



# Report 1 – Compartment Review Presentation

Baraga Forest Management Unit

Compartment 74

Entry Year 2015

Acreage: 1,251

County Keweenaw

Management Area: Central Keweenaw

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**Revision Date:** 07/17/2013

**Stand Examiner:** Jason Mittlestat

**Legal Description:**

T55N, R31W, Section 18, 20 Houghton County, Torch Lake Township  
T56N, R31W, Section 5, 28, 33, 34 Keweenaw County, Sherman Township  
T57N, R31W, Section 32, 33 Keweenaw County, Sherman Township

**Identified Planning Goals:**

Central Keweenaw (4.7)

To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs while protecting the watersheds for Thayer's Lake, Rice Lake, Little Rice Lake, Traverse River and Lake Superior.

**Soil and topography:**

The terrain is level to rolling. The lands around Lake Superior is a dune-swale complex. Soils are: Lupton, Tawas, Tawas-Deford complex, Croswell-Au Gres complex, Garlic-Alcona complex, Munising-Skanee complex, Skanee-Gay complex, Croswell, Au Gres, Deford muck, Croswell-Au Gres sands, Au Gres-Kinross complex, Deer Park sand, Dawson-Kinross complex, Cathro, Dawson, Greenwood, Loxley, Rubicon-Croswell complex, Au Gres-Deford-Croswell complex, Munising-Abbaye-Yalmer complex.

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

The compartment is surrounded by large industrial land owners and small private owners. The land use is predominantly for timber with the exception of the lands around Rice Lake which have several seasonal cottages and a few year round residence.

**Unique, Natural Features:**

Dune-Swale complex and Lake Superior Shoreline.

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

None Identified.

**Special Management Designations or Considerations:**

None Identified.

**Watershed and Fisheries Considerations:**

There are water access sites on Thayer's and Rice Lakes. Traverse River, Camp Creek, Finns Creek and Tobacco River flows through this compartment. The rivers and creeks listed here are all native brook trout streams.

**Wildlife Habitat Considerations:**

This compartment is found in the Central Keweenaw Management Area. This area is mostly on Beach Ridge and Dunes in northern Houghton and southern Keweenaw Counties. The dominant Natural Community is mesic northern forest. Major forest cover types include Upland Spruce-fir, Lowland Brush, and Paper Birch. The most significant wildlife management issues in the management area are: hard and soft mast; habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris; and deer wintering complexes. In addition the protection of thermal cover in the 5 Mile Point Deeryard is considered a high priority.

The following have been identified, as featured species for the Central Keweenaw Management Area:  
Black Bear, Northern Goshawk, and White-Tailed Deer.

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

Surface sediments consist of lacustrine (lake) sand and gravel and coarse-textured glacial till in T57N-R31W. The glacial drift thickness varies between 10 and 50 feet in Keweenaw Co. and 50 to 100 feet in Houghton Co. The Precambrian Jacobsville Sandstone subcrops below the glacial drift in all areas. The Jacobsville was previously used as a building stone. There are not any nearby gravel pits and potential may be limited on State lands. Abandoned copper mines,

containing some silver, are located to the west. None of the Compartment was previously leased but other State land in T57N-R31W was previously leased for copper exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Access to the Thayer's Lake parcel is by a woods road. The Gay-Lake Linden road provides access to the Traverse River parcel. There is an access road to the Rice Lake access site as well as a county road passing through state land south of Rice Lake and Little Rice Lake. There is no formal access to the Lake Superior Parcel.

**Survey Needs:**

Survey corners are needed around Rice Lake.

**Recreational Facilities and Opportunities:**

There is a snowmobile trail that crosses the Traverse River and Lake Superior parcels. There are access site on Thayer's and Rice Lakes

**Fire Protection:**

This is not a fire prone area. The Rice Lake, jack pine area is near the 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**

Report 2 – Total Acres by Cover Type and Age Class



	Age Class													Total	
	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 +		Uneven Age
Aspen	4	103	0	0	0	0	0	0	0	0	0	0	0	0	107
Cedar	0	0	0	0	0	0	0	0	0	0	50	4	0	47	102
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	16	20	15	0	0	124	0	0	44	218
Lowland Deciduous	7	0	0	0	0	0	0	0	0	9	0	0	0	0	16
Lowland Mixed Forest	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	62	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	13	80	0	0	0	93
Marsh	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	26	26
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
Red Pine	0	0	0	0	0	0	0	0	0	40	0	0	0	0	40
Sand, Soil	42	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Tamarack	0	0	0	0	0	0	0	0	0	0	157	0	0	0	157
Upland Conifers	0	0	0	0	0	0	0	0	0	15	0	0	0	0	15
Upland Spruce/Fir	0	0	0	0	38	0	8	0	0	12	58	0	0	0	117
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	181	0	0	0	0	0	0	0	0	0	0	0	0	0	181
White Pine	0	0	0	0	0	0	0	0	0	8	0	0	0	0	8
<b>Total</b>	<b>331</b>	<b>103</b>	<b>12</b>	<b>0</b>	<b>38</b>	<b>16</b>	<b>28</b>	<b>15</b>	<b>0</b>	<b>98</b>	<b>469</b>	<b>4</b>	<b>0</b>	<b>136</b>	<b>1251</b>



# Report 3 – Proposed Treatment Summaries

Baraga Mgt. Unit  
Year of Entry 2015

Compartment 074  
Total Compartment Acres: 1251

### Acres by Treatment Type

Commercial Harvest - 162    Tree Planting - 0    Other - 0  
Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	66	0	0	0	0	0	66
Natural Pines	6	0	0	0	40	0	46
Northern Hardwood	0	12	0	0	0	0	12
Other Upland Conifers	37	0	0	0	0	0	37
<b>Total</b>	<b>109</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>162</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	11074021-Cut	10.8	6124 - Lowland Spruce-Fir	High Density Pole	65		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species down to 2 inches DBH except white pine and cedar. Also reserve hemlock if present. <u>Specs:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, retain some large diameter aspen in clumps. This <u>Comments:</u> will most likely be encompassed in the riparian buffer. Factor Limit for small acreage/volume and negotiate with GMO logger when and if they return to clearcut the rest of the land accessible from the Fox Road. <u>Next</u> Check for adequate regeneration within 5 years of harvest completion. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
25	11074025-Cut	6.7	6129 - Mixed Coniferous Lowland Forest	High Density Pole	79		Harvest	Clearcut with Reserves	6129 - Mixed Coniferous Lowland Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species down to 2 inches DBH except hemlock, yellow birch, white pine and cedar. <u>Specs:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, retain some large diameter aspen in clumps. This <u>Comments:</u> will most likely be encompassed in the riparian buffer. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs. <u>Next</u> Check for adequate regeneration within 5 years of harvest completion. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
26	11074026-Cut	3.5	42340 - Upland Spruce/Fir	High Density Pole	91	1-50	Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species down to 2 inches DBH except hemlock, yellow birch, white pine and cedar. <u>Specs:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, retain some large diameter aspen in clumps. This <u>Comments:</u> will most likely be encompassed in the riparian buffer. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs. <u>Next</u> Check for adequate regeneration within 5 years of harvest completion. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
27	11074027-Cut	12.4	6122 - Black Spruce	High Density Pole	92		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species down to 2 inches DBH except hemlock, yellow birch, white pine and cedar. <u>Specs:</u> <u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, retain some large diameter aspen in clumps. This <u>Comments:</u> will most likely be encompassed in the riparian buffer. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs. <u>Next</u> Check for adequate regeneration within 5 years of harvest completion. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	11074028-Cut	12.4	4112 - Maple, Beech, Cherry Association	High Density Log	91	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<u>Prescription</u> Selectively thin hardwoods to 50-70 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Follow all guidelines set forth in "The										
<u>Specs:</u> Complete Marker".										
<u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type. Snowmobile trail will possibly be										
<u>Comments:</u> affected by the harvest of this stand, see cutting specs.										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
30	11074030-Cut	33.9	42340 - Upland Spruce/Fir	High Density Pole	103	1-50	Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species down to 2 inches DBH except hemlock, yellow birch, white pine and cedar. Also, reserve oak and hemlock if present.										
<u>Specs:</u>										
<u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, retain some large diameter aspen in clumps. This										
<u>Comments:</u> will most likely be encompassed in the riparian buffer. Snowmobile trail will possibly be affected by the harvest of this stand, see cutting specs.										
<u>Next</u>										
<u>Steps:</u> Check for adequate regeneration within 5 years of harvest completion.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
32	11074032_ Dee r_Yard-Cut	7.2	6120 - Lowland Cedar	High Density Pole	105	81-110	Harvest	Clearcut with Reserves	6120 - Lowland Cedar	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species down to 2 inches DBH except hemlock, yellow birch, white pine and cedar. Also reserve red oak if present. Winter harvest										
<u>Specs:</u> only.										
<u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Snowmobile trail will possibly be affected by the harvest										
<u>Comments:</u> of this stand, see cutting specs.										
Access to this stand is questionable and treatment may need to be cancelled for this reason.										
<u>Next</u>										
<u>Steps:</u> Check for adequate regeneration within 5 years of harvest completion.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
32	11074032_ We st-Cut	28.5	6120 - Lowland Cedar	High Density Pole	105	81-110	Harvest	Clearcut with Reserves	6120 - Lowland Cedar	Cmpt. Review Proposal
<u>Prescription</u> Harvest all species down to 2 inches DBH except hemlock, yellow birch, white pine and cedar.. Also reserve red oak if present. Winter harvest										
<u>Specs:</u> only.										
<u>Other</u> Retention for this stand will be greater than 3% and will consist of reserve tree species. Snowmobile trail will possibly be affected by the harvest										
<u>Comments:</u> of this stand, see cutting specs.										
<u>Next</u>										
<u>Steps:</u> Check for adequate regeneration within 5 years of harvest completion.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49 11074049-Cut	6.2	42200 - Natural White Pine	High Density Log	93	111-140	Harvest	Clearcut with Reserves	42200 - Natural White Pine	Cmpt. Review Proposal

Prescription Harvest all species down to 4.6 inches DBH except white pine and Pine. Also, reserve red oak and cedar if present. Selectively marked white pine and red pine to a residual BA of 60-80.

Other Comments: Retention for this stand will be greater than 3% and will consist of reserve tree species.

Next Steps:

Proposed Start Date: 10/01/2014

51 11074051-Cut	22.9	42210 - Natural Red Pine	High Density Log	93	200+	Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Selectively thin red pine and white pine down to a residual BA of 80-100.

Other Comments: Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type.  
Access to stand is from the west on private coming from little rice lake road.

Next Steps:

Proposed Start Date: 10/01/2014

**Total Treatment Acreage Proposed: 144.6**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53 11074053-Cut	17.3	42210 - Natural Red Pine	High Density Log	93	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Selectively thin red pine and white pine down to an average residual BA of 80 sqft. To mimic a fire prone ecosystem retain the largest diameter/thickest bark trees in the stand. Also residual trees shall be left in patches and harvested tree shall be removed in patches. This will require the placement of one 1/4 acre sized opening per acre and one large 1-2 acre sized opening per stand. This stand should be summer harvested only to encourage natural regeneration.

Other Comment: Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type.

Next Steps:

Proposed Start Date: 10/01/2014

Limiting Factor 1A: Federal/State/Local Law

**Total Treatment Acreage Proposed: 17.3**

Report 6 – Out of YOE – Treatments  
Prescribed with No Limiting Factor

Year of Entry: 2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription  
Specs:

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: #Type!

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**Total Treatment  
Acreage Proposed: 0**

## Report 7 – Site Conditions

Baraga Mgt. Unit  
Jason Mittlestat : Examiner

Compartment 074  
Year of Entry 2015

### Dominant Site Conditions

	No	5D	3J	3G	2G	1C	1A
Aspen	107						
Cedar	37		3		59		3
Lowland Conifers	17			16	111	8	65
Lowland Deciduous	7				9		
Lowland Mixed Forest					12		
Lowland Spruce/Fir	13	8					73
Mixed Upland Deciduous	25			1			
Northern Hardwood	19						
Red Pine	23						17
Tamarack		26					131
Upland Conifers							15
Upland Spruce/Fir	38				15	26	38
White Pine	6			2			
Total Forested Acres	292	34	3	18	207	34	342
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
003	Not Available	1A: Federal/State/Local Law	277				
<b>Comments:</b> ERA							
006	Not Available	3G: Other Influence zones - See comments	16				
<b>Comments:</b> Lake Buffer.							

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Compartment 074

Jason Mittlestat : Examiner

Year of Entry 2015

007	Not Available	3G: Other Influence zones - See comments	2	
<b>Comments:</b> Buffer stand to Rice Lake.				
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	117	
<b>Comments:</b> Thayers Lake				
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	52	
<b>Comments:</b> Tag Alder buffer of Thayers lake				
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3	
<b>Comments:</b>				
011	Not Available	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	1	
<b>Comments:</b> County Road.				
012	Not Available	2G: Too wet (sensitive soils, does not include access issues)	29	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				

## Report 7 – Site Conditions

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013	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	44	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				
014	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				
015	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				
016	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				
017	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>				
018	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	5D: Unproductive Forest Land
<b>Comments:</b> Old Beaver Flooding				

## Report 7 – Site Conditions

Baraga Mgt. Unit  
Jason Mittlestat : Examiner

Compartment 074  
Year of Entry 2015

019	Not Available	3G: Other Influence zones - See comments	1		
<b>Comments:</b> County ROW. Small acreage					
021	Not Available	1A: Federal/State/Local Law	116		
<b>Comments:</b> ERA					
022	Not Available	1C: Other dept or div proc/practices	21		
<b>Comments:</b> ERA - working to remove from ERA layer so the stand can be treated. Currently is mapped as an ERA but should not have been included because of the habitat type in the area.					
023	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	
<b>Comments:</b>					
024	Not Available	2G: Too wet (sensitive soils, does not include access issues)	22	3J: Water quality / BMPs (stream, river, or lake)	
<b>Comments:</b>					
025	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7	3J: Water quality / BMPs (stream, river, or lake)	
<b>Comments:</b>					

## Report 7 – Site Conditions

Baraga Mgt. Unit

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026	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1
<b>Comments:</b>			
027	<b>Not Available</b>	<b>3D: Recreational / Scenic values</b>	2
<b>Comments:</b>			
Rice Lake Boat Access Site.			
029	<b>Not Available</b>	<b>1C: Other dept or div proc/practices</b>	59
<b>Comments:</b>			
Traverse river, Fisheries Division Requires a 300 foot buffer.			
030	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13
<b>Comments:</b>			
Beaver Activity.			
032	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3
<b>Comments:</b>			
033	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	57
<b>Comments:</b>			

# Report 7 – Site Conditions

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034	Not Available	5D: Unproductive Forest Land	36	2G: Too wet (sensitive soils, does not include access issues)	3H: Deer Wintering Areas
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Comments:

035	Not Available	3J: Water quality / BMPs (stream, river, or lake)	3		
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Comments:

036	Not Available	2G: Too wet (sensitive soils, does not include access issues)	8		
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Comments:

037	Not Available	2G: Too wet (sensitive soils, does not include access issues)	15		
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Comments:



## Report 8 – 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
Rice Lake Comments	Concentrated Recreation Area	Boat Access Site	SCA	
Thayers Lake Comments	Concentrated Recreation Area	Boat Access Site	SCA	
Hungarian Falls Comments	Concentrated Recreation Area	Trail Head	SCA	
Traverse River Comments	Habitat Areas or Corridors	Habitat Corridor	SCA	



## Report 9 – 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.

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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

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## Baraga Mgt. Unit

## Report 10 – Forested Stands

Compartment: 074  
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6139 - Mixed Lowland Forest	Medium Density	12.4	22		
4139 - Aspen, Mixed Deciduous	Medium Density	40.9	17		Cut in 2006, part of "Thayer Birch".
6120 - Lowland Cedar	High Density Pole	29.3	Uneven Age	111-140	
4191 - Mixed Upland Deciduous with Conifer	High Density Log	1.0	Uneven Age	81-110	Stand is left for senic values along the Gay-Mohawk Road, Small acreage.
6129 - Mixed Coniferous Lowland Forest	High Density Pole	43.6	Uneven Age	111-140	
4130 - Aspen	High Density Sapling	62.3	14		cut in 1999. 40' tall aspen, some aspen is 4" already
6120 - Lowland Cedar	High Density Pole	12.0	103		wet,wet, wet
4112 - Maple, Beech, Cherry Association	High Density Log	3.5	Uneven Age	111-140	factor limit/ too small
4112 - Maple, Beech, Cherry Association	High Density Log	3.2	Uneven Age	111-140	factor limit/ too small
6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	9.0	99	1-50	wet
4137 - Aspen, Birch	Medium Density	4.1	7		
6120 - Lowland Cedar	High Density Pole	6.7	Uneven Age	81-110	Stand is Wet.
4199 - Other Mixed Upland Deciduous	High Density Pole	25.4	Uneven Age		Do not treat, There are many wet swail through stand and it is adjacent to Thayers Lake.
6120 - Lowland Cedar	High Density Pole	11.2	Uneven Age	81-110	Stand is Wet.
6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	7.2	7		Cut in 2006 with "Thayer Birch"
6124 - Lowland Spruce-Fir	High Density Pole	19.6	65		Line are in but no corners found, GMO has clearcut their side of the line. Quite a bit of beaver activity is the middle of the stand.
42340 - Upland Spruce/Fir	High Density Pole	8.5	65		

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## Baraga Mgt. Unit

## Report 10 – Forested Stands

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Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	6129 - Mixed Coniferous Lowland Forest	High Density Pole	15.1	79		Prescribe a 3 chain area along the Hardwood stand for even aged treatment reserving cedar and hemlock.
26	42340 - Upland Spruce/Fir	High Density Pole	12.2	91	1-50	Some Ridge/Swail complex. Blowdown areas give this stand an appearance of being all aged. Do not harvest within 300 of the traverse river as directed by fish division.
27	6122 - Black Spruce	High Density Pole	13.5	92		Talk to Fish Div and buffer AOI appropriately.
28	4112 - Maple, Beech, Cherry Association	High Density Log	12.4	Uneven Age	111-140	adj Hdwd is market to cut on PVT.
30	42340 - Upland Spruce/Fir	High Density Pole	57.7	103	1-50	Ridge/swail complex. Area are mature. lots of blowdownhas given it an all aged structure. Snowmobilw trail through stand.
31	6120 - Lowland Cedar	High Density Pole	3.9	115		
32	6120 - Lowland Cedar	High Density Pole	38.5	105	81-110	
33	6121 - Tamarack	Low Density Sapling	75.7	107		Stand is in an ERA and SCA.
34	6122 - Black Spruce	High Density Pole	79.7	105		Stand is in an ERA.
35	6129 - Mixed Coniferous Lowland Forest	High Density Sapling	123.9	105		
37	42320 - Upland Spruce	Medium Density Pole	38.2	49		Stand is a part of an ERA. Ridges are upland and have timber on them. May have been cut in 1964 (according to OI).
39	6121 - Tamarack	Low Density Sapling	81.7	105		Stand is part of an ERA.
40	429 - Mixed Upland Conifers	High Density Pole	14.9	97	51-80	ERA, Birch is poor quality. Lake influence. Lots of blowdown.
44	6127 - Lowland Pine	High Density Pole	15.6	58	51-80	Lots of leather leaf
48	42200 - Natural White Pine	Medium Density Pole	1.5	93	1-50	
49	42200 - Natural White Pine	High Density Log	6.2	93	111-140	
51	42210 - Natural Red Pine	High Density Log	22.9	93	200+	

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Baraga Mgt. Unit

Report 10 – Forested Stands

Compartment: 074  
Year of Entry: 2015



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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	42210 - Natural Red Pine	High Density Log	17.3	93	111-140	ERA take out

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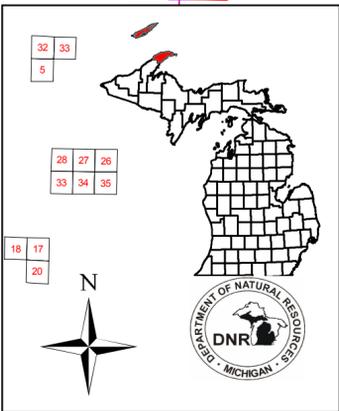


Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	122 - Road/Parking Lot	0.6	No	Unspecified	
8	6220 - Alder/willow	52.0	No	Unspecified	
9	50 - Water	116.6	No	Unspecified	
13	6220 - Alder/willow	3.3	No	Unspecified	
14	3102 - Grass	0.7	No	Unspecified	
22	50 - Water	19.2	No	Unspecified	
24	122 - Road/Parking Lot	2.6	No	Unspecified	
29	50 - Water	28.4	No	Unspecified	
36	50 - Water	2.4	No	Unspecified	
38	50 - Water	12.9	No	Unspecified	
41	50 - Water	1.6	No	Unspecified	
42	710 - Sand, Soil	41.9	No	Unspecified	
43	629 - Mixed non-forested wetland	6.7	No	Unspecified	
45	6239 - Mixed Emergent Wetland	0.6	No	Unspecified	
46	122 - Road/Parking Lot	1.5	No	Unspecified	
47	6239 - Mixed Emergent Wetland	2.4	No	Unspecified	
50	6239 - Mixed Emergent Wetland	21.8	No	Unspecified	
52	6239 - Mixed Emergent Wetland	4.7	No	Unspecified	

# Cover Type & Treatment Map

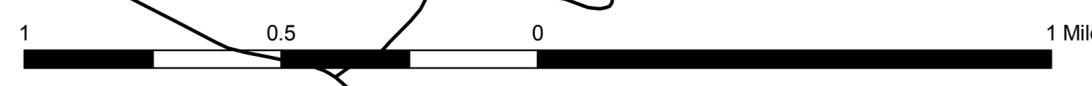
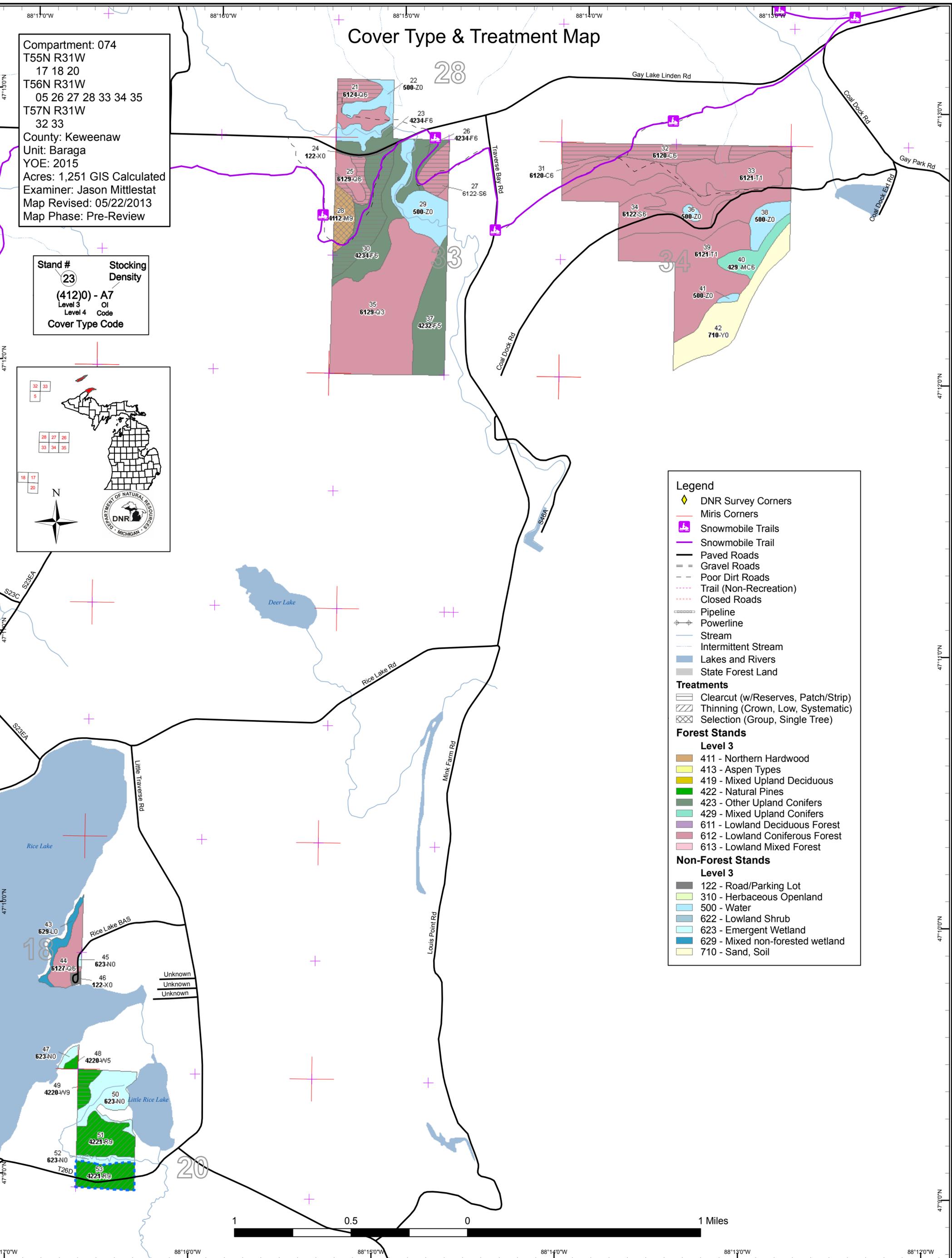
Compartment: 074  
 T55N R31W  
 17 18 20  
 T56N R31W  
 05 26 27 28 33 34 35  
 T57N R31W  
 32 33  
 County: Keweenaw  
 Unit: Baraga  
 YOE: 2015  
 Acres: 1,251 GIS Calculated  
 Examiner: Jason Mittelstat  
 Map Revised: 05/22/2013  
 Map Phase: Pre-Review

**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



## Legend

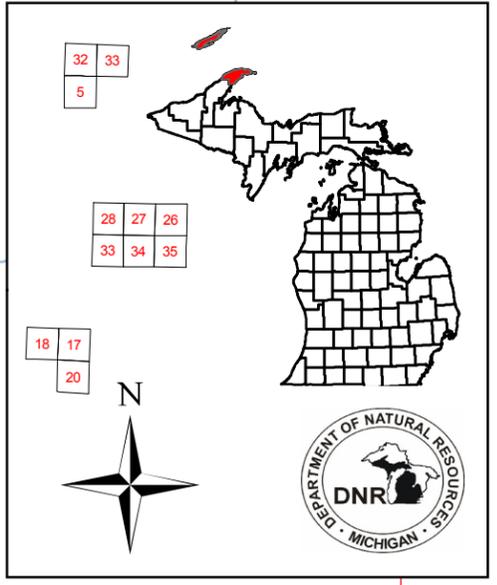
- DNR Survey Corners
  - Miris Corners
  - Snowmobile Trails
  - Snowmobile Trail
  - Paved Roads
  - Gravel Roads
  - Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Pipeline
  - Powerline
  - Stream
  - Intermittent Stream
  - Lakes and Rivers
  - State Forest Land
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
  - Thinning (Crown, Low, Systematic)
  - Selection (Group, Single Tree)
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 422 - Natural Pines
  - 423 - Other Upland Conifers
  - 429 - Mixed Upland Conifers
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland
  - 629 - Mixed non-forested wetland
  - 710 - Sand, Soil



# Cover Type & Treatment Map

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**Legend**

- DNR Survey Corners
- Miris Corners
- Snowmobile Trails
- Snowmobile Trail
- Paved Roads
- Poor Dirt Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- Pipeline
- Powerline
- State Forest Land

**Treatments**

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- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)

**Forest Stands**

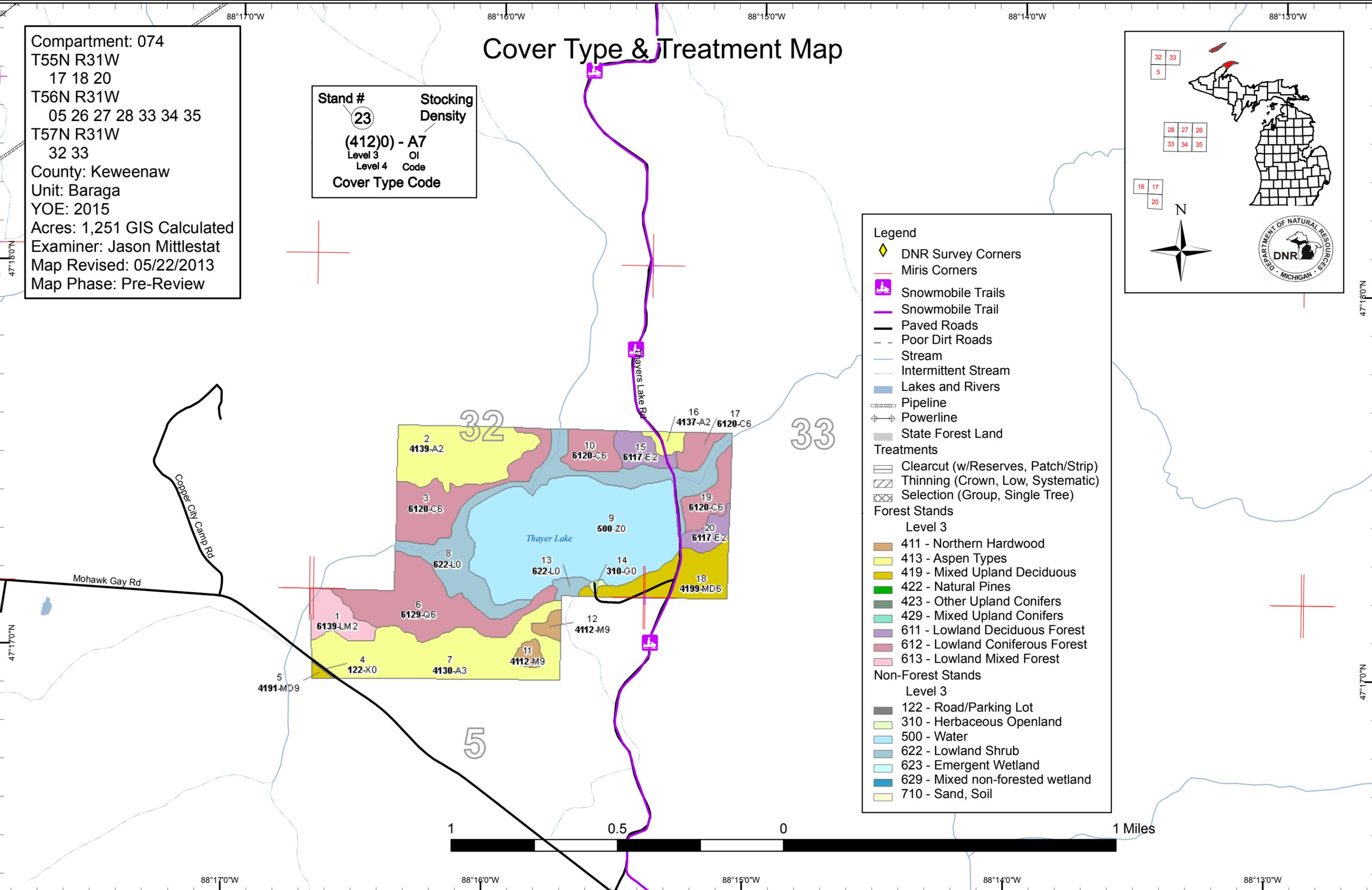
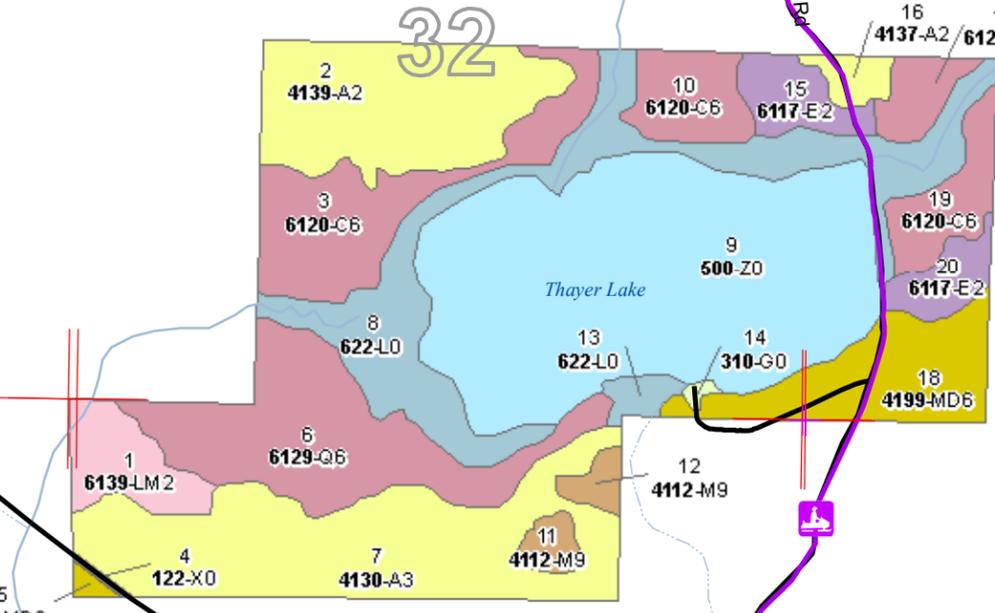
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**Non-Forest Stands**

Level 3

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# Stand Boundary Map

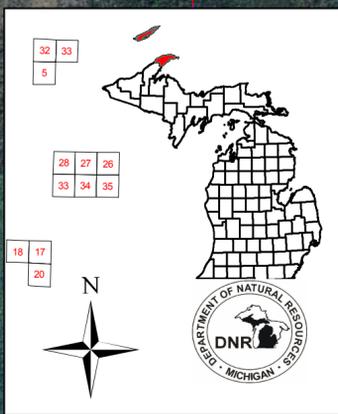
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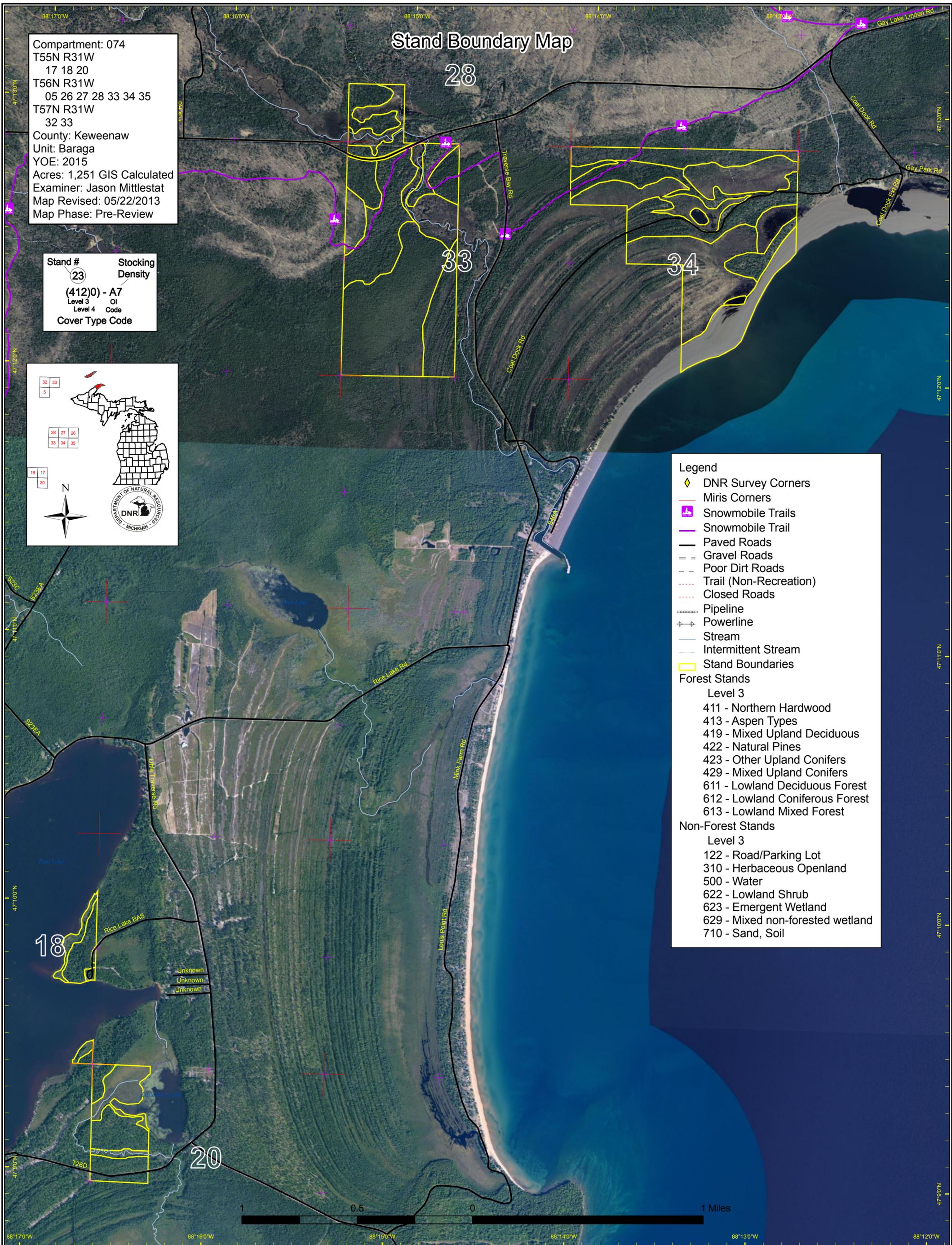
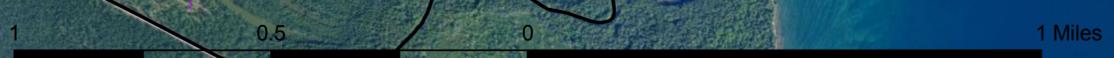
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  - Pipeline
  - ⚡ Powerline
  - Stream
  - - Intermittent Stream
  - Stand Boundaries
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18

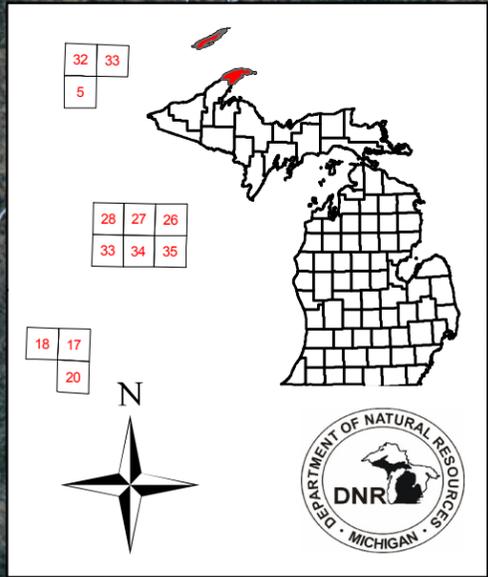
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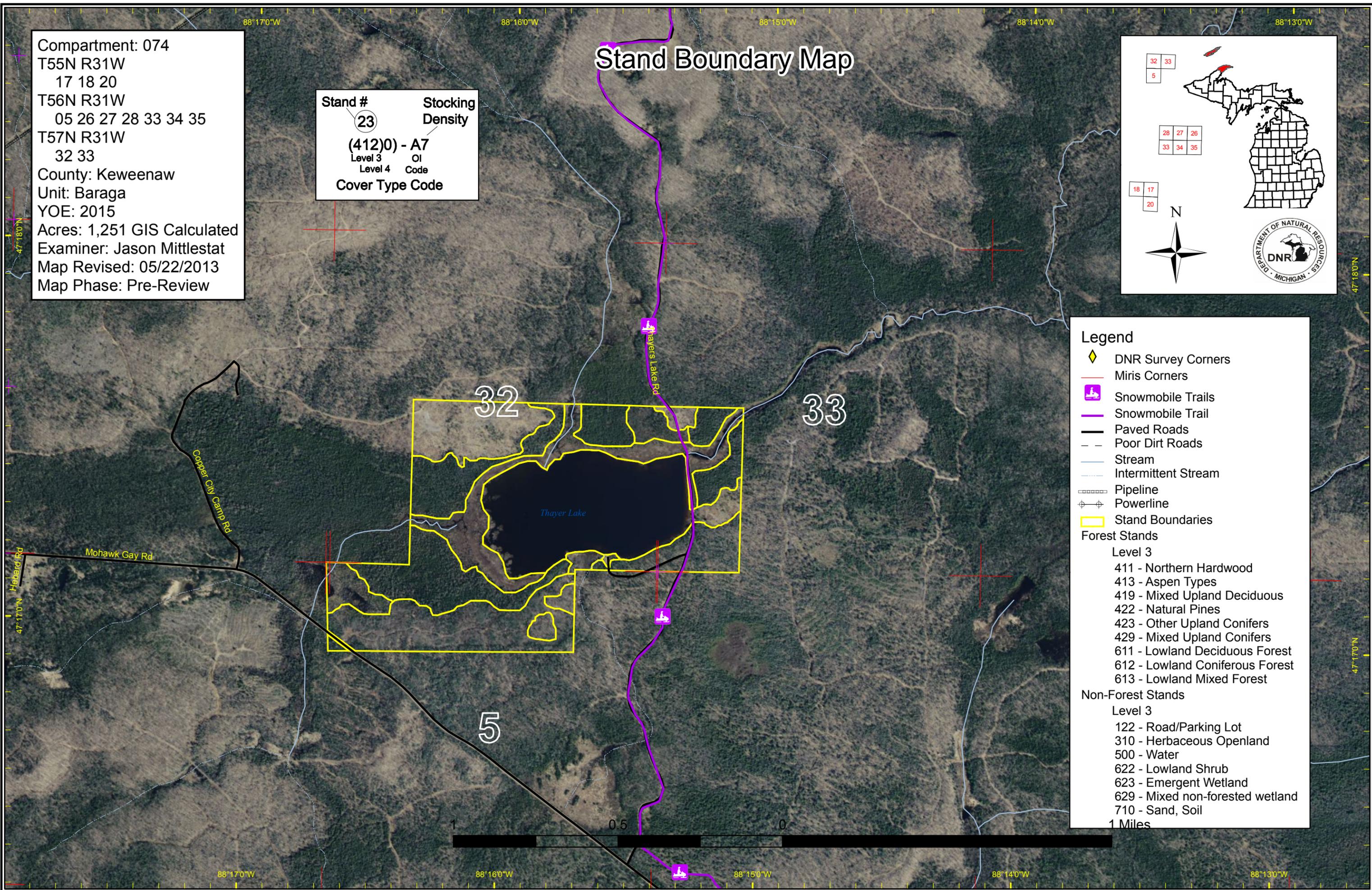
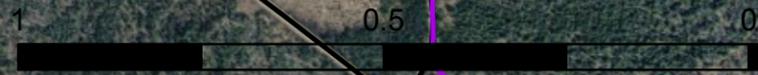
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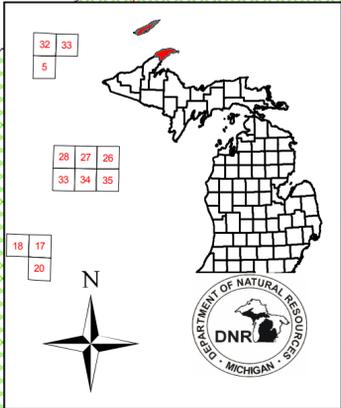
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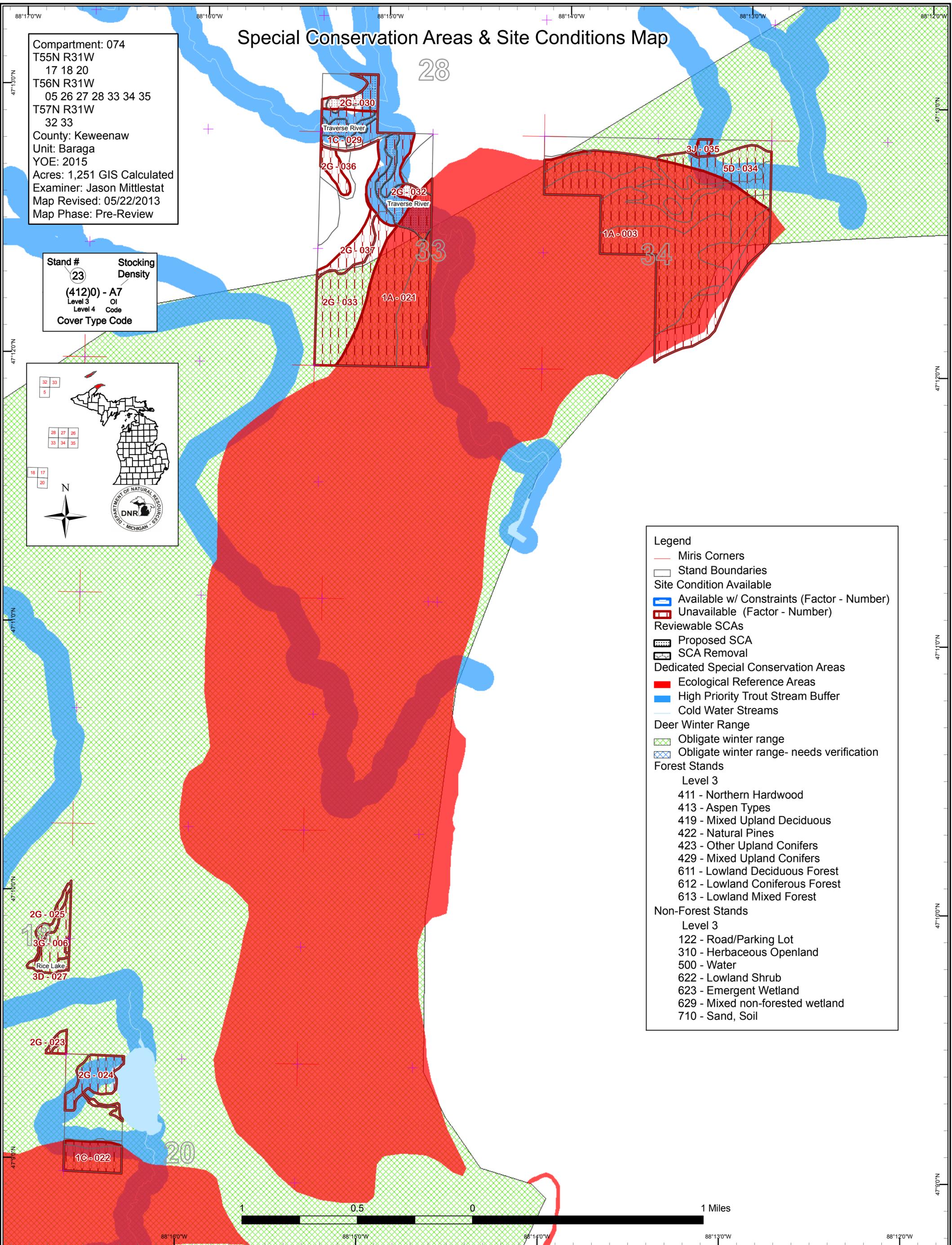
# Special Conservation Areas & Site Conditions Map

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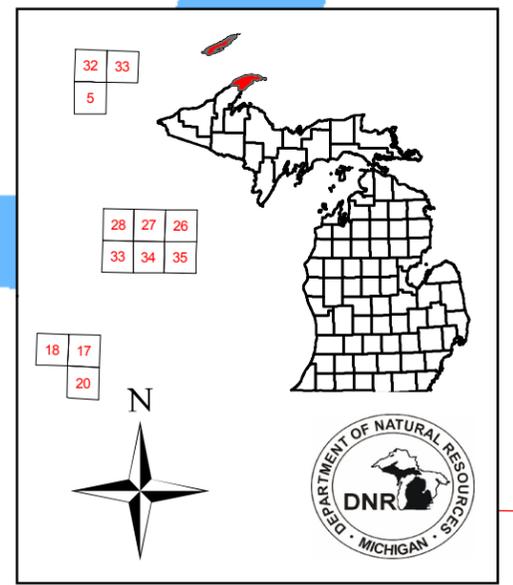
- Legend**
- Miris Corners
  - Stand Boundaries
  - Site Condition Available
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
  - Reviewable SCAs
  - Proposed SCA
  - SCA Removal
  - Dedicated Special Conservation Areas
  - Ecological Reference Areas
  - High Priority Trout Stream Buffer
  - Cold Water Streams
  - Deer Winter Range
  - Obligate winter range
  - Obligate winter range- needs verification
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Cover Type Code	



**Legend**

- Miris Corners
- Stand Boundaries

**Site Condition Available**

- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

**Reviewable SCAs**

- Proposed SCA
- SCA Removal

**High Priority Trout Stream Buffer**

- High Priority Trout Stream Buffer

**Forest Stands**

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