



# Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11045

Entry Year 2020

Acreage: 1,906

County Houghton

Management Area: Central Houghton

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**Revision Date:** 2018-03-07

**Stand Examiner:** Jason Mittlestat

**Legal Description:**

Elm River Township  
T51N, R35W, Section 7.  
T51N, R36W, Sections 11, 13 and 14.

**Identified Planning Goals:**

To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

**Soil and topography:**

The topography is level to rolling. There are some steep slopes along Beaver Creek. Upland soils are: Munising loamy fine sand, Alcona loamy fine sand, Liminga fine sand, Skanee fine sandy loam, Yalmer sand, Kalkaska sand, AuGres sand, and Waiska gravelly sand. Lowland soils are: Gay mucky sandy loam and Graverat loam.

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

The majority of the surrounding land is managed for timber purposes by Industry and the State. There are a few isolated parcels of private land in this compartment which are used for both recreational and timber purposes.

**Unique Natural Features:**

MNFI recognizes the potential for red-shouldered hawk, northern goshawk, eagle, osprey, great blue heron rookeries, gray wolf, moose and wood turtle (along drainages).

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

None.

**Special Management Designations or Considerations:**

BMP guidelines should be followed around the intermittent streams and Beaver Creek

**Watershed and Fisheries Considerations:**

Erosion is a concern along Beaver Creek. Beaver activity also of concern.

**Wildlife Habitat Considerations:**

Vernal ponds are important for wildlife and should not be disturbed during harvesting operations. Favor mesic conifers; White Pine and Hemlock, as well Northern Red Oak. An earthen dam at the southeastern corner of Pike Lake regulates its water level. The water control structure (drop tube, stoplogs, and outlet tube) was replaced and the upstream side of the dam was reinforced in 2005.

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

There is no active sand & gravel production in the area, but there should be some potential within the compartment. There is no history of mineral leasing within the compartment, and there does not appear to be any known metallic or bedrock non-metallic mineral potential. There is no economic oil and gas production in the UP. The state does not own any mineral rights within Section 14.

**Vehicle Access:**

The Pike Lake Road is a county road that passes through Sections 11, 13 and 14 of this compartment. There are several forest roads in fair to poor condition throughout the compartment.

**Survey Needs:**

Some survey work will need to be done for harvest activities.

**Recreational Facilities and Opportunities:**

The area provides excellent opportunities for small game, bear and deer hunting. Pike Lake and Beaver Creek also offer some good fishing opportunities.

**Fire Protection:**

This compartment has minimal fire activity.

**Additional Compartment Information:**

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

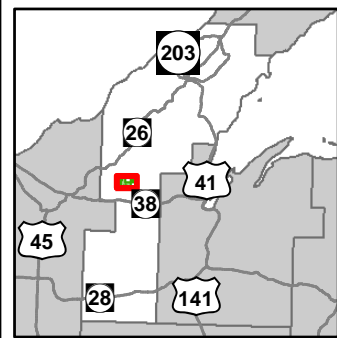
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

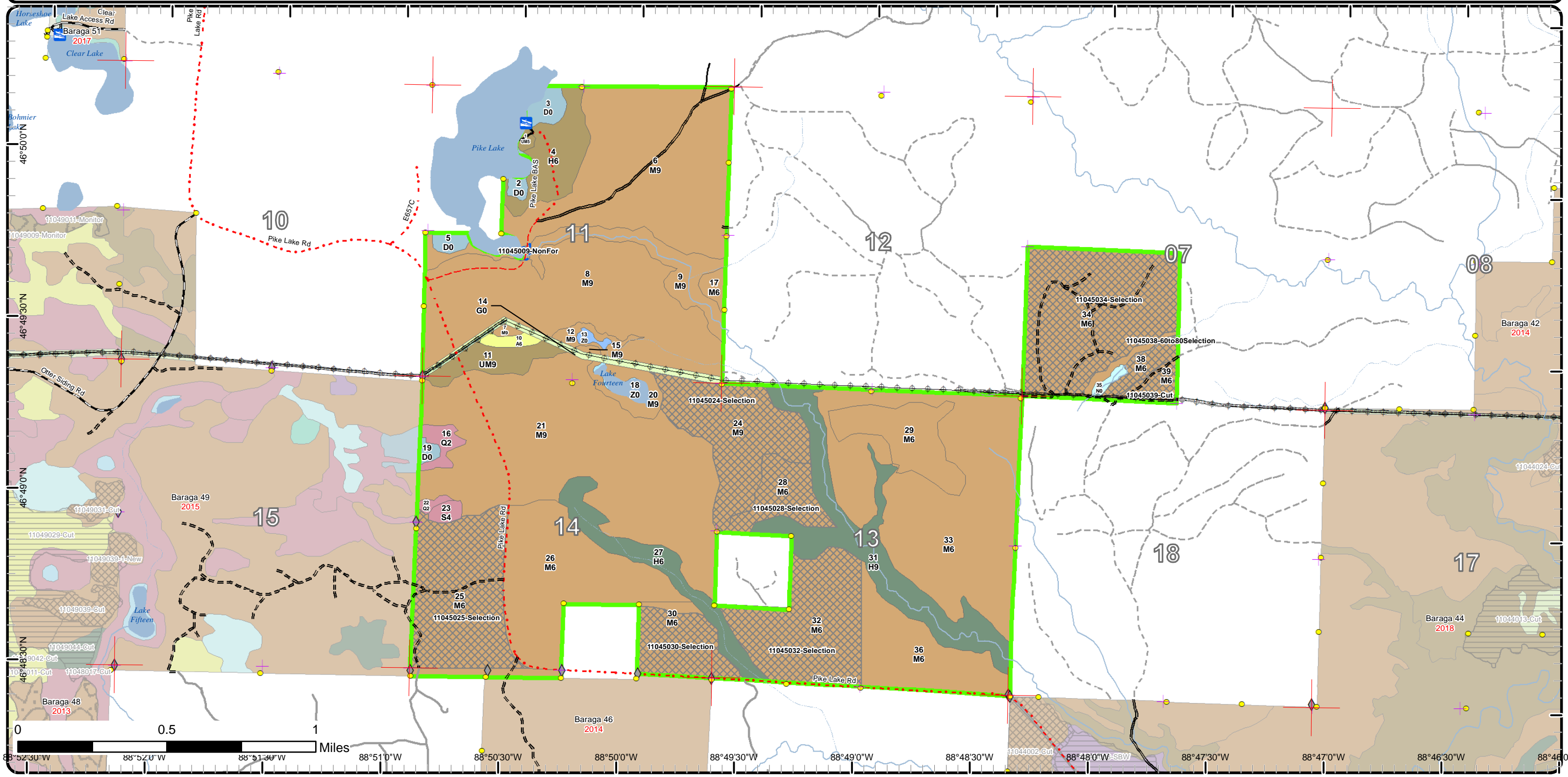
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 45  
 T51N, R36W, Sec. 11, 13, 14  
 T51N, R35W, Sec. 07  
 County: Houghton  
 Unit: Baraga  
 Mgmt Area: Central Houghton  
 YOE: 2020  
 Acres: 1,906 GIS Calculated  
 Examiner: Jason Mittlestat  
 Map Revised: 4/19/2019  
 Map Phase: Post Review

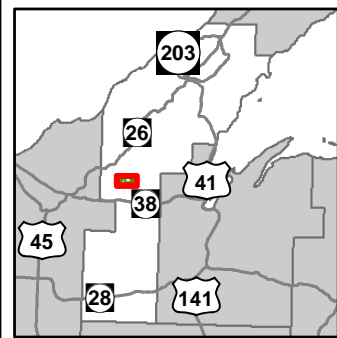


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Primary Forest Road
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State / County - Paved Road
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- - County - Gravel Road
- - County - Dirt Road (Seasonal)
- Private - Paved Road
- - Private - Dirt / Gravel Road
- Boating Access Site
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 621 - Floating Aquatic
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

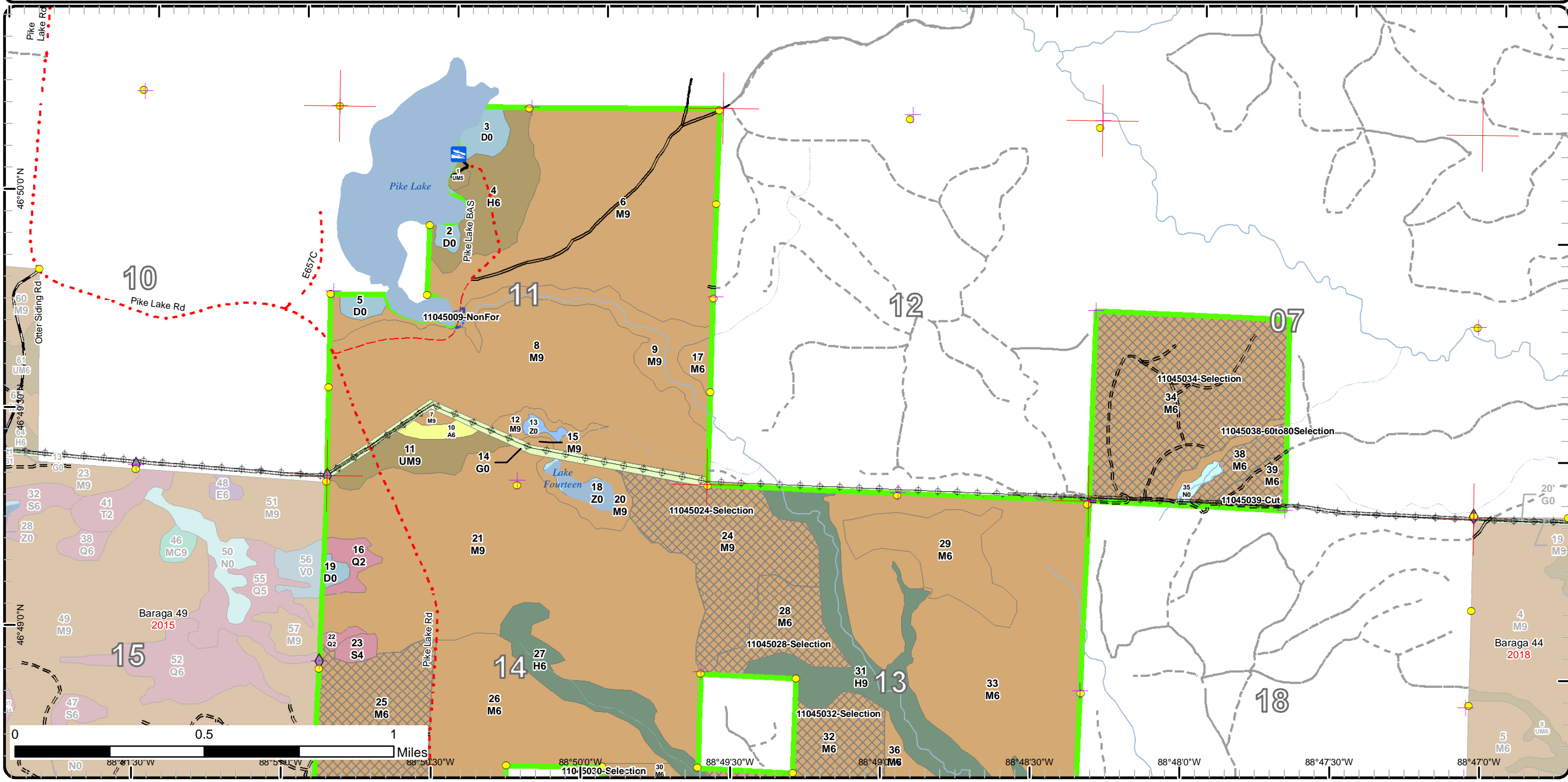


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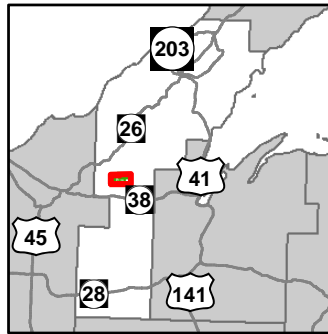


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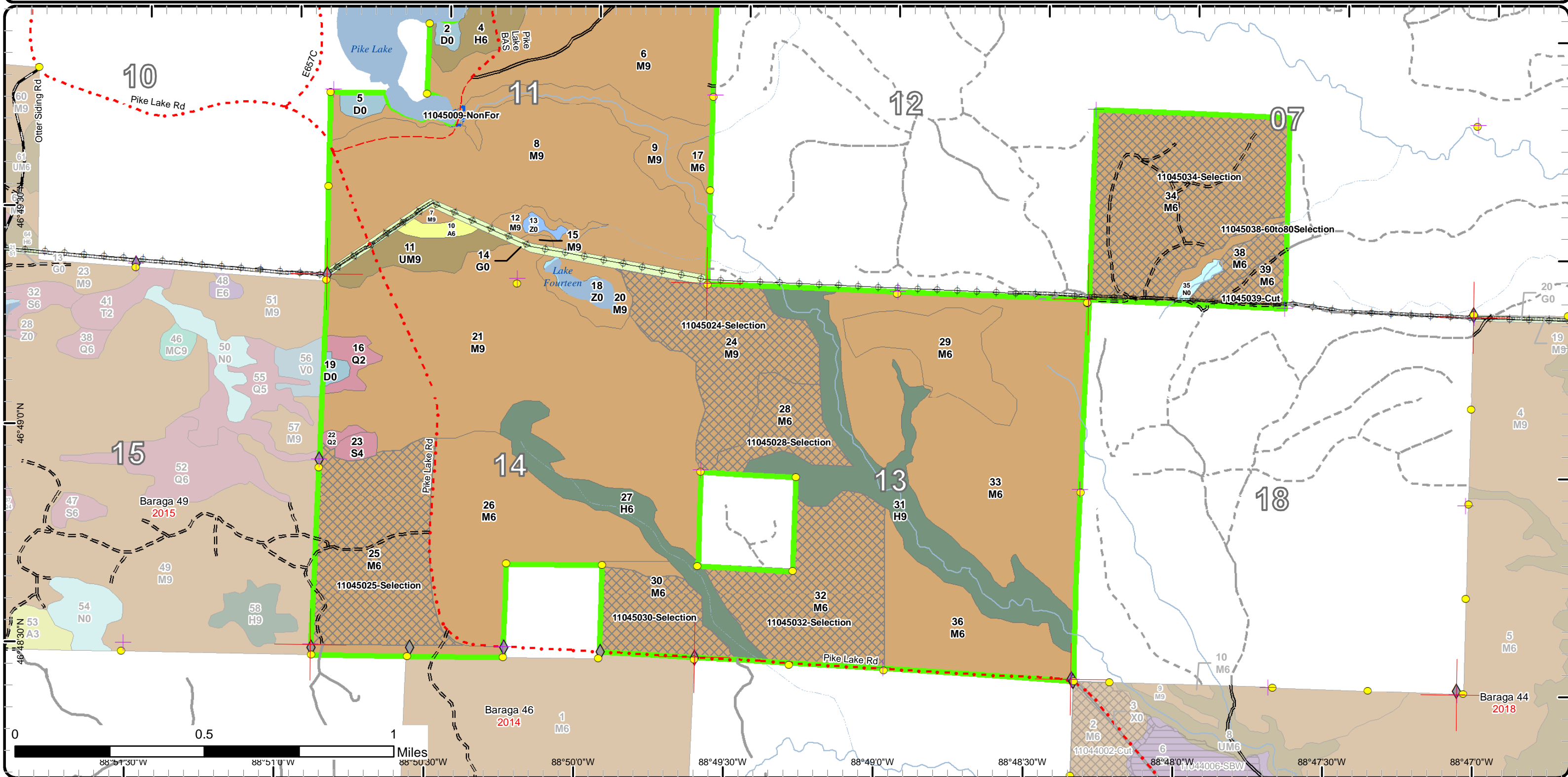


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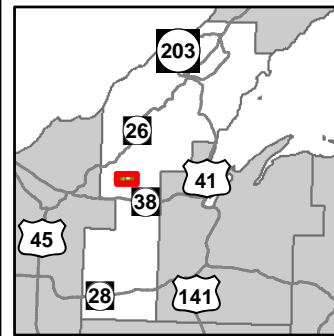


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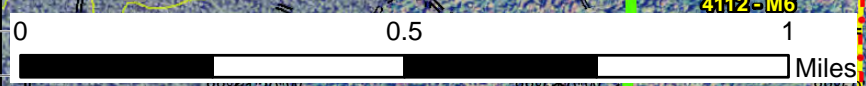
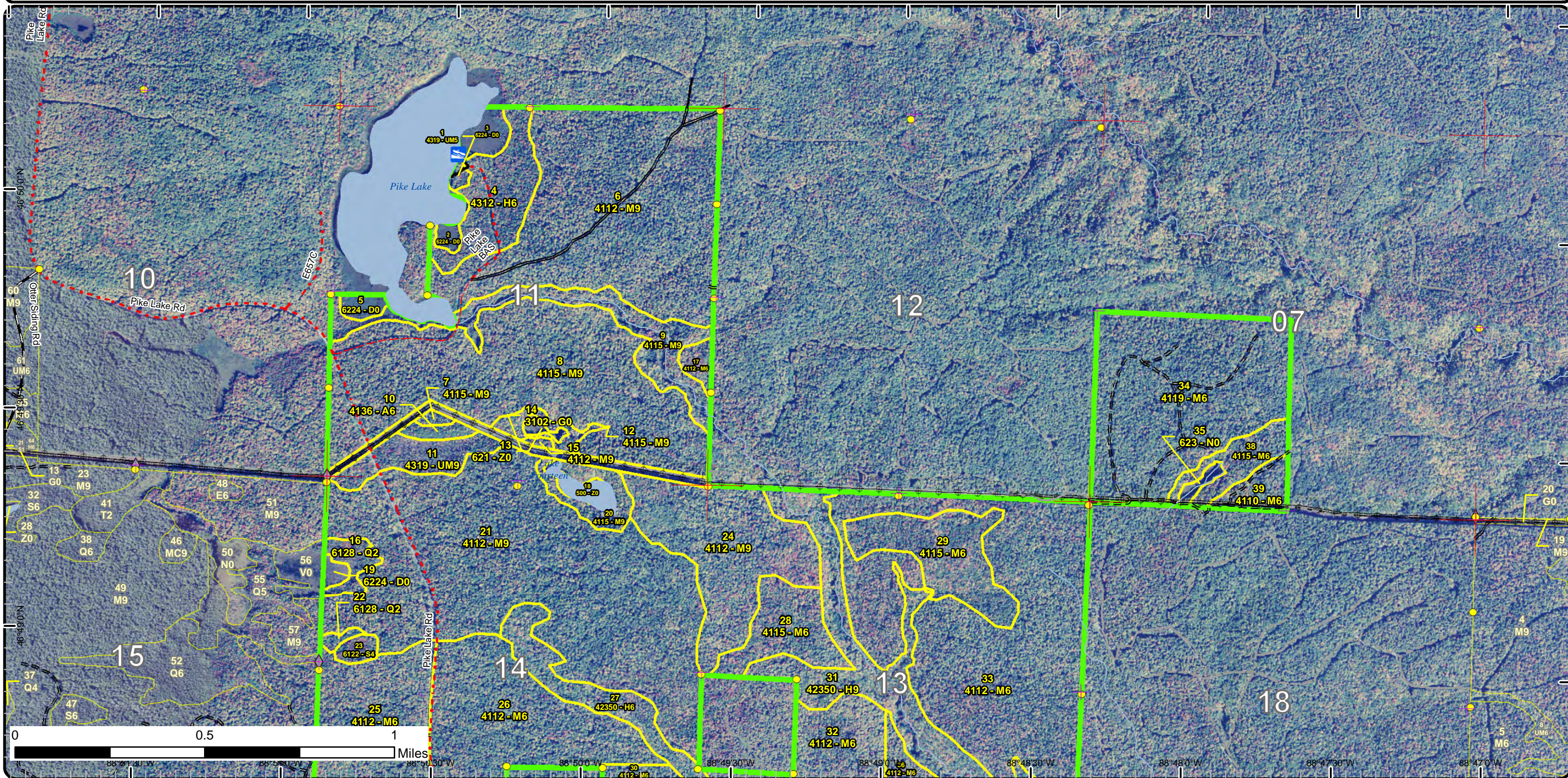


# Stand Boundary Map

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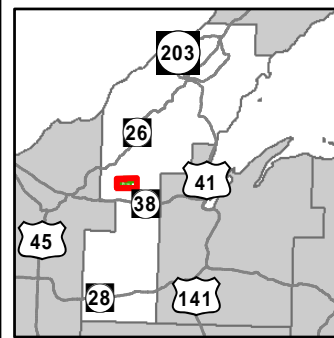
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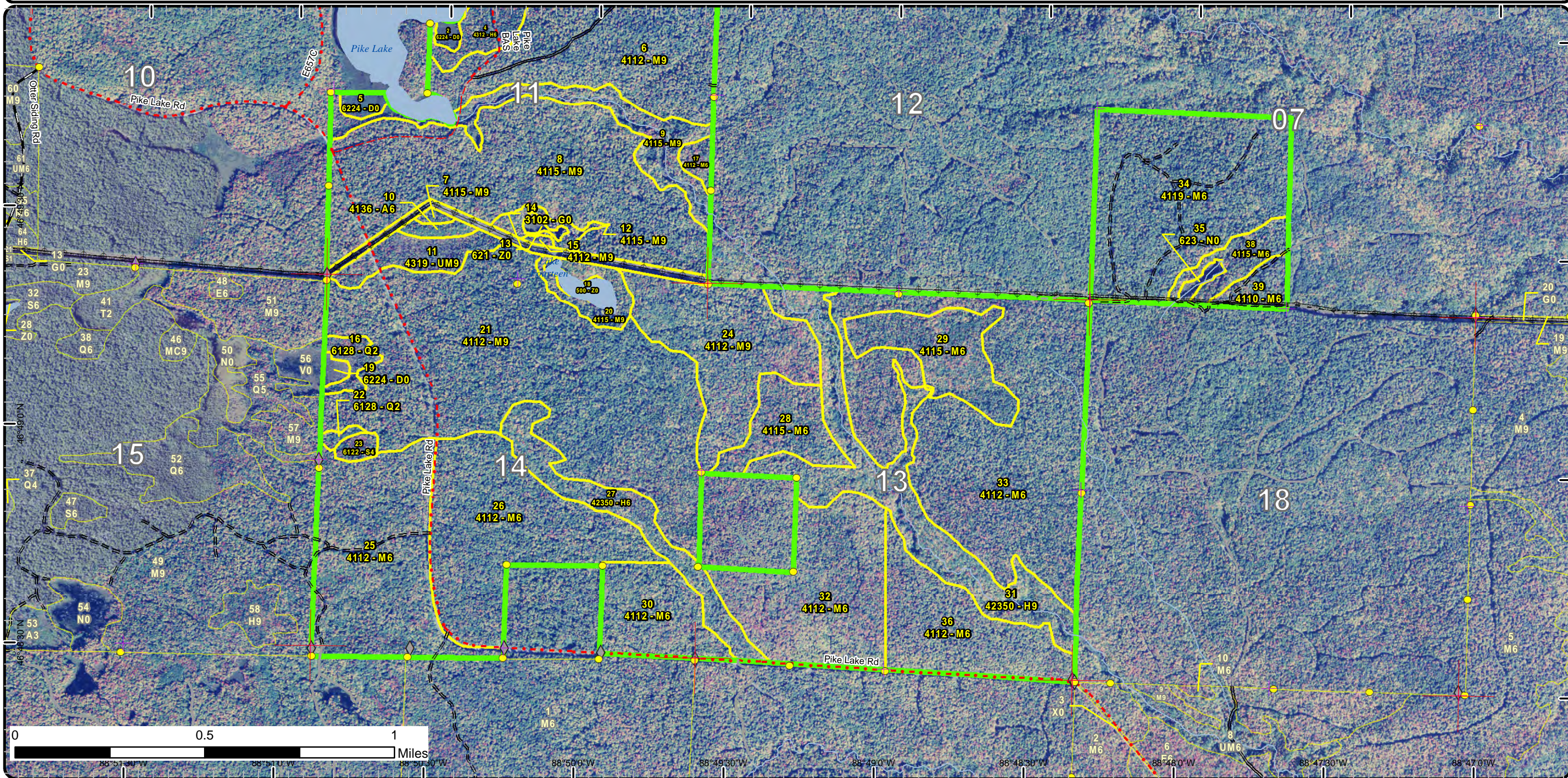
88°41'30"W
88°50'00"W
88°58'30"W
89°07'00"W
89°15'30"W
89°24'00"W
89°32'30"W
89°41'00"W
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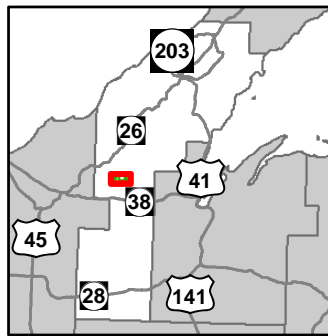


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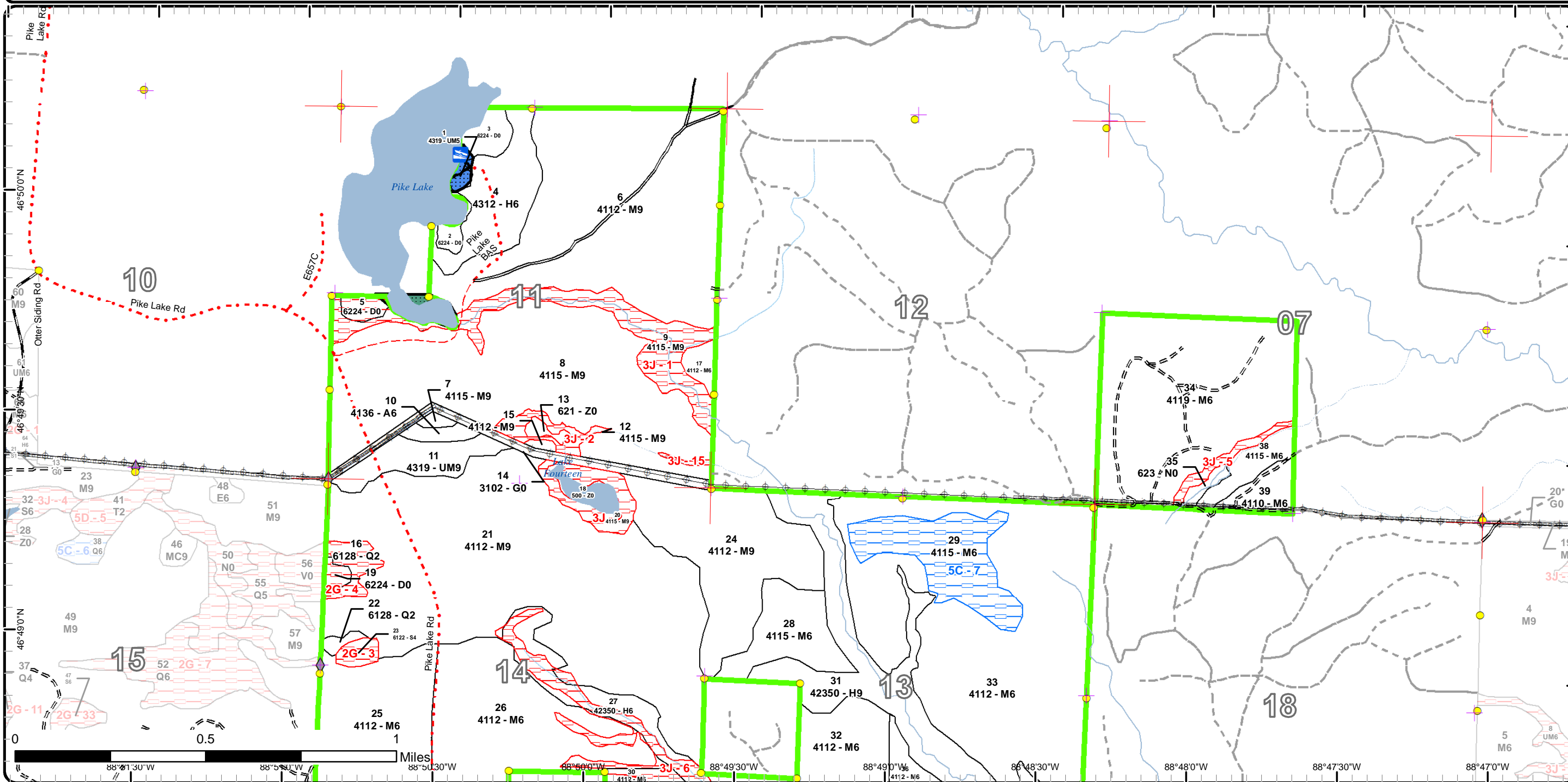


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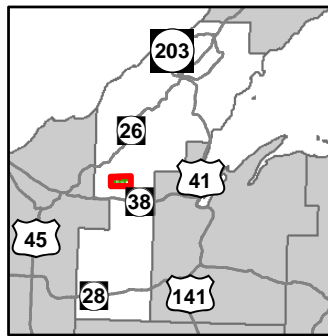
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|---|---|---|



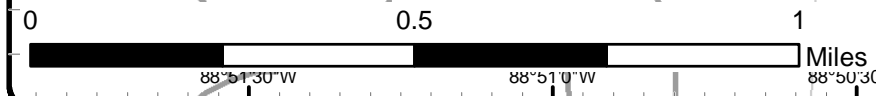
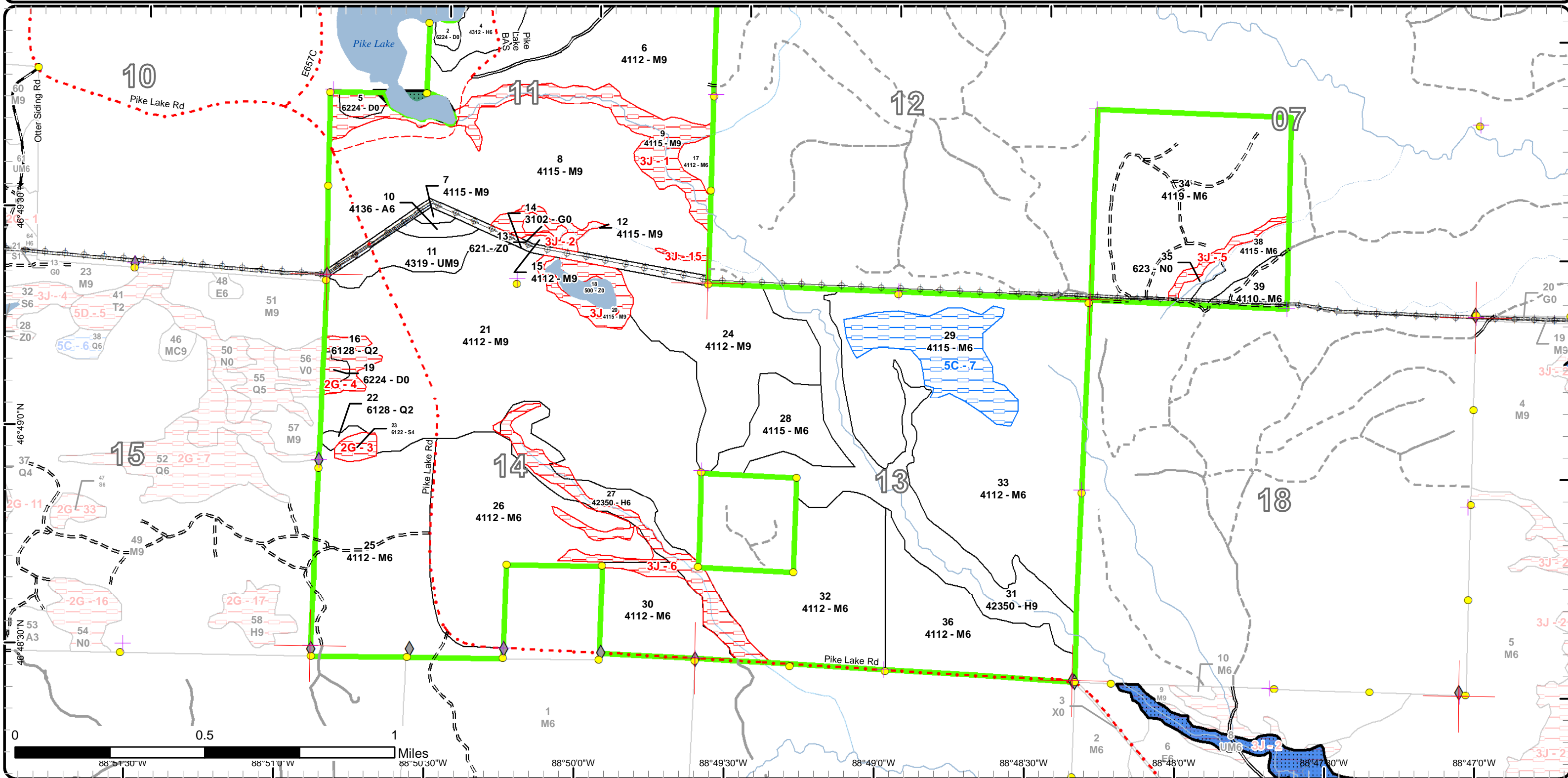


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- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Boat Access Site
- Habitat Corridor



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166	166
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	8	10
Lowland Spruce/Fir	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1648	1648
Treed Bog	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
<b>Total</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1845</b>	<b>1903</b>



## Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 45  
Total Compartment Acres: 1,906

Commercial Harvest - 505  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	505	0	0	0	0	0	0	0	505
	<b>Total</b>	<b>0</b>	<b>505</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>505</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		505	0	0	0	0	0	0	1		506
Next Step		0	0	0	0	0	505	0	0		505
	<b>Total</b>	<b>505</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>505</b>	<b>0</b>	<b>1</b>		<b>1011</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
6	11045009-NonFor	0.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	81-110	NonForestMgt	Brush Cutting	31021 - Cool Season Grass		Draft Field Boundary

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

Prescription Cut all brush around Dam to protect its structural integrity.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments: Monitor and repeat as needed.

Comment:

Proposed Start Date: 10/1 /2018

24	11045024-Selection	81.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No****Site Condition:**

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other Retention: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2019

25	11045025-Selection	102.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	69	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No****Site Condition:**

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other Retention: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2019

28	11045028-Selection	30.2	4115 - Y.Birch, Hemlock NH	Poletimber Well	88	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No****Site Condition:**

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other Retention: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	11045030-Selection	39.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	76	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits

**Habitat Cut: No**

**Site Condition:**

Prescription Specs: Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

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

Acceptable Regen: Any combination of the original stand's over story species prior to harvest.

Other Comment: Retention: 3-10% BA will be the retention for this stand.

Proposed Start Date: 10/1 /2019

32	11045032-Selection	93.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	83	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No**

**Site Condition:**

Prescription Specs: Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

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

Acceptable Regen: Any combination of the original stand's over story species prior to harvest.

Other Comment: Retention: 3-10% BA will be the retention for this stand.

Proposed Start Date: 10/1 /2019

34	11045034-Selection	133.5	4119 - Mixed Northern Hardwoods	Poletimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No**

**Site Condition:**

Prescription Specs: Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

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

Acceptable Regen: Any combination of the original stand's over story species prior to harvest.

Other Comment: Retention: 3-10% BA will be the retention for this stand.

Proposed Start Date: 10/1 /2019

38	11045038-60to80Selection	12.0	4115 - Y.Birch, Hemlock NH	Poletimber Well	78	111-140	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Uneven-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No**

**Site Condition:**

Prescription Specs: Mark to selectively thin hardwoods to 60-80 square feet of basal area. Favor oak, hemlock, white pine and cedar where present. Follow all guidelines set forth in "The Complete Marker".

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

Acceptable Regen: Any combination of the original stand's over story species prior to harvest.

Other Comment: Retention: 3-10% BA will be the retention for this stand.

Proposed Start Date: 10/1 /2019



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
39 11045039-Cut	11.7	4110 - Sugar Maple Association	Poletimber Well	99	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits

**Habitat Cut: No**

**Site Condition:**

Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where/if present. Oak should be released on 3 sides to an average BA of 60 sqft. Follow all guidelines set forth in "The Complete Marker".

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.

Regen:

Other Retention: 3-10% BA will be the retention for this stand.

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment Acreage Proposed: 505.7**

## Report 4 – Site Conditions

Baraga Mgt. Unit  
Jason Mittlestat : Examiner

Compartment: 45  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	3J
		With Condition	Not Available				
5	5	0	0	Aspen			
166	126	0	40	Hemlock			40
16	16	0	0	Herbaceous Openland			
10	2	0	8	Lowland Conifers		8	
4	0	0	4	Lowland Spruce/Fir		4	
3	3	0	0	Marsh			
1647	1523	44	81	Northern Hardwood	44		81
21	13	0	8	Treed Bog		3	5
23	23	0	0	Upland Mixed Forest			
8	8	0	0	Water			
1,903	1,719	44	140	Total Forested Acres	44	15	125
	90%	2%	7%	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	3J: Water quality / BMPs (stream, river, or lake)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Baraga Mgt. Unit  
Jason Mittlestat : Examiner

Compartment: 45  
Year of Entry: 2020

4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.

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## Baraga Mgt. Unit

## Report 7 – Forested Stands

Compartment: 45  
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Poletimber Medium	2.2	91	81-110	Stand is Pike Lake Access site.
4	4312 - Hemlock, Mixed Deciduous	Poletimber Well	36.8	80	81-110	Stand had blowdown from summer 2016 windstorm
6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	180.3	85	81-110	Stand had blowdown from summer 2016 windstorm.
7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	1.8	79	51-80	
8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	178.2	93	81-110	Stand had blowdown from summer 2016 windstorm. Some was salvaged.
9	4115 - Y.Birch, Hemlock NH	Sawtimber Well	41.9	93	81-110	
10	4136 - Aspen, Mixed Conifer	Poletimber Well	4.6	38	51-80	
11	4319 - Mixed Upland Forest	Sawtimber Well	20.6	90	81-110	
12	4115 - Y.Birch, Hemlock NH	Sawtimber Well	7.4	76	51-80	
15	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.1	102	51-80	
16	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	8.1	29	1-50	
17	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.4	84	81-110	
20	4115 - Y.Birch, Hemlock NH	Sawtimber Well	13.9	91	111-140	
21	4112 - Maple, Beech, Cherry Association	Sawtimber Well	271.0	87	51-80	
22	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	2.2	29	1-50	
23	6122 - Black Spruce	Poletimber Poor	4.3	62	1-50	
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81.6	92	111-140	Ready for harvest 2018.
25	4112 - Maple, Beech, Cherry Association	Poletimber Well	112.2	69	111-140	Ready for harvest

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Baraga Mgt. Unit

## Report 7 – Forested Stands

Compartment: 45  
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4112 - Maple, Beech, Cherry Association	Poletimber Well	108.3	103	81-110	cut in the fall and winter of 2010-2011 as "High Step Hardwoods" 11-016-10-11
27	42350 - Upland Hemlock	Poletimber Well	39.6	99	111-140	
28	4115 - Y.Birch, Hemlock NH	Poletimber Well	30.2	88	111-140	
29	4115 - Y.Birch, Hemlock NH	Poletimber Well	43.8	88	111-140	
30	4112 - Maple, Beech, Cherry Association	Poletimber Well	42.8	76	111-140	
31	42350 - Upland Hemlock	Sawtimber Well	89.7	116	111-140	
32	4112 - Maple, Beech, Cherry Association	Poletimber Well	92.9	83	111-140	
33	4112 - Maple, Beech, Cherry Association	Poletimber Well	206.4	88	81-110	
34	4119 - Mixed Northern Hardwoods	Poletimber Well	133.5	81	111-140	
36	4112 - Maple, Beech, Cherry Association	Poletimber Well	65.5	76	81-110	
38	4115 - Y.Birch, Hemlock NH	Poletimber Well	17.6	78	111-140	Thin to 60-70BA to encourage the hemlock and oak. Drainage will have to be removed from treatment shape.
39	4110 - Sugar Maple Association	Poletimber Well	11.7	99	111-140	



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6224 - Treed Bog	3.9	No	
3	6224 - Treed Bog	9.1	No	
5	6224 - Treed Bog	4.7	No	
13	621 - Floating Aquatic	2.2	No	
14	3102 - Grass	15.7	No	
18	500 - Water	5.7	No	
19	6224 - Treed Bog	2.8	No	
35	623 - Emergent Wetland	3.1	No	Beaver flooding