Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 47
Entry Year 2015

Acreage: 2,101

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 08/05/2013

Stand Examiner: Tom Burnis

Legal Description:

T43N R14W Sections 1,12,13,23,24

Identified Planning Goals:

Timber production and wildlife management.

Soil and topography:

Topography is mainly flat, with a mix of marsh and low ridges. The soil type in the majority of the compartment is saugetuck.

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

County road 433 runs through the compartment providing access to multiple blocks of private land and hunting camps.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Sections 1,12-14, 23 & 24, T43N-R14W, Schoolcraft County

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Silurian Manitoulin Dolomite and Ordovician Queenston Shale subcrop below the glacial drift. The Manitoulin is used for stone. The nearest gravel pit is 2 miles to the northeast and there may be some gravel potential on the north end. There is no commercial oil and gas production in the UP.

Vehicle Access:

A county road runs through and alongside of the compartment however, there is no access to most of the compartment due to marsh areas.

Survey Needs:

None

Recreational Facilities and Opportunities:

Snowmobile Trail #2 barely touches the southeast corner of the compartment. Avoid use of the trail for logging activities if possible. If the trail must be used for access, do not plow to bare ground and keep the trail/road maintained as wide as possible.

Fire Protection:

Limited access to marsh and pine ridges.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

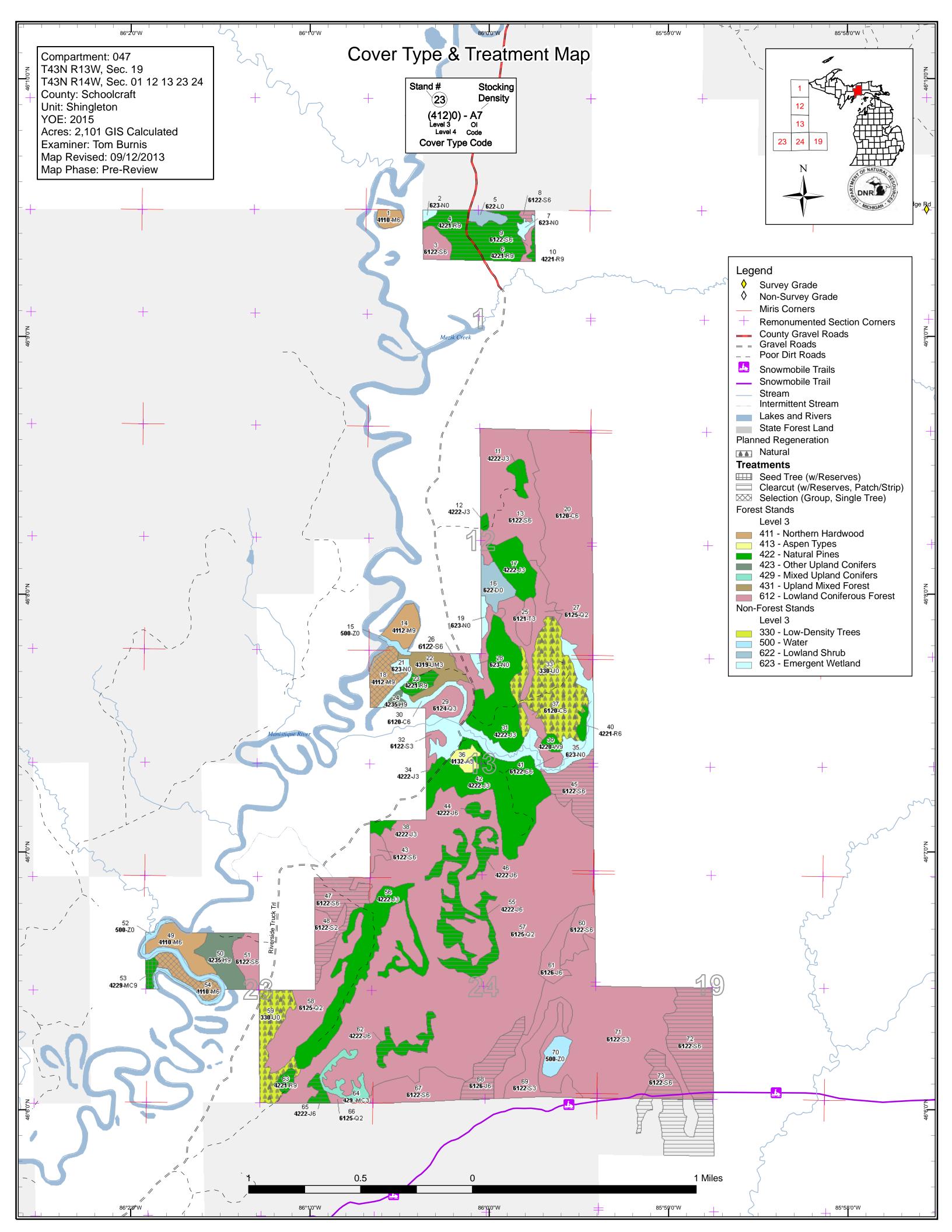
The following information is displayed, where pertinent, on the attached compartment maps:

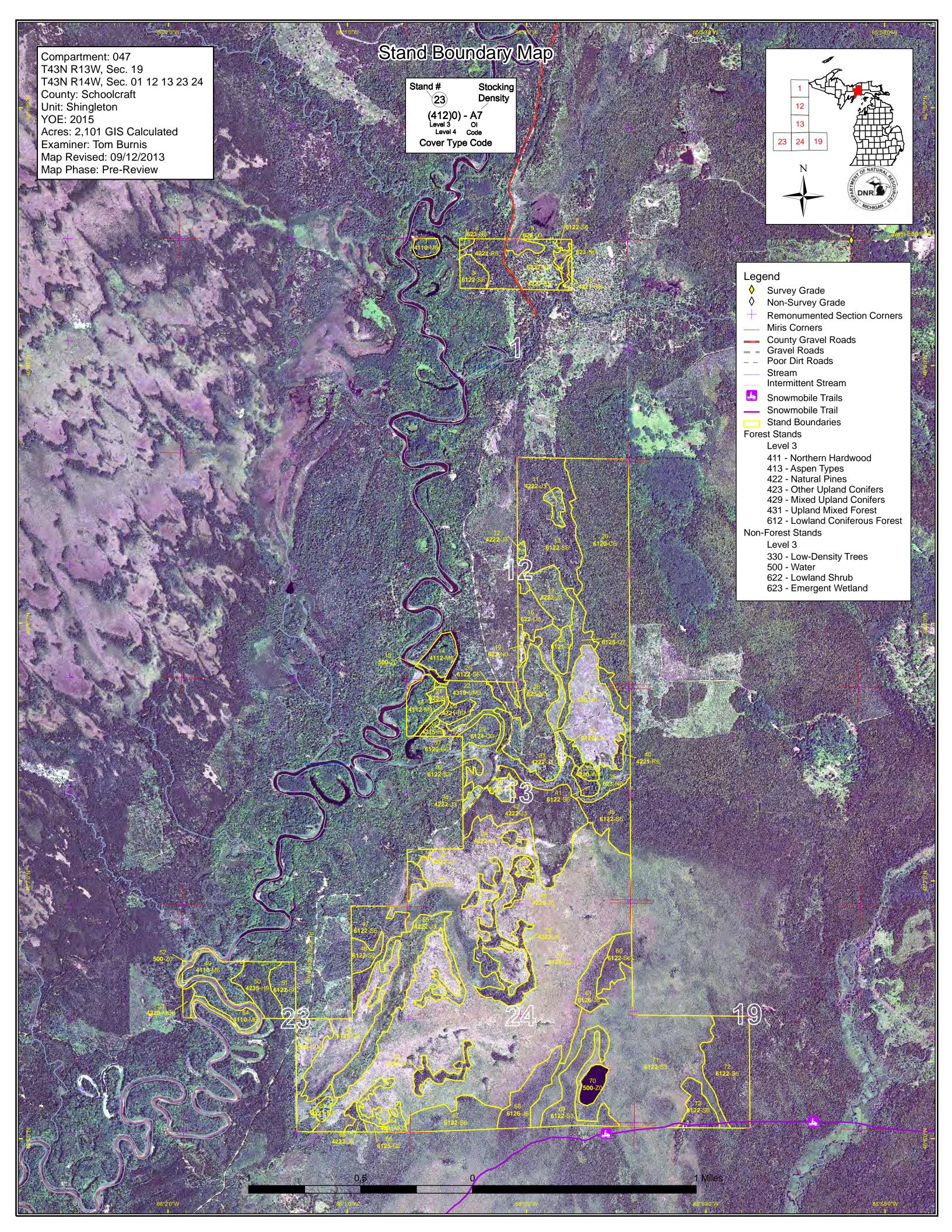
Base feature information, stand boundaries, cover types, and numbers Proposed treatments

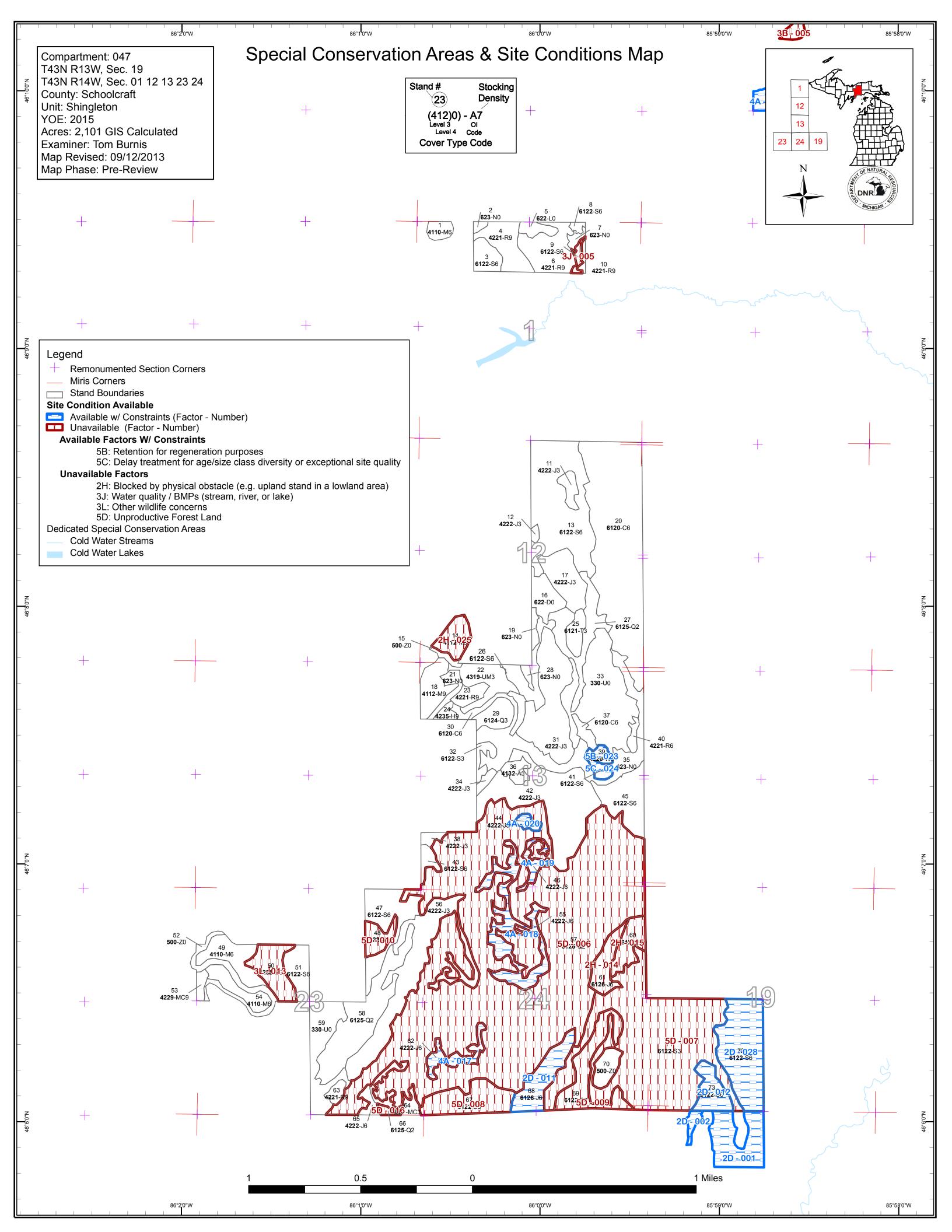
Site condition boundaries

Site Condition Details

Details on the road access system







Shingleton Mgt. Unit

Tom Burnis : Examiner



| | | | | | | Age (| Class | | | | | | | | | |
|---------------------|-----|-----|-------|----|---|----------|---------|-------|--------|---------|-----|-------|-------|---|------|--|
| | | 8.9 | 70,79 | , | Ser. Ser. Ser. Ser. Ser. Ser. Ser. Ser. | D. P. C. | \$5.05° | 80,00 | , a, , | 80 60 G | 8 / | 00.00 | 70,70 | , o , , , , , , , , , , , , , , , , , , | AS / | , de la companya de l |
| Aspen | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 139 | 0 | 148 | |
| Hemlock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 24 | |
| Jack Pine | 3 | 119 | 108 | 0 | 0 | 0 | 55 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 334 | |
| Low-Density Trees | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97 | |
| Lowland Conifers | 0 | 0 | 11 | 0 | 0 | 654 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 665 | |
| Lowland Shrub | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Lowland Spruce/Fir | 0 | 0 | 0 | 5 | 0 | 187 | 189 | 15 | 68 | 0 | 0 | 69 | 0 | 0 | 534 | |
| Marsh | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 33 | 0 | 0 | 0 | 29 | 0 | 67 | |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 7 | 48 | 0 | 4 | 0 | 0 | 0 | 62 | |
| Tamarack | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| Treed Bog | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | |
| Upland Conifers | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | |
| Upland Mixed Forest | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| Water | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | |
| White Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | |
| Total | 219 | 130 | 134 | 24 | 0 | 844 | 244 | 80 | 149 | 0 | 4 | 78 | 195 | 0 | 2101 | |



Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit Year of Entry 2015

Compartment 047
Total Compartment Acres: 2,101

Acres by Treatment Type

Commercial Harvest - 308 Tree Planting - 20

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

| | | Cover Type by Harvest Method | | | | | | | | |
|---------------------------|-------|------------------------------|-------------|------------|----------|----------|-----|-----|------------|--|
| | | / | Cientify of | Section of | Z. S. S. | Sternoo' | OK. | | , Received | |
| Lowland Coniferous Forest | | 152 | 0 | 0 | 0 | 0 | 0 | 152 | | |
| Natural Pines | | 123 | 0 | 3 | 0 | 0 | 0 | 127 | | |
| Northern Hardwood | | 0 | 29 | 0 | 0 | 0 | 0 | 29 | | |
| | Total | 276 | 29 | 3 | 0 | 0 | 0 | 308 | | |

Shingleton Mgt. Unit

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 047 Year of Entry 2015

| a n d | Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-------------|-------------------|-------|-----------------------------|---------------------|--------------|-------------|-------------------|---------------------------|-----------------------------|--------------------------|
| 4 | 41047004-Cut | 19.8 | 42210 - Natural Red Pine | High Density Log | 86 I | 111-140 | Harvest | Clearcut with Reserves | 42110 - Planted Red Pine | Cmpt. Review Proposal |

Prescription Clearcut stand, leaving some large white pine and red pine as a seed source. Buffer each side of drainage ditch 10 feet to protect ditch and

serve as retention. Specs:

Other Wait two years to see where aspen clones form and to see if any natural red pine seed in.

Comments:

After two years, plant red pine seedlings through stand but avoid planting through aspen clones. Also plant oak saplings.

Next Steps:

S

Proposed

10/01/2014 Start Date:

Cmpt. Review 26.0 42210 - Natural High 86 51-80 42210 - Natural 6 41047006-Cut Harvest Clearcut with Red Pine Density Loa Reserves Red Pine Proposal

Prescription Clearcut. Leave section of stand north of drainage as retention.

Specs:

Previously cut to 50 sqft. residual red pine. Some open areas contain densly stocked jack pine regeneration. Other

Comments:

Write FTP for site prep and planting of red pine seedlings. Avoid areas with existing jack pine regen. Next

Steps:

Proposed

10/01/2014 Start Date:

41047008-Cut 1.7 6122 - Black Spruce High 86 Harvest Clearcut 6122 - Black Spruce Cmpt. Review Density Proposal

Pole

Prescription Harvest all trees. Do not cut submerchantable trees. No retention due to small acreage and amount of submerchantable trees. Specs:

Other Could be cut with dry summer conditions, otherwise, will have to be cut in freezing winter conditions.

Comments:

Monitor for the success of regeneration. Acceptable regen includes mix of existing overstory. <u>Next</u>

Steps:

Proposed Start Date: 10/01/2014

41047010-Cut 42210 - Natural High 86 51-80 Harvest Clearcut 42210 - Natural Cmpt. Review 1.7 Red Pine Density Log Red Pine Proposal

Prescription Clearcut all species. No retention due to small acreage.

Specs:

<u>Other</u> Previously cut to 50 sqft of red pine. Some open areas have high density jack pine regeneration.

Comments:

Next Prepare site and plant red pine seedlings. Avoud ares with good jack pine regen existing.

Steps:

Proposed

Start Date: 10/01/2014

41047018-Cut 16.3 4112 - Maple, High 169 111-140 Harvest Single Tree 4112 - Maple, Cmpt. Review Density Log Beech, Cherry Selection Beech, Cherry Proposal Association

Prescription Mark to cut down to 80 sqft/acre. No cut on hemlock Avoid plugging any drainages to the river and stay out of oxbows. Maintain a 50 foot buffer

Specs: along Manistique river.

Other Previously classified as old growth. Received a select cut in 1987. Stand next to river and has seasonal drains and oxbows present. Stand must be accessed during frozen winter conditions. An old sleugh must be crossed for access. Comments:

Steps:

<u>Next</u> Monitor for success of regeneration. Mix of current species is acceptable.

Proposed 10/01/2014 Start Date:

Shingleton Mgt. Unit S

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 047 Year of Entry 2015

| a n d | Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-------------|-------------------|-------|-----------------------------|---------------------|--------------|-------------|-------------------|---------------------------|--------------------------------|--------------------------|
| 23 | 41047023-Cut | 6.8 | 42210 - Natural Red Pine | High Density Log | 77 } | 81-110 | Harvest | Clearcut with Reserves | 429 - Mixed Upland Conifers | Cmpt. Review Proposal |

Prescription Remove pine overstory leaving a few large white pine as a seed source. Also leave any red pine pole size trees. Take care to protect existing

regeneration. Specs:

Other Thick advanced regen in understory. Converting stand from red pine to existing regen of mostly balsam fir.

Comments:

Acceptable regen mix of existing overstory species as well as existing advanced regeneration consisting mostly of balsam fir.

Next Steps:

Proposed

10/01/2014 Start Date:

27.5 6122 - Black Spruce High 82 Clearcut with 6122 - Black Spruce Cmpt. Review 45 41047045-Cut Harvest Density Reserves Proposal

Pole

Prescription Clearcut but leave white pine. Retention area in a north-south strip through center of stand.

Specs:

<u>Other</u> Old fence evidence on section line east side of stand. Mature spruce with areas of young spruce mixed in.

Comments:

<u>Next</u> Monitor the success of regeneration. Acceptable regen, mix of current spp.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

41047047-Cut 29.8 6122 - Black Spruce 64 Harvest Clearcut with 6122 - Black Spruce Cmpt. Review High Reserves Proposal Density

Pole

Prescription Clearcut but leave large red and white pine if on firm ground. No cut on cedar and take care not to block drainages. Put retention patch where Specs:

appropriate to include cedar areas.

Stand is mostly black spruce with some lower areas of cedar in drainage areas. Stand also contains some higher ground with large red and Other Property

Comments: white pine.

Next Monitor for success of regeneration. Acceptable regen includes mix of current species.

Steps:

Proposed

Start Date: 10/01/2014

High 41047053-Cut 3.5 42290 - Natural 141-170 Harvest Seed Tree with 42290 - Natural Cmpt. Review 53 Mixed Pine Density Log Reserves Mixed Pine Proposal

Prescription Cut red and white pine leaving 30 sqft as seed source. Do not cut hemlock, exclude southern portion of stand where most hemlock exists. This Specs:

will be the retention area. Maintain a 50 foot river buffer.

Red and white pine logs with a thick understory of fir 30' tall. South portion of the stand is heavier to large hemlock. This is a small stand which Other Property Comments: is the access to stand 55. A few hemlock may have to be cut to get down the ridge into stand 55.

<u>Next</u> Monitor for regeneration. Stand will likely convert to fir but hoping for some mixed pine regen in areas torn up from logging. Acceptable regen

mix of current species as well as existing advanced regen consisting of mostly balsam fir. Steps:

Proposed

Start Date: 10/01/2014

Shingleton Mgt. Unit S

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 047 Year of Entry 2015

| M/CHIGAN . |
|------------|
|------------|

| a n d | Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-------------|-------------------|-------|-----------------------------------|-------------------------|--------------|-------------|-------------------|--------------------------|-----------------------------------|--------------------------|
| 54 | 41047054-Cut | 12.6 | 4110 - Sugar Maple Association | High Density Pole | 82 | 111-140 | Harvest | Single Tree Selection | 4110 - Sugar Maple Association | Cmpt. Review Proposal |

Prescription Thin to50-70 sq.ft. Need to open crown enough to get good regen in order to try and overwhelm deer. Do not plug any drainage areas and stay Specs:

out of oxbows. Maintain a 50 foot buffer to the Manistique river.

Other Gullies and low drainage areas throughout stand. They are dry now but could hold water on wetter years.

Comments:

<u>Next</u> Moniter for success of regeneration. Mix of current species is acceptable regen.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

41047063-Cut 4.0 42210 - Natural High 106 51-80 Harvest Clearcut 42210 - Natural Cmpt. Review Red Pine Red Pine Proposal Density Log

Prescription Remove all red and white pine overstory. No retention due to small acerage.

Specs:

<u>Other</u> Stand was too thick to scarify and was not accessible due to drainage and private land. 2012 Walk through shows poor regen.

Comments:

<u>Next</u> Hand plant red pine.

Steps:

Proposed

Start Date: 10/01/2014

41047065-Cut 4.4 42220 - Natural High 65 Harvest Clearcut with 42220 - Natural Cmpt. Review Jack Pine Density

Pole

Jack Pine Proposal Reserves

Prescription Cut all trees except red pine.

Specs:

<u>Other</u>

Comments:

Moniter for success of regen. Hand plant if naturall regen fails. Mix of current species acceptable regen. <u>Next</u>

Steps:

Proposed

10/01/2014 Start Date:

Total Treatment

154.1 Acreage Proposed:

Shingleton Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 047 a Limiting Factor s Year of Entry 2015 t а **Treatment** CoverType BA **Treatment Treatment Cover Type** Acres Size Stand **Approval** n Method d Name Density Age Range Type Objective **Status** 3.2 42220 - Natural High 76 Clearcut with 42220 - Natural Cmpt. Review 44 41047044-Cut Harvest Jack Pine Density Reserves Jack Pine Proposal Pole Prescription Clearcut leaving some red pine seed trees. Exclude areas, where appropriate, as retention. Specs: Other Island of timber in marsh will have to freeze access road. Comment: Monitor for success of regeneration. Hand plant if natural regen fails. Mix of current species is acceptable regen. <u>Next</u> Steps: **Proposed** 10/01/2014 Start Date: 4A: No merchantable products (see product standards) **Limiting Factor** 46 41047046-Cut 7.5 42220 - Natural High 76 Harvest Clearcut with 42220 - Natural Cmpt. Review Jack Pine Density Reserves Jack Pine Proposal Pole Prescription Clearcut leaving some red pine seed trees. Exclude areas, where appropriate, as retention. Specs: Island of timber in marsh. Will have to freeze access road. Other Comment: Monitor for success of regeneration. Hand plant if natural regen fails. Mix of current spieces acceptable regen. Next Steps: Proposed 10/01/2014 Start Date: 4A: No merchantable products (see product standards) **Limiting Factor** 38.3 42220 - Natural 76 Clearcut with 42220 - Natural Cmpt. Review 55 41047055-Cut High Harvest Jack Pine Density Reserves Jack Pine Proposal Pole Prescription Clearcut leaving some red pine seed trees. Exclude areas, where appropriate, as retention. Specs: Other Island of timber in marsh. Will have to freeze access road. Comment: Next Monitor for success of regeneration. Hand plant if natural regen fails. Mix of current species acceptable regen. Steps: Proposed Start Date: 10/01/2014 4A: No merchantable products (see product standards) **Limiting Factor** 41047062-Cut 65 42220 - Natural 62 11.5 42220 - Natural High Harvest Clearcut Cmpt. Review Jack Pine Density Jack Pine Proposal Pole Prescription Cut all trees. No retention due to small acreage. Specs: Other Will have to freeze a road to access stand. Comment: <u>Next</u> Moniter for success of regeneration. Hand plant if natural regen fails. Steps: <u>Proposed</u> 10/01/2014 Start Date:

4A: No merchantable products (see product standards)

Limiting Factor

Shingleton Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 047 a Limiting Factor s Year of Entry 2015 t а **Treatment** CoverType BA **Treatment Treatment Cover Type** Acres Size Stand **Approval** n d Name Density Age Range Type Method Objective **Status** 24.5 6126 - Lowland High 67 Clearcut with 6125 - Lowland Cmpt. Review 68 41047068-Cut Harvest Jack Pine Density Reserves Black Spruce, Jack Proposal Pole Pine Prescription Cut all trees but leave red and white pine if they exist. Specs: Other Center of stand is pure jack pine that is on it's way out. Edges of stand is black spruce much of which is submerchantable. Stand may be Comment: inaccessable. Monitor for success of regeneration. Hand plant if natural regen fails. Mix of current species acceptable regen. <u>Next</u> Steps: <u>Proposed</u> 10/01/2014 Start Date: 2D: Portable Bridge Needed (Dept. bridge will be adequate) **Limiting Factor** 72 41047072-Cut 53.6 6122 - Black Spruce High 115 Harvest Clearcut with 6122 - Black Spruce Cmpt. Review Density Reserves Proposal Pole Prescription Cut all trees. Leave retention patches where appropriate. Specs: New stand this entry, newly acquired land. Pure black spruce stand. Nice height and DBH as far as black spruce goes. Stand may not be Other Comment: accesable. Include adjacent stand in compartment 63. N<u>ext</u> Moniter for success of regeneration. Mix of current spp acceptable regen. Steps: Proposed 10/01/2014 Start Date: 2D: Portable Bridge Needed (Dept. bridge will be adequate) **Limiting Factor** Clearcut with 6122 - Black Spruce Cmpt. Review 73 41047073-Cut 15.3 6122 - Black Spruce High 110 Harvest Density Reserves Proposal Pole Prescription Cut all trees except red and white pine. Make retention patch where appropriate. Specs: New stand this entry, newly acquired land. Old stand with slow growing trees. Mix of poles and submerchantable black spruce. Stand may not Other Comment: be accesable. Include adjacent stand in compartment 63. <u>Next</u> Moniter for success of regeneration. Current species mix is acceptable regen. Steps: Proposed 10/01/2014 Start Date: 2D: Portable Bridge Needed (Dept. bridge will be adequate) **Limiting Factor** 41063 OutOfY 31.3 Harvest Clearcut with 6122 - Black Spruce Cmpt. Review Reserves OE_1-Cut Proposal Prescription Cut all trees. Leave retention patches where appropriate. Specs: New stand this entry, newly acquired land. Pure black spruce stand. Nice height and DBH as far as black spruce goes. Stand may not be Other Comment: accesable. Harvest with stand 72, comp.47.

10/01/2014

Next Steps: Proposed Start Date:

Limiting Factor

Moniter for success of regeneration. Mix of current spp acceptable regen.

2D: Portable Bridge Needed (Dept. bridge will be adequate)

Shingleton Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 047 a Limiting Factor Year of Entry 2015

s t **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** n Method Name Density Range Objective **Status** Age Type 41063_OutOfY 3.5 Clearcut with 6122 - Black Spruce Cmpt. Review

Prescription Cut all trees except red and white pine. Make retention patch where appropriate.

Specs: Other

New stand this entry, newly acquired land. Old stand with slow growing trees. Mix of poles and submerchantable black spruce. Stand may not

Harvest

Reserves

be accesable. Harvest with stand 73, comp 47. Comment:

Next Moniter for success of regeneration. Current species mix is acceptable regen.

Steps:

Proposed

10/01/2014 Start Date:

OE-Cut

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

Total Treatment

188.7 **Acreage Proposed:**

Proposal

Report 5 – Site Conditions

Shingleton Mgt. Unit

Tom Burnis: Examiner

Compartment 047 Year of Entry 2015

| Availa | ability for l | Management | | | | | | | | |
|--------|---------------|---------------|----------------------|--------|---------|-------|--------|----|----|----|
| Total | Acres | Acres | 1 | Domina | nt Site | e Con | dition | s | | |
| Acres | Available | Not Available | | No | 5D | 5C | 5B | 3L | 3J | 2H |
| 6 | 6 | | Aspen | 6 | | | | | | |
| 148 | 148 | | Cedar | 148 | | | | | | |
| 24 | 3 | 20 | Hemlock | 3 | | | | 20 | | |
| 334 | 319 | 15 | Jack Pine | 319 | | | | | | 15 |
| 665 | 88 | 577 | Lowland Conifers | 88 | 577 | | | | | |
| 534 | 263 | 270 | Lowland Spruce/Fir | 258 | 252 | 5 | | | 3 | 15 |
| 3 | 3 | | Natural Mixed Pines | 3 | | | | | | |
| 67 | 54 | 13 | Northern Hardwood | 54 | | | | | | 13 |
| 62 | 62 | | Red Pine | 62 | | | | | | |
| 8 | 8 | | Tamarack | 8 | | | | | | |
| 11 | 11 | | Upland Conifers | 11 | | | | | | |
| 19 | 19 | | Upland Mixed Forest | 19 | | | | | | |
| 4 | 4 | | White Pine | | | | 4 | | | |
| 1,884 | 988 | 896 | Total Forested Acres | 979 | 830 | 5 | 4 | 20 | 3 | 43 |
| | 52% | 48% | Relative Percent | | | | | | | |

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

| | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|-----|---|--|-----------|----------------------|----------------------|----------------------|----------------------|
| 005 | Not Available | 3J: Water quality / BMPs (stream, river, or lake) | 3 | | | | |
| С | omments: | | | | | | |
| 006 | Not Available | 5D: Unproductive Forest Land | 575 | | | | |
| | omments: igh water table. S _l | parsley covered with short stu | ınted low | quality trees. | | | |
| | | | | | | | |

Report 5 – Site Conditions

Shingleton Mgt. Unit
Tom Burnis: Examiner

Compartment 047 Year of Entry 2015

| 007 | Not Available | 5D: Unproductive Forest Land | 182 | | | |
|-----|----------------------------------|--|---------------------|------------------|---|---|
| | Comments: High water table. [| Densly covered with short stunte | d low quality trees | | | |
| 800 | Not Available | 5D: Unproductive Forest Land | 30 | | | |
| | Comments: High water table. T | aller trees and more densly cov | ered than adjacen | t stand but very | y slow growing. Over 60 ye | ears old and mostly sapling size, 3-4 inch DBH. |
| 009 | Not Available | 5D: Unproductive Forest Land | 32 | | | |
| | Comments: High water table. H | ligh density but very slow growir | ng trees. | | | |
| 010 | Not Available | 5D: Unproductive Forest Land | 9 | | | |
| | Comments: High water table. H | ligh density slow growing trees. | | | | |
| 011 | Available | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | 25 2E: Ro | oad needed | 2G: Too wet (sensitive soils, does not include access issues) | |
| | Comments: Area to access thro | ough has poor history for freezin | g characteristics. | About 2 1/2 mil | les needed. | |
| 012 | Available | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | 15 2E: Ro | oad needed | 2G: Too wet (sensitive soils, does not include access issues) | |
| | Comments: Area to access thro | ough has poor history of freezing | characteristics. A | About 3 miles. | | |
| | | | | | | |

Report 5 – Site Conditions

Shingleton Mgt. Unit
Tom Burnis: Examiner

Compartment 047 Year of Entry 2015

| 013 | Not Available | 3L: Other wildlife concerns | 21 | |
|-----|----------------------------------|--|------------|---|
| С | omments: | | | |
| 014 | Not Available | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 15 | No Limiting Factor |
| | omments: oor quality short tr | rees. Access across sensitve s | soils with | h high water table. |
| 015 | Not Available | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 15 | 2G: Too wet (sensitive soils, does not include access issues) |
| | omments: ccess through ser | nsitive soils with high water tabl | e. | |
| 016 | Not Available | 5D: Unproductive Forest Land | 2 | |
| | omments: igh water table. tr | rees are old but of sapling size. | | |
| 017 | Available | 4A: No merchantable products (see product standards) | 12 | |
| | omments: hort crossing on lo | owland site. Factor limits due t | o simila | r unsold sales. |
| 018 | Available | 4A: No merchantable products (see product standards) | 38 | |
| | omments: hort crossing on lo | owland site. Factor limits due t | o simila | r unsold sales. |
| | | | | |

Report 5 - Site Conditions

Shingleton Mat. Unit Compartment 047 Year of Entry 2015 Tom Burnis: Examiner 019 **Available** 4A: No merchantable 8 products (see product standards) Comments: Short crossing on lowland site. Factor limit due to similar unsold sales. 020 **Available** 4A: No merchantable 3 products (see product standards) Comments: Short crossing on lowland site. Factor limit due to similar unsold sales. 023 **Available** 5B: Retention for 4 regeneration purposes Comments: Previously shelterwood cut. Want to allow more time for advanced regeneration. 5C: Delay treatment for 024 **Available** 5 age/size class diversity or exceptional site quality Comments: Small stand. Want to save and harvest with stands 39 and 40. 025 **Not Available** 2H: Blocked by physical 13 obstacle (e.g. upland stand in a lowland area) Comments: Island of timber surrounded by river slough. 2D: Portable Bridge 028 **Available** 54 2E: Road needed 2G: Too wet (sensitive

soils, does not include

access issues)

Comments:

Area to access through has poor history of freezing characteristics. About 3 miles.

Needed (Dept. bridge will

be adequate)

Shingleton Mgt. Unit Compartment: 047

Year of Entry: 2015



Report 6 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

| SCA Name | SCA Category | Detail Type | Recommendation | Acres |
|----------|--------------|-------------|----------------|-------|
| | | | | |
| Comments | | | | |
| | | | | |

Shingleton Mgt. Unit Comparts

Compartment: 047 Year of Entry 2015



Report 7 - DEDICATED CONSERVATION AREA DETAILS

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

| Conservation Area | on Type | Description | ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area |
|-------------------|----------------------|--|---|
| SCA | Cold Water Lake | A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries | es to persist from year to year. Suitable y are relatively deep, have substantial the state. Such lakes are established by |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen condi- stocked trout populations and those of other coldwater fish speci- year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210. | es (e.g., slimy sculpin) to persist from se conditions due to substantial |
| SCA | Habitat Area | An area that provide some specific need for the life cycle of wildli and Waterfowl Production Areas, deer wintering complexes in lov openings and savannas. Habitat areas are distinct from critical hat endangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperation. | wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more endangered species, and are not |

| s t | Shingleton Mgt. Unit | | | Report 8 | – Forested | Stands Compartment: 047 Year of Entry: 2015 |
|-------------|-----------------------------------|----------------------|-------|--------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 1 | 4110 - Sugar Maple Association | High Density Pole | 5.5 | 75 | 81-110 | Select cut in 1978 but must have been cut heavy. M6 stand with an M3 understory, almost all hard maple. |
| 3 | 6122 - Black Spruce | High Density Pole | 10.0 | 64 | | |
| 4 | 42210 - Natural Red Pine | High Density Log | 19.8 | 86 | 111-140 | Mixed poles and logs in red pine. White pine all large. Some aspen and jack pine mixed through stand. Seasonal drainages in stand. |
| 6 | 42210 - Natural Red Pine | High Density Log | 26.0 | 86 | 51-80 | Cut all species except red and white pine. Can mark a few to cut if necessary in areas of high densities. Also, cut all trees within the aspen clones within this stand. [3-10-05 BB] Just Off The Road Sale 11-05 Residual Volumes= Red Pine=50sq ft, White Pine = 3 sq. ft. TO: Jeff Stampfly |
| | | | | | | FROM: Bob Burnham |
| | | | | | | SUBJECT: Compartment 47 OI Change |
| | | | | | | The intent of this memo is to request approval to make a change in OI. When prepping Sale 11-05, Just Off the Road Sale we determined that Stand 2 in Compartment 47 needed a little tweaking. The stand is typed as an R6 and is scheduled for a thinning. However, the residual stocking of red and white pine is quite variable since it's a natural stand. There are several areas where the residual basal area is 0-30 square feet per acre, these areas were stocked mainly with jack pine. We would like to do some cultural work to these areas in the form of scarification, the adjacent stands that are part of the sale call for scarification so t |
| 8 | 6122 - Black Spruce | High Density Pole | 1.7 | 86 | | mature spruce with submerchatable mixed. Small acreage, low volume. |
| 9 | 6122 - Black Spruce | High Density Pole | 2.8 | 86 | | Part of old inventory stand 2. Maintained as buffer to drainage as well as retention to original stand. |
| 10 | 42210 - Natural Red Pine | High Density Log | 1.7 | 86 | 51-80 | Cut all species except red and white pine. Can mark a few to cut if necessary in areas of high densities. Also, cut all trees within the aspen clones within this stand. [3-10-05 BB] Just Off The Road Sale 11-05 Residual Volumes= Red Pine=50sq ft, White Pine = 3 sq. ft. TO: Jeff Stampfly |
| | | | | | | FROM: Bob Burnham |
| | | | | | | SUBJECT: Compartment 47 OI Change |
| | | | | | | The intent of this memo is to request approval to make a change in OI. When prepping Sale 11-05, Just Off the Road Sale we determined that Stand 2 in Compartment 47 needed a little tweaking. The stand is typed as an R6 and is scheduled for a thinning. However, the residual stocking of red and white pine is quite variable since it's a natural stand. There are several areas where the residual basal area is 0-30 square feet per acre, these areas were stocked mainly with jack pine. We would like to do some cultural work to these areas in the form of scarification, the adjacent stands that are part of the sale call for scarification so t |

| S | Shingleton Mgt. Unit | | | Report 8 | – Forested | Stands Compartment: 047 Year of Entry: 2015 |
|------------------|--|-------------------------|-------|--------------|-------------|---|
| t a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 11 | 42220 - Natural Jack Pine | High Density Sapling | 5.9 | 20 | | [1/7/04 BB] Stand was covered under FTP-542 & 600, stand was never scarified or at least no record of it, it was reinventoried in 2004 and it was determined to be fully stocked, the old stand number was 11, the FTP was cancelled with a blanket letter. |
| 12 | 42220 - Natural Jack Pine | High Density Sapling | 1.5 | 20 | | |
| 13 | 6122 - Black Spruce | High Density Pole | 80.5 | 64 | | Stand in good condition. Lot of small diameter spruce throughout stand. Let stand grow and evaluate next entry. |
| 14 | 4112 - Maple, Beech, Cherry Association | High Density Log | 12.9 | 169 | 111-140 | Stand was missed in previous inventory. Island of timber surrounded by river slough makes it inaccessable. |
| 17 | 42220 - Natural Jack Pine | High Density Sapling | 22.1 | 20 | | [1/7/04 BB] Stand was covered under FTP-542 & 600, stand was never scarified or at least no record of it, it was reinventoried in 2004 and it was determined to be fully stocked, the old stand number was 11, the FTP was cancelled with a blanket letter. |
| 18 | 4112 - Maple, Beech, Cherry Association | High Density Log | 16.3 | 169 | 111-140 | Received a select cut in 1987. Hemlock and hardwoods marked, all other species cut. Resulted in good hard maple regen. |
| 20 | 6120 - Lowland Cedar | High Density Pole | 138.9 | 125 | | Poor quality cedar. Not heavily stocked with alder understory. |
| 22 | 4319 - Mixed Upland Forest | High Density Sapling | 18.7 | 30 | | |
| 23 | 42210 - Natural Red Pine | High Density Log | 6.8 | 77 | 81-110 | Stand has advanced fir regen 20 - 30 feet tall. Some white pine, aspen and a few red pine also present but understory has converted to fir. |
| 24 | 42350 - Upland Hemlock | High Density Log | 3.1 | 169 | 81-110 | Received a select cut in 1987. Hemlock and hardwoods marked, all other species cut. Heavy understory of fir regen resulted. |
| 25 | 6121 - Tamarack | High Density Sapling | 8.1 | 20 | | Mostly tamarack regeneration with some black spruce |
| 26 | 6122 - Black Spruce | High Density Pole | 15.3 | 69 | | |
| 27 | 6125 - Lowland Black Spruce, Jack Pine | Medium Density | 26.3 | 50 | | Stunted, slow growing trees on wet soil |
| 29 | 6124 - Lowland Spruce- Fir | High Density Sapling | 11.3 | 25 | | |
| 30 | 6120 - Lowland Cedar | High Density Pole | 4.2 | 119 | | |

| S t | Shingleton Mgt. Unit | | | Report 8 | – Forested | Stands Compartment: 047 Year of Entry: 2015 |
|-------------|---|-------------------------|-------|--------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 31 | 42221 - Natural Jack Pine, Mixed Deciduous | High Density Sapling | 53.1 | 15 | | [1/7/04 BB] Stand was covered under FTP-712, stand was at least partially scarified. Old OI had stand 17 as part of new stand 22 as well. Stand was counted in 2002 and 1269 tpa were found, stand is fully regenerated and the FTP was closed with a blanket letter. |
| 32 | 6122 - Black Spruce | High Density Sapling | 5.1 | 30 | | Stand cut approx. 30 years ago. About 1 acre area didn't get cut and is black spruce poles. |
| 34 | 42220 - Natural Jack Pine | High Density Sapling | 2.9 | 6 | | [3-10-05 BB] White Pine Bit Sale 8-05 (10/2/07 AP) Inmates planted site with jack pine fall 2007. Contract is still open. Will need regen check in 2009. (6/6/08 AP) Inmates planted site with jack pine in spring 2008. Regen check needed in 2009. [6/9/2008 BB] Sale is now closed. Unit was cut spring 2006. TCR Date is 5/6/2008. Stand was originally scheduled for natural regeneration via scarification. However, due to the small size of the stand it was converted to artificial regeneration via inmate planting. Regeneration check to occur in 2009. (4/24/09 AP) 2009 regen count numbers for stand 14: 1,480 jack pine. Areas without slash were highly stocked. Areas with slash had lower stocking. Roadbed looks good. 3 year check in 2011. (6/7/2011 AP) 2011 regen counts showed excellent regeneration. FTP is closed. |
| 36 | 4132 - Aspen, Jack Pine | High Density Sapling | 6.4 | 25 | | |
| 37 | 6120 - Lowland Cedar | High Density Pole | 4.7 | 115 | | |
| 38 | 42220 - Natural Jack Pine | High Density Sapling | 3.2 | 25 | | Mostly upland jack pine with edges being lowland spruce. |
| 39 | 42200 - Natural White Pine | High Density Log | 3.6 | 122 | 81-110 | Do not cut hemlock. [3-10-05 BB] White Pine Bit Sale 8-05 Residual Volumes; Red Pine = 48 sq ft, White pine = 7 sq ft [6/9/2008 BB] Sale is now closed. Stand was cut in January 2008. TCR Date is 5-6-2008. Regen survey walk through will be scheduled for 2012 WP, RP,SP,and RM saps filling in. Passed walk through |
| | | | | | | survey. Look at next entry for overstory removeal leaving 10 sqft WP seed trees. Cut with nearby stand numbers 40 and 41. |
| 40 | 42210 - Natural Red Pine | High Density Pole | 3.3 | 59 | 111-140 | Harvest next entry with stands 39 and 41. |
| 41 | 6122 - Black Spruce | High Density Pole | 5.0 | 82 | | Harvest next entry with stands 39 and 40. |
| 42 | 42220 - Natural Jack Pine | High Density Sapling | 75.0 | 25 | | West 1/2 planted, East 1/2 scarified. |
| 43 | 6122 - Black Spruce | High Density Pole | 5.2 | 52 | | |

| s t | Shingleton | | Report 8 | Forested | Stands Compartment: 047 Year of Entry: 2015 | |
|-------------|---|-------------------------|----------|----------------------------|---|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 44 | 42220 - Natural Jack Pine | High Density Pole | 3.2 | 76 | | |
| 45 | 6122 - Black Spruce | High Density Pole | 27.5 | 82 | | Old fence evidence on section line east side of stand. Mature spruce with areas of young spruce mixed in. |
| 46 | 42220 - Natural Jack Pine | High Density Pole | 7.5 | 76 | | |
| 47 | 6122 - Black Spruce | High Density Pole | 29.8 | 64 | | Stand is mostly black spruce with some lower areas of cedar in drainage areas. Stand also contains some higher ground with large red and white pine. |
| 48 | 6122 - Black Spruce | Medium Density | 9.4 | 64 | | |
| 49 | 4110 - Sugar Maple Association | High Density Pole | 20.1 | 82 | 81-110 | Received a selection cut in 1961 and 1987. |
| 50 | 42350 - Upland Hemlock | High Density Log | 20.5 | 169 | | Select cut in 1961 and 1987. |
| 51 | 6122 - Black Spruce | High Density Pole | 14.5 | 65 | | Mostly black spruce with variable densities and diameters. Cedar mixed through center portion of stand. Few scattered large white pine and hemlock. |
| 53 | 42290 - Natural Mixed Pine | High Density Log | 3.5 | 77 | 141-170 | Red and white pine logs with a thick understory of fir 30' tall. South portion of the stand is heavier to large hemlock. This is a small stand which is the access to stand 55. A few hemlock may have to be cut to get down the ridge into stand 55. |
| 54 | 4110 - Sugar Maple Association | High Density Pole | 12.6 | 82 | 111-140 | Gullies and low drainage areas throughout stand. They are dry now but could hold water on wetter years. |
| 55 | 42220 - Natural Jack Pine | High Density Pole | 38.3 | 76 | | |
| 56 | 42220 - Natural Jack Pine | High Density Sapling | 65.8 | 15 | | 1/7/04 BB] Stand was covered under FTP-712, stand was at least partially scarified. Old OI had stand 41 as part of new stand 40 as well. Stand was counted in 2002 and 1495 tpa were found, stand is fully regenerated and the FTP was closed with a blanket letter. |
| 57 | 6125 - Lowland Black Spruce, Jack Pine | Medium Density | 575.4 | 50 | | Stunted trees growing poorly and slowly on wet soil. |
| 58 | 6125 - Lowland Black Spruce, Jack Pine | Medium Density | 50.0 | 50 | | poor quality, slow growing trees on wet soil. |
| 60 | 6122 - Black Spruce | High Density Pole | 15.1 | 72 | | poor quality slow growing, not worth the effort of trying to freeze a 1/4 mile of marsh to reach. |

| s t | Shingleton Mgt. Unit | | | Report 8 | – Forested | Stands Compartment: 047 Year of Entry: 2015 |
|-------------|---|-------------------------|-------|--------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 61 | 6126 - Lowland Jack Pine | High Density Pole | 15.0 | 67 | | Low quality, dead and dying, 3 stick tall. Not worth the effort of trying to freeze 1/4 mile of marsh to reach. |
| 62 | 42220 - Natural Jack Pine | High Density Pole | 11.5 | 65 | | Mature jack pine but may not be accesable. |
| 63 | 42210 - Natural Red Pine | High Density Log | 4.0 | 106 | 51-80 | Scarify if possible, if unable hand plant site. [3-10-05 BB] River Road Spruce 7-05 Residual Volumes; Red Pine = 45 sq ft, White pine = 5 sq ft |
| | | | | | | [11-24-08 BB) Sale now closed, TCR Date is 11/11/2008. Stand will be on natural regen clock for 2012, stand was cut in the summer of 2008. Unit 3 |
| | | | | | | (9/15/2010 AP) Stand was too thick to scarify and was not accessible due to drainage and private land. Check regeneration as part of next inventory cycle. (3/22/11 AP) FTP W41-1229 has been cancelled. |
| | | | | | | 2012 Walk through shows poor regen. Maybe cut all but 30 sqft and scarity |
| 64 | 429 - Mixed Upland Conifers | High Density Sapling | 10.8 | 15 | | [1/7/04 BB] Stand was covered under FTP-712, stand was at least partially scarified. Stand was counted in 2002 and 1495 tpa were found, stand is fully regenerated and the FTP was closed with a blanket letter. |
| 65 | 42220 - Natural Jack Pine | High Density Pole | 4.4 | 65 | | |
| 66 | 6125 - Lowland Black Spruce, Jack Pine | Medium Density | 2.0 | 50 | | Poor quality, slow growing trees on wet soil. |
| 67 | 6122 - Black Spruce | High Density Pole | 29.5 | 63 | | poor quality spruce. Not enough merchantable trees within stand to be worth cutting. |
| 68 | 6126 - Lowland Jack Pine | High Density Pole | 24.5 | 67 | | Center of stand is pure jack pine that is on it's way out. Edges of stand is black spruce much of which is submerchantable. Stand may be inaccessable. |
| 69 | 6122 - Black Spruce | High Density Sapling | 31.5 | 83 | | Very poor site with slow growing trees. Most trees are only 3-4 inches DBH and over 80 years old. Not enough merchantable timber in stand to be worth harvesting. |
| 71 | 6122 - Black Spruce | High Density Sapling | 182.0 | 54 | | Very poor site with slow growing trees. |
| 72 | 6122 - Black Spruce | High Density Pole | 53.6 | 115 | | New stand this entry, newly acquired land. Pure black spruce stand. Nice height and DBH as far as black spruce goes. Stand may not be accesable. |
| 73 | 6122 - Black Spruce | High Density Pole | 15.3 | 110 | | New stand this entry, newly acquired land. Old stand with slow growing trees. Mix of poles and submerchantable black spruce. Stand may not be accesable. |

Compartment: 047 Year of Entry: 2015



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|----------------------------------|-------|-----------------|---------------------------------|---|
| 2 | 6239 - Mixed Emergent Wetland | 1.5 | Unspecified | Unspecified | |
| 5 | 6229 - Mixed lowland shrub | 5.4 | Unspecified | Unspecified | |
| 7 | 6239 - Mixed Emergent Wetland | 2.7 | Unspecified | Unspecified | |
| 15 | 50 - Water | 2.5 | Unspecified | Unspecified | |
| 16 | 6224 - Treed Bog | 13.5 | Unspecified | Unspecified | |
| 19 | 6239 - Mixed Emergent Wetland | 3.0 | Unspecified | Unspecified | |
| 21 | 6239 - Mixed Emergent Wetland | 5.9 | Unspecified | Unspecified | |
| 28 | 6239 - Mixed Emergent Wetland | 2.0 | Unspecified | Unspecified | |
| 33 | 3302 - Low Density Conifer Trees | 66.7 | Natural Regen | Lowland Conifers | A walk through regeneration count showed 2750 TPA of BS, RP, WP, and fir. White pine Bit sale 8-05. West of creek cut winter of 2006. East of creek cut winter of 2008. |
| 35 | 6239 - Mixed Emergent Wetland | 57.7 | Unspecified | Unspecified | |
| 52 | 50 - Water | 15.5 | Unspecified | Unspecified | |
| 59 | 3302 - Low Density Conifer Trees | 30.2 | Natural Regen | Lowland Conifers | A walk through regen survey showed 1254 TPA of BS, Fir, WP, JP |
| 70 | 50 - Water | 10.0 | Unspecified | Unspecified | |