |             |             |             |
| 21  | Unavailable | 5D: Unproductive Forest Land                         | 5  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>                                  |             |  |    |             |             |             |             |
| 22  | Unavailable | 5D: Unproductive Forest Land                         | 4  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>                                  |             |  |    |             |             |             |             |
| 23  | Unavailable | 5D: Unproductive Forest Land                         | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>                                  |             |  |    |             |             |             |             |
| 24  | Unavailable | 3G: Other Influence zones - See comments             | 15 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Rose City Road - public road. |             |  |    |             |             |             |             |
| 25  | Unavailable | 5D: Unproductive Forest Land                         | 3  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>                                  |             |  |    |             |             |             |             |

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 183

Year of Entry: 2018

|                  |             |  |    |             |             |             |             |
|------------------|-------------|--|----|-------------|-------------|-------------|-------------|
| 26               | Unavailable | 5D: Unproductive Forest Land   | 14 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |  |    |             |             |             |             |
| 27               | Unavailable | 5D: Unproductive Forest Land   | 3  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |  |    |             |             |             |             |
| 28               | Unavailable | 5D: Unproductive Forest Land   | 3  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |  |    |             |             |             |             |
| 29               | Unavailable | 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc) | 14 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |  |    |             |             |             |             |
| 30               | Unavailable | 5D: Unproductive Forest Land   | 24 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |  |    |             |             |             |             |
| 31               | Unavailable | 2G: Too wet (sensitive soils, does not include access issues)            | 53 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |             |  |    |             |             |             |             |

### Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 183

Year of Entry: 2018

|           |             |   |    |             |             |             |             |
|-----------|-------------|---|----|-------------|-------------|-------------|-------------|
| 32        | Unavailable | 5D: Unproductive Forest Land                                  | 5  | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: |             |   |    |             |             |             |             |
| 33        | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: |             |   |    |             |             |             |             |

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – 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 |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

| Conservation Area | Type                        | Description   |
|-------------------|-----------------------------|---|
| SCA               | Cold Water Lake             | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.                                   |
| SCA               | Cold Water Stream           | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.   |
| HCVA              | Designated Critical Habitat | Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat. |





|    | Level 4<br>Cover Type                         | Size<br>Density      | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
|----|---|----------------------|-------|--------------|-------------|---|
| 1  | 42220 - Natural Jack<br>Pine                  | Sapling Well         | 49.6  | 27           | Immature    | Site of refuge road fire 1989. Year of origin is 1990. Dense natural jack pine regeneration with stump sprouted oaks mixed in. The regeneration in the understory is seeded oaks.   |
| 3  | 42220 - Natural Jack<br>Pine                  | Poletimber<br>Well   | 340.9 | 53           | Unspecified | 8Natural jack pine stand that is two aged with the youngest being the regeneration from a 1964 wildfire. The sawlog size jack pine is from the pre-burnt stand and is roughly 85 years old. Numerous small open grass pockets fragmenting the stand. These grass pockets have seedling size jack pine scattered in them. Along the east half, have a mix of oak, red and white pine mixed in with the jack pine. The regeneration here in the understory is either heavy red or white pine dependent on the pine overstory. The oak is still good with regeneration of it all over the stand. When harvest leave some of the large oaks for mast and red pine for visual. |
| 5  | 42220 - Natural Jack<br>Pine                  | Poletimber<br>Medium | 157.2 | 53           | Unspecified | Natural jack pine stand created by a 1964 wildfire. Some saw class jack here and there that survived the fire. Many open areas throughout the stand devoid of pine with just some pin cherry mixed in with sedge. The pine as a whole is poor quality. Smaller sized poles with sapling sizes in the overstory. Several mortality pockets of pine also. Within the KW management area.  |
| 7  | 4130 - Aspen                                  | Sapling<br>Medium    | 12.2  | 4            | Immature    | Formerly an A6 stand that was had the parent stand burnt in a wildfire in 2013. It has regenerated back thick to aspen again.   |
| 8  | 4133 - Aspen, Mixed<br>Pine                   | Poletimber<br>Medium | 25.0  | 52           | Unspecified | Humucky stand with some shallow wet depressions at certain times of the year. Mix with poor quality aspen. The aspen is being edged out by maple and white pine. Will need to treat to keep aspen component. There is a couple acres of red pine saw class planted along the south line. Final harvest  |
| 10 | 6122 - Black Spruce                           | Sawtimber<br>Medium  | 52.9  | 85           | 111-140     | Wet ground that makes it inoperable to treat.   |
| 11 | 42220 - Natural Jack<br>Pine                  | Poletimber<br>Medium | 22.0  | 39           | 1-50        | K WARBLER. THIS IN CUT BLK 1  |
| 12 | 42120 - Planted Jack<br>Pine                  | Sapling Well         | 224.8 | 29           | Immature    | KW CUTTING BLOCK 2. Stand planted in 1988   |
| 13 | 42220 - Natural Jack<br>Pine                  | Poletimber<br>Medium | 7.8   | 52           | 1-50        | Poor quality jack pine Has some aspen and oak in the understory. Would be a good harvest to do and believe will get mix of jack pine, oak, and aspen. The jack pine saplings are getting shaded out in the mid-canopy and dying.  |
| 15 | 42220 - Natural Jack<br>Pine                  | Poletimber<br>Well   | 240.0 | 52           | 51-80       | Pole size jack pine stand with pockets of saw class scattered about, but mainly poles mixed with sapling sizes in canopy. The red pine are super-canopy survivors of previous wildfires. Mixed oak regeneration found all over the stand in the moderate to heavy amounts. The north 1/3rd contains more pole oaks and some white pine in the overstory mixed with jack pine. About a 50/50 mix. The oaks are poor quality.   |
| 18 | 42121 - Planted Jack<br>Pine, Mixed Deciduous | Sapling<br>Medium    | 53.2  | 11           | Immature    | Seeded in 2002 and failed. Was planted with seedlings in 2007. Several scattered pockets of aspen regeneration intermixed with a fairly large one on the south line.  |



|    | Level 4<br>Cover Type                            | Size<br>Density     | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
|----|--|---------------------|-------|--------------|-------------|---|
| 20 | 42120 - Planted Jack<br>Pine                     | Sapling<br>Medium   | 179.7 | 14           | Immature    | Seeded in 2002 by both contractor and DNR. The contractors portion failed so the stand was subsequently planted in 2004 to bring it to proper stocking for KW.  |
| 23 | 42260 - Natural Pine,<br>Mixed Deciduous         | Poletimber<br>Well  | 88.3  | 53           | 1-50        | Poor quality jack pine and aspen stand. The aspen is 4-5 sticks and stunted tops. There is shallow drain mirror Stand 25's orientation in the middle of the stand. This is where find majority of the white pine and maple. Only regeneration for most part is maple in the understory. Recommend a treatment to stagger the jack pine ages in compartment. This stand is to small for a KW planting and has wet areas and aspen clones that would interfere with a KW planting. Would be best just to manage as a natural jack pine stand. Do a winter harvest to stimulate aspen and protect sensitive soils.           |
| 24 | 4113 - R.Maple, Conifer                          | Poletimber<br>Well  | 27.6  | 55           | 81-110      | Two-aged stand with mature jack pine in the overstory dying out mixed in with large white pine which is doing good. In the mid-canopy have pole and sapling size red maple. In the understory find a good amount of white pine regeneration. Recommend treating with final harvest.<br><br>May have a trespass from the landowner to the north. Imagery shows tree removal. Need to run line to determine.  |
| 26 | 42220 - Natural Jack<br>Pine                     | Poletimber<br>Well  | 10.4  | 62           | Unspecified | Very dense small average diameter jack pine. No regeneration in the understory. All the regeneration is in the overstory. Could wait to harvest because it still in good shape and not showing any mortality, but with its' higher age, need to stagger jack pine age classes in area, and potential for not much more growth it probable be best to treat now. Old skid trail coming in from west through stand 27 that can use as access route.   |
| 27 | 4130 - Aspen                                     | Sapling Well        | 195.0 | 7            | Immature    | Stand was harvested in the spring 2011, "Beaver Slide Aspen". Good aspen regeneration with some overstory red and white pine left post harvest for diversity and visual. They do not appear to be affecting the regeneration coming in under and around them.   |
| 28 | 42290 - Natural Mixed<br>Pine                    | Sawtimber<br>Medium | 60.4  | 69           | 81-110      | Overmature jack pine stand with poor quality pin oak. The outer perimeter is lower ground and is where find the dense spruce and maple regeneration under a largely spruce overstory. The grade slopes upward towards the middle where most of the jack pine and oak is located. There is not much regeneration under this overstory. It needs to be harvested and can be but will require a culvert to be placed in a flowing stream, road construction and subsequent mat placement on soft ground to access. The culvert will need to be in Stand 31 and road construction as well as mats in this stand and stand 33. |
| 29 | 6128 - Lowland<br>Coniferous, Mixed<br>Deciduous | Poletimber<br>Well  | 208.6 | 97           | 111-140     | Tree regeneration is mostly spruce. Lots of shallow drains full of water and lined by cedar throughout. Would be next to impossible to treat without causing extensive damages to the soils. Possibly could just get a chain or so of the outer perimeters.   |
| 30 | 42120 - Planted Jack<br>Pine                     | Sapling Poor        | 18.7  | 11           | Immature    | Between failed seeding done in 2002 by a contractor and areas missed during trenching, this stand was not fully established until it was planted fully in 2007.   |



|    | Level 4<br>Cover Type                      | Size<br>Density      | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
|----|--|----------------------|-------|--------------|-------------|---|
| 31 | 42290 - Natural Mixed Pine                 | Poletimber<br>Medium | 17.4  | 61           | 111-140     | Large overmature oaks on the western half overtopping pole sized red and white pine. There is about 100+ foot wide drainage running from stand 2 to the north into stand 33 to the south. Within the drain is about a 3 foot wide flowing stream. In the drainage find some cedar but mainly black spruce. East of this drain find large saw sized red pines with some pole sized red maple and dense balsam fir and red maple regeneration. Recommend harvesting the oak before die out and lose stump sprouting potential. Do not mark out oaks that will cause to much damage to regeneration removing it. |
| 32 | 6127 - Lowland Pine                        | Poletimber<br>Poor   | 33.1  | 41           | 51-80       | Low ground with numerous vernal ponds filled with water. On the lower ground find dense white pine and red maple regeneration with some into pole size. On the high knobs have the super canopy white pines. Recommend to leave this stand due to all the fragile wet ground and the numerous legacy white pines for diversity.   |
| 33 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber<br>Well   | 174.2 | 107          | 111-140     | Mix of cedar, balsam, and maple. Most of the forest regeneration is balsam fir followed by spruce. Contains an intermittent stream flowing out of stand 31 to the north.  |
| 34 | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber<br>Medium | 9.9   | 72           | 51-80       | Stand of cedar converting to red maple and lowland aspen.   |
| 36 | 42210 - Natural Red Pine                   | Sawtimber<br>Well    | 7.2   | 76           | 171-200     | Natural red pine stand with super-canopy red pine nurse trees. Where the stand is close to the low ground spruce stand, the understory is heavy to spruce. As the stand moves away from the lower ground the understory turns to white pine. The middle of the stand is where most of the red pine is in the understory but is very light. The stand could be thinned or left for diversity in the area.  |
| 38 | 6112 - Lowland Aspen                       | Poletimber<br>Poor   | 10.0  | 57           | 1-50        | Lowland aspen stand with heavy tag alder understory. Would not be feasible to operate in.   |
| 39 | 429 - Mixed Upland Conifers                | Sawtimber<br>Well    | 4.1   | 107          | 111-140     | Small stand of large white pine along lowland spruce/cedar type. White pine, balsam fir, black spruce in understory.  |
| 40 | 42290 - Natural Mixed Pine                 | Poletimber<br>Well   | 24.2  | 81           | 141-170     | Overstory is scattered 70 year old red and white pine will some slightly older super-canopy sizes. The understory is red, white and jack pine from 1964 fire and is in the pole size. On a ridge that dips to the south into a lowland type.  |
| 41 | 42220 - Natural Jack Pine                  | Poletimber<br>Medium | 73.3  | 52           | Unspecified | The northern half contains saw class red pine, oak, and white pine. Some of the jack pine is saw too. The southern half mainly is all jack pine and is the pole/sapling size. Only jack pine regen. is in the mid-canopy. The understory regeneration is white pine or balsam fir. Contains small scattered vernal ponds.   |
| 43 | 42220 - Natural Jack Pine                  | Poletimber<br>Medium | 12.8  | 53           | 51-80       | Portion of Stand 22 not burnt in the 2013 wildfire. To stagger the jack pine ages in stand and since this is a smaller size now than ideal for KW, recommend treating it now. The southern perimeter is heavier to aspen. Treat by removing all species to 2 inches except the red pine. Third row thin the pine for now, and maybe after a couple more thinnings, lump it into the pine barrens to the south.  |



| Stand | Level 4 Cover Type         | Size Density      | Acres | Stand Age | BA Range    | General Comments:  |
|-------|----------------------------|-------------------|-------|-----------|-------------|--|
| 45    | 4132 - Aspen, Jack Pine    | Poletimber Medium | 64.0  | 52        | Unspecified | Just at maturity aspen stand with some decline. Most aspen regeneration is being browsed. White pine followed by red maple are the most common regrowth though. Some scattered vernal ponds within stand. This was a part of stand 62 split off to stagger the aspen age class treatments plus eliminate a green-up issue for a KW cut within this compartment and compartment 184 to the south.   |
| 46    | 42220 - Natural Jack Pine  | Poletimber Well   | 0.0   | 52        | Unspecified | A stand formally known as the "Clay Pits" is a borrow site mind for clay. The east third was an RDR issue and was slashed in to keep illegal traffic out. The remaining portion contains numerous spoil piles vegetated with trees. Best thing to do with site is to leave it forested to keep illegal ORV traffic from climbing piles.  |
| 48    | 42220 - Natural Jack Pine  | Poletimber Well   | 22.6  | 52        | Unspecified | Jack pine stand with a few super canopy red pine. K. WARBLER STND. CUT BLK 2.  |
| 49    | 4130 - Aspen               | Poletimber Well   | 12.7  | 57        | Unspecified | Poor quality aspen stand with 4-5 stick trees cauliflowering out at the top. No regeneration other than red maple. Treat and do during dormancy. Handful of jack pine and white pine sapling scattered about.  |
| 51    | 42220 - Natural Jack Pine  | Poletimber Medium | 10.6  | 36        | 1-50        | OPIC - FMD: K WARBLER. CUT BLK 1. YOE IS2028.  |
| 52    | 42210 - Natural Red Pine   | Sawtimber Well    | 15.8  | 87        | 171-200     | Natural red pine stand as evident by scattered some super-canopy red and white pine nurse trees. The outer perimeter has dense maple and white pine regeneration under a pole/log size red pine. Middle of stand has very little regeneration but large red pine and higher basal areas. Recommend a thinning.   |
| 53    | 6122 - Black Spruce        | Poletimber Medium | 24.6  | 97        | 81-110      | Tree regeneration is mostly spruce. Would be next to impossible to treat without causing extensive damages to the soils not to mention it is in the middle of a tag alder marsh and would take extensive crane matting to get to.  |
| 54    | 42290 - Natural Mixed Pine | Sawtimber Well    | 7.4   | 107       | 141-170     | Dense 2 inch white pine understory regeneration under a white and some red pine super canopy. The only species in the pole class is red maple and aspen which is mainly around a wet depression in the middle of the stand. There is so much regeneration in the understory coupled with the overstory being such large trees, 2/3rds of the regen. would need to be removed and/or damaged by removing the overstory. The white pine regeneration might get weevil also, so recommend leaving stand to manage itself and leave to visual diversity. |
| 55    | 42220 - Natural Jack Pine  | Sapling Poor      | 18.3  | 7         | Immature    | Jack pine stand harvested in 2010. An average of 20 basal area of mainly red pine but some white in the pole class were left post harvest. Natural jack pine and oak have regenerated nicely. Find some red pine seedlings out there but not very many. Will be a mixed jack pine and oak stand with large red pine scattered throughout in the future.  |



| Stand | Level 4 Cover Type                         | Size Density      | Acres | Stand Age | BA Range    | General Comments:   |
|-------|--|-------------------|-------|-----------|-------------|---|
| 62    | 4132 - Aspen, Jack Pine                    | Poletimber Medium | 34.7  | 52        | Unspecified | Mature aspen starting to die off. Most aspen regeneration is being browsed. White pine followed by red maple are the most common regrowth though. The furthest west portion contains some wetter areas, may paint out for retention. Recommend a treatment and during dormancy to stimulate coppice regeneration.   |
| 65    | 6112 - Lowland Aspen                       | Poletimber Medium | 1.8   | 57        | 51-80       | Quaking aspen stand with an area that is low in the center. Scattered aspen and tag alder in understory. Some pockets of jack pine.   |
| 66    | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well   | 30.5  | 97        | 141-170     | Spruce with pocket of dense cedar. Far amount of maple scattered about and a slight ground elevation with row of large white pine.  |
| 71    | 6119 - Mixed Lowland Deciduous Forest      | Poletimber Well   | 10.5  | 57        | 81-110      | Red maple mixed with aspen. Pockets of lower areas with tag alder. Some jack pine scattered about.  |
| 102   | 42220 - Natural Jack Pine                  | Poletimber Poor   | 11.6  | 62        | Unspecified | This stand is an old borrow pit for clay from years ago. The west half of the former pit has regrown to jack pine and red maple. It contains numerous spoil piles of varying sizes scattered about. The east half was free of spoil piles and shaped like a bowl. It was used heavily by illegal mud boggers until it was slashed in will tree tops a few years ago. The illegal activity has stopped. Do not harvest the trees on the west half mainly because it would open up the area to orv's climbing the spoil piles plus it would be very difficult to harvest anyways. Site condition stand. |
| 139   | 42200 - Natural White Pine                 | Sawtimber Well    | 6.5   | 107       | 141-170     | Mixed aged white pine with some super-canopy trees. The heaviest regeneration is white pine but do have some red maple and spruce mixed in the understory. Low pockets within the stand is where find the majority red maple. Good diverse stand to leave for diversity and visual.   |
| 140   | 42210 - Natural Red Pine                   | Poletimber Well   | 4.0   | 81        | 111-140     | High ridge between a wet marsh and tag alder swamp. No good way to feasible get to it. Growing good pine though.  |
| 148   | 42220 - Natural Jack Pine                  | Poletimber Well   | 11.1  | 52        | Unspecified | Narrow strip of jack pine between a KW planting and q-type. This stand slopes downward into the low ground. As stand goes southerly, there is more spruce and white pine cover type. Has a single strand of old wire running along the east side, along the 2-track, from the old game research area.   |
| 151   | 42220 - Natural Jack Pine                  | Poletimber Poor   | 16.0  | 36        | 1-50        | K WARBLER. CUT BLK 1. YOE IS2028.   |



| Stand | Cover Type                       | Acres | Managed Site | General Comments:  |
|-------|----------------------------------|-------|--------------|--|
| 2     | 6220 - Alder/willow              | 316.7 | No           |  |
| 4     | 3102 - Grass                     | 160.7 | No           | K WARBLER CUTTING BLK 5. This was the portion of stand 5 involved in the wildfire in the spring 2013. Numerous snags of varying sizes. Very little regeneration so far of jack pine. Along the north line there are several clumps of aspen regenerating clones. Small in size though, acre or less in size for each. The jack pine consists of a handful of sprigs here and there poking out of the sedge. Per wildlife division, they purposed leaving area to regenerate naturally. |
| 6     | 6224 - Treed Bog                 | 13.7  | No           | Bog jack pine  |
| 9     | 6225 - Bog                       | 1.5   | No           | Leatherleaf bog  |
| 14    | 6224 - Treed Bog                 | 11.6  | No           | Leatherleaf bog with clumps of jack pine and bushy white pine here and there.  |
| 16    | 122 - Road/Parking Lot           | 14.8  | No           | Rose City Rd.  |
| 17    | 122 - Road/Parking Lot           | 14.4  | Yes          | Berry Trail county road on north side of stand and Overhead powerline and its clearing on the south side of the stand.   |
| 19    | 6225 - Bog                       | 3.3   | No           | Leatherleaf bog.   |
| 21    | 330 - Low-Density Trees          | 51.9  | No           | OPIC - FMD: Stand was harvested in spring of 2010 with the southern half suffering from a wildfire in the Spring 2013. This resulted in heavy mortality to the residual pine. The entire stand will be RX burned under FTP# W71-876 to maintain a red pine barrens.  |
| 22    | 310 - Herbaceous Openland        | 31.6  | No           | K WARBLER CUTTING BLK 1. This was a portion of stand 22 involved in the wildfire in the spring 2013. Numerous snags of varying sizes. Very little regeneration so far of jack pine. Along the north line there are several clumps of aspen regenerating clones. Small in size though, acre or less in size for each. The jack pine consists of a handful of sprigs here and there poking out of the sedge. Per wildlife division, they purposed leaving area to regenerate naturally.  |
| 25    | 6220 - Alder/willow              | 23.8  | No           | Tag alder and willow drainage. Red maple and aspen along edges.  |
| 35    | 6225 - Bog                       | 1.7   | No           | Leatherleaf bog  |
| 37    | 330 - Low-Density Trees          | 13.6  | No           | OPIC - FMD: G type with scattered jack pine and pin cherry. Areas of bluestem. Maintain as jack pine barrens by RX burning. FTP #C71-876.  |
| 42    | 3302 - Low Density Conifer Trees | 11.5  | No           | Stand was final harvest in 2010. Planted back to jack pine 2012.   |
| 44    | 6220 - Alder/willow              | 4.5   | No           | Tag alder drainage.  |



| Stand | Cover Type                 | Acres | Managed Site | General Comments:  |
|-------|----------------------------|-------|--------------|--|
| 47    | 6224 - Treed Bog           | 4.7   | No           |  |
| 50    | 6224 - Treed Bog           | 3.3   | No           | Leatherleaf bog with scattered jack pine                                       |
| 56    | 6220 - Alder/willow        | 3.5   | No           |  |
| 57    | 500 - Water                | 17.3  | No           | OPIC - FMD: OI Stand Year Origin was   |
| 58    | 6225 - Bog                 | 2.7   | No           |  |
| 59    | 6229 - Mixed lowland shrub | 4.7   | No           |  |
| 60    | 6225 - Bog                 | 8.5   | No           |  |
| 61    | 500 - Water                | 1.2   | No           |  |
| 63    | 500 - Water                | 1.5   | No           |  |
| 64    | 6224 - Treed Bog           | 2.8   | No           | Tag alder and willow drainage. Red maple and aspen along edges.                |
| 67    | 6224 - Treed Bog           | 7.8   | No           |  |
| 68    | 6224 - Treed Bog           | 4.9   | No           |  |
| 70    | 3102 - Grass               | 2.2   | No           | OPIC - FMD: G type with scattered jack pine and pin cherry. Areas of bluestem. |
| 400   | 31022 - Warm Season Grass  | 1.4   | Yes          | Maintained opening by Wildlife Division.                                       |