

# TRAVERSE CITY FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT #004 ENTRY YEAR: 2014

Compartment Acreage: 3378 County: Benzie

# Stand Examiner: Timothy Webb

Legal Description: T27N R13W Sections 6, 7, 8, 18; T27N R14W Sections 1, 12, 13

**Management Goals:** Northern hardwood stands and red pine and white pine plantations occupy most of the uplands in compartment 4. Past treatments in the deciduous types have had a variety of outcomes depending on soil type, topography, amount of aspen in the species mix, degree of canopy opening, and potential for beech regeneration. Future harvest prescriptions need to consider these factors to favor desirable outcomes. Certain situations are suited for even-aged management, with final harvests of mature stands resulting initially in mixed aspen and cherry regeneration. These species seem to be able to overtop initial flushes of beech sprouts. Maple often develops over extended periods. This approach may be appropriate on lower slope positions, excessively drained soils (e.g. Kaleva sand), and/or areas with more bigtooth aspen. Hardwoods situated on upper slope positions, on well drained or somewhat excessively drained soils (e.g. Benzonia sand), and/or with less aspen and perhaps some ash or basswood may be better suited for selection harvests with potential hardwood regeneration in canopy gaps. Still other stands in draws and depressions, influenced by cold air drainage, are occupied by quaking aspen, low-quality cherry, and other hardwoods. Many of these sites have a well-stocked understory of red and sugar maple which will further develop as the aspen overstory drops out over time.

Pine plantations can continue to be managed with periodic thinnings. White pine plantations with a component of hardwoods can gradually be managed toward a more natural mix, focusing on retention of higher quality trees with each thinning and on increasing within-stand diversity.

Two areas within the compartment were previously mapped as proposed old growth. Timber harvest has been avoided in these areas since nomination in 1997. These areas, more or less, are now being proposed as Special Conservation Areas. Boundaries have been adjusted to coincide less with forest stands and more with physical features such as roads, trails, and topography. These SCAs are designed to promote structural and successional development of forests, associated wildlife habitat, recreational opportunities, and to maintain a remote, rustic character. Commercial timber harvest may be limited to treatments which enhance these values.

Numerous small wetlands and herbaceous openings are situated in kettle depressions. Several of these wetlands have begun to harbor phragmites. Herbicide treatment or other control methods should be considered to eliminate this invasive species, as well as autumn olive and garlic mustard which are also in or near the compartment.

**Soil and Topography:** Soil types are predominantly well drained to excessively drained sands, including Benzonia, Kaleva, Benona, Fogg, and other sandy soils. Small areas of loamy sand occur in places. Wetlands contain histosols or muck soils. Most of the compartment is situated on moraine and pitted outwash plain landforms. Consequently, the land is rather hilly with numerous kettle depressions.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Compartment 4 connects on the north, west, and south with a fairly large block of state land having scattered private inholdings. To the east and northeast are rural residential properties, small agricultural fields, fragmented private forest land, and lakefront homes on Pearl Lake and other small lakes. Mistwood Golf Course is about 1<sup>1</sup>/<sub>2</sub> miles to the east. New development has slowed in recent years.

**Unique, Natural Features:** State land surrounds Lime Lake and Hartman Lake within the compartment, with additional state land frontage on Pearl and Garey Lakes. Small wetlands are scattered through the compartment, situated in kettle depressions.

Archeological, Historical, and Cultural Features: There is evidence within the compartment of early 1900s homesteads, including lilac bushes, fruit trees, black locust trees, and remnant fields.

**Special Management Designations or Considerations:** Two Special Conservation Areas are being proposed within the compartment (see "Management Goals" above).

**Watershed and Fisheries Considerations:** This compartment contains portions of Pearl Lake, Lime Lake, Gerry Lake, and Hartman Lake, and is part of the Platte River watershed. There are also numerous wetland areas in this compartment. Fisheries Division currently stocks Lime Lake with walleye in order to create a remote and unique walleye angling opportunity. While there is a selection cut scheduled in the vicinity of Lime Lake, there appears to be a sufficient buffer. Please adhere to all appropriate BMPs in regards to the wetlands and lakes found within this compartment.

**Wildlife Habitat Considerations:** A majority of compartment 4 lies along a small moraine ridge. This area is characterized by having many kettle lakes and well drained sands. Existing northern hardwood stands should be managed to perpetuate the cover type. Timber prescriptions in the northern hardwood stands should be designed to promote species diversity as well as leave snags, coarse woody debris, and conifers. Several small white pine plantations are slowly converting to hardwoods, but currently provide pockets of dense cover for wildlife, such as: eastern gray squirrels, common gray fox, white breasted nuthatches, and blue-spotted salamanders. Pockets of higher quality aspen should be maintained within hardwood stands through periodic patch cutting. These aspen pockets should be located on the fringe of the hardwood blocks where fires on the outwash plains might have penetrated slightly into moraine country. Aspen stands in this area show a strong component of hardwoods and should convert to hardwoods in time. The openings on the moraine ridges are typically the result of frost pockets and consequently need little maintenance. The southeast corner of the compartment transitions into a pitted outwash plain. This more fire prone area should be managed in conjunction with similar LTAs in neighboring compartments, for a variety of forest age classes, successional stages, and patch sizes, as well as grass/shrub openings. Several upland brush communities here require some removal of wood encroachment via adjacent timber sales.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Devonian Antrim Shale and the Traverse Group. The Traverse is used for stone and the Antrim quarried for cement products. The nearest gravel pit is three miles away, but there should be some gravel potential in the compartment. This area is located northwest of the current Antrim Shale gas play and the Antrim Shale appears to be pinching out with limited potential.

**Vehicle Access:** Much of the compartment is somewhat remote and hilly, but access is sufficient. Some areas may have fairly long skidding or forwarding routes if prescribed for timber management, but building new roads would be difficult, intrusive, and unnecessary. One stretch of the Shore-to-Shore Trail on a poor road in section 13 should be considered for closure to wheeled motor vehicles because of excessive rutting and puddling.

# Survey Needs: None needed.

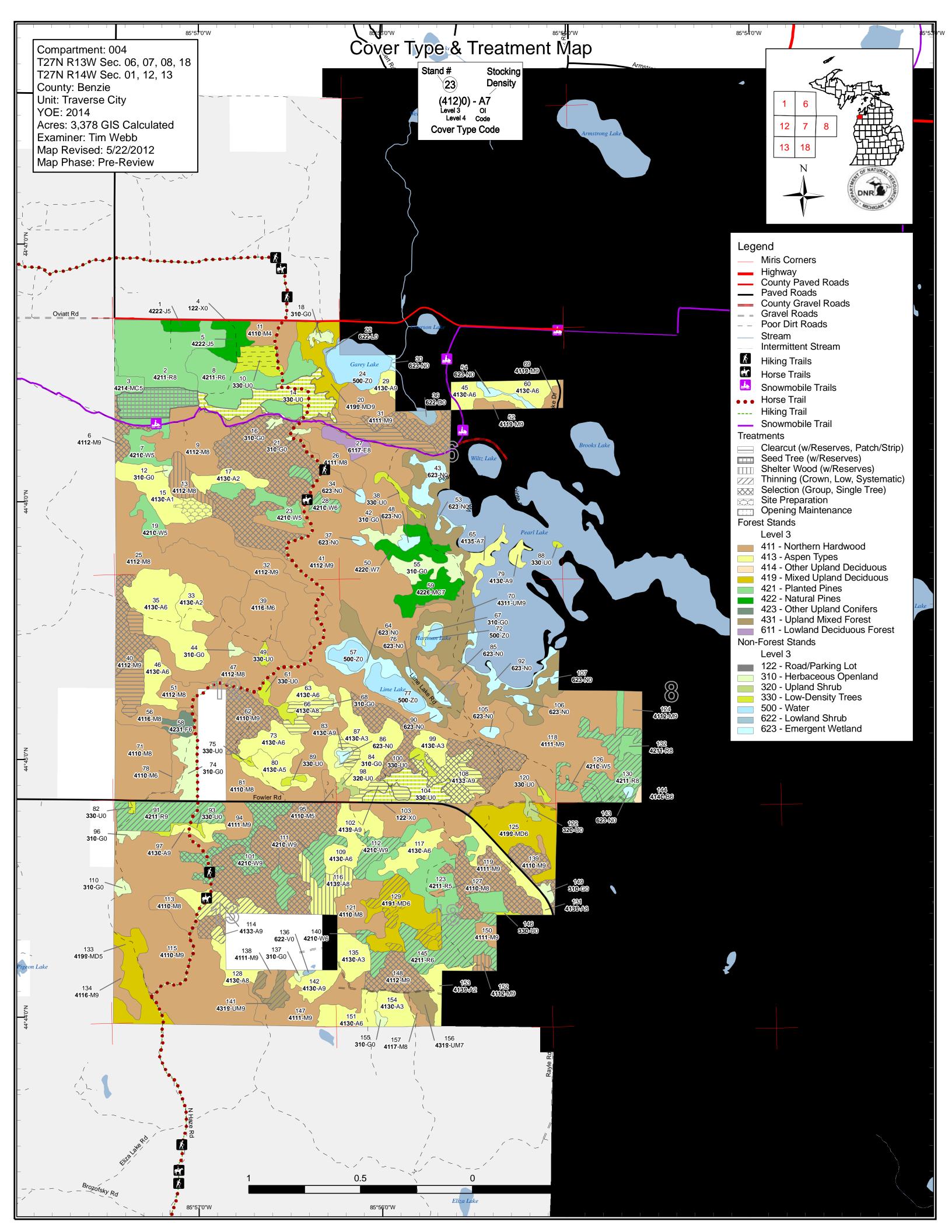
**Recreational Facilities and Opportunities:** Compartment 4 includes Garey Lake State Forest Campground & Trail Camp. The Shore-to-Shore Riding-Hiking Trail spans the entire compartment north to south, so horseback riding is important here. The Platte River Snowmobile Trail passes through the north part of the compartment. Pearl and Lime Lakes are popular for camping, fishing, and waterfowl hunting. Dispersed recreation includes deer hunting and mushrooming.

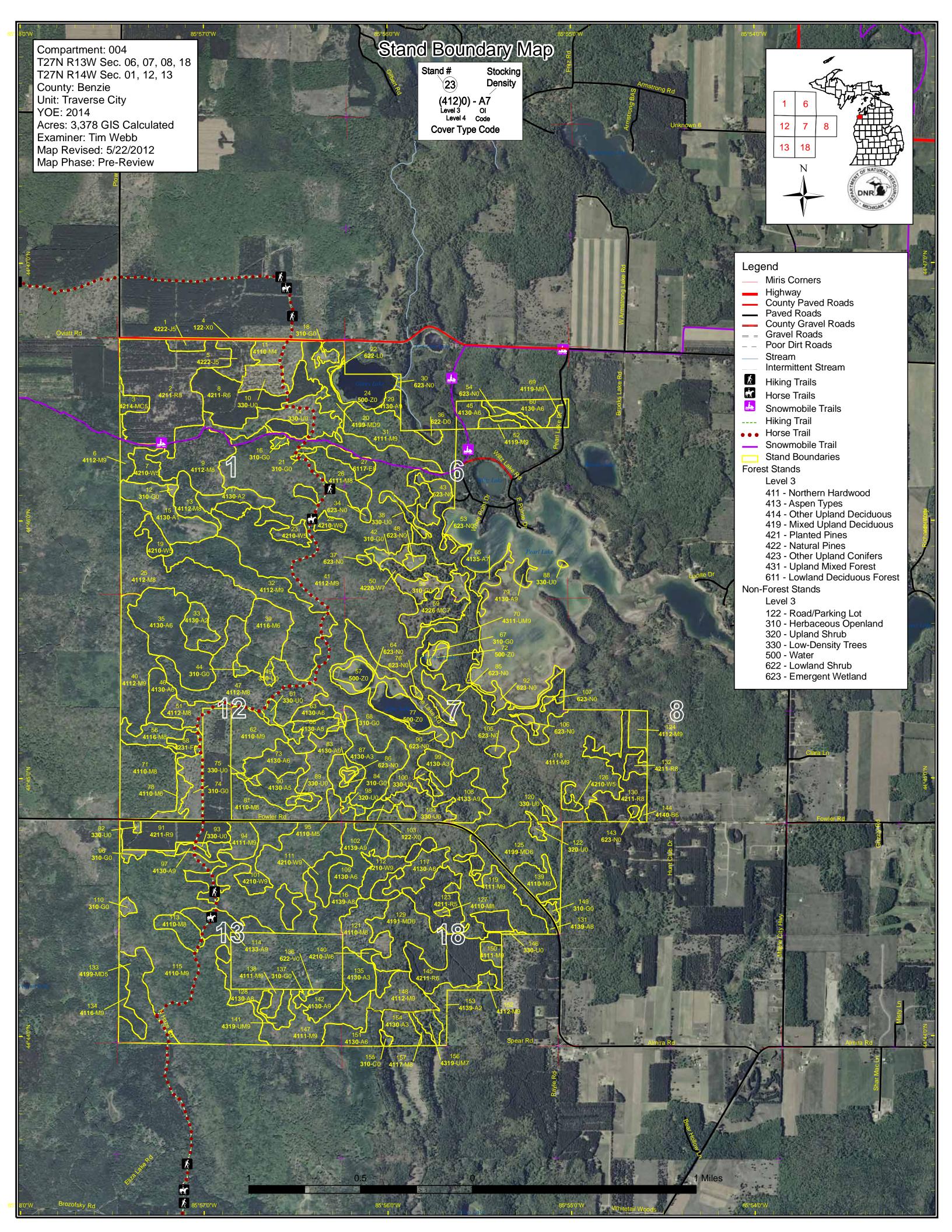
**Fire Protection:** Fire protection for this area is covered by both Homestead Fire Department and Almira Fire Department. Wildfire coverage is handled out of the Platte River Field Office with support resources available from the Traverse City Field Office. Good vehicle access to part of the compartment is limited due to the rolling terrain and lack of seasonal roads or logging skid trails. In other areas of the compartment access is fair but limited. The area is dominated by mature hardwoods with relatively little wildfire history. Water supply sources in the event of a wildfire are readily available from any one of the local lakes in the immediate area. Submitted by: Rod Rader, Fire Supervisor, Traverse City Field Office.

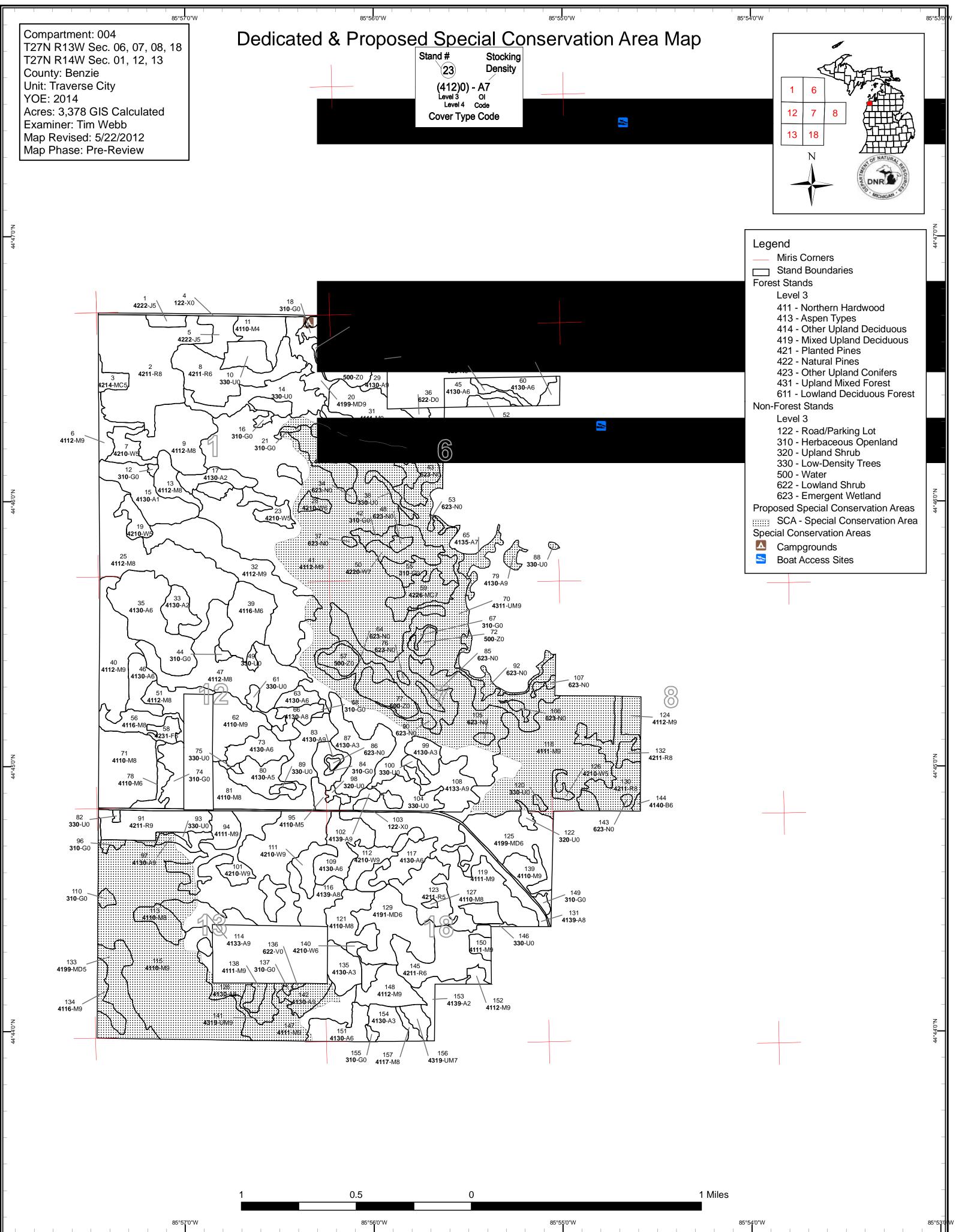
# **Additional Compartment Information:**

\*\*\*\* Cover type details and proposed treatments are listed in the attached reports: Cover Type by Age Class Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors

\*\*\*\* The following information is displayed on the attached compartment maps: Base feature information, stand numbers, cover types Proposed treatments Proposed SCAs







# Table 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit Timothy Webb : Examiner

## Compartment 004 Year of Entry 2014



Age Class

|                        |     |     |     |     |     |     |     | 00<br>00 | 10' | \$9<br>\$9 | 67.7 | 001 00,<br>100, 100, 100, 100, 100, 100, 10 | 01101, 120 | /   | R R R |
|------------------------|-----|-----|-----|-----|-----|-----|-----|----------|-----|------------|------|---|------------|-----|-------|
| Aspen                  | 24  | 123 | 72  | 129 | 25  | 36  | 39  | 0        | 6   | 0          | 0    | 0   | 0          | 63  | 516   |
| Bog                    | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 1     |
| Herbaceous Openland    | 63  | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 63    |
| Jack Pine              | 0   | 0   | 0   | 5   | 13  | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 19    |
| Low-Density Trees      | 95  | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 95    |
| Lowland Deciduous      | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 9   | 9     |
| Lowland Shrub          | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 1     |
| Marsh                  | 63  | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 63    |
| Mixed Upland Deciduous | 0   | 0   | 42  | 0   | 53  | 45  | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 140   |
| Natural Mixed Pines    | 0   | 0   | 0   | 0   | 20  | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 20    |
| Northern Hardwood      | 0   | 0   | 0   | 0   | 18  | 33  | 84  | 453      | 665 | 122        | 329  | 21  | 0          | 30  | 1755  |
| Paper Birch            | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 1     |
| Planted Mixed Pines    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 7   | 7     |
| Red Pine               | 0   | 0   | 0   | 0   | 55  | 164 | 97  | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 316   |
| Treed Bog              | 3   | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 3     |
| Upland Mixed Forest    | 0   | 0   | 0   | 0   | 0   | 16  | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 127 | 143   |
| Upland Shrub           | 6   | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 6     |
| Upland Spruce/Fir      | 0   | 0   | 0   | 7   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 7     |
| Urban                  | 15  | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 15    |
| Water                  | 55  | 0   | 0   | 0   | 0   | 0   | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 55    |
| White Pine             | 0   | 0   | 0   | 17  | 0   | 126 | 0   | 0        | 0   | 0          | 0    | 0   | 0          | 0   | 143   |
| Total                  | 325 | 123 | 114 | 158 | 184 | 421 | 222 | 453      | 670 | 122        | 329  | 21  | 0          | 236 | 3378  |



# Table 2 – Proposed Treatment Summaries

| MICHIGAN . | Traverse City Mgt. Unit<br>Year of Entry 2014 |           |                |       |      |               |         |        |          |                      |  | Compartment<br>Total Compartment Acres: |  |
|------------|---|-----------|----------------|-------|------|---------------|---------|--------|----------|----------------------|--|---|--|
|            |   |           |                |       | Acre | s by T        | reatm   | ent Ty | ре       |                      |  |   |  |
|            | Commercial Harvest - 767                      | Site P    | rep - 7        |       | Т    | ree Pl        | lanting | - 0    |          | Pres                 | cribed Burn - 0  | Other - 0                               |  |
|            | Habitat Cut - 23                              | Openi     | ing Maintenand | e - 5 | 53 T | ree Se        | eeding  | - 0    |          | Pest                 | cide - 0   |   |  |
|            |   |           |                |       | Cov  | er Ty         | pe by H | larves | t Meth   | nod                  |  |   |  |
|            | Aspen   |           | {              | 29    | 19   | in the second | 21      | 15     | ining of | 33<br>33<br>10<br>85 | Se Contraction of the second s |   |  |
|            |   | pland Dec | ciduous        | 0     | 0    | 0             | 0       | 18     | 0        | 18                   | I  |   |  |
|            | Northern                                      | n Hardwoo | bd             | 37    | 408  | 0             | 17      | 0      | 0        | 462                  |  |   |  |
|            | Red Pine                                      | e         |                | 0     | 0    | 25            | 0       | 105    | 0        | 130                  |  |   |  |
|            | Upland  | Mixed For | est            | 0     | 0    | 0             | 0       | 9      | 0        | 9                    | I  |   |  |
|            | White Pi                                      | ine       |                | 0     | 32   | 0             | 0       | 55     | 0        | 86                   | Ι  |   |  |
|            |   | Γ         | Total          | 66    | 459  | 25            | 38      | 202    | 0        | 790                  |  |   |  |

#### Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 004 Year of Entry 2014

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| a<br>n<br>d | Treatment<br>Name | Acres | CoverType                   | Size<br>Density       | Stand<br>Age | BA<br>Range | Treatment<br>Type | Treatment<br>Method        | Cover Type<br>Objective     | Approval<br>Status       |
|-------------|-------------------|-------|-----------------------------|-----------------------|--------------|-------------|-------------------|----------------------------|-----------------------------|--------------------------|
| 2           | 61004002-Cut      | 25.0  | 42110 - Planted<br>Red Pine | Medium<br>Density Log | 66           | 141-170     | Harvest           | Seed Tree with<br>Reserves | 42110 - Planted<br>Red Pine | Cmpt. Review<br>Proposal |

Prescription Cut red pine in part of the parent stand with low stocking. Leave about 20 BA for seed trees (i.e. about twenty-five 12" trees per acre, about 42' apart on average). Specify snow-free season harvest for scarification. Consider whole-tree harvesting & required chipping.

#### <u>Other</u>

S t

Comments:

 Next
 Check regeneration at appropriate intervals post-harvest. Consider removing most of residuals at some point. If natural regeneration is unsuccessful, consider trenching and planting red pine.

#### Proposed

Start Date: 10/01/2013

| 6 | 61004006-Cut | 9.3 | 4112 - Maple,<br>Beech, Cherry<br>Association | High<br>Density Log | 97 | 141-170 | Harvest | Single Tree<br>Selection | 4112 - Maple,<br>Beech, Cherry<br>Association | Cmpt. Review<br>Proposal |
|---|--------------|-----|---|---------------------|----|---------|---------|--------------------------|---|--------------------------|
|---|--------------|-----|---|---------------------|----|---------|---------|--------------------------|---|--------------------------|

<u>Prescription</u> Mark for thinning; residual BA of about 80-90. Leave some beech, pine for retention. Create CWD during harvest. Use contract specifications to <u>Specs</u>: protect the snowmobile trail. Avoid winter harvest.

## Other

Comments:

Next None needed. Some mixed hardwood regeneration is expected in canopy gaps, but will probably be initially dominated by beech and ironwood. Steps:

#### Proposed

Start Date: 10/01/2013

| 13 61004013-Cut | 13.3 | 4112 - Maple,<br>Beech, Cherry<br>Association | Medium<br>Density Log | 79 | 111-140 | Harvest | Shelter Wood with Reserves | 4112 - Maple,<br>Beech, Cherry<br>Association | Cmpt. Review<br>Proposal |
|-----------------|------|---|-----------------------|----|---------|---------|----------------------------|---|--------------------------|
|-----------------|------|---|-----------------------|----|---------|---------|----------------------------|---|--------------------------|

Prescription Mark for harvest, retaining +/- 50 BA, including some mast trees for retention. Cut heavier where aspen is concentrated. Focus harvest on lower Specs: quality and multi-stemmed trees.

# Other Retain residual overstory at least 10 years to nurture regeneration.

Comments:

Next Check regeneration progress at next 10-year inventory and possibly remove most of remaining overstory to release.

#### <u>Steps:</u> <u>Proposed</u>

Start Date: 10/01/2013

| 28 | 61004028-Cut | 8.6 | 42100 - Planted<br>White Pine | High<br>Density | 55 | 171-200 | Harvest | Systematic<br>Thinning | 42100 - Planted<br>White Pine | Cmpt. Review<br>Proposal |  |
|----|--------------|-----|-------------------------------|-----------------|----|---------|---------|------------------------|-------------------------------|--------------------------|--|
|    |              |     |                               | Pole            |    |         |         | 0                      |                               | •                        |  |

<u>Prescription</u> 3rd-row thinning. Leave hardwoods as much as possible. <u>Specs:</u>

 Other
 Intention is to gradually move this stand toward an uneven-aged mixed pine-hardwood type. Use appropriate contract specifications to protect the rec. trail.

 Next
 None.

 Steps:
 Proposed

Start Date: 10/01/2013

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#### Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 004 Year of Entry 2014



| t                              |                       |        |              |   |                     | with         |                | ing racior         |                           |   | DNR ROES                 |
|--------------------------------|-----------------------|--------|--------------|---|---------------------|--------------|----------------|--------------------|---------------------------|---|--------------------------|
| a<br>n<br>d                    | Treatme<br>Name       | nt     | Acres        | CoverType                                     | Size<br>Density     | Stand<br>Age | BA<br>Range    | Treatment<br>Type  | Treatment<br>Method       | Cover Type<br>Objective                       | Approval<br>Status       |
| 31                             | 61004031              | -Cut   | 22.1         | 4111 - S.Maple,<br>Hard Mast<br>Association   | High<br>Density Log | 96           | 111-140        | Harvest            | Group Selection           | 4111 - S.Maple,<br>Hard Mast<br>Association   | Cmpt. Review<br>Proposal |
| <u>Preso</u><br>Spec           |                       |        |              | an average residual<br>s within stand.        | BA of about 9       | 90. Cre      | ate some (     | CWD during har     | vest operations. Reta     | ain some mast trees                           | throughout.              |
| <u>Other</u><br>Com            | <u>r</u> Co<br>ments: | nsidei | · beech bar  | k disease guidelines                          | s in marking, a     | as beec      | h scale is p   | present in the are | ea. SE corner of star     | nd abuts snowmobile                           | trail.                   |
| <u>Next</u><br>Steps           |                       | ne.    |              |   |                     |              |                |                    |                           |   |                          |
| <u>Propo</u><br>Start [        |                       | 01/201 | 3            |   |                     |              |                |                    |                           |   |                          |
| 40                             | 6100404<br>clearcu    |        | 19.4         | 4112 - Maple,<br>Beech, Cherry<br>Association | High<br>Density Log | 74           | 111-140        | Harvest            | Clearcut with<br>Reserves | 4130 - Aspen                                  | Cmpt. Review<br>Proposal |
| <u>Prese</u><br>Spec           |                       |        |              | neter limit. Mark sc<br>narvest operations.   | attered small       | patches      | s of hardwo    | ods for retentior  | n, plus some single b     | eech trees or cavity                          | trees. Create            |
| <u>Othe</u><br>Com             | <u>r</u><br>ments:    |        |              |   |                     |              |                |                    |                           |   |                          |
| <u>Next</u><br>Steps           |                       | nd sh  | ould regen   | erate well with aspe                          | n sprouts and       | cherry       | seedlings,     | plus other mixed   | d hardwood stump sp       | prouts and seedlings.                         |                          |
| <u>Propo</u><br><u>Start [</u> |                       | 01/201 | 3            |   |                     |              |                |                    |                           |   |                          |
| 40                             | 6100404<br>selectio   |        | 23.1         | 4112 - Maple,<br>Beech, Cherry<br>Association | High<br>Density Log | 74           | 111-140        | Harvest            | Single Tree<br>Selection  | 4112 - Maple,<br>Beech, Cherry<br>Association | Cmpt. Review<br>Proposal |
| Preso<br>Spec                  |                       |        | harvest wit  | h a residual BA of a                          | bout 90. Crea       | ate som      | e CWD du       | ring harvest ope   | rations. Retain some      | e mast producing tree                         | es and cavity            |
| <u>Othe</u><br>Com             | <u>r</u><br>ments:    |        |              |   |                     |              |                |                    |                           |   |                          |
| <u>Next</u><br>Steps           |                       | ne.    |              |   |                     |              |                |                    |                           |   |                          |
| <u>Propo</u><br><u>Start I</u> |                       | 1/201  | 3            |   |                     |              |                |                    |                           |   |                          |
| 41                             | 6100404<br>clearcu    |        | 17.8         | 4112 - Maple,<br>Beech, Cherry<br>Association | High<br>Density Log | 88           | 141-170        | Harvest            | Clearcut with<br>Reserves | 4130 - Aspen                                  | Cmpt. Review<br>Proposal |
| <u>Preso</u><br>Spec           |                       |        |              | neter limit, retaining<br>reate some CWD di   |                     |              |                | and cavity trees,  | , plus some small pat     | tches of hardwoods a                          | along the                |
| <u>Other</u><br>Com            | <u>r</u> Us<br>ments: | e app  | ropriate cor | tract specifications                          | to protect snc      | wmobil       | e trail, inclu | uding a seasona    | I harvest restriction.    |   |                          |
| <u>Next</u><br>Steps           |                       | ne ne  | eded. Stand  | d should regenerate                           | well with asp       | en spro      | uts, plus so   | ome mixed hard     | wood sprouts and se       | edlings.                                      |                          |
| <u>Propo</u><br>Start [        |                       | 1/201  | 3            |   |                     |              |                |                    |                           |   |                          |

Table 3 -- Treatments Prescribed Compartment: 004 Traverse City Mgt. Unit with No Limiting Factor Year of Entry 2014 s t а Treatment Acres CoverType Size Stand BA Treatment Treatment Cover Type Approval n Name Method Density Range Objective Status Age Type d 41 61004041-66.4 141-170 4112 - Maple, 4112 - Maple, High 88 Harvest Single Tree Cmpt. Review Selection selection-1 Beech, Cherry Density Log Beech, Cherry Proposal Association Association Prescription Mark for harvest with a residual BA of about 90. Create some CWD during harvest operations. Retain some cavity trees and mast producing trees. Adjust marking along Shore-to-Shore trail to accomodate visual concerns. Specs: Other\_ Use appropriate contract specifications to protect the rec. trail. Comments: <u>Next</u> None needed. Steps: Proposed 10/01/2013 Start Date: 41 61004041-35.4 Cmpt. Review 4112 - Maple, High 88 141-170 Single Tree 4112 - Maple, Harvest selection-2 Beech, Cherry Density Log Selection Beech, Cherry Proposal Association Association Prescription Mark for harvest with a residual BA of about 90. Create some CWD during harvest operations. Retain some cavity trees and mast producing trees. Adjust marking along Shore-to-Shore trail to accomodate visual concerns. Specs: Use appropriate contract specifications to protect the rec. trail. <u>Other</u> Comments: None needed. Next Steps: Proposed 10/01/2013 Start Date: 41 61004041-27.1 4112 - Maple, High 88 141-170 Harvest Single Tree 4112 - Maple, Cmpt. Review Beech, Cherry Selection Beech, Cherry selection-3 Density Log Proposal Association Association Prescription Mark for harvest with a residual BA of about 90. Create some CWD during harvest operations. Retain some cavity trees and mast producing Specs: trees. Other Comments: None needed. <u>Next</u> Steps: Proposed Start Date: 10/01/2013 41 61004041-16.3 4112 - Maple, High 88 141-170 Harvest Single Tree 4112 - Maple, Cmpt. Review Beech, Cherry selection-4 Beech, Cherry Selection Proposal Density Log Association Association Prescription Mark for harvest with a residual BA of about 90. Create some CWD during harvest operations. Retain some cavity trees and mast producing Specs: trees. <u>Other</u> Comments: None needed. Next Steps: Proposed

<u>Start Date:</u> 10/01/2013

# Table 3 -- Treatments Prescribed

Compartment: 004



| S<br>t               |                    |                       | Traverse                 | e City Mgt. Unit   | Tabl                  |              |              | ents Prescrit<br>ting Factor | bed                       | Compartment: 004<br>Year of Entry 2014            | DNR<br>Working Att -     |  |
|----------------------|--------------------|-----------------------|--------------------------|--|-----------------------|--------------|--------------|------------------------------|---------------------------|---|--------------------------|--|
| a<br>n<br>d          |                    | atment<br>ame         | Acres                    | CoverType  | Size<br>Density       | Stand<br>Age | BA<br>Range  | Treatment<br>Type            | Treatment<br>Method       | Cover Type<br>Objective                           | Approval<br>Status       |  |
| 62                   | 61004              | 062-Cut               | 28.1                     | 4110 - Sugar Maple<br>Association  | High<br>Density Log   | 89<br>J      | 111-140      | Harvest                      | Single Tree<br>Selection  | 4110 - Sugar Maple<br>Association                 | Cmpt. Review<br>Proposal |  |
| Prese<br>Spec        |                    |                       |                          |  |                       |              |              |                              |                           | d aspen for mast and o operations. Residual B     |                          |  |
| <u>Othe</u><br>Com   | <u>r</u><br>ments: | Beech s               | cale is pre              | esent; employ beech ba   | ark disease (         | guidelin     | es as appro  | opriate. Use app             | ropriate contract s       | pecifications to protect t                        | he rec. trail.           |  |
| <u>Next</u><br>Steps |                    |                       |                          | xed hardwood regenera<br>enerate well in larger op   |                       | ipated i     | n canopy g   | aps, but may be              | initially dominated       | by beech and ironwood                             | . Aspen and              |  |
| Propo<br>Start I     |                    | 10/01/20 <sup>-</sup> | 13                       |  |                       |              |              |                              |                           |   |                          |  |
| 66                   | 61004              | 066-Cut               | 11.6                     | 4130 - Aspen   | Medium<br>Density Log | 50<br>9      | 51-80        | Harvest                      | Clearcut with<br>Reserves | 4130 - Aspen                                      | Cmpt. Review<br>Proposal |  |
| Prese<br>Spec        | · ·                | -                     | to a 2" di<br>arvest ope |  | all oak and ju        | uneberr      | y plus some  | e individually mai           | rked hardwoods ar         | d cavity trees. Create                            | some CWD                 |  |
| <u>Othe</u><br>Com   | <u>r</u><br>ments: |                       |                          |  |                       |              |              |                              |                           |   |                          |  |
| <u>Next</u><br>Steps |                    | None ne               | eded. Sta                | and is expected to rege  | enerate adeq          | luately      | with aspen s | sprouts and cher             | ry seedlings.             |   |                          |  |
| Propo<br>Start I     |                    | 10/01/20 <sup>-</sup> | 13                       |  |                       |              |              |                              |                           |   |                          |  |
| 83                   | 61004              | 083-Cut               | 3.8                      | 4130 - Aspen   | High<br>Density Log   | 80           |              | Harvest                      | Clearcut with<br>Reserves | 4130 - Aspen                                      | Cmpt. Review<br>Proposal |  |
| Prese<br>Spec        |                    | Clearcut              | to a 2" di               | ameter limit, retaining a  | any conifers,         | , some       | mast trees,  | and scattered ha             | ardwoods. Create          | some CWD during harv                              | vest operations.         |  |
| <u>Othe</u><br>Com   | <u>r</u><br>ments: | Cut only              | the east                 | part of the stand. Allow   | v the west pa         | art of th    | e stand to s | succeed to hardw             | oods.                     |   |                          |  |
| <u>Next</u><br>Steps |                    | None ne               | eded. Sta                | and is expected to rege  | enerate well          | with as      | pen sprouts  | and some hardv               | vood seedlings.           |   |                          |  |
| Propo<br>Start I     |                    | 10/01/20 <sup>-</sup> | 13                       |  |                       |              |              |                              |                           |   |                          |  |
| 91                   | 61004              | 091-Cut               | 32.7                     | 42110 - Planted<br>Red Pine  | High<br>Density Log   | 55<br>J      | 171-200      | Harvest                      | Low Thinning              | 42110 - Planted<br>Red Pine                       | Cmpt. Review<br>Proposal |  |
| <u>Prese</u><br>Spec |                    | _ Mark for            | thinning                 | with a residual BA of 12   | 20-130. Reta          | ain scat     | tered hardv  | voods.                       |                           |   |                          |  |
| <u>Othe</u><br>Com   | <u>r</u><br>ments: | Shore-to              | -Shore Tr                | ail passes through the   | stand. Use            | approp       | riate contra | ct specifications            | to protect the rec.       | trail.  |                          |  |
| <u>Next</u><br>Steps |                    | None ne               | eded.                    |  |                       |              |              |                              |                           |   |                          |  |
| Propo<br>Start I     |                    | 10/01/20 <sup>-</sup> | 13                       |  |                       |              |              |                              |                           |   |                          |  |
| 101                  | 61004              | 101-Cut               | 31.5                     | 42101 - Planted<br>White Pine, Mixed<br>Deciduous  | High<br>Density Log   | 50<br>)      | 171-200      | Harvest                      | Single Tree<br>Selection  | 42101 - Planted<br>White Pine, Mixed<br>Deciduous | Cmpt. Review<br>Proposal |  |
| <u>Prese</u><br>Spec | •                  | _ Mark for            | thinning.                | Create some regenera   | ation gaps ar         | round a      | spen clones  | s and to release             | patches of advance        | ed hardwood regenerati                            | on.                      |  |
| <u>Othe</u><br>Com   | <u>r</u><br>ments: |                       |                          | ve the stand toward a n<br>ifications as needed to   |                       |              |              | of pine and hardv            | vood. Shore-to-Sh         | ore Trail passes throug                           | h the stand;             |  |
| N1                   |                    | D'                    | 1.1                      | dia a sull'a sua della |                       |              |              |                              |                           |   |                          |  |

<u>Next</u> Pine and hardwood seedlings as well as aspen sprouts are expected, desirable regeneration in cnopy gaps.

Steps: Proposed

10/01/2013 Start Date:

| S<br>t  |  | Traverse  | City Mgt. Unit  | Tabl   |                     |                                    | ents Prescril<br>ting Factor                   | bed   | Compartment: 004<br>Year of Entry 2014   | OF NATUREL REGULER                   |
|---|--|---|---|--|---------------------|------------------------------------|--|---|--|--------------------------------------|
| a<br>n<br>d   | Treatment<br>Name  | Acres   | CoverType   | Size<br>Density  | Stand<br>Age        | BA<br>Range                        | Treatment<br>Type                              | Treatment<br>Method   | Cover Type<br>Objective  | Approval<br>Status                   |
| 102   | 61004102-Cut   | 7.3   | 4139 - Aspen,<br>Mixed Deciduous  | High<br>Density Log  | 55<br>J             | 111-140                            | Harvest  | Clearcut with<br>Reserves   | 4139 - Aspen,<br>Mixed Deciduous   | Cmpt. Review<br>Proposal             |
| Preso<br>Spec   | · · · ·  |   | imeter limit, retaining<br>e some CWD during  |  |                     | s and conife                       | ers. However, th                               | in the east lobe of   | the stand to keep this p   | batch as                             |
| <u>Othe</u><br>Com  | <u>r</u> Beech<br>ments:   | scale is pres   | sent in the east hard   | wood lobe; m   | ark to re           | duce beec                          | h BA.  |   |  |                                      |
| <u>Next</u><br>Steps  |  | eeded. Sta  | nd should regenerate  | e well with as   | pen spro            | outs and so                        | me hardwood sp                                 | prouts and seedling   | S.   |                                      |
| Propo<br>Start [  |  | 013   |   |  |                     |                                    |  |   |  |                                      |
| 108   | 61004108-<br>clearcut  | 6.3   | 4133 - Aspen,<br>Mixed Pine   | High<br>Density Log  | 60                  | 111-140                            | Harvest  | Clearcut with<br>Reserves   | 4130 - Aspen   | Cmpt. Review<br>Proposal             |
| Preso<br>Spec   |  | ut to a 2" dia  | meter limit, retaining  | scattered ha   | rdwoods             | s, conifers a                      | and cavity trees.                              | Create some CW  | D during harvest operat  | tions.                               |
| <u>Othe</u><br>Com  | <u>r</u><br>ments:   |   |   |  |                     |                                    |  |   |  |                                      |
| <u>Next</u><br>Steps  |  | eeded. Sta  | nd should regenerate  | e adequately   | with asp            | en sprouts                         | and mixed hard                                 | woods.  |  |                                      |
| Propo<br>Start [  |  | 013   |   |  |                     |                                    |  |   |  |                                      |
| 108   | 61004108-thir  | 19.2  | 4133 - Aspen,   | High   | 60                  | 111-140                            |  |   |  |                                      |
|   |  |   | Mixed Pine  | Density Log  | 9                   | 111-140                            | Harvest  | Single Tree<br>Selection  | 42201 - Natural<br>White Pine, Mixed<br>Deciduous  | Cmpt. Review<br>Proposal             |
| Preso<br>Spec   |  | remove mu   |   | Density Log  |                     |                                    |  | Selection   | White Pine, Mixed<br>Deciduous   |                                      |
| Spec  | <u>S:</u>  | remove mu   | Mixed Pine  | Density Log  |                     |                                    |  | Selection   | White Pine, Mixed<br>Deciduous   |                                      |
| Spec  | <u>s:</u><br><u>ments:</u><br>None n   |   | Mixed Pine  | Density Log  |                     |                                    |  | Selection   | White Pine, Mixed<br>Deciduous   |                                      |
| <u>Spec</u><br>Other<br>Com<br><u>Next</u><br>Steps<br>Propo                                | <u>s:</u><br>r_<br>ments:<br>None n<br><u>s:</u><br>sed_   | eeded.  | Mixed Pine  | Density Log  |                     |                                    |  | Selection   | White Pine, Mixed<br>Deciduous   |                                      |
| Spec<br>Other<br>Com  | <u>s:</u><br>r_<br>ments:<br>None n<br><u>s:</u><br>sed_   | eeded.<br>013   | Mixed Pine  | Density Log  | ow qual             |                                    |  | Selection   | White Pine, Mixed<br>Deciduous   |                                      |
| Spec<br>Othe<br>Com<br>Next<br>Steps<br>Propo<br>Start I                                    | <u>s:</u><br><u>ments:</u><br>None n<br><u>s:</u><br><u>sed</u><br><u>Date:</u> 10/01/20<br>610041111-Cut<br>cription_ 3rd-row                               | eeded.<br>013<br>: 19.2                                   | Mixed Pine<br>ch of the aspen and<br>ch of the aspen and<br>define<br>white Pine            | Density Loo<br>damaged or I<br>High<br>Density Loo                 | ow qual             | ity trees of                       | other species; re                              | Selection<br>esidual BA about 10<br>Systematic<br>Thinning                        | White Pine, Mixed<br>Deciduous<br>00, but variable.<br>42101 - Planted<br>White Pine, Mixed              | Proposal<br>Cmpt. Review<br>Proposal |
| Spec<br>Other<br>Comi<br>Next<br>Steps<br>Propo<br>Start I<br>111<br>Preso<br>Spec<br>Other | <u>s:</u><br><u>ments:</u><br><u>Sed</u><br><u>Date:</u> 10/01/20<br>61004111-Cut<br><u>cription</u> 3rd-row<br><u>s:</u>                                    | eeded.<br>013<br>: 19.2<br>/ thin the wh                  | Mixed Pine<br>ch of the aspen and<br>ch of the aspen and<br>define<br>white Pine            | Density Loo<br>damaged or I<br>High<br>Density Loo<br>nove much of | 50<br>50<br>the asp | ity trees of<br>200+<br>en. Retain | other species; re<br>Harvest<br>hardwoods as n | Selection<br>esidual BA about 10<br>Systematic<br>Thinning<br>nuch as possible, e | White Pine, Mixed<br>Deciduous<br>00, but variable.<br>42101 - Planted<br>White Pine, Mixed<br>Deciduous | Proposal<br>Cmpt. Review<br>Proposal |
| Spec<br>Other<br>Comi<br>Next<br>Steps<br>Propo<br>Start I<br>111<br>Preso<br>Spec<br>Other | s:<br><u>ments:</u><br>None n<br><u>sed</u><br><u>Date:</u> 10/01/20<br>61004111-Cut<br>cription 3rd-row<br>s:<br><u>r</u> The go<br><u>ments:</u><br>None n | eeded.<br>013<br>: 19.2<br>/ thin the wh<br>al is to move | Mixed Pine<br>ch of the aspen and<br>42100 - Planted<br>White Pine<br>ite pine and also rem | Density Loo<br>damaged or I<br>High<br>Density Loo<br>nove much of | 50<br>50<br>the asp | ity trees of<br>200+<br>en. Retain | other species; re<br>Harvest<br>hardwoods as n | Selection<br>esidual BA about 10<br>Systematic<br>Thinning<br>nuch as possible, e | White Pine, Mixed<br>Deciduous<br>00, but variable.<br>42101 - Planted<br>White Pine, Mixed<br>Deciduous | Proposal<br>Cmpt. Review<br>Proposal |

| S<br>t   |   | -   | Traverse   | City Mgt. Unit   | Tab  |   |  | ents Prescri<br>ing Factor   | bed   | Compartment: 004<br>Year of Entry 2014  | DNR DNR   |  |
|--|---|---|--|--|--|---|--|--|---|---|---|--|
| a<br>n<br>d  | Treatm<br>Nam   |   | Acres  | CoverType  | Size<br>Density  | Stand<br>Age  | BA<br>Range  | Treatment<br>Type  | Treatment<br>Method   | Cover Type<br>Objective   | Approval<br>Status  |  |
| 112  | 6100411   | 2-Cut   | 12.9   | 42101 - Planted<br>White Pine, Mixed<br>Deciduous  | High<br>Density Log  | 54<br>9   | 141-170  | Harvest  | Systematic<br>Thinning  | 42101 - Planted<br>White Pine, Mixed<br>Deciduous   | Cmpt. Review<br>Proposal  |  |
| Prescr<br>Specs:   |   | d-row t   | nin the wh   | hite pine and cut muc  | h of the aspe  | n. Retai  | in hardwood  | ds and red pine  | as much as possib   | le, especially better qua   | ality stems.  |  |
| <u>Other</u><br>Comm   |   | ne goal   | is to mov  | ve the stand toward a  | more natural   | uneven  | -aged mix o  | f pine and hard  | wood.   |   |   |  |
| <u>Next</u><br>Steps:  |   | one nee   | eded.  |  |  |   |  |  |   |   |   |  |
| Propose<br>Start Da  |   | /01/201   | 3  |  |  |   |  |  |   |   |   |  |
| 114  | 6100411   | 4-Cut   | 15.4   | 4133 - Aspen,<br>Mixed Pine  | High<br>Density Log  | 60<br>3   | 111-140  | Harvest  | Low Thinning  | 4191 - Mixed<br>Upland Deciduous<br>with Conifer  | Cmpt. Review<br>Proposal  |  |
| Prescr<br>Specs:   |   |   | 0,   | targeting low quality h<br>e possible.   | ardwoods an  | d much  | of the aspe  | n. Row thin pin  | e patches as possi  | ble. Release advanced   | d hardwood  |  |
| <u>Other</u>   |   |   |  |  |  |   | 0  | •  |   | ore Trail passes throug   | h the stand;  |  |
| <u>Comm</u><br><u>Next</u>   | N   | 0   |  | ke place east of trail.  | •••••  |   | ract specin  | cations to prote   | ci ine rec. iran.   |   |   |  |
| <u>Steps:</u>  |   |   | eueu. Ke   | generation progress s  | should be che  | cked at   | next invent  | ory cycle.   |   |   |   |  |
|  | ed_   | /01/201   |  | generation progress s  | hould be che   | cked at   | next invent  | ory cycle.   |   |   |   |  |
| Propose<br>Start Da  | ed_   | /01/201   |  | generation progress s<br>4110 - Sugar Maple<br>Association   | High Density Log   | 78  | next invent  | ory cycle.<br>Harvest  | Single Tree<br>Selection  | 4110 - Sugar Maple<br>Association   | Cmpt. Review<br>Proposal  |  |
| 115<br>Prescr  | <u>ed</u><br>ate: 10,<br>6100411:<br>iption M   | /01/201<br><b>5-Cut</b><br>ark for I  | 3<br>93.2<br>harvest w   | 4110 - Sugar Maple<br>Association  | High<br>Density Log<br>bout 90. Cre  | 78<br>g<br>ate som  | 111-140<br>e CWD dur   | Harvest  | Selection   | <b>0</b>  | Proposal  |  |
| tart Da<br>115<br>Prescr<br>Specs:<br>Other  | ed<br>ate: 10.<br>6100411<br>iption M<br>: ca<br>Sl   | /01/201<br>5-Cut<br>ark for I<br>avity tree   | 3<br>93.2<br>harvest w<br>es, and s<br>Shore Tra   | 4110 - Sugar Maple<br>Association<br>/ith a residual BA of al<br>carce species (elm, y   | High<br>Density Log<br>bout 90. Cre<br>ellow birch, c  | 78<br>3<br>ate som<br>onifers).                                   | 111-140<br>e CWD dur   | Harvest  | Selection<br>rations. Retention   | Association   | Proposal<br>producing trees,                                    |  |
| 115<br>Prescr<br>Specs:<br>Other   | ed<br>ate: 10,<br>6100411:<br>iption M<br>: ca<br>SI<br>eents: sp   | /01/201<br>5-Cut<br>ark for I<br>avity tree   | 3<br>93.2<br>harvest w<br>es, and so<br>Shore Tra<br>ions to pr                                      | 4110 - Sugar Maple<br>Association<br>/ith a residual BA of al<br>carce species (elm, y<br>ail abuts part of the st   | High<br>Density Log<br>bout 90. Cre<br>ellow birch, c  | 78<br>3<br>ate som<br>onifers).                                   | 111-140<br>e CWD dur   | Harvest  | Selection<br>rations. Retention   | Association should focus on mast p  | Proposal<br>producing trees,                                    |  |
| 115<br>Prescr<br>Specs<br>Other<br>Comm  | ed<br>ate: 10,<br>6100411:<br>iption M<br>cc<br>SI<br>ients: sp<br>N<br>ed  | /01/201<br>5-Cut<br>ark for l<br>avity tre-<br>nore-to-<br>becificat  | 3<br>93.2<br>harvest w<br>es, and s<br>Shore Tra<br>ions to pr<br>eded.                              | 4110 - Sugar Maple<br>Association<br>/ith a residual BA of al<br>carce species (elm, y<br>ail abuts part of the st   | High<br>Density Log<br>bout 90. Cre<br>ellow birch, c  | 78<br>3<br>ate som<br>onifers).                                   | 111-140<br>e CWD dur   | Harvest  | Selection<br>rations. Retention   | Association should focus on mast p  | Proposal<br>producing trees,                                    |  |
| 115<br>Prescr<br>Specs:<br>Other<br>Comm<br>Next<br>Steps:<br>Proposi<br>Start Da  | ed<br>ate: 10,<br>6100411:<br>iption M<br>cc<br>SI<br>ients: sp<br>N<br>ed  | /01/201<br>5-Cut<br>ark for l<br>avity tre-<br>hore-to-<br>becificat<br>one nee<br>/01/201                      | 3<br>93.2<br>harvest w<br>es, and s<br>Shore Tra<br>ions to pr<br>eded.                              | 4110 - Sugar Maple<br>Association<br>/ith a residual BA of al<br>carce species (elm, y<br>ail abuts part of the st   | High<br>Density Log<br>bout 90. Cre<br>ellow birch, c  | 78<br>g<br>ate som<br>onifers).<br>marking<br>60                  | 111-140<br>e CWD dur   | Harvest  | Selection<br>rations. Retention   | Association should focus on mast p  | Proposal<br>producing trees,                                    |  |
| 1115<br>Prescr<br>Specs:<br>Other<br>Comm<br>Next<br>Steps:<br>tropose<br>trart Da | ed<br>ate: 10.<br>6100411:<br>iption M<br>: ca<br>sp<br>ents: sp<br>N<br>ed<br>ate: 10.<br>6100411:<br>iption H         | /01/201<br>5-Cut<br>ark for l<br>avity tre-<br>hore-to-<br>becificat<br>one nee<br>/01/201<br>6-Cut<br>arvest r | 3<br>93.2<br>harvest w<br>es, and s<br>Shore Tra-<br>cions to pr<br>eded.<br>3<br>21.1<br>nost of th | 4110 - Sugar Maple<br>Association<br><i>i</i> ith a residual BA of al<br>carce species (elm, y<br>ail abuts part of the st<br>rotect the rec. trail.<br>4139 - Aspen,<br>Mixed Deciduous                   | High<br>Density Log<br>bout 90. Cre<br>ellow birch, c<br>and - adjust i<br>and - adjust i<br>Density Log<br>ardwoods and | 78<br>g<br>ate som<br>onifers).<br>marking<br>60<br>g<br>d pines, | 111-140<br>e CWD dur<br>near the tra<br>81-110<br>favoring rel | Harvest<br>ing harvest ope<br>ail to accomoda<br>Harvest<br>Harvest<br>ease/advancem | Selection<br>rations. Retention<br>te visual concerns.<br>Shelter Wood<br>with Reserves | Association<br>should focus on mast p<br>Use appropriate contra<br>4117 - Mixed N.                    | Proposal<br>producing trees,<br>act<br>Cmpt. Review<br>Proposal |  |
| 1115<br>Prescr<br>Specs:<br>Other<br>Comm<br>Next<br>Steps:<br>tropose<br>tart Da  | ed<br>ate: 10.<br>6100411:<br>iption M<br>: ca<br>sp<br>ents: sp<br>N<br>ed<br>ate: 10.<br>6100411:<br>iption H<br>: du | /01/201<br>5-Cut<br>ark for l<br>avity tre-<br>hore-to-<br>becificat<br>one nee<br>/01/201<br>6-Cut<br>arvest r | 3<br>93.2<br>harvest w<br>es, and s<br>Shore Tra-<br>cions to pr<br>eded.<br>3<br>21.1<br>nost of th | 4110 - Sugar Maple<br>Association<br>/ith a residual BA of al<br>carce species (elm, y<br>ail abuts part of the st<br>rotect the rec. trail.<br>4139 - Aspen,<br>Mixed Deciduous<br>re aspen and select ha | High<br>Density Log<br>bout 90. Cre<br>ellow birch, c<br>and - adjust i<br>and - adjust i<br>Density Log<br>ardwoods and | 78<br>g<br>ate som<br>onifers).<br>marking<br>60<br>g<br>d pines, | 111-140<br>e CWD dur<br>near the tra<br>81-110<br>favoring rel | Harvest<br>ing harvest ope<br>ail to accomoda<br>Harvest<br>Harvest<br>ease/advancem | Selection<br>rations. Retention<br>te visual concerns.<br>Shelter Wood<br>with Reserves | Association<br>should focus on mast p<br>Use appropriate contra<br>4117 - Mixed N.<br>Hardwood - Pine | Proposal<br>producing trees,<br>act<br>Cmpt. Review<br>Proposal |  |

#### Proposed Start Date: 10/01/2013

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| S<br>t                       |                       | Traverse                      | City Mgt. Unit                                   | Tab                       |              |              | ents Prescril<br>ting Factor | bed                      | Compartment: 004<br>Year of Entry 2014           | DNR DNR                  |
|------------------------------|-----------------------|-------------------------------|--|---------------------------|--------------|--------------|------------------------------|--------------------------|--|--------------------------|
| a<br>n<br>d                  | Treatmen<br>Name      | Acres                         | CoverType  | Size<br>Density           | Stand<br>Age | BA<br>Range  | Treatment<br>Type            | Treatment<br>Method      | Cover Type<br>Objective                          | Approval<br>Status       |
| 118                          | 61004118<br>Cut_exp-( |                               | 4111 - S.Maple,<br>Hard Mast<br>Association      | High<br>Density Lo        | 104<br>g     | 111-140      | Harvest                      | Single Tree<br>Selection | 4111 - S.Maple,<br>Hard Mast<br>Association      | Cmpt. Review<br>Proposal |
| <u>Prescri</u><br>Specs:     | -                     | for harvest wi                | th a residual BA of a                            | bout 90. Ret              | ained tre    | ees to inclu | de cavity trees, r           | mast trees, and sc       | arcer species (oak, hen                          | nlock, etc.)             |
| <u>Other</u><br>Comm         | ents:                 |                               |  |                           |              |              |                              |                          |  |                          |
| <u>Next</u><br><u>Steps:</u> | None                  | e needed.                     |  |                           |              |              |                              |                          |  |                          |
| Propose<br>Start Da          |                       | /2013                         |  |                           |              |              |                              |                          |  |                          |
| 119 (                        | 61004119-C            | ut 43.8                       | 4111 - S.Maple,<br>Hard Mast<br>Association      | High<br>Density Lo        | 82<br>g      | 111-140      | Harvest                      | Single Tree<br>Selection | 4111 - S.Maple,<br>Hard Mast<br>Association      | Cmpt. Review<br>Proposal |
| <u>Prescri</u><br>Specs:     | some                  | e CWD during                  |  | Retention sh              | ould incl    | ude some     | mast trees, cavit            | y trees, and scarce      | aps around aspen clone<br>er species such as elm |                          |
| <u>Other</u><br>Comm         |                       |                               |  | ,                         |              |              | ,                            |                          |  |                          |
| <u>Next</u><br><u>Steps:</u> | None                  | e needed.                     |  |                           |              |              |                              |                          |  |                          |
| Propose<br>Start Da          |                       | /2013                         |  |                           |              |              |                              |                          |  |                          |
| 126                          | 61004126<br>salvage   | - 7.5                         | 42100 - Planted<br>White Pine                    | Medium<br>Density<br>Pole | 51           | 111-140      | Harvest                      | Low Thinning             | 42100 - Planted<br>White Pine                    | Cmpt. Review<br>Proposal |
| <u>Prescri</u><br>Specs:     |                       | est all pine da               | maged during 3/2/20                              | 12 snowstorr              | n, plus a    | iny addition | al trees needed              | to facilitate harves     | t of damaged timber.                             |                          |
| <u>Other</u><br>Comm         |                       | d will be entere<br>re risks. | ed earlier than the re                           | st of the treat           | tments ir    | n the comp   | artment, per the             | "Chapter 7" review       | <i>r</i> process, to reduce bar                  | k beetle and             |
| <u>Next</u><br>Steps:        |                       | e needed. Mor                 | nitor the stand in com                           | ning years for            | r bark be    | etle damaç   | ge.                          |                          |  |                          |
| Propose<br>Start Da          |                       | /2012                         |  |                           |              |              |                              |                          |  |                          |
| 129 (                        | 61004129-C            | ut 17.7                       | 4191 - Mixed<br>Upland Deciduous<br>with Conifer | High<br>Density<br>Pole   | 54           | 141-170      | Harvest                      | Systematic<br>Thinning   | 4191 - Mixed<br>Upland Deciduous<br>with Conifer | Cmpt. Review<br>Proposal |
| <u>Prescri</u><br>Specs:     |                       | thin the larger               | patches of white pin                             | e within the p            | parent st    | and.         |                              |                          |  |                          |
| <u>Other</u><br>Comm         |                       | e some smalle                 | er patches of pine un                            | thinned for w             | ildlife co   | ver.         |                              |                          |  |                          |
| <u>Next</u><br>Steps:        | None                  | e needed.                     |  |                           |              |              |                              |                          |  |                          |
| Propose<br>Start Da          |                       | /2013                         |  |                           |              |              |                              |                          |  |                          |
|                              |                       |                               |  |                           |              |              |                              |                          |  |                          |

| S<br>t                |                      | Traverse                | Tab  |                         |              | ents Prescril<br>ting Factor | bed               | Compartment: 004<br>Year of Entry 2014 | 19/ 54 1                          |                          |
|-----------------------|----------------------|-------------------------|--|-------------------------|--------------|------------------------------|-------------------|--|-----------------------------------|--------------------------|
| a<br>n<br>d           | Treatment<br>Name    | Acres                   | CoverType                                    | Size<br>Density         | Stand<br>Age | BA<br>Range                  | Treatment<br>Type | Treatment<br>Method                    | Cover Type<br>Objective           | Approval<br>Status       |
| 130                   | 61004130-<br>salvage | 31.3                    | 42110 - Planted<br>Red Pine                  | Medium<br>Density Log   | 51<br>g      | 111-140                      | Harvest           | Low Thinning                           | 42110 - Planted<br>Red Pine       | Cmpt. Review<br>Proposal |
| Prescr<br>Specs       |                      | all pine da             | maged during 3/2/201                         | 2 snowstorn             | n, plus a    | any addition                 | al trees needed   | to facilitate harvest                  | of damaged timber.                |                          |
| <u>Other</u><br>Comm  |                      | vill be enter<br>risks. | ed earlier than the res                      | t of the treat          | ments i      | n the comp                   | artment, per the  | "Chapter 7" review                     | process, to reduce ba             | rk beetle and            |
| <u>Next</u><br>Steps: | None n               |                         | nitor the stand in com                       | ing years for           | bark be      | etle damaç                   | je.               |  |                                   |                          |
| Propos<br>Start Da    |                      | )12                     |  |                         |              |                              |                   |  |                                   |                          |
| 139                   | 61004139-Cut         | 13.0                    | 4110 - Sugar Maple<br>Association            | High<br>Density Log     | 85<br>9      | 111-140                      | Harvest           | Single Tree<br>Selection               | 4110 - Sugar Maple<br>Association | Cmpt. Review<br>Proposal |
| Prescr<br>Specs       |                      |                         | ith a residual BA of at nted species.        | oout 90. Cre            | ate som      | e CWD du                     | ring harvest oper | rations. Retain son                    | ne mast trees, cavity tr          | ees, conifers,           |
| <u>Other</u><br>Comm  | ents:                |                         |  |                         |              |                              |                   |  |                                   |                          |
| <u>Next</u><br>Steps: | None n               | eeded.                  |  |                         |              |                              |                   |  |                                   |                          |
| Propos<br>Start Da    |                      | )13                     |  |                         |              |                              |                   |  |                                   |                          |
| 140                   | 61004140-Cut         | 6.4                     | 42100 - Planted<br>White Pine                | High<br>Density<br>Pole | 50           | 171-200                      | Harvest           | Systematic<br>Thinning                 | 42100 - Planted<br>White Pine     | Cmpt. Review<br>Proposal |
| Prescr<br>Specs       | · · · · ·            | thin. Reta              | in deciduous trees as                        |                         | ssible fo    | or within-sta                | nd diversity.     |  |                                   |                          |
| <u>Other</u><br>Comm  | -                    |                         |  |                         |              |                              |                   |  |                                   |                          |
| <u>Next</u><br>Steps: | None n               | eeded.                  |  |                         |              |                              |                   |  |                                   |                          |
| Propos<br>Start Da    |                      | 013                     |  |                         |              |                              |                   |  |                                   |                          |
| 141                   | 61004141-Cut         | 9.2                     | 4319 - Mixed<br>Upland Forest                | High<br>Density Log     | 56<br>9      | 141-170                      | Harvest           | Low Thinning                           | 4319 - Mixed<br>Upland Forest     | Cmpt. Review<br>Proposal |
| Prescr<br>Specs       |                      |                         | focusing removal on lo<br>ome CWD during har |                         |              | Aim for a re                 | esidual BA of abo | out 120 in pine patc                   | hes and 90 in hardwoo             | od dominated             |
| <u>Other</u><br>Comm  | •                    | al is to mov            | e this stand toward a                        | more natural            | , uneve      | n-aged mix                   | of pine and harc  | dwoods.                                |                                   |                          |
| <u>Next</u><br>Steps: | None n               | eeded.                  |  |                         |              |                              |                   |  |                                   |                          |
| Propos<br>Start Da    | <u>ed</u>            | 013                     |  |                         |              |                              |                   |  |                                   |                          |
| 145                   | 61004145-Cut         | 41.4                    | 42110 - Planted<br>Red Pine                  | High<br>Density<br>Pole | 50           | 171-200                      | Harvest           | Systematic<br>Thinning                 | 42110 - Planted<br>Red Pine       | Cmpt. Review<br>Proposal |
| Prescr<br>Specs       |                      | thin. Reta              | in scattered hardwood                        |                         |              |                              |                   |  |                                   |                          |
| <u>Other</u><br>Comm  | ents:                |                         |  |                         |              |                              |                   |  |                                   |                          |
| <u>Next</u><br>Steps: | None n               | eeded.                  |  |                         |              |                              |                   |  |                                   |                          |
| Propos                | ed_                  |                         |  |                         |              |                              |                   |  |                                   |                          |

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#### Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 004 Year of Entry 2014 DNR DNR

| s<br>t                      |                           |                              |   |                                   | with                |              | ing racio                |                               |   | DNR DNR                  |
|-----------------------------|---------------------------|------------------------------|---|-----------------------------------|---------------------|--------------|--------------------------|-------------------------------|---|--------------------------|
| a<br>n<br>d                 | Treatment<br>Name         | Acres                        | CoverType                                       | Size<br>Density                   | Stand<br>Age        | BA<br>Range  | Treatment<br>Type        | Treatment<br>Method           | Cover Type<br>Objective                         | Approval<br>Status       |
| 148                         | 61004148-Cut              | 21.0                         | 4112 - Maple,<br>Beech, Cherry<br>Association   | High<br>Density Log               |                     | 111-140      | Harvest                  | Group Selection               | 4112 - Maple,<br>Beech, Cherry<br>Association   | Cmpt. Review<br>Proposal |
| Presc<br>Specs              |                           |                              | cusing on reduction of<br>clude some mast tree  |                                   |                     |              | ut 80-90. Create         | some CWD during               | harvest, away from t                            | he road.                 |
| <u>Other</u><br>Comn        |                           |                              |   |                                   |                     |              |                          |                               |   |                          |
| <u>Next</u><br>Steps        |                           | eded. Mixe                   | d hardwood regenera                             | ation is desire                   | ed in car           | nopy gaps,   | although an initia       | al dominance of bee           | ech and ironwood is lil                         | kely.                    |
| Propos<br>Start D           |                           | 13                           |   |                                   |                     |              |                          |                               |   |                          |
| 152                         | 61004152-Cut              | 3.6                          | 4112 - Maple,<br>Beech, Cherry<br>Association   | High<br>Density Log               | 97                  | 81-110       | Harvest                  | Shelter Wood<br>with Reserves | 4112 - Maple,<br>Beech, Cherry<br>Association   | Cmpt. Review<br>Proposal |
| <u>Presc</u><br>Specs       |                           | -50 BA of m                  | nixed hardwoods to re                           | etain, cut all o                  | other tre           | es. Create   | e some CWD dur           | ing harvest.                  |   |                          |
| <u>Other</u><br>Comn        |                           |                              |   |                                   |                     |              |                          |                               |   |                          |
| <u>Next</u><br><u>Steps</u> | ikely. C                  | Other specie                 |   | ably longer to                    |                     |              |                          |                               | , but initial dominance<br>red pine might be an |                          |
| Propos<br>Start D           |                           | 13                           | -   |                                   |                     |              |                          |                               |   |                          |
| 15                          | 61004015-<br>Prep         | 7.3                          | 4130 - Aspen                                    | Low<br>Density<br>Sapling         | 15                  |              | Site Prep                | Trenching                     | 42110 - Planted<br>Red Pine                     | Cmpt. Review<br>Proposal |
| Presc<br>Specs              |                           | site mecha                   | nically (e.g. trenching                         | g) for subseq                     | uent pla            | inting.      |                          |                               |   |                          |
| <u>Other</u><br>Comn        | Propose<br>nents: may hav | ed area is a<br>/e to be don | very sparsely regene<br>e with local rather the | erated patch i<br>an district res | n a 199<br>sources. | 7 clearcut s | stand. Because o         | of small acreage an           | d isolation, trenching                          | and planting             |
| <u>Next</u><br>Steps        |                           | nite spruce.                 |   |                                   |                     |              |                          |                               |   |                          |
| Propos<br>Start D           |                           | 13                           |   |                                   |                     |              |                          |                               |   |                          |
| 14                          | NF_61004014-<br>NonFor    | 32.9                         | 3301 - Low Density<br>Deciduous Trees           |                                   |                     |              | Non-Forest<br>Management | Brush Cutting                 | 3205 - Mixed<br>Upland Shrub                    | Cmpt. Review<br>Proposal |
| Presc<br>Specs              |                           |                              | l woody encroachme<br>vildlife food and cove    |                                   |                     |              |                          | y. Leave scattered            | mast producing trees                            | and shrubs               |
| <u>Other</u><br>Comn        |                           |                              |   |                                   |                     |              |                          |                               |   |                          |
| <u>Next</u><br>Steps        |                           |                              |   |                                   |                     |              |                          |                               |   |                          |
| Propos<br>Start D           |                           | ied                          |   |                                   |                     |              |                          |                               |   |                          |

| S<br>t                           |                       | Traverse | City Mgt. Unit                                     | Tab             |              |             | ents Prescribe<br>ting Factor | Compartment: 004<br>Year of Entry 2014 | ATCHINA M.                   |                          |
|----------------------------------|-----------------------|----------|--|-----------------|--------------|-------------|-------------------------------|--|------------------------------|--------------------------|
| a<br>n<br>d                      | Treatment<br>Name     | Acres    | CoverType  | Size<br>Density | Stand<br>Age | BA<br>Range | Treatment<br>Type             | Treatment<br>Method                    | Cover Type<br>Objective      | Approval<br>Status       |
| 104 NI                           | F_61004104-<br>NonFor | 20.3     | 3301 - Low Density<br>Deciduous Trees              |                 |              |             | Non-Forest<br>Management      | Brush Cutting                          | 3205 - Mixed<br>Upland Shrub | Cmpt. Review<br>Proposal |
| <u>Prescrip</u><br><u>Specs:</u> |                       |          | ell woody encroachment<br>wildlife food and cover. |                 |              |             |                               | Leave scattere                         | d mast producing trees       | and shrubs               |
| <u>Other</u><br>Comme            | nts:                  |          |  |                 |              |             |                               |  |                              |                          |
| <u>Next</u><br><u>Steps:</u>     |                       |          |  |                 |              |             |                               |  |                              |                          |
| Proposed<br>Start Dat            |                       | ed       |  |                 |              |             |                               |  |                              |                          |

Total Treatment Acreage Proposed: 850.9

| S<br>t               |                                | Traverse Cit | y Mgt. Unit | Table 4         |              | atments<br>imiting | s Prescribed<br>Factor | Compartment: 004<br>Year of Entry 2014 | DNR DURCH               |                    |
|----------------------|--------------------------------|--------------|-------------|-----------------|--------------|--------------------|------------------------|--|-------------------------|--------------------|
| a<br>n<br>d          | Treatment<br>Name              | Acres        | CoverType   | Size<br>Density | Stand<br>Age | BA<br>Range        | Treatment<br>Type      | Treatment<br>Method                    | Cover Type<br>Objective | Approval<br>Status |
|                      |                                |              | #Error      |                 |              |                    |                        |  |                         |                    |
| Presc<br>Spece       | ription<br><u>s:</u>           |              |             |                 |              |                    |                        |  |                         |                    |
| <u>Other</u><br>Comr |                                |              |             |                 |              |                    |                        |  |                         |                    |
| <u>Next</u><br>Steps | <u>:</u>                       |              |             |                 |              |                    |                        |  |                         |                    |
| Propos<br>Start D    |                                |              |             |                 |              |                    |                        |  |                         |                    |
|                      | ng Factor and N<br>ment Reason | <u>lo</u>    |             |                 |              |                    |                        |  |                         |                    |
| Ac                   | Total Treatme<br>creage Propos |              |             |                 |              |                    |                        |  |                         |                    |

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

Year of Entry: 2014

OF NATURA

DNR

| Treat<br>Na                  | ment<br>me           | Acres       | CoverType                                | Size<br>Density | Stand<br>Age | BA<br>Range  | Treatment<br>Type | Treatment<br>Method       | Cover Type<br>Objective | Approval<br>Status                       |
|------------------------------|----------------------|-------------|--|-----------------|--------------|--------------|-------------------|---------------------------|-------------------------|--|
|                              | OutOfY<br>∙Cut       | 2.1         |  |                 |              |              | Harvest           | Clearcut with<br>Reserves | 4131 - Aspen, Oak       | Cmpt. Review<br>Proposal -<br>Incomplete |
| Prescription<br>Specs:       | retain sor           | me pine an  | d osk for mast and se                    | eed producti    | on, Follio   | ow WLD gu    | uidance for CWD   | creation. Harvest         | all stems that are not  | retained.                                |
| <u>Other</u><br>Comments:    | New stan             | d should h  | ave mix of oak, pine,                    | aspen and ı     | maple.       |              |                   |                           |                         |  |
| <u>Next</u><br>Steps:        |                      |             |  |                 |              |              |                   |                           |                         |  |
| Proposed<br>Start Date:      | 09/01/200            | 09          |  |                 |              |              |                   |                           |                         |  |
|                              | OutOfY<br>Thin       | 4.6         |  |                 | 0            |              | Harvest           | Low Thinning              | 4122 - Oak, Pine        | Cmpt. Review<br>Proposal                 |
|                              |                      |             | , remove all aspen. H<br>etention goals. | eavily thin o   | ak and n     | naple to a i | residual BA of ab | oout 50 sf. Leave re      | tention in patches or s | trips sufficient                         |
| <u>Other</u><br>Comments:    | Topograp             | hy is rathe | r hilly. Combine with                    | treatment in    | Compai       | rtment 133   |                   |                           |                         |  |
| <u>Next</u><br><u>Steps:</u> |                      |             |  |                 |              |              |                   |                           |                         |  |
| Proposed<br>Start Date:      | 10/01/20 <i>1</i>    | 13          |  |                 |              |              |                   |                           |                         |  |
| Total T<br>Acreage F         | reatment<br>Proposed |             | 7  |                 |              |              |                   |                           |                         |  |

| S<br>t      | Traverse City                                  | Traverse City Mgt. Unit |       |              | ested Sta   | nds Compartment: 004<br>Year of Entry: 2014  |
|-------------|--|-------------------------|-------|--------------|-------------|--|
| a<br>n<br>d | Level 4<br>Cover Type                          | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:   |
| 1           | 42220 - Natural Jack<br>Pine                   | Medium<br>Density Pole  | 5.4   | 30           |             | Stand consists primarily of pines which seeded into an old field/orchard from adjacent plantations.  |
| 2           | 42110 - Planted Red<br>Pine                    | Medium<br>Density Log   | 97.2  | 66           | 141-170     | Stand was thinned in 2007, removing multi-stemmed red pine,<br>and most of the jack pine except a few rows toward the south<br>end left for habitat diversity. There are several open areas and<br>younger re-planted patches within the stand where there were<br>failures of the original planting. About 6 acres at the extreme<br>south end was planted in 1957. |
| 3           | 42140 - Planted Mixed<br>Pine                  | Medium<br>Density Pole  | 6.9   | Uneven Age   | 51-80       | Appears to be a replant of a failed plantation, plus volunteer pines and encroaching hardwoods.  |
| 5           | 42220 - Natural Jack<br>Pine                   | Medium<br>Density Pole  | 13.3  | 43           |             | Stand consists primarily of pines which seeded into an old field/orchard from adjacent plantations. Small patch of black locust poles in NW corner.  |
| 6           | 4112 - Maple, Beech,<br>Cherry Association     | High Density<br>Log     | 9.3   | 97           | 141-170     | Stand includes some patches of planted white pine and a few red pine.  |
| 7           | 42101 - Planted White<br>Pine, Mixed Deciduous | Medium<br>Density Pole  | 12.6  | 56           | 111-140     | Thinned fall 2006.   |
| 8           | 42110 - Planted Red<br>Pine                    | High Density<br>Pole    | 54.6  | 45           | 171-200     | Evidence of past erosion. Some jack pine poles along west edge of stand.   |
| 9           | 4112 - Maple, Beech,<br>Cherry Association     | Medium<br>Density Log   | 44.5  | 78           | 111-140     | Stand was thinned in 2006. Good flush of beech and red maple seedlings as a result of thinning. Scattered understory hemlock.  |
| 11          | 4110 - Sugar Maple<br>Association              | Low Density<br>Pole     | 17.8  | 47           | 1-50        | Old field reverting to forest.   |
| 13          | 4112 - Maple, Beech,<br>Cherry Association     | Medium<br>Density Log   | 13.3  | 79           | 111-140     | Low quality stand, numerous multi-stemmed trees. Aspen is mostly custered near the middle of the stand.  |
| 15          | 4130 - Aspen                                   | Low Density<br>Sapling  | 34.1  | 15           |             | Regeneration is patchy, thick in places, but with large areas of failed regeneration, especially at the NW and SE ends of the stand.   |
| 17          | 4130 - Aspen                                   | Medium<br>Density       | 12.7  | 15           |             |  |
| 19          | 42101 - Planted White<br>Pine, Mixed Deciduous | Medium<br>Density Pole  | 9.4   | 55           | 81-110      | Row thinned in 2006.   |
| 20          | 4199 - Other Mixed<br>Upland Deciduous         | High Density<br>Log     | 21.4  | 45           | 81-110      | Heterogenous mix of trees on hills adjoining Garey Lake. Aspen<br>is in scattered clones. Many of the large diameter white pine and<br>sugar maple, as well as the black locust, were likely planted<br>around an old farmstead. Scattered red oak, hemlock. Black<br>locust is in a dense patch at the north end.   |
| 23          | 42100 - Planted White<br>Pine                  | Medium<br>Density Pole  | 17.5  | 55           | 81-110      | Row thinned in 2006.   |

| S<br>t      | Traverse Cit                                     | y Mgt. Unit           |       | 5 – For      | rested Sta  | Ands Compartment: 004<br>Year of Entry: 2014  |
|-------------|--|-----------------------|-------|--------------|-------------|---|
| a<br>n<br>d | Level 4<br>Cover Type                            | Size<br>Density       | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
| 25          | 4112 - Maple, Beech,<br>Cherry Association       | Medium<br>Density Log | 85.3  | 105          | 81-110      | Thinned in 2006.  |
| 26          | 4111 - S.Maple, Hard<br>Mast Association         | Medium<br>Density Log | 20.6  | 111          | 81-110      | Regen holes created in a previous thinning are full of beech<br>saplings. Many 18"+ trees are of low quality. Steep slopes.<br>Small numbers of white ash, yellow birch, black cherry.  |
| 27          | 6117 - Lowland<br>Deciduous, Mixed<br>Coniferous | Medium<br>Density Log | 9.2   | Uneven Age   |             | Small numbers of tamarack, black spruce, and cedar.   |
| 28          | 42100 - Planted White<br>Pine                    | High Density<br>Pole  | 8.6   | 55           | 171-200     |   |
| 29          | 4130 - Aspen                                     | High Density<br>Log   | 5.5   | 86           |             | Some mortality/blowdown in aspen, but relatively sound for its age. Small number of hemlock, white pine, beech and yellow birch canopy trees.   |
| 31          | 4111 - S.Maple, Hard<br>Mast Association         | High Density<br>Log   | 43.0  | 96           | 111-140     | Rolling terrain. Stand has several small openings (regen. gaps from previous harvest) and wetland inclusions. Some paper birch, hemlock, and white pine.  |
| 32          | 4112 - Maple, Beech,<br>Cherry Association       | High Density<br>Log   | 74.2  | 62           | 111-140     | Low quality timber, numerous multi-stemmed trees. Some<br>mortality/blowdown in aspen. There is a small patch of planted<br>white spruce at the NW end of the stand. The stand generally<br>follows a shallow valley which is probably a cold air sink that<br>inhibits tree growth; trees are denser, better quality on hills and<br>ridges. |
| 33          | 4130 - Aspen                                     | Medium<br>Density     | 13.2  | 18           |             |   |
| 35          | 4130 - Aspen                                     | High Density<br>Pole  | 55.2  | 38           |             | Scattered older beech.  |
| 39          | 4116 - Mixed N.<br>Hardwood - Aspen              | High Density<br>Pole  | 33.2  | 55           | 81-110      | Stand has scattered older hardwoods including some big beech.   |
| 40          | 4112 - Maple, Beech,<br>Cherry Association       | High Density<br>Log   | 42.5  | 74           | 111-140     | Scattered big, older hardwoods.   |
| 41          | 4112 - Maple, Beech,<br>Cherry Association       | High Density<br>Log   | 462.2 | 88           | 141-170     | Paper birch is dying out. Aspen is in scattered clones, some<br>mortality. Some white pine and hemlock. Rolling terrain,<br>numerous depressions, steep slopes in places.   |
| 45          | 4130 - Aspen                                     | High Density<br>Pole  | 12.7  | 26           |             | Scattered beech and paper birch. Small area of wetland in SW corner.  |
| 46          | 4130 - Aspen                                     | High Density<br>Pole  | 15.5  | 38           |             |   |
| 47          | 4112 - Maple, Beech,<br>Cherry Association       | Medium<br>Density Log | 73.7  | 71           | 81-110      | Stand was heavily thinned in 2006. A heavy flush of hardwood regen. resulted from the thinning in open gaps: mostly beech, some cherry and ironwood, and aspen in patches. There are also some patches of fairly well developed sugar maple saplings.   |

| S<br>t      | Traverse City                              | Traverse City Mgt. Unit |       |              | ested Sta   | nds Compartment: 004<br>Year of Entry: 2014   |
|-------------|--|-------------------------|-------|--------------|-------------|---|
| a<br>n<br>d | Level 4<br>Cover Type                      | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
| 50          | 42200 - Natural White<br>Pine              | Low Density<br>Log      | 17.4  | 39           | 1-50        | Trees slowly reclaiming an old clearing. Pines are limby, open-<br>grown. Hilly.  |
| 51          | 4112 - Maple, Beech,<br>Cherry Association | Medium<br>Density Log   | 13.3  | 85           | 81-110      | Stand was thinned in 2006, resulting in a heavy flush of beech seedlings and raspberry/blackberry. Good quality red maple.  |
| 52          | 4119 - Mixed Northern<br>Hardwoods         | High Density<br>Log     | 4.6   | 103          | 141-170     | Many large, hollow beech.   |
| 56          | 4116 - Mixed N.<br>Hardwood - Aspen        | Medium<br>Density Log   | 15.7  | Uneven Age   | 1-50        | Stand consists of old, open-grown cherry with patches of<br>quaking aspen. Much of the stand has a good stocking of<br>understory sugar maple. There are several small openings.<br>Most of the stand is low-lying and frost-prone. |
| 58          | 42310 - Planted Spruce                     | High Density<br>Pole    | 6.6   | 37           | 81-110      | Thick sugar maple saplings in small canopy gaps. Scattered juneberry and quaking aspen.   |
| <br>59      | 42260 - Natural Pine,<br>Mixed Deciduous   | Low Density<br>Log      | 19.9  | 47           | 1-50        | Trees slowly reclaiming an old clearing. Pines are limby, open-<br>grown. Hilly.  |
| 60          | 4130 - Aspen                               | High Density<br>Pole    | 14.1  | 26           |             | Scattered black cherry and white ash.   |
| 62          | 4110 - Sugar Maple<br>Association          | High Density<br>Log     | 28.1  | 89           | 111-140     | Numerous multi-stemmed and low quality trees, but also many<br>with good potential. Beech scale is present. Aspen is in<br>scattered clones.  |
| 63          | 4130 - Aspen                               | High Density<br>Pole    | 7.7   | 38           |             | Decent quality aspen.   |
| 65          | 4135 - Aspen, Cedar                        | Low Density<br>Log      | 9.7   | 60           |             | Wooded peninsula in Pearl Lake with open shoreline. Small patches of phragmites.  |
| 66          | 4130 - Aspen                               | Medium<br>Density Log   | 11.6  | 50           | 51-80       | Scattered red oak. Hardwood density varies considerably.  |
| 69          | 4119 - Mixed Northern<br>Hardwoods         | High Density<br>Log     | 4.9   | 107          | 111-140     |   |
| 70          | 4311 - Pine, Aspen Mix                     | High Density<br>Log     | 126.8 | Uneven Age   | 81-110      | Stand is on steep slopes adjacent to Pearl Lake, Hartman Lake,<br>Lime Lake and several wetlands. Part of this stand north of<br>Hartman Lake showed 1901 year of origin for white pine in OI.                                      |
| <br>71      | 4110 - Sugar Maple<br>Association          | Medium<br>Density Log   | 50.7  | 99           | 111-140     | Good quality timber.  |
| 73          | 4130 - Aspen                               | High Density<br>Pole    | 18.2  | 38           |             |   |
| 78          | 4110 - Sugar Maple<br>Association          | High Density<br>Pole    | 8.2   | Uneven Age   | 51-80       |   |

| S<br>t      | Traverse Cit                                   | y Mgt. Unit             |       | 5 – For      | ested Sta   | Inds Compartment: 004<br>Year of Entry: 2014   |
|-------------|--|-------------------------|-------|--------------|-------------|--|
| a<br>n<br>d | Level 4<br>Cover Type                          | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:   |
| 79          | 4130 - Aspen                                   | High Density<br>Log     | 3.9   | 60           |             | Wooded island in Pearl Lake with some open shoreline.<br>Grasses, sedges, reeds, and some cedar seedlings cover the<br>open shore areas. There is one big, old cottonwood on the<br>island.          |
| 80          | 4130 - Aspen                                   | Medium<br>Density Pole  | 20.2  | 38           |             | There are scattered individuals\clumps of older aspen and hardwoods along with the pole-sized age class which resulted from a 1974 cut. Stand is succeeding to hardwoods.                            |
| 81          | 4110 - Sugar Maple<br>Association              | Medium<br>Density Log   | 51.1  | 89           | 81-110      | Stand was thinned in 2006, resulting in a heavy flush of rubus<br>and beech in canopy gaps. Aspen is in scattered clones.<br>Scattered dying ash.  |
| 83          | 4130 - Aspen                                   | High Density<br>Log     | 11.5  | Uneven Age   |             | Stand is situated on slopes surrounding a depression. Fair<br>amount of mortality in the aspen. Stand is succeeding to<br>hardwoods, especially the west side of the stand. Scattered<br>white pine. |
| 87          | 4130 - Aspen                                   | High Density<br>Sapling | 37.1  | 17           |             | Stand has several small openings.  |
| 91          | 42110 - Planted Red<br>Pine                    | High Density<br>Log     | 33.3  | 55           | 171-200     | Hardwood regen. is thick in places; mostly beech with some<br>sugar maple, cherry, ironwood, and ash. Narrow strip of<br>deciduous trees along Fowler Rd.  |
| 94          | 4111 - S.Maple, Hard<br>Mast Association       | High Density<br>Log     | 12.6  | 80           | 111-140     | There are beech monitoring plots in the stand. Aspen is dying out. Scattered black cherry.   |
| 95          | 4110 - Sugar Maple<br>Association              | Medium<br>Density Pole  | 6.5   | Uneven Age   | 51-80       | 2-storied stand: sparse, older hardwoods, mostly cherry, with<br>advanced sugar maple regeneration. Scattered white ash, white<br>pine, aspen, and juneberry.  |
| 97          | 4130 - Aspen                                   | High Density<br>Log     | 6.8   | 44           |             | Excellent growth in aspen.   |
| 99          | 4130 - Aspen                                   | High Density<br>Sapling | 10.0  | 17           |             | Scattered while pine saplings and poles.   |
| 101         | 42101 - Planted White<br>Pine, Mixed Deciduous | High Density<br>Log     | 31.5  | 50           | 171-200     | Stand consists of dense blocks of plantation white pine in low areas with intervening patches of aspen & hardwoods. Aspen is declining.  |
| 102         | 4139 - Aspen, Mixed<br>Deciduous               | High Density<br>Log     | 7.3   | 55           | 111-140     | Stand is a heterogenous mix of aspen clones and hardwoods.<br>Beech scale is present.  |
| 108         | 4133 - Aspen, Mixed<br>Pine                    | High Density<br>Log     | 25.5  | 60           | 111-140     |  |
| 109         | 4130 - Aspen                                   | High Density<br>Pole    | 27.8  | 28           |             |  |
| 111         | 42100 - Planted White<br>Pine                  | High Density<br>Log     | 19.2  | 50           | 200+        | Pines have not self-pruned much, fairly limby. NE part of stand has a 1-2 acre hardwood inclusion. Scattered elm.  |

| S<br>t      | Traverse Cit                                   | y Mgt. Unit            |       | 5 – For      | ested Sta   | Ands Compartment: 004<br>Year of Entry: 2014   |
|-------------|--|------------------------|-------|--------------|-------------|--|
| a<br>n<br>d | Level 4<br>Cover Type                          | Size<br>Density        | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:   |
| 112         | 42101 - Planted White<br>Pine, Mixed Deciduous | High Density<br>Log    | 12.9  | 54           | 141-170     | Occassional row of red pine. Some mortality in aspen.  |
| 113         | 4110 - Sugar Maple<br>Association              | Medium<br>Density Log  | 12.7  | 101          | 111-140     | Similar to surrounding hardwood stand, but somewhat older and larger diameters. Some black cherry.   |
| 114         | 4133 - Aspen, Mixed<br>Pine                    | High Density<br>Log    | 21.2  | Uneven Age   | 111-140     | Some mortality in aspen. Succeeding to hardwoods. Stand includes several dense patches of planted white pine.  |
| 115         | 4110 - Sugar Maple<br>Association              | High Density<br>Log    | 278.8 | 78           | 111-140     | Scattered yellow birch, ash, elm. Beech and bigtooth aspen have a patchy distribution.   |
| 116         | 4139 - Aspen, Mixed<br>Deciduous               | Medium<br>Density Log  | 21.1  | Uneven Age   | 81-110      | Scattered large, old sugar maple and white pine. Advanced hardwood understory through much of the stand. Some mortality in the aspen.  |
| 117         | 4130 - Aspen                                   | High Density<br>Pole   | 17.2  | 28           |             | Stand has two inclusions of planted white pine.  |
| 118         | 4111 - S.Maple, Hard<br>Mast Association       | High Density<br>Log    | 134.8 | 104          | 111-140     | Stand has a few scattered regeneration patches. Small numbers of paper birch, hemlock. Good number of snags and cavity trees.  |
| 119         | 4111 - S.Maple, Hard<br>Mast Association       | High Density<br>Log    | 79.0  | 82           | 111-140     | Variable stocking, age, and species mix. Scattered patches of planted white pine; some ash, elm, and hemlock.  |
| 121         | 4110 - Sugar Maple<br>Association              | Medium<br>Density Log  | 25.2  | 103          | 51-80       | Stand was thinned in 2004. Good cherry regeneration in gaps.   |
| 123         | 42110 - Planted Red<br>Pine                    | Medium<br>Density Pole | 50.0  | 50           | 111-140     | Stand was 3rd-row thinned in 2005. Some damage from 3/2/2012 snowstorm, mostly just top 10 feet or so of some trees snapped off. Dense sugar maple regen in scattered patches, otherwise fairly open understory. |
| 124         | 4112 - Maple, Beech,<br>Cherry Association     | High Density<br>Log    | 8.8   | 97           | 111-140     |  |
| 125         | 4199 - Other Mixed<br>Upland Deciduous         | High Density<br>Pole   | 42.2  | 25           | 1-50        | Stand includes several small (<1 acre) openings. Small amounts of red oak, basswood, white ash, white pine.  |
| 126         | 42100 - Planted White<br>Pine                  | Medium<br>Density Pole | 7.5   | 51           | 111-140     | Stand was thinned in 2009, heavily damaged by 3/2/2012<br>snowstorm. Ironwood, beech, and heavily browsed ash<br>seedlings; thick white pine seedlings in some open gaps.  |
| 127         | 4110 - Sugar Maple<br>Association              | Medium<br>Density Log  | 1.1   | 95           | 171-200     | A few beech, hemlock, red maple.   |
| 128         | 4130 - Aspen                                   | Medium<br>Density Log  | 9.0   | Uneven Age   |             | Stand is succeeding to hardwoods.  |

| S<br>t      | Traverse Cit                                  | y Mgt. Unit             |       | 5 – Fo       | prested Sta | nds Compartment: 004<br>Year of Entry: 2014  |
|-------------|---|-------------------------|-------|--------------|-------------|--|
| a<br>n<br>d | Level 4<br>Cover Type                         | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:   |
| 129         | 4191 - Mixed Upland<br>Deciduous with Conifer | High Density<br>Pole    | 44.9  | 54           | 141-170     | Stand is a mosaic of patches of planted white pine, mixed<br>hardwoods, and regenerated aspen. OI records show planting<br>date of 1958 for pine in the north end of the stand, 1962 in the<br>southeast.  |
| 130         | 42110 - Planted Red<br>Pine                   | Medium<br>Density Log   | 34.5  | 51           | 111-140     | Stand was thinned in 2009. Includes a small wetland at the south end of the stand, south of Fowler Rd.   |
| 131         | 4139 - Aspen, Mixed<br>Deciduous              | Medium<br>Density Log   | 17.5  | 56           | 81-110      | Good advanced regeneration of sugar maple throughout much of<br>the stand. Some mortality in aspen, especially quaking aspen.<br>Scattered elm, hemlock, and white pine. There appears to be<br>some variation in aspen ages; Y.O.O. for bigtooth aspen was<br>listed as 1935 in last inventory. |
| 132         | 42110 - Planted Red<br>Pine                   | Medium<br>Density Log   | 5.1   | 51           | 51-80       | Mixed pine plantation; Scotch pine was removed in a 2009<br>harvest. Numerous white and Scotch pine seedlings in open<br>gaps.   |
| 133         | 4199 - Other Mixed<br>Upland Deciduous        | Medium<br>Density Pole  | 31.8  | 48           | 81-110      | Scattered beech, elm, juneberry.   |
| 134         | 4116 - Mixed N.<br>Hardwood - Aspen           | High Density<br>Log     | 10.0  | 69           | 141-170     | Beech scale is present in the stand.   |
| 135         | 4130 - Aspen                                  | High Density<br>Sapling | 16.0  | 18           |             | Substantial bending and breaking from 3/2/2012 snowstorm;<br>black cherry in understory may take over.   |
| 138         | 4111 - S.Maple, Hard<br>Mast Association      | High Density<br>Log     | 4.2   | 87           | 81-110      | Scattered white pine and red maple.  |
| 139         | 4110 - Sugar Maple<br>Association             | High Density<br>Log     | 14.2  | 85           | 111-140     | Small numbers of canopy hemlock, red maple.  |
| 140         | 42100 - Planted White<br>Pine                 | High Density<br>Pole    | 6.4   | 50           | 171-200     |  |
| 141         | 4319 - Mixed Upland<br>Forest                 | High Density<br>Log     | 9.2   | 56           | 141-170     |  |
| 142         | 4130 - Aspen                                  | High Density<br>Log     | 12.2  | 38           |             |  |
| 144         | 4140 - Other Upland<br>Deciduous              | High Density<br>Pole    | 1.2   | 69           | 81-110      | Isolated hardwood patch between red pine plantation and adjacent private land.   |
| 145         | 42110 - Planted Red<br>Pine                   | High Density<br>Pole    | 41.4  | 50           | 171-200     |  |
| 147         | 4111 - S.Maple, Hard<br>Mast Association      | High Density<br>Log     | 37.3  | 104          | 81-110      | Scattered hemlock, white pine and basswood. Numerous old, hollow beech.  |
| 148         | 4112 - Maple, Beech,<br>Cherry Association    | High Density<br>Log     | 21.0  | 105          | 111-140     |  |

| S<br>t      | Traverse Cit                               | y Mgt. Unit             |       | 5 – Fo       | prested Sta | Inds Compartment: 004<br>Year of Entry: 2014  |
|-------------|--|-------------------------|-------|--------------|-------------|---|
| a<br>n<br>d | Level 4<br>Cover Type                      | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
| 150         | 4111 - S.Maple, Hard<br>Mast Association   | High Density<br>Log     | 5.3   | 93           | 81-110      | Aspen is concentrated along the north edge of the stand.  |
| 151         | 4130 - Aspen                               | High Density<br>Pole    | 17.9  | 41           |             | There is a concentration of hardwoods in the SE part of the stand.  |
| 152         | 4112 - Maple, Beech,<br>Cherry Association | High Density<br>Log     | 3.6   | 97           | 81-110      |   |
| 153         | 4139 - Aspen, Mixed<br>Deciduous           | Medium<br>Density       | 10.0  | 8            | 1-50        | Clearcut with residuals in 2004: numerous residual white pines<br>(especially at the south end of the stand) and hardwoods. 2-<br>storied. Patch distribulion of aspen saplings and advanced<br>sugar maple regeneration. |
| 154         | 4130 - Aspen                               | High Density<br>Sapling | 13.5  | 8            |             | Clearcut in 2004, sugar maple and white pine were left as residuals, plus some aspen poles on the periphery, resulting in a 2-storied stand.  |
| 156         | 4319 - Mixed Upland<br>Forest              | Low Density<br>Log      | 6.8   | 54           | 51-80       |   |
| 157         | 4117 - Mixed N.<br>Hardwood - Pine         | Medium<br>Density Log   | 3.6   | 105          | 81-110      | Numerous multi-stemmed maples.  |

#### 6 – Nonforested Stands

Compartment: 004



Year of Entry: 2014

| Stand | Cover Type                        | Acres | Managed<br>Site | Management Priority<br>(Objective) | General Comments:   |
|-------|-----------------------------------|-------|-----------------|------------------------------------|---|
| 4     | 122 - Road/Parking Lot            | 5.3   | No              | Unspecified                        | Pettengill Road   |
| 10    | 3301 - Low Density Deciduous Tree | 14.7  | Yes             | High (NonForested)                 | Garey Lake Trail Camp   |
| 12    | 3102 - Grass                      | 1.1   | No              | Low (NonForested)                  |   |
| 14    | 3301 - Low Density Deciduous Tree | 32.9  | No              | Medium (NonForested)               | Hilly stand. Scattered small blocks of planted red pine.                      |
| 16    | 3103 - Rubus-Fern                 | 2.0   | No              | Low (NonForested)                  | frost hole  |
| 18    | 3102 - Grass                      | 3.7   | Yes             | High (NonForested)                 | Garey Lake State Forest Campground  |
| 21    | 3103 - Rubus-Fern                 | 1.6   | No              | Low (NonForested)                  | Low, frost-prone area. Mostly black cherry, plus a red oak and a sugar maple. |
| 22    | 6229 - Mixed lowland shrub        | 1.4   | No              | Low (NonForested)                  | Exposed shoreline area of Garey Lake. Standing dead trees.                    |
| 24    | 50 - Water                        | 22.8  | No              | Low (NonForested)                  | Garey Lake  |
| 30    | 6239 - Mixed Emergent Wetland     | 1.1   | No              | Low (NonForested)                  | Stand is the ends of two drainages flowing into Garey Lake.                   |
| 34    | 6233 - Wet Meadow                 | 1.6   | No              | Low (NonForested)                  |   |
| 36    | 6224 - Treed Bog                  | 3.2   | No              | Low (NonForested)                  |   |
| 37    | 6239 - Mixed Emergent Wetland     | 1.4   | No              | Low (NonForested)                  | Small pond surrounded by open, grassy shore.                                  |
| 38    | 3301 - Low Density Deciduous Tree | 5.0   | No              | Low (NonForested)                  | old orchard   |
| 42    | 3103 - Rubus-Fern                 | 5.5   | No              | Low (NonForested)                  |   |
| 43    | 6233 - Wet Meadow                 | 11.6  | No              | Low (NonForested)                  | numerous snags  |
| 44    | 3103 - Rubus-Fern                 | 2.0   | No              | Low (NonForested)                  |   |
| 48    | 6233 - Wet Meadow                 | 3.1   | No              | Low (NonForested)                  | some open water   |

#### 6 – Nonforested Stands

Compartment: 004 Year of Entry: 2014



| Stand | Cover Type                        | Acres | Managed<br>Site | Management Priority<br>(Objective) |   |  |
|-------|-----------------------------------|-------|-----------------|------------------------------------|---|--|
| 49    | 3301 - Low Density Deciduous Tree | 2.4   | No              | Low (NonForested)                  |   |  |
| 53    | 6233 - Wet Meadow                 | 2.1   | No              | Low (NonForested)                  |   |  |
| 54    | 6233 - Wet Meadow                 | 3.9   | No              | Low (NonForested)                  |   |  |
| 55    | 3102 - Grass                      | 15.7  | No              | Low (NonForested)                  | hilly opening   |  |
| 57    | 50 - Water                        | 9.6   | No              | Low (NonForested)                  | NW basin of Lime Lake, currently separated from the rest of the lake.                                 |  |
| 61    | 3301 - Low Density Deciduous Tree | 6.1   | No              | Low (NonForested)                  | Trees are mostly black cherry and sugar maple with some red maple, aspen, and beech.                  |  |
| 64    | 6233 - Wet Meadow                 | 11.3  | No              | Low (NonForested)                  | Exposed shoreline surrounding the NW basin of Lime Lake.  |  |
| 67    | 3102 - Grass                      | 1.9   | No              | Low (NonForested)                  | Open shore area adjacent to Hartman Lake.   |  |
| 68    | 3103 - Rubus-Fern                 | 1.5   | No              | Low (NonForested)                  |   |  |
| 72    | 50 - Water                        | 5.4   | No              | Low (NonForested)                  | Hartman Lake  |  |
| 74    | 3102 - Grass                      | 15.8  | Yes             | Medium (NonForested)               | Sugar maple saplings are in patches surrounding many of the open-grown black cherry trees.            |  |
| 75    | 3301 - Low Density Deciduous Tree | 1.5   | No              | Low (NonForested)                  |   |  |
| 76    | 6239 - Mixed Emergent Wetland     | 1.2   | No              | Low (NonForested)                  | Grasses, forbs, raspberries and some tree seedlings on exposed shoreline surrounding a small wetland. |  |
| 77    | 50 - Water                        | 16.9  | No              | Low (NonForested)                  | Lime Lake   |  |
| 82    | 3301 - Low Density Deciduous Tree | 1.0   | No              | Medium (NonForested)               |   |  |
| 84    | 3103 - Rubus-Fern                 | 1.8   | No              | Low (NonForested)                  | Upland opening surrounding a small wetland.   |  |
| 85    | 6239 - Mixed Emergent Wetland     | 3.0   | No              | Low (NonForested)                  | Forbs, grasses, raspberries. and tree seedlings on exposed edges of wetland.                          |  |

### 6 – Nonforested Stands

Compartment: 004 Year of Entry: 2014



| Stand | Cover Type                        | Acres | Managed<br>Site | Management Priority<br>(Objective) | General Comments:   |
|-------|-----------------------------------|-------|-----------------|------------------------------------|---|
| 86    | 6233 - Wet Meadow                 | 1.3   | No              | Low (NonForested)                  |   |
| 88    | 3302 - Low Density Conifer Trees  | 0.7   | No              | Low (NonForested)                  | Island in Pearl Lake. Patch of cedar and other trees surrounded by open shore.  |
| 89    | 3301 - Low Density Deciduous Tree | 1.9   | No              | Low (NonForested)                  |   |
| 90    | 6233 - Wet Meadow                 | 3.9   | No              | Low (NonForested)                  | Open wetlands at the SE end of Lime Lake.   |
| 92    | 6233 - Wet Meadow                 | 9.2   | No              | Low (NonForested)                  | Pearl Lake shoreline  |
| 93    | 3301 - Low Density Deciduous Tree | 2.7   | No              | Low (NonForested)                  | Opening is succeeding to forest cover, mostly sugar maple and black cherry.   |
| 96    | 3102 - Grass                      | 2.5   | No              | Low (NonForested)                  | low, frost-prone  |
| 98    | 3202 - Autumn Olive/Honeysuckle   | 2.5   | Yes             | Medium (NonForested)               |   |
| 100   | 3301 - Low Density Deciduous Tree | 3.2   | No              | Low (NonForested)                  | There is a small wetland at the south end of this stand.  |
| 103   | 122 - Road/Parking Lot            | 9.6   | No              | Unspecified                        | Fowler & Rayle Rds.   |
| 104   | 3301 - Low Density Deciduous Tree | 20.3  | Yes             | Medium (NonForested)               | Old field filling in with hardwoods. West end has some<br>planted autumn olive and spruce. Deciduous trees are<br>mainly black cherry and sugar maple with scattered oak,<br>beech and quaking aspen. |
| 105   | 6233 - Wet Meadow                 | 2.3   | No              | Low (NonForested)                  |   |
| 106   | 6233 - Wet Meadow                 | 2.6   | No              | Low (NonForested)                  |   |
| 107   | 6233 - Wet Meadow                 | 2.3   | No              | Low (NonForested)                  |   |
| 110   | 3102 - Grass                      | 2.8   | No              | Low (NonForested)                  |   |
| 120   | 3301 - Low Density Deciduous Tree | 1.5   | No              | Low (NonForested)                  | Stand is in a frost-prone depression.   |
| 122   | 3204 - Mast Producing Shrub       | 3.4   | No              | Medium (NonForested)               |   |

#### 6 – Nonforested Stands

Compartment: 004 Year of Entry: 2014



| Stand | Cover Type                     | Acres | Managed<br>Site | Management Priority<br>(Objective) | General Comments:  |
|-------|--------------------------------|-------|-----------------|------------------------------------|--|
| 136   | 6225 - Bog                     | 0.6   | No              | Low (NonForested)                  | Small open wetland spans property line.  |
| 137   | 3103 - Rubus-Fern              | 1.0   | No              | Low (NonForested)                  |  |
| 143   | 6233 - Wet Meadow              | 1.2   | No              | Low (NonForested)                  |  |
| 146   | 3303 - Mixed Low Density Trees | 1.0   | No              | Low (NonForested)                  |  |
| 149   | 3102 - Grass                   | 2.3   | No              | Medium (NonForested)               | Deciduous trees are mostly black cherry with some white ash, sugar maple, basswood, and ironwood.  |
| 155   | 3103 - Rubus-Fern              | 1.7   | No              | Low (NonForested)                  | Stand is in a drepression. Lowest spot is currently dry, but appears to be periodically inundated. |



#### 7 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

| Stand | SCA Type          | SCA Name     | Acres | Comments   |
|-------|-------------------|--------------|-------|--|
| 41    | Unique Site - SCA | 61004041-SCA | 779.5 | This proposed SCA roughly corresponds to a 1997 proposed old-<br>growth management area. It includes Lime Lake, Hartman Lake, a<br>significant stretch of the Pearl Lake shoreline, and numerous wetlands<br>and kettle depressions. The area supports significant dispersed<br>recreation, including hunting, horseback riding, camping, hiking,<br>fishing, and mushrooming. Several rare wildlife species are associated<br>with Pearl Lake. The area has a relatively remote, rustic character.<br>SCA status is intended to recognize and protect these values. Forest<br>management will not be prescribed primarily for timber production.<br>However, treatments may be prescribed periodically to enhance<br>recreation values, respond to forest health issues, reduce exotic and<br>invasive species, promote more natural species diversity (e.g. in pine<br>plantations), or to improve wildlife habitat. |
| 115   | Unique Site - SCA | 61004115-SCA | 315.9 | This area was previously nominated as proposed old growth in 1997.<br>Nomination as a Special Conservation Area (SCA) is recommended.<br>This area is part of a proposed multi-compartment complex of stands<br>on a moraine landscape which could be managed long-term for late-<br>successional northern hardwoods with conifer elements, and<br>subsequently for related wildife species. Active management might be<br>limited to promoting succession/diversity in plantations or other forest<br>stands, treating exotic pests, improving wildlife habitat, maintaining<br>forest health, or suppressing wildfires.  |



# **8 – DEDICATED CONSERVATION AREA DETAILS**

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

| Conservati<br>Area                  | on Type | Description  | ERA = Ecological Reference Area<br>HCVA = High Conservation Value Area<br>SCA = Special Conservation Area |  |  |
|-------------------------------------|---------|--|---|--|--|
| SCA Concentrated<br>Recreation Area |         | Facilities that are designed and maintained for routine or heavy recreational use, including State Parks,<br>State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public<br>access sites. |   |  |  |