



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41170

Entry Year 2019

Acreage: 1,959

County Alger

Management Area: Cusino Complex

Revision Date: 2017-07-06

Stand Examiner: Mario Molin

Legal Description:

T47N, R17W, Sec. 1, 11-14

Identified Planning Goals:

To provide sustainable forest eco-system management.

Soil and topography:

Upland hardwood areas of the compartment have mainly Garlic Sand, Kalkaska Sand, or Munising-Yalmer-Froling Complex, Calcareous Substratum of 0-15% slopes. Lower ground is generally Carbondale, Lupton and Tawas soils.

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

Mainly surrounded by state owned land and commercial forest land.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

None known at present.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Stoner Creek is classified as Type 1 trout water. Although it can support native brook trout, we do not actively manage it. There is no fishery associated with the Eastern Lake Superior Fisheries Management area.

Wildlife Habitat Considerations:

This compartment lies northeast of Melstrand on the south side of H-58. Pre-settlement data show a composite of sugar maple, yellow birch, beech, and hemlock dominated the forest. Balsam fir and red maple were fairly common while white pine and elm were scattered. Cedar dominated the lowlands with elm, ash, spruce, and tamarack mixed in.

Current upland forests continue to be dominated by northern hardwoods. However, hemlock and yellow birch are substantially reduced and black cherry is much more prevalent than in the circa 1850 forests.

Wildlife habitat objectives include restoring hemlock into portions of this compartment, promoting the existing black cherry for mast production, and enhancing within and between stand structural diversity.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand & gravel, postglacial alluvium, coarse-textured till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) Formation subcrops below the glacial drift. The PdC could be used for stone. The nearest gravel pit is in Section 15 to the east and there should be potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

The majority of the compartment is accessible by trail roads.

Survey Needs:

Unknown at this time

Recreational Facilities and Opportunities:

There are no developed DNR recreational facilities within the compartment; but the area is used for hunting.

Fire Protection:

There are no specific fire protection concerns within this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

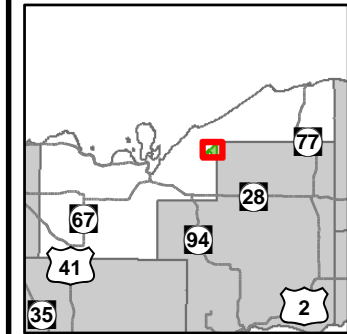
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

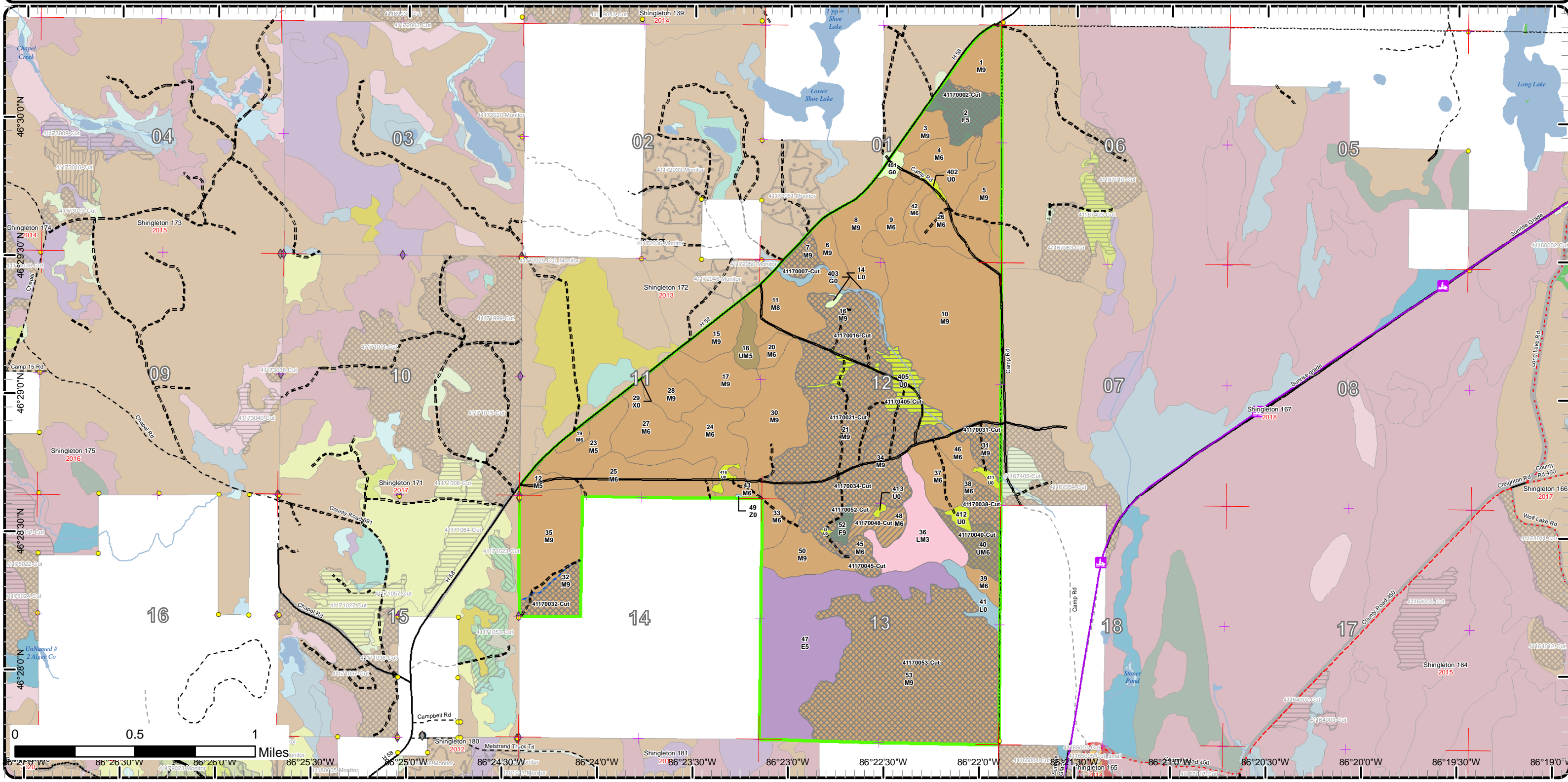
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 170
 T47N, R17W, Sec: 1, 11-14
 County: Alger
 Unit: Shingleton
 Mgmt Area: Casino Complex
 YOE: 2019
 Acres: 1,959 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 7/30/2018
 Map Phase: Post Review

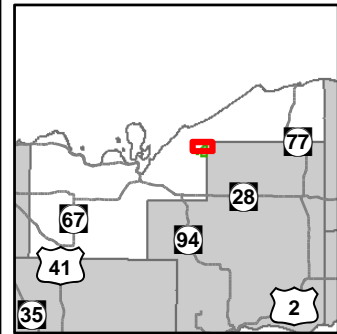


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- City
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes

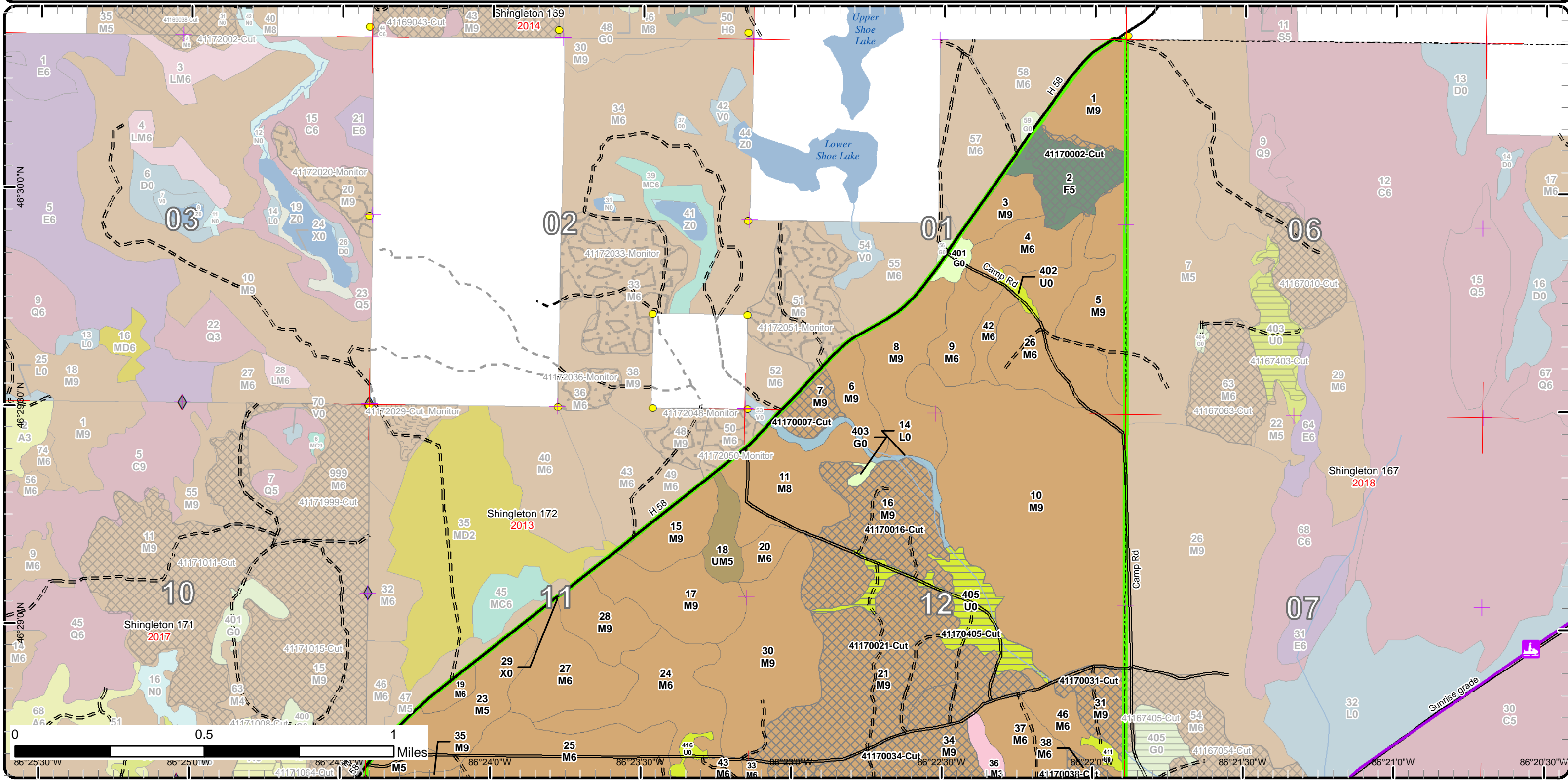


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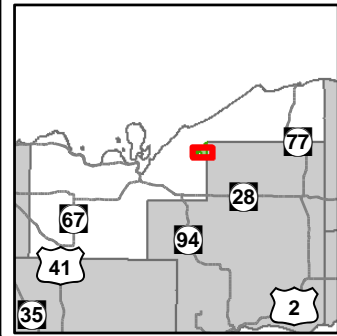


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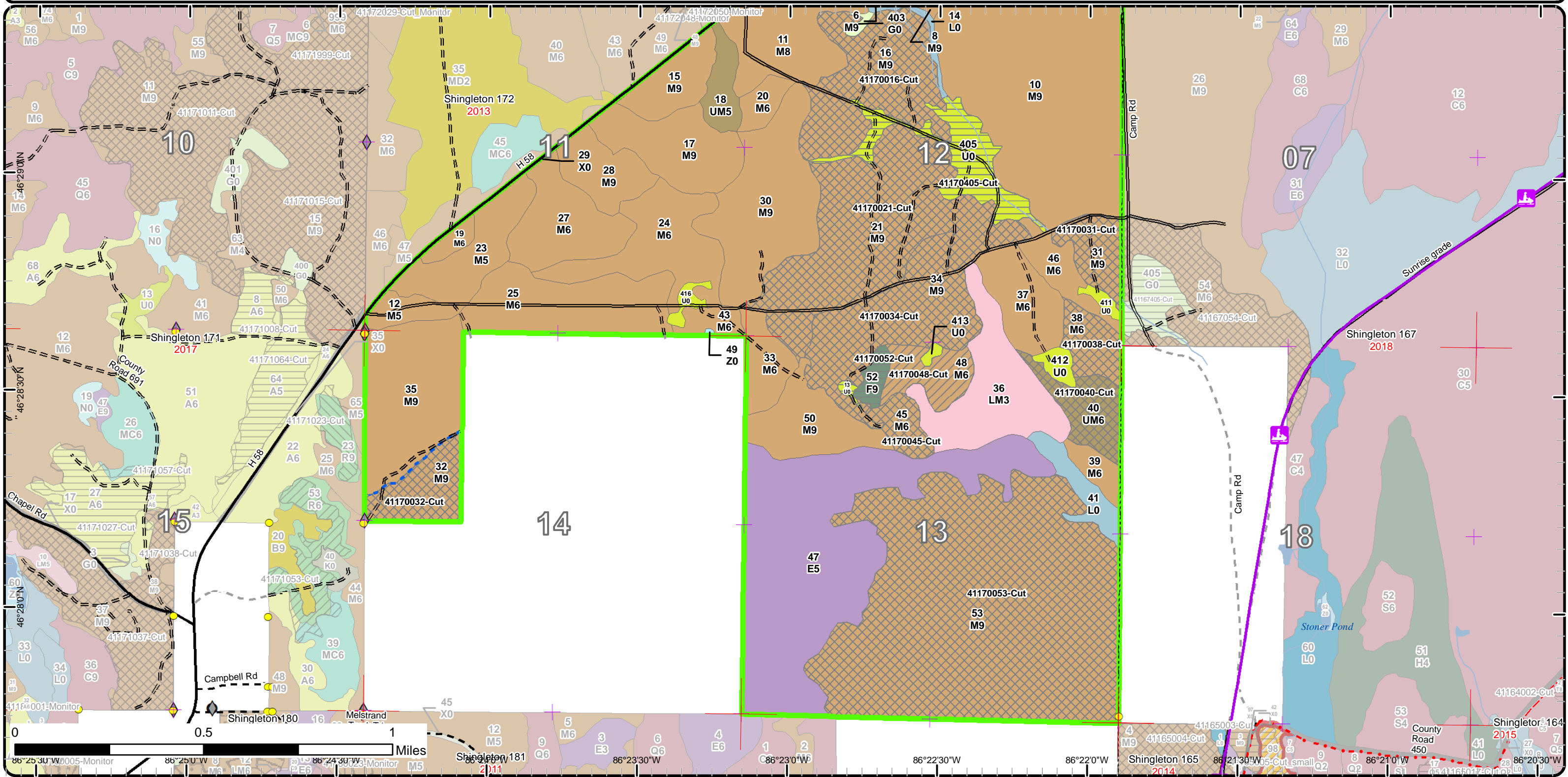


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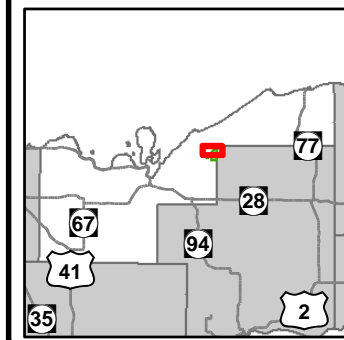


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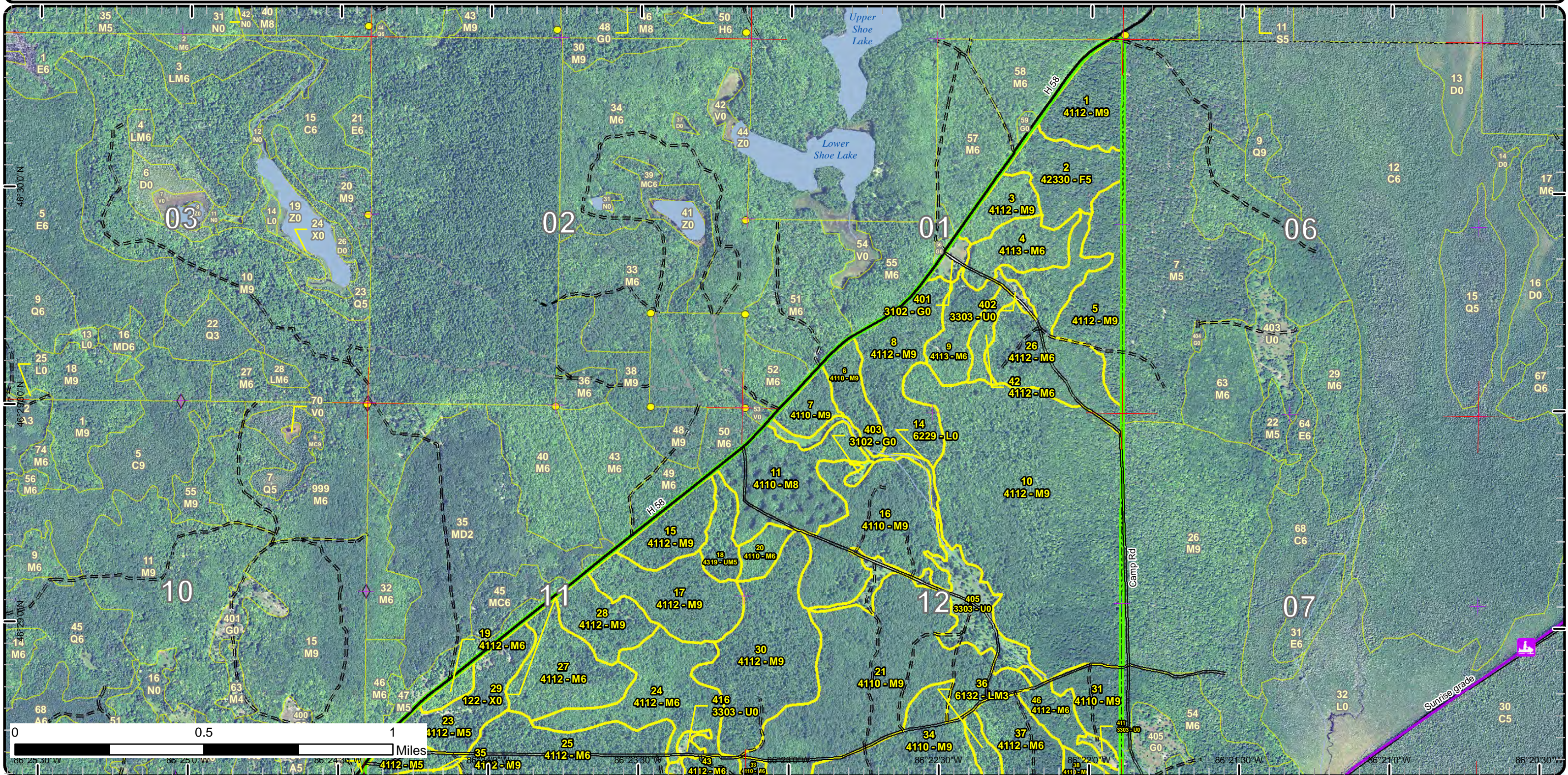


Stand Boundary Map

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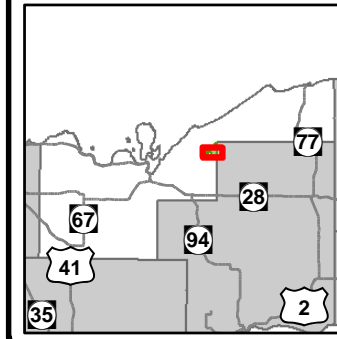


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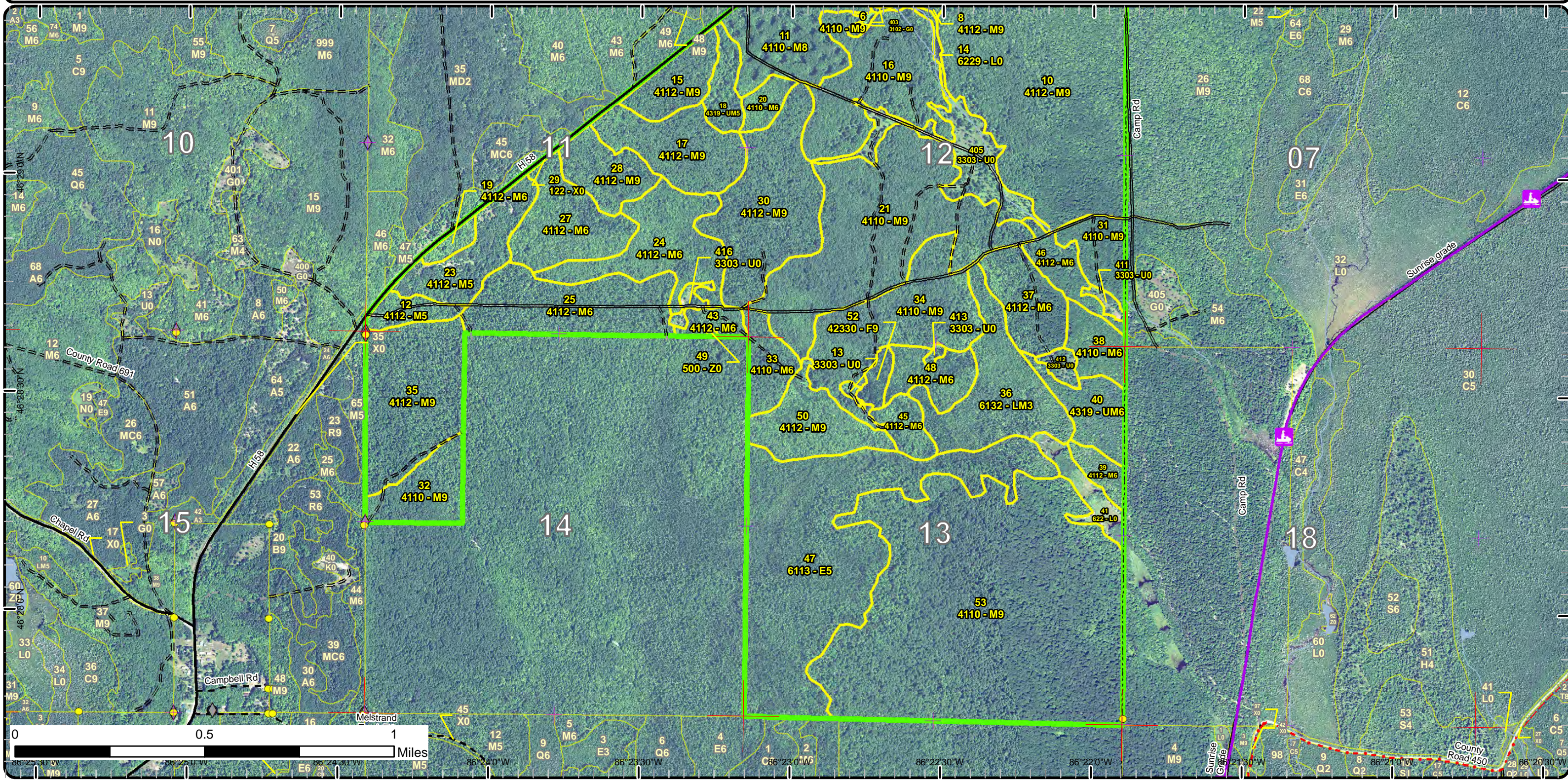


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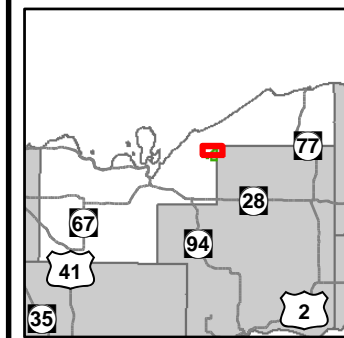


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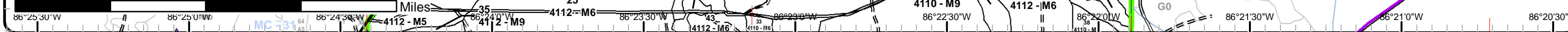
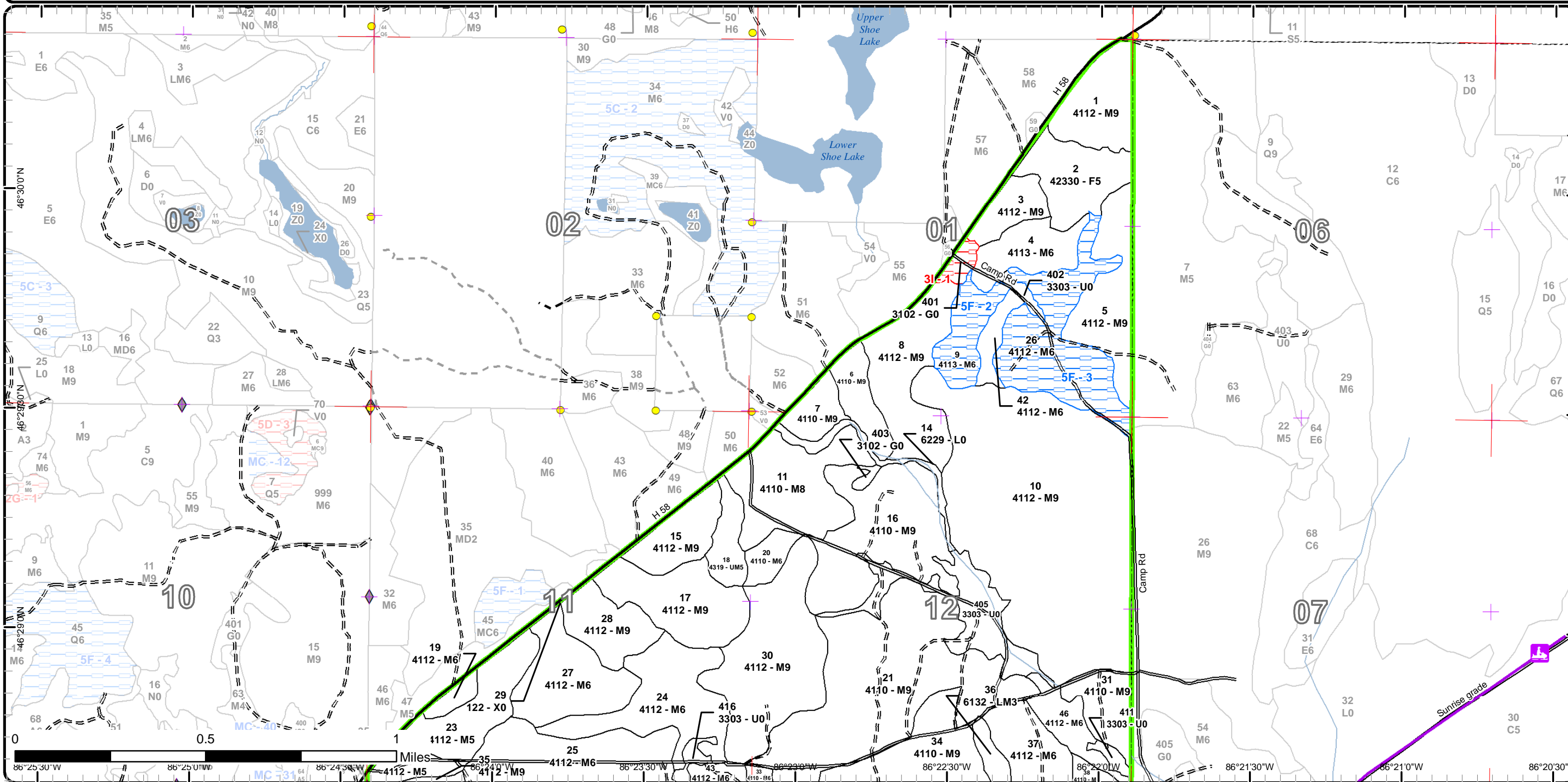


Special Conservation Areas & Site Conditions Map

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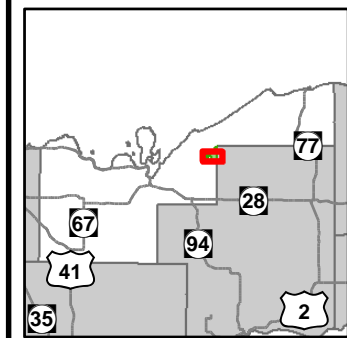


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3I: Historical / archeological (add locked comments)
- Stand Boundaries
- Cold Water Streams

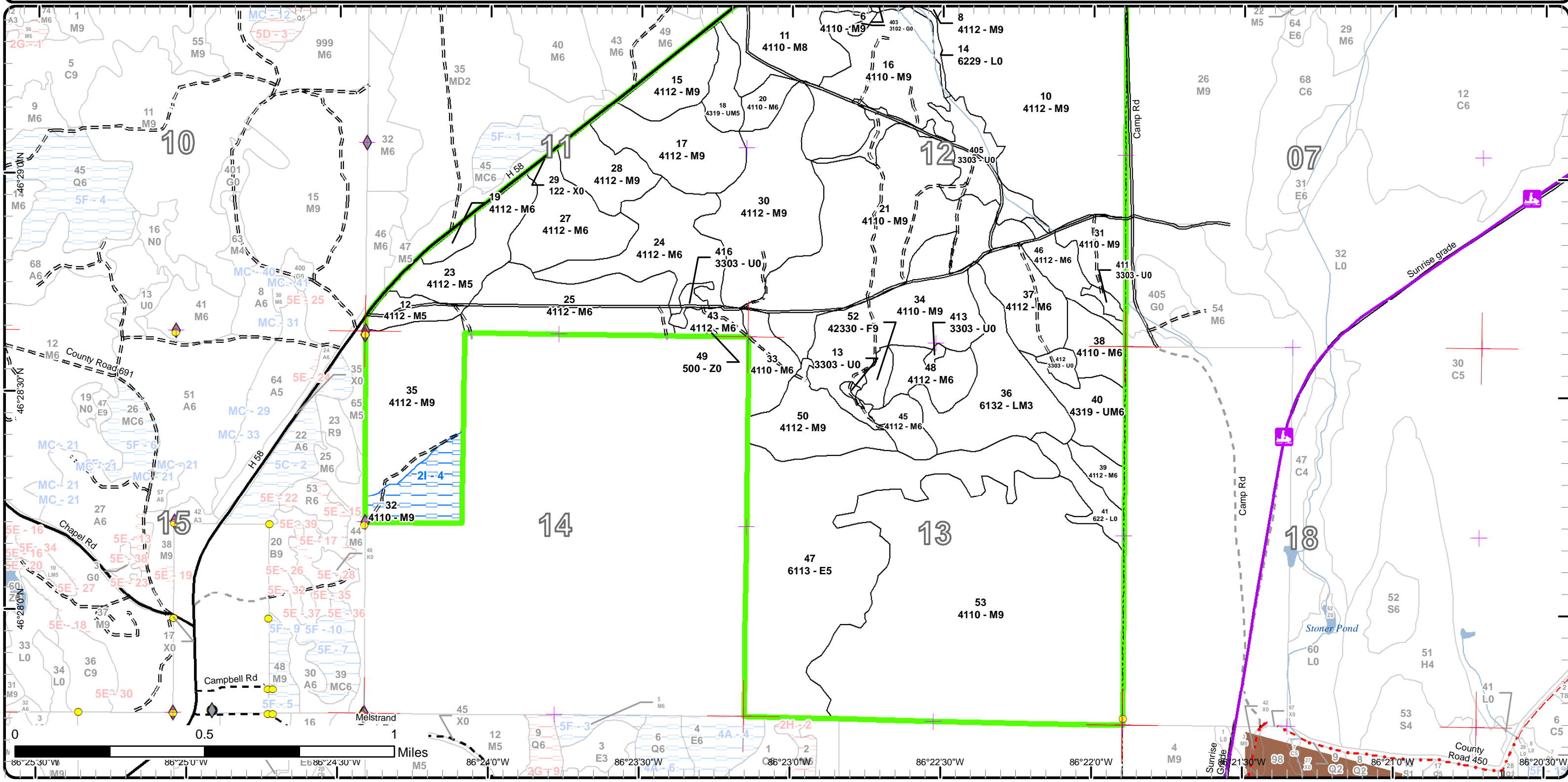


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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Deciduous	0	0	0	0	0	0	0	0	157	0	0	0	0	0	0	0	0	0	157
Lowland Mixed Forest	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Northern Hardwood	0	0	0	0	0	88	19	10	0	0	0	0	0	0	0	0	0	1484	1600
Upland Mixed Forest	0	0	0	0	0	13	21	0	0	0	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	29	35
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	82	0	52	0	0	94	32	21	167	0	0	0	0	0	0	0	0	1513	1959



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 170
Total Compartment Acres: 1,959

Commercial Harvest - 678
Harvests with Site Condition - 24
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Low-Density Trees	31	0	0	0	0	0	0	0	0	31
Northern Hardwood	0	600	0	0	18	0	0	0	0	618
Upland Mixed Forest	0	21	0	0	0	0	0	0	0	21
Upland Spruce/Fir	6	27	0	0	0	0	0	0	0	33
Total	37	648	0	0	18	0	0	0	0	702

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	702	0	0	0	0	0	0	0	0	702
Next Step	0	0	11	0	0	673	0	30	0	714
Total	702	0	11	0	0	673	0	30	0	1417



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	41170002-Cut	26.8	42330 - Upland Fir	Poletimber Medium	86	111- 140	Harvest	Group Selection	4319 - Mixed Upland Forest	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all spruce and fir for SBW as well as beech and aspen. Additional wood may need to be marked for operations, do not cut hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of species

Regen:

Other

Comment:

Proposed Start Date: 10/13/2017

7	41170007-Cut	11.1	4110 - Sugar Maple Association	Sawtimber Well	86	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Light thinning, release regen, mark to 80BA

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

13	41170013-Cut	1.1	3303 - Mixed Low Density Trees	Nonstocked	0	Unspec ified	Harvest	Clearcut	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening maintenance.

Specs:

Next Step Monitoring, Other - Specify

Treatments:

Acceptable Grasses and weeds

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

16	41170016-Cut	63.0	4110 - Sugar Maple Association	Sawtimber Well	86	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to 80BA, mark regen gaps a bit larger than standard, promote underrepresented species where possible. use redline to buffer drainage,

Specs: ground is low with little to no timber value in that influence zone.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
21	41170021-Cut	116.3	4110 - Sugar Maple Association	Sawtimber Well	86	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mark to 80BA, make some larger canopy gaps where no regeneration exists and around under-represented species to promote diversity.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods.

Regen:

Other Keep to mark, easy ground with very little regen.

Comment:

Proposed Start Date: 10/01/2018

31	41170031-Cut	17.6	4110 - Sugar Maple Association	Sawtimber Well	86	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Light thinning to release advanced regeneration, open existing gaps.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood

Regen:

Other

Comment:

Proposed Start Date: 10/13/2017

32	41170032-Cut	24.3	4110 - Sugar Maple Association	Sawtimber Well	86	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Mark to 80 BA, promote cherry where possible-tree length openings around seed tree.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black cherry and other species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

34	41170034-Cut	62.4	4110 - Sugar Maple Association	Sawtimber Well	86	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to 80BA, make some larger canopy gaps where no regeneration exists and around under-represented species to promote diversity.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
38	41170038-Cut	15.6	4110 - Sugar Maple Association	Poletimber Well	76	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Light thinning to release advanced regeneration. Mark to 80BA

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/13/2017

40	41170040-Cut	20.9	4319 - Mixed Upland Forest	Poletimber Well	60	81-110	Harvest	Group Selection	4319 - Mixed Upland Forest	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove all merchantable Fir and Spruce. May need to mark addition timber for operations, stand does vary in composition.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of species.

Regen:

Other

Comment:

Proposed Start Date: 10/13/2017

45	41170045-Cut	11.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	76	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to 50-60 BA. Plant oak in openings.

Specs:

Next Step Planting, Initial Plant

Treatments:

Acceptable Northern hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

48	41170048-Cut	18.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	76	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to 60BA to push for regeneration, and promote current regeneration. Plant oak.

Specs:

Next Step

Treatments:

Acceptable Northern hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
52	41170052-Cut	5.8	42330 - Upland Fir	Sawtimber Well	48	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut, no retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fir with any mix species

Regen:

Other

Comment:

Proposed Start Date: 10/13/2018

53	41170053-Cut	278.5	4110 - Sugar Maple Association	Sawtimber Well	86	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to 80BA, re-open canopy gaps, promote under represented species where possible.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods

Regen:

Other

Access is the southwest corner.

Comment:

Proposed Start Date: 10/01/2018

405	41170405-Cut	29.9	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut no retention. Buffer drainage on east side.

Specs: Prescribed fire, farming (dozing, disking, raking seeding (native or naturalized species only), fertilizing and liming), chainsaw removal of competing trees and establishment of native hard and soft mast producers such as red oak, mountain ash or others.

Next Step NonForestMgt, Brushpile/Woody Debris Creation; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable grass

Regen:

Other

W41-1407.

Comment:

Include with any surrounding timber sales if possible.

Drainage protection to be determined by fish and wildlife division before sale is set up. (In email on 10/17/17, FD approved harvest without buffering the drainage 100', but keep the actual drainage protected.)

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 702.3**

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 170

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions			
		With Condition	Not Available		2I	5F	3I
6	2	0	4	Herbaceous Openland			4
46	46	0	0	Low-Density Trees			
157	157	0	0	Lowland Deciduous			
52	52	0	0	Lowland Mixed Forest			
21	21	0	0	Lowland Shrub			
1601	1503	98	0	Northern Hardwood	24	73	
33	33	0	0	Upland Mixed Forest			
35	35	0	0	Upland Spruce/Fir			
9	9	0	0	Urban			
0	0	0	0	Water			
1,959	1,857	98	4	Total Forested Acres	24	73	4
	95%	5%	0%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3I: Historical / archeological (add locked comments)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5F: Evaluated for Forest Health Considerations	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Green sheet- 14 BA B. Fir 1-2 sticks tall.							
3	Available	5F: Evaluated for Forest Health Considerations	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Green Sheet- 16BA of B. Fir 1-2 sticks tall							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 170

Year of Entry: 2019

4	Available	2I: Survey needed	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	28.1	86	51-80	Cut in 2011. 1163 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1435 at a cost of \$14421.20. (7/30/14 RH)
2	42330 - Upland Fir	Poletimber Medium	29.0	86	111-140	
3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.3	86	81-110	Has the appearance of an old shelterwood cut. Red shouldered hawk nest in stand.
4	4113 - R.Maple, Conifer	Poletimber Well	21.6	66	81-110	
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	34.9	86	81-110	Cut in 2011. 1163 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1435 at a cost of \$14421.20. (7/30/14 RH)
6	4110 - Sugar Maple Association	Sawtimber Well	14.7	86	81-110	Cut in 2011.
7	4110 - Sugar Maple Association	Sawtimber Well	11.1	86	81-110	
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	43.0	86	81-110	Cut in 2011. 1163 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1435 at a cost of \$14421.20. (7/30/14 RH)
9	4113 - R.Maple, Conifer	Poletimber Well	18.5	53	81-110	
10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	198.0	86	81-110	2017- Cut next entry, very good regeneration. Thinned in 2003. Underplanted with oak in 2005.
11	4110 - Sugar Maple Association	Sawtimber Medium	45.7	86	81-110	2017- Chery stand that was gap cut to regenerate cherry. Rest of stand can be thinned... Cut in 2012.
12	4112 - Maple, Beech, Cherry Association	Poletimber Medium	10.0	76	51-80	
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.0	86	81-110	Cut in 2012. 350 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1434 at a cost of 4340.00. (7/30/14 RH)
16	4110 - Sugar Maple Association	Sawtimber Well	63.0	86	111-140	
17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	37.8	96	81-110	cut in 2012
18	4319 - Mixed Upland Forest	Poletimber Medium	12.5	55	1-50	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.8	66	51-80	OPIC - FMD: Borders H-58. Flat ground with an old RR grade through the stand. Regeneration consists of hardwood, b.fir and w.pine. Soil=Kalkaska Sand, 0-6% slopes
20	4110 - Sugar Maple Association	Poletimber Well	8.2	86	81-110	
21	4110 - Sugar Maple Association	Sawtimber Well	116.3	86	81-110	Do not contract out. Easy marking.
23	4112 - Maple, Beech, Cherry Association	Poletimber Medium	30.1	48	1-50	
24	4112 - Maple, Beech, Cherry Association	Poletimber Well	45.5	50	81-110	
25	4112 - Maple, Beech, Cherry Association	Poletimber Well	52.8	86	51-80	[5/15/2011 JB] Timber sale has been cut and red oak and hemlock were planted, FTP W41-1431 can be closed.
26	4112 - Maple, Beech, Cherry Association	Poletimber Well	54.8	86	81-110	There are small openings throughout the stand.
27	4112 - Maple, Beech, Cherry Association	Poletimber Well	36.3	48	81-110	Pocket of white pine on east side.
28	4112 - Maple, Beech, Cherry Association	Sawtimber Well	22.1	86	51-80	cut in 2012
30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	66.4	86	81-110	Cut in 2012
31	4110 - Sugar Maple Association	Sawtimber Well	17.6	86	51-80	
32	4110 - Sugar Maple Association	Sawtimber Well	24.3	86	81-110	Cut under #024-95 in apx. 1997.
33	4110 - Sugar Maple Association	Poletimber Well	16.8	86	81-110	Cut in 2013.
34	4110 - Sugar Maple Association	Sawtimber Well	62.4	86	51-80	Stand thinned in summer and fall of 1997, then east portion against the north finger of stand 36 had salvage of windthrow in 2001.
35	4112 - Maple, Beech, Cherry Association	Sawtimber Well	62.7	86	51-80	[5/15/2011 JB] Timber sale has been cut and red oak and hemlock were planted, FTP W41-1431 can be closed. [7-19-11] Sale is now complete TCR dtd 7-18-11.
36	6132 - Mixed Lowland Forest with Cedar	Sapling Well	51.6	16	Immature	Cut in 2002.
37	4112 - Maple, Beech, Cherry Association	Poletimber Well	27.2	86	81-110	Cut in 2012. 350 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1434 at a cost of 4340.00. (7/30/14 RH)

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 170
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4110 - Sugar Maple Association	Poletimber Well	15.6	76	81-110	
39	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.2	66	81-110	
40	4319 - Mixed Upland Forest	Poletimber Well	20.9	60	81-110	
42	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.9	51	81-110	
43	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.6	48	51-80	
45	4112 - Maple, Beech, Cherry Association	Poletimber Well	11.0	76	81-110	Cut apx. 1997. Very poor quality stand, perhaps a shelterwood or seedtree to reset the stand and produce some better quality timber.
46	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.5	46	1-50	Old opening that has filled in with trees. Looks like an old gravel pit or similar use, stand 411 would be part of old pit.
47	6113 - Lowland Maple	Poletimber Medium	156.7	75	51-80	Large stand - tree species composition and BA varies throughout. Stoner Creek is in the north part of the stand. 98=hemlock and w.pine Carbondale, Lupton and Tawas Soils
48	4112 - Maple, Beech, Cherry Association	Poletimber Well	18.0	76	81-110	
50	4112 - Maple, Beech, Cherry Association	Sawtimber Well	31.4	86	51-80	Prescribe in 2029. Stand is well stocked with small yellow birch, most beech should fall out of the stand by 2029. Push to promote more yellow birch and release existing. Stand is mostly poor quality red maple and beech.
52	42330 - Upland Fir	Sawtimber Well	5.8	48	81-110	
53	4110 - Sugar Maple Association	Sawtimber Well	278.5	86	111-140	Cut in 2001.



Stand	Cover Type	Acres	Managed Site	General Comments:
13	3303 - Mixed Low Density Trees	1.2	No	old opening with a mix of trees.
14	6229 - Mixed lowland shrub	7.6	No	OPIC - FMD: Marsh area with seasonal water flow. Soil=Tawas-Deford Mucks
29	122 - Road/Parking Lot	9.4	No	OPIC - FMD: H-58 ROW.
41	622 - Lowland Shrub	13.1	No	OPIC - FMD: Stoner Creek and ponds. Carbondale, Lupton and Tawas Soils
49	500 - Water	0.3	No	OPIC - FMD: Small pond. Carbondale, Lupton and Tawas soils
401	3102 - Grass	4.4	No	Grassy opening at the intersection of H-58 and Camp 1 Rd.
402	3303 - Mixed Low Density Trees	2.6	No	OPIC - FMD: Grass stand along the Camp 1 Rd. Scattered cherry and spruce. Soil=Garlic Sand, 0-6% slopes
403	3102 - Grass	1.5	No	OPIC - FMD: Small grassy opening. soil=Munising-Yalmer-Frohling Complex, Calcareous Substratum, 1-6% slopes
405	3303 - Mixed Low Density Trees	29.9	Yes	OPIC - FMD: Large grassy opening. Hardwood trees encroaching around edges. Scattered cherry, r.maple. Prescribed for opening maintenance. W41-1407
411	3303 - Mixed Low Density Trees	2.7	No	OPIC - FMD: Grassy opening, filling in with trees. Slightly lower ground than surrounding hardwood stands. Soil=Kalkaska-Cusino Complex 1-6% slopes
412	3303 - Mixed Low Density Trees	4.5	No	OPIC - FMD: Grassy opening, filling in with trees. Soil=Kalkaska Sand, 0-6% slopes
413	3303 - Mixed Low Density Trees	1.2	No	
416	3303 - Mixed Low Density Trees	3.5	No	