



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72024

Entry Year 2022

Acreage: 1,832

County Oscoda

Management Area: AuSable Outwash

Revision Date: 2020-04-03

Stand Examiner: Kevin Ehlert

Legal Description:

Oscoda County – Elmer Township: T28N, R2E: Sections 4, 5, 8 and 9

Identified Planning Goals:

Our goal is to manage and maintain a healthy, productive, and diverse ecosystem beneficial to the Prairie Warbler, Kirtland Warbler, Rough Fescue, and other prairie species. We also need to consider species diversity, visual management and multiple-use in management of this compartment. As a note, this compartment is not a designated Kirtland Warbler Management Unit.

Soil and topography:

Soil types, within this compartment consist mostly of Grayling sands, Graycalm sands and Roselawn sands. Topography of the compartment is mostly gently rolling terrain with flat areas on the west side of compartment.

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

The compartment is comprised of one large contiguous block of state ownership and two large blocks of private ownership. The largest block of private ownership (440 acres) is found in section 8 and is well developed with private homes and seasonal cabins. The smaller block of private ownership (240 acres) is located in the south east quarter of section 9 and is the least developed. Other development and land use ongoing within this compartment consists of several gas wells, pumping station, and cycle trail.

Unique Natural Features:

The Prairie Warbler (*Dendrocia, discolor.*), Kirtland Warbler (*Dendrocia, kirtlandii.*), Rough Fescue (*Festuca scabrella*), Hill's Thistle and Allegheny Plum.

Archeological, Historical, and Cultural Features:

None at this time.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

None at this time.

Wildlife Habitat Considerations:

To maintain existing Jack Pine forest cover types as habitat for the Prairie Warbler and the Kirtland Warbler. Secondly, to provide and manage habitat for deer, bear, grouse and turkey in the surrounding stands.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. Multiple active sand/gravel pits are within three or four miles of the compartment, and sand & gravel potential within the compartment appears to be good. The compartment has been developed for Antrim Shale gas production, and there is limited potential for any additional Antrim wells in the compartment. There is no known hydrocarbon potential from other formations beneath the compartment. All State-owned mineral rights in the compartment are currently leased and held by production.

Vehicle Access:

The compartment is accessed from the County Roads of Eastwood Road, Hill Road and Granholm Road. Several, two tracks branch off from these roads and wind through portions of the compartment. Many of these two tracks are being used by oil and gas companies to access well sites and facilities. A cycle trail runs through section 4, 8 and 9.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Hunt Creek ORV Cycle Trail & MCCCT occurs within as a stand alone trail and shares some segments of Forest Roads. The varying cover type provides dispersed hunting, and camping opportunities.

Fire Protection:

Fire protection is the responsibility of the Michigan DNRE and the Elmer Township Volunteer Fire Department. The current road system is adequate to provide access for fire suppression equipment and the closest, accessible water sources are Eleventh Lake, Oak Lake, Perry Lake and La Belle Lake.

Additional Compartment Information:

Most of the northeast portion of this compartment under went salvage harvest operations in the past. This was due to windstorm damage to the area in June/July 1999.

The following reports from the Inventory are attached:

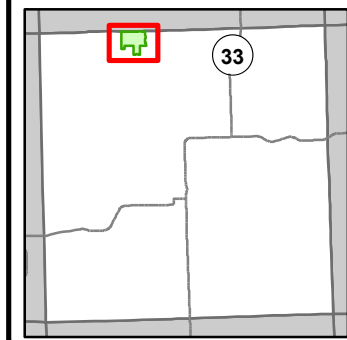
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

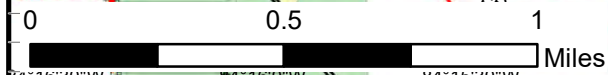
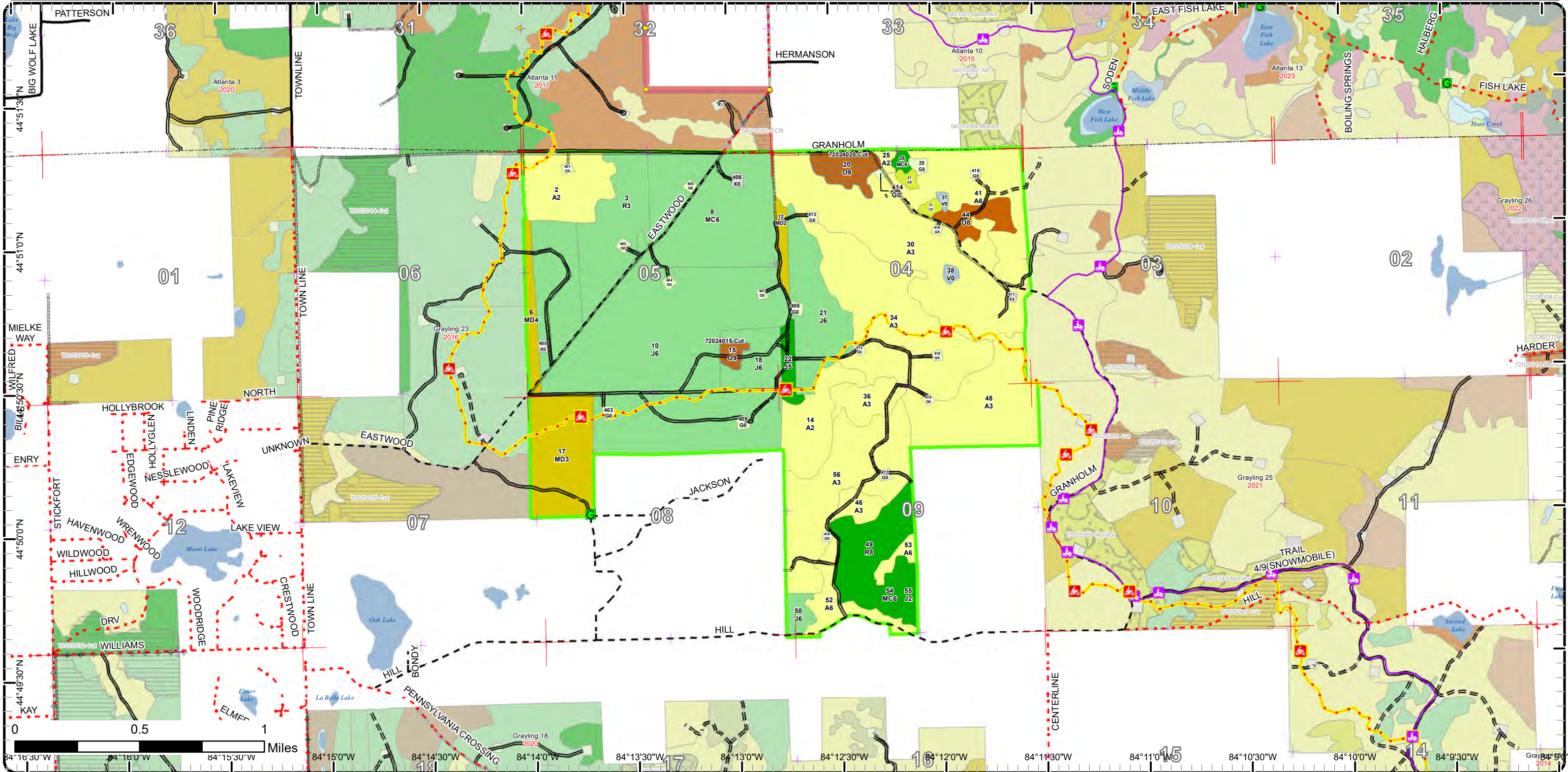
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 24
 T28N, R02E, Sec. 04-05, 08-09
 County: Oscoda
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2022
 Acres: 1832.1 GIS Calculated
 Examiner: Kevin Ehler
 Map Revised: 5/18/2021
 Map Phase: Post-Review



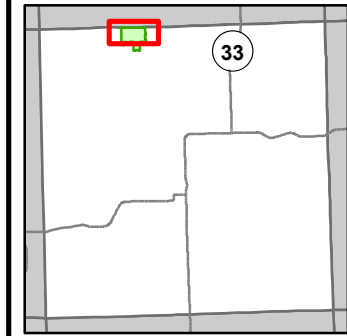
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
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- G Gate
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- Pipeline
- ⚡ Powerline
- Compartment Boundary
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- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



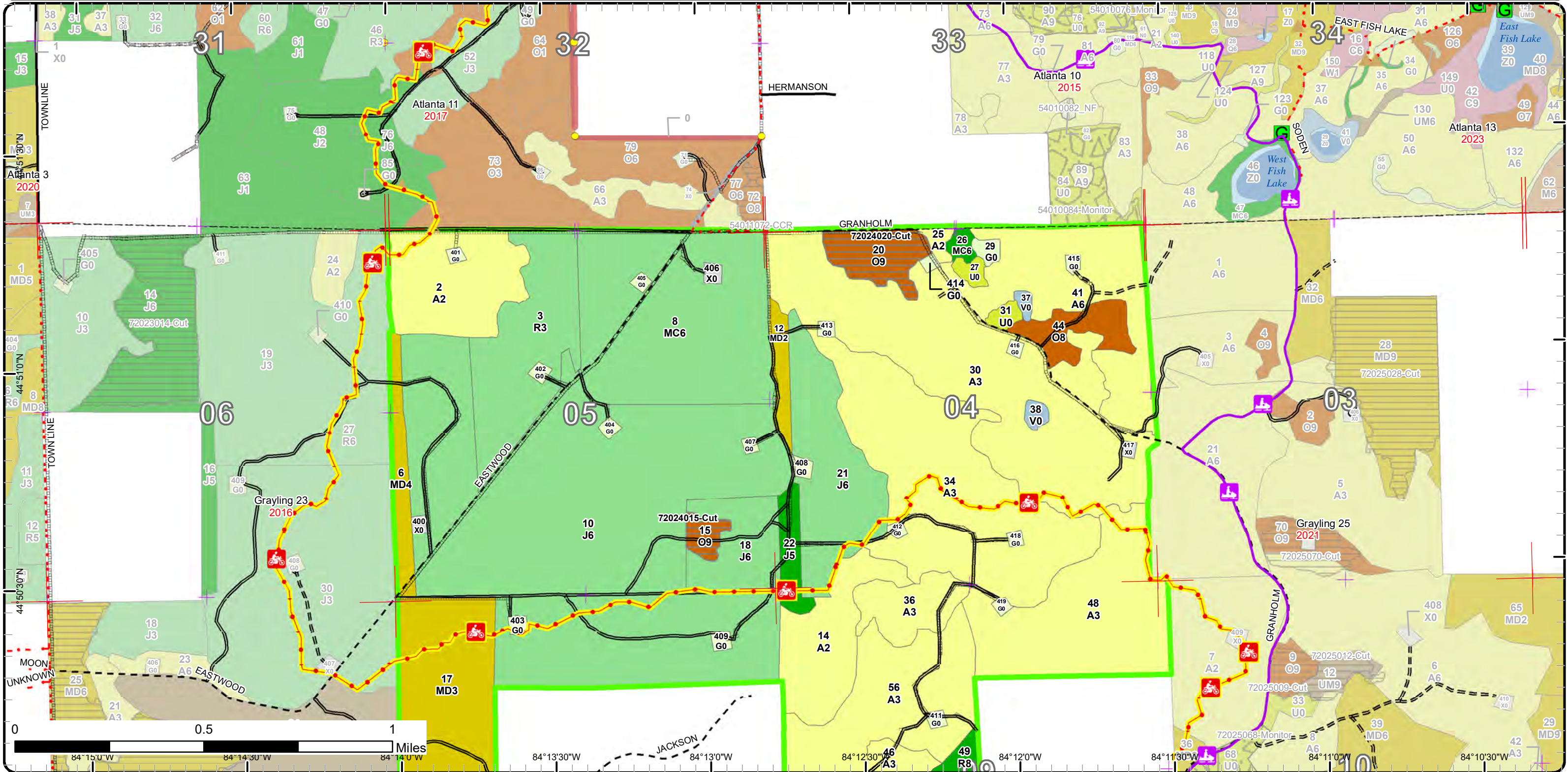
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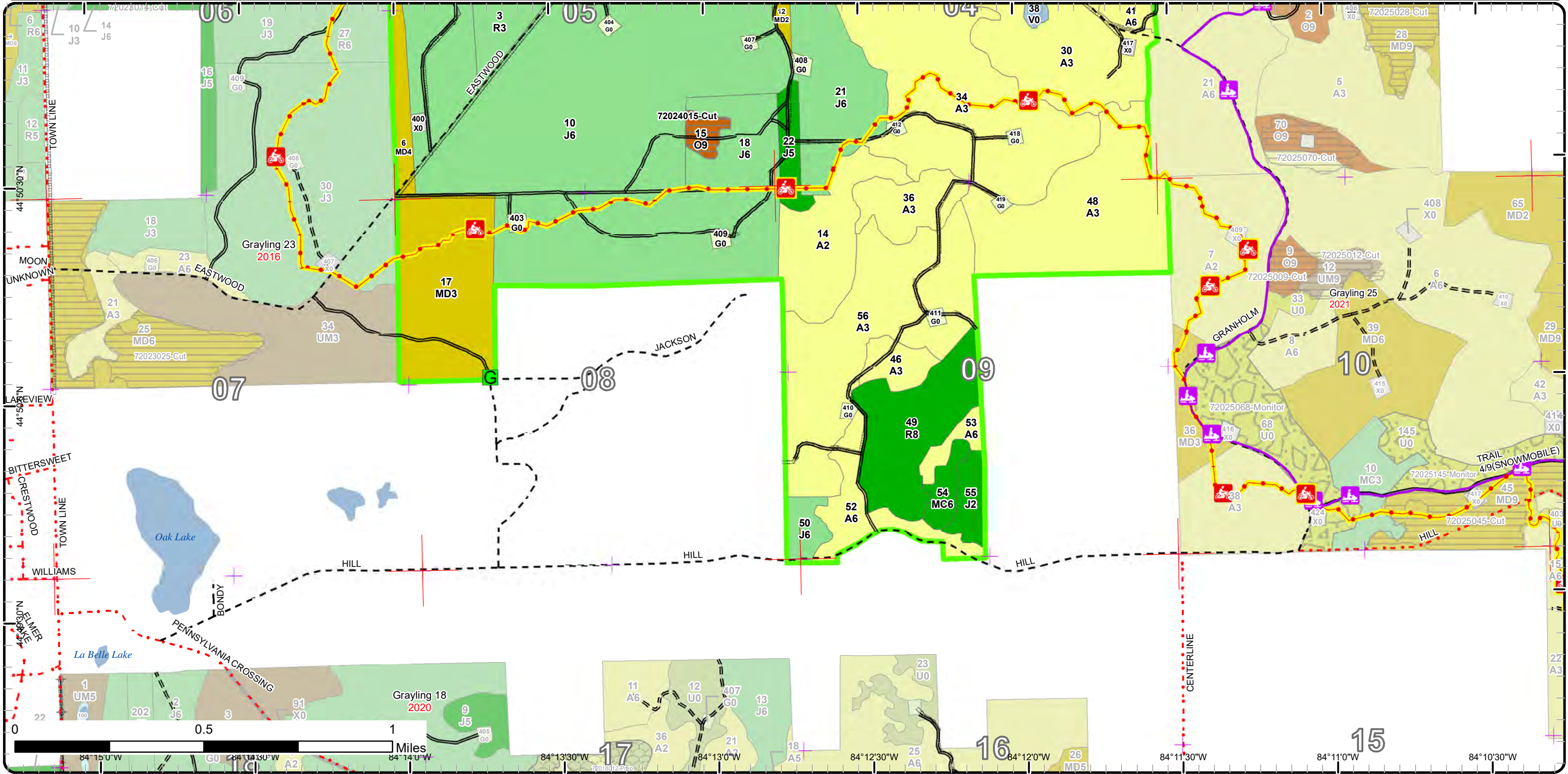


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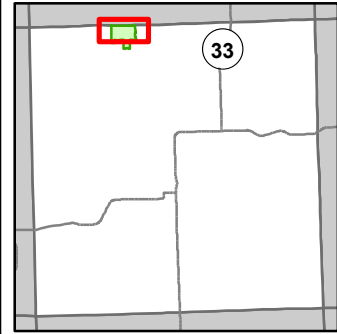


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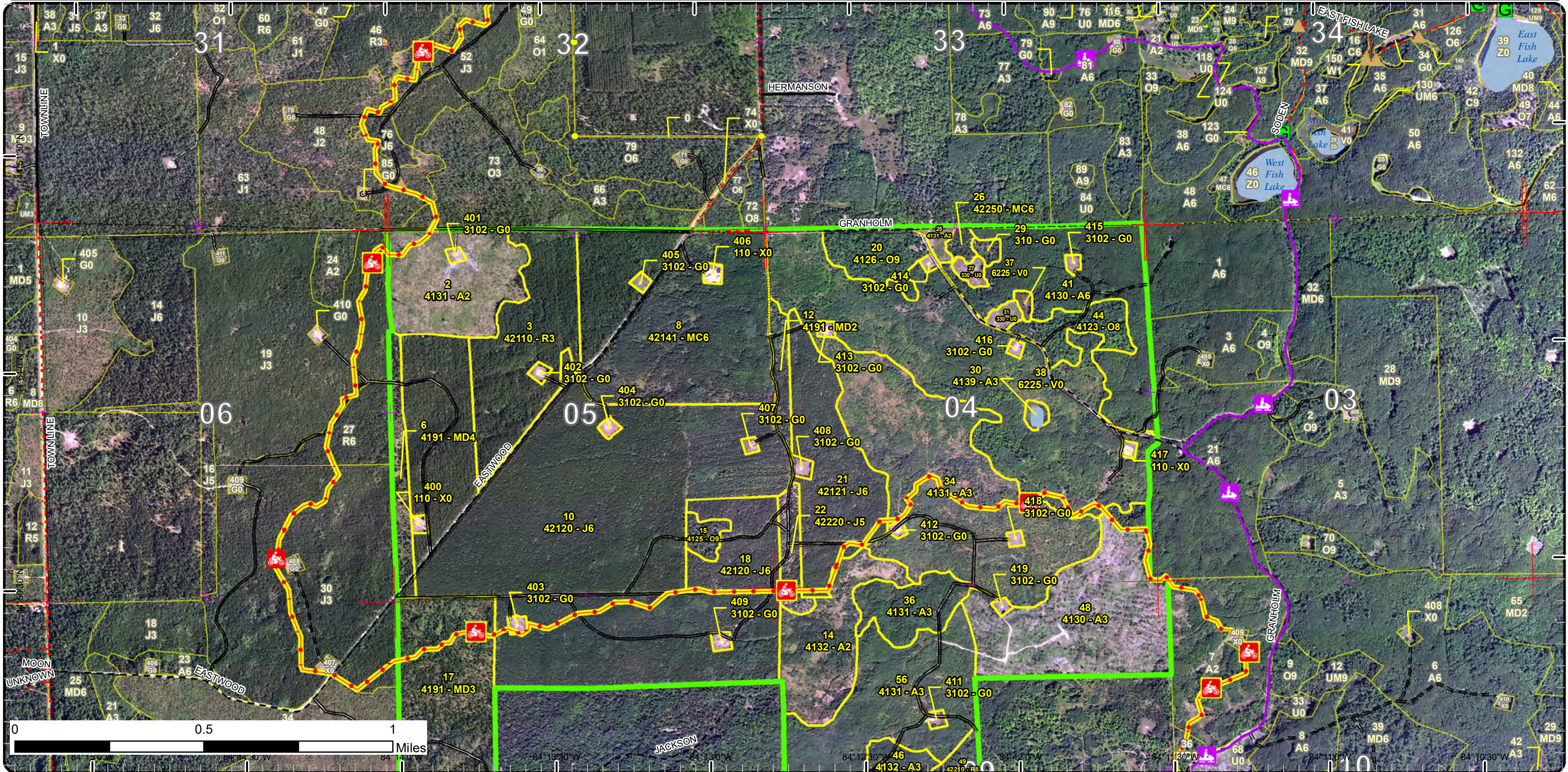


Stand Boundary Map

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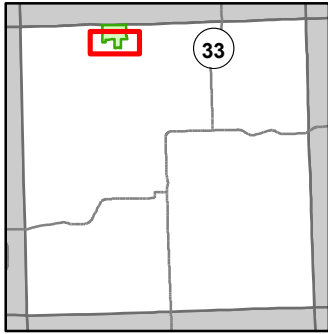
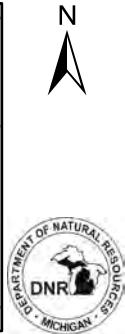


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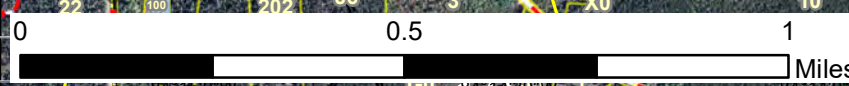
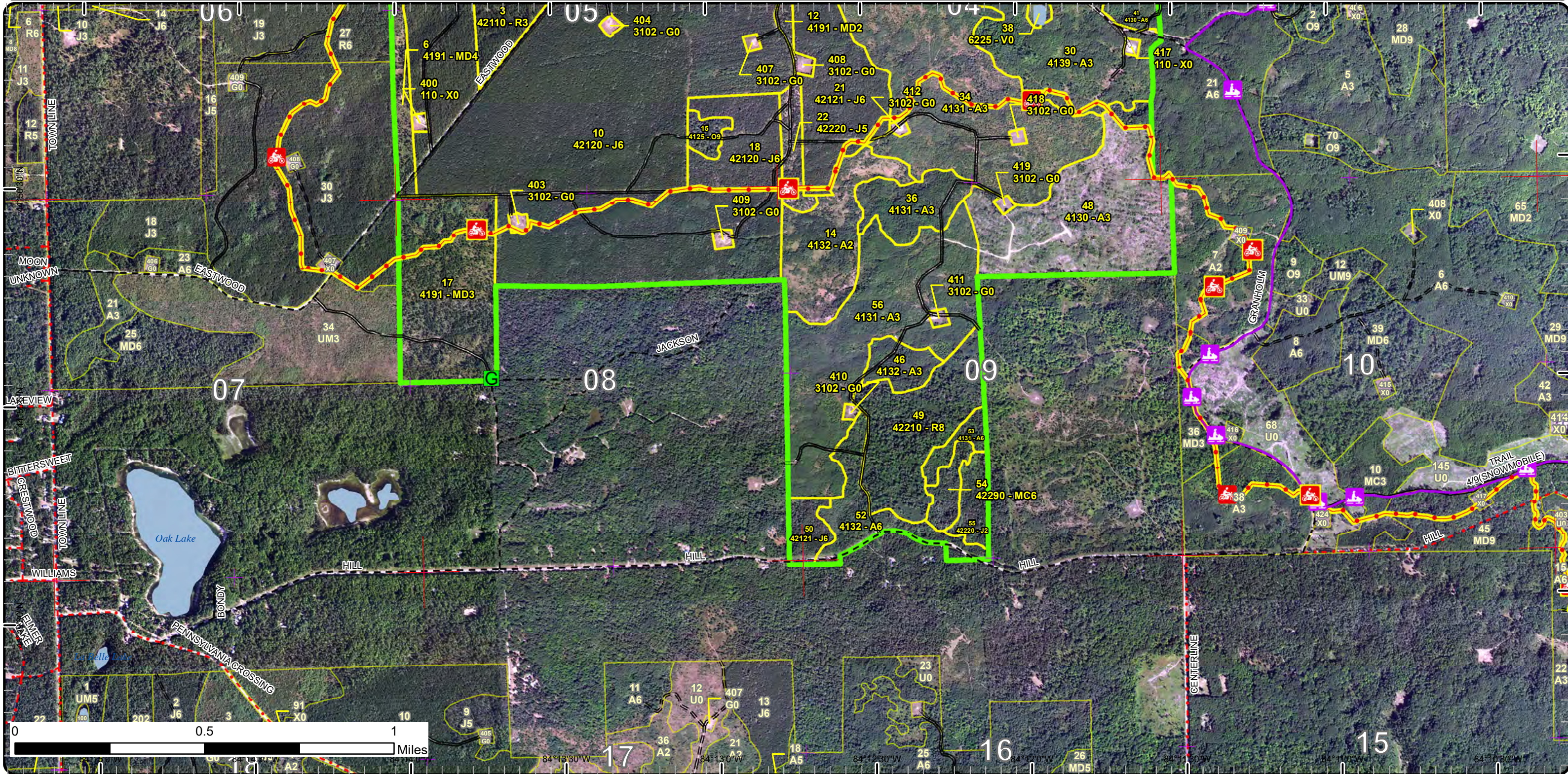


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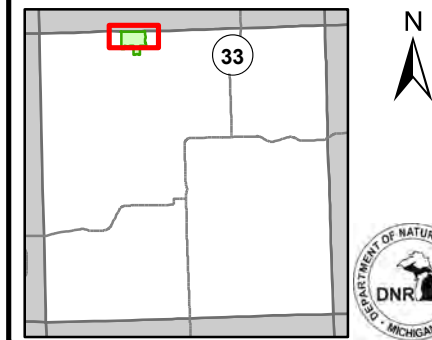
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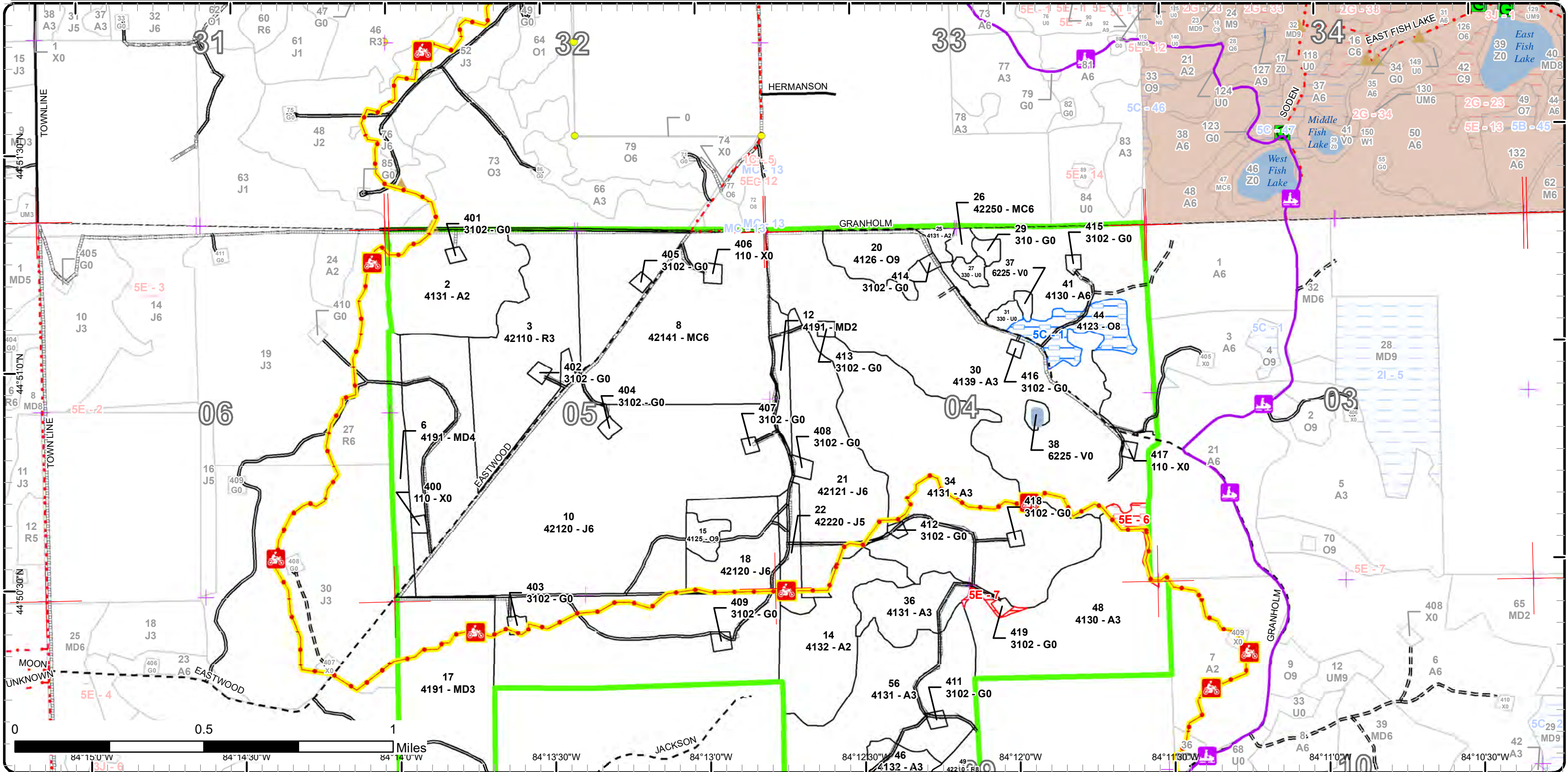
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Special Conservation Areas

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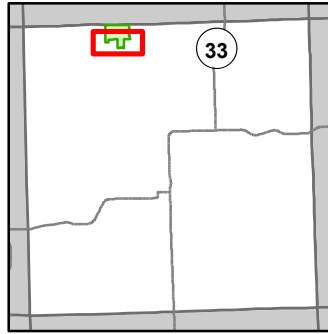


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Research, Development, and Military Lands

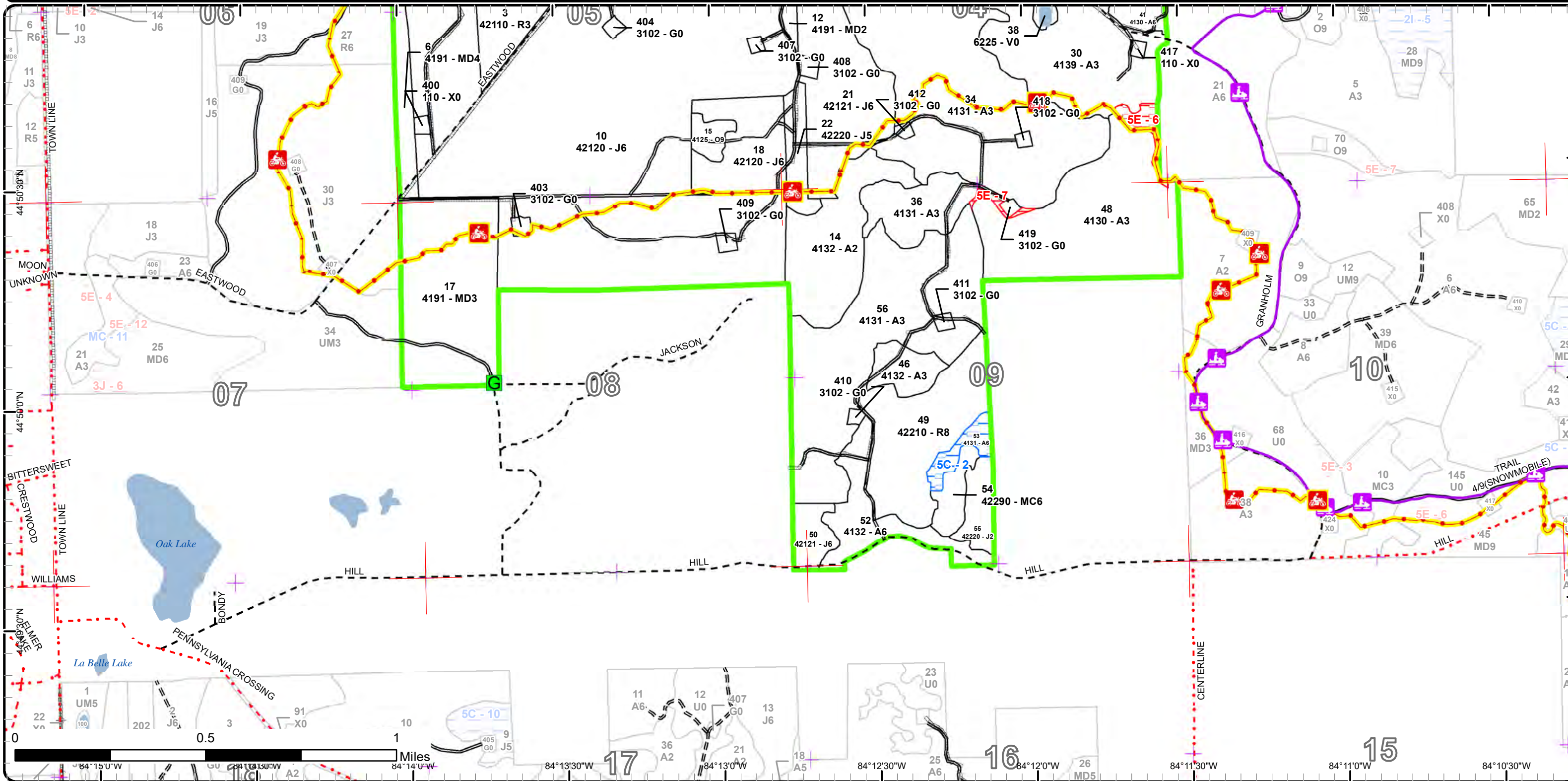


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- 5E: Long-Term Retention
- Stand Boundaries



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+	Unnever-Aged	Total
Aspen	0	161	264	269	82	29	8	0	0	0	0	0	0	0	0	0	0	0	813
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Jack Pine	0	0	0	0	526	0	11	0	0	0	0	0	0	0	0	0	0	0	537
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	81	28	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Natural Mixed Pines	0	0	0	0	0	0	4	0	10	0	0	0	0	0	0	0	0	0	14
Oak	0	0	0	0	0	0	0	0	0	0	29	0	19	0	0	0	0	0	48
Planted Mixed Pines	0	0	0	0	147	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Red Pine	0	0	0	0	73	0	0	0	57	0	0	0	0	0	0	0	0	0	130
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	37	161	264	350	856	29	23	0	67	0	29	0	19	0	0	0	0	0	1834



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 24

Total Compartment Acres: 1,832

Commercial Harvest - 29
 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
Oak		29	0	0	0	0	0	0	0	0	29
	Total	29	0	0	0	0	0	0	0	0	29

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		29	0	0	0	0	0	0	0	0	29
Next Step		0	0	0	0	0	29	0	0	0	29
	Total	29	0	0	0	0	29	0	0	0	57



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	Habitat Cut
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Approved Treatments:

15	72024015-Cut	6.2	4125 - Black, N. Pin Oak	Sawtimber Well	99	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 4" DBH and up. Minimize damage to current sub canopy oak as much as possible during harvest. No retention due to small stand size to help maximize successful regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed upland deciduous stand including oak, maple, aspen and scattered conifers. Prefer 30% oak canopy cover, but will accept any species composition meeting minimum stocking levels.</p> <p><u>Other Comment:</u> Pipelines in area of sale and access routes.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
20	72024020-Cut	22.5	4126 - White, Black, N. Pin Oak	Sawtimber Well	96	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 4" DBH and up. Minimize damage to current sub canopy oak as much as possible during harvest. Follow standard retention guidelines.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed upland deciduous stand including oak, maple, aspen and scattered conifers. Prefer 30% oak canopy cover, but will accept any species composition meeting minimum stocking levels.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 28.7
Acreage Proposed:

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 24
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	5E
		With Condition	Not Available			
812	797	8	7	Aspen	8	7
4	4	0	0	Bog		
22	22	0	0	Herbaceous Openland		
537	537	0	0	Jack Pine		
6	6	0	0	Low-Density Trees		
109	109	0	0	Mixed Upland Deciduous		
13	13	0	0	Natural Mixed Pines		
48	29	19	0	Oak	19	
147	147	0	0	Planted Mixed Pines		
130	130	0	0	Red Pine		
4	4	0	0	Urban		
1,832	1,799	27	7	Total Forested Acres	27	7
	98%	1%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treating stand to leave a mature component where much of the surrounding area was salvaged after the 1999 tornado.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay and treat with stand 49 in future YOE.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 24
Year of Entry: 2022

6	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	2	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



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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
2	4131 - Aspen, Oak	Sapling Medium	58.9	7	Immature	N/A	Stand harvested under contract #72-031-12-01, Granholm Jack in 2014. Regeneration is a combination of Aspen, oak, and jack pine. Oak averages 3-7' height. Aspen is 5-10'. North end of stand heavier to oak.																																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	40	Sapling	1	7	Quaking Aspen	30	Sapling	1		Black/Red (Hybrid) Oak	20	Sapling	1		Jack Pine	10	Sapling	1																															
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Jack Pine	10	Sapling	1																																																					
3	42110 - Planted Red Pine	Sapling Well	73.0	33	81-110	N/A	Planted red pine. West end seems to be doing slightly better than East end for growth. Not yet ready for first thin.																																																	
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6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	18.4	36	1-50	N/A	Designated fuel break. Mix of pole and sapling size pin oak and jack pine. Barely meets 25% canopy closure, as much of it is open. In order to ensure fuel break is effective, stand should be cleared when adjacent reaches rotation age.																																																	
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8	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	146.8	39	111-140	N/A	Harvested under 12-78A, complete in 1979. Mix of planted red pine, jack pine, and pockets of white pine. Red pine plantation mixed with Jack pine and other deciduous species in areas where red pine did not take. Variable density, 110-140 in successful plantation areas, lower elsewhere.																																																	
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10	42120 - Planted Jack Pine	Poletimber Well	400.1	33	1-50	N/A	Planted jack pine, ranging from large sapling to small pole size. Basal area will increase as more stems reach pole class. Aspen pocket inclusions throughout, more common in the East end. Plan to expand the aspen at through harvest at rotation age of stand.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 10.3 34 1-50 N/A Stand was part of some of the tornado damage. Oak and Jack pine with cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	40	Sapling/Pole	2	34	Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Jack Pine	35	Sapling/Pole	4		Cherry (spp.)	Low	< 5 feet	Seeding
Black Cherry	20	Sapling/Pole	3		Oak (spp.)	Low	< 5 feet	Seeding
Bigtooth Aspen	5	Sapling	2		Willow spp.	Low	Variable	Tall Shrub

14 4132 - Aspen, Jack Pine Sapling Medium 48.1 27 Immature N/A Stand was final harvested in 1994. Everything 6" and above was cut. ORV trail traverses through a portion of the north part of the stand. Parent stand was typed as J6. Jack pine pockets with aspen/mixed deciduous/open brushy areas. Cut through 006-92-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	22	Sapling	2		Aspen (spp.)	Low	< 5 feet	Seeding
Quaking Aspen	18	Sapling	2		Cherry (spp.)	Low	< 5 feet	Seeding
Bigtooth Aspen	30	Sapling	2	27	Oak (spp.)	Low	< 5 feet	Seeding
Jack Pine	20	Sapling	3					
Black Cherry	10	Sapling	2					

15 4125 - Black, N. Pin Oak Sawtimber Well 6.2 99 51-80 N/A Small Mature Oak stand with Aspen and Jack Pine mixed. Oak is declining rapidly with quite a bit of mortality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	85	Log/Pole	12	99	Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Bigtooth Aspen	10	Pole/Sapling	6		Aspen (spp.)	Low	Variable	Sapling
Jack Pine	5	Pole/Sapling	4		Cherry (spp.)	Medium	Variable	Sapling
					Oak (spp.)	Medium	Variable	Sapling

17 4191 - Mixed Upland Deciduous with Conifer Sapling Well 80.6 29 Immature N/A Natural Jack pine mixed with deciduous species. Jack pine / Oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	30	Sapling	3		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Jack Pine	40	Sapling/Pole	4	29	Cherry (spp.)	Medium	Variable	Sapling
Black Cherry	25	Sapling	3		Oak (spp.)	Medium	Variable	Sapling
Bigtooth Aspen	5	Sapling	3		Willow spp.	Low	Variable	Tall Shrub

18 42120 - Planted Jack Pine Poletimber Well 33.2 39 N/A Planted Jack pine with deciduous species mix.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	10	Pole/Sapling	4		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Jack Pine	90	Pole/Sapling	5	39	Cherry (spp.)	Medium	Variable	Sapling
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					Willow spp.	Low	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
20	4126 - White, Black, N. Pin Oak	Sawtimber Well	22.5	96	1-50	N/A	Red and White Oak stand with a mixed understory. Stand borders Granholm rd. Die back in the oak. Ready for final harvest.																																													
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21	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	68.5	32	Immature	N/A	Immature Jack pine stand. Starting to transition to small pole size. A few aspen inclusions.																																													
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22	42220 - Natural Jack Pine	Poletimber Medium	12.6	32	1-50	N/A	Immature Jack Pine with mixed deciduous and scattered open areas.																																													
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25	4131 - Aspen, Oak	Sapling Medium	3.7	6	Immature	N/A	Stand harvested under contract #72-031-12-01, Granholm Jack. Harvest completed in November, 2014. Regen is a mix of bigtooth aspen and oak, approximately 5' tall.																																													
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26	42250 - Pine, Oak	Poletimber Well	3.5	55	51-80	N/A	Small pocket of mature Jack Pine.																																													
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27	330 - Low-Density Trees	Nonstocked	3.3	0	Unspecified	42221 - Natural Jack Pine, Mixed Deciduous	Stand harvested under contract #72-031-12-01, Granholm Jack. Harvest completed in November, 2014. Clumps of jack pine regen, approx 1-2' tall. Mix of cherry, oak, and herbaceous open areas in between. Accept as is.																																													
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29	310 - Herbaceous Openland	Nonstocked	2.5			No	Upland brush/grassy open, low density jack pine and pin oak.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
30	4139 - Aspen, Mixed Deciduous	Sapling Well	183.2	21	Immature	N/A	Aspen mixed deciduous stand. Stand was salvaged in 1999 after tornado damage on 7/10/99. Stand does have some scattered and patches of mature timber within it that was not salvaged. ORV trail runs through a portion of the stand.																																										
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34	4131 - Aspen, Oak	Sapling Well	149.0	19	Immature	N/A	Stand was final harvested in 1994. Everything 6" and above was cut. ORV trail traverses through a portion of the stand. Cut through 72-028-02-01.																																										
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36	4131 - Aspen, Oak	Sapling Well	25.0	27	Immature	N/A	Immature Aspen stand mixed with other deciduous species. Was harvested along with stand 14 in 1994, sale # 006-92-01. This area regenerated to mostly aspen/oak.																																										
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37	6225 - Bog	Nonstocked	1.8			No	Bog with a few scattered jack pines.																																										
38	6225 - Bog	Nonstocked	2.5			No	Bog																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
41	4130 - Aspen	Poletimber Well	82.4	36	Unspecified	N/A	Aspen pole stand mixed with other deciduous species. Some of the areas are younger along Granholm Rd due to tornado damage.																																													
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44	4123 - Red Oak	Sawtimber Medium	19.3	111	51-80	N/A	Stand was salvaged after the tornado. Blow down was salvaged only. Regeneration scattered throughout the stand. Density is highly variable based on extent of salvage.																																													
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46	4132 - Aspen, Jack Pine	Sapling Well	12.7	27	Immature	N/A	Immature Aspen, Jack pine and other deciduous species. Cut in 1994, 72-006-92-01.																																													
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48	4130 - Aspen	Sapling Well	97.6	5	Immature	N/A	Sale was cut in the spring of 2016. The sale number is 72-011-12-01. Stand is filling in nicely with aspen, oak, and red maple. Average height of regen is 5-10' currently. Scattered conifer present.																																													
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49	42210 - Natural Red Pine	Sawtimber Medium	56.8	78	81-110	N/A	Red pine and Oak with some White pine. Oak/Red maple/Aspen under story. Cut through 72-029-02-01.																																													
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50	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	10.6	53	111-140	N/A	Natural Jack pine mixed with pockets of Aspen. Similar to stand 19, but with Aspen with pockets of Jack pine. Stand borders Hill rd.																																													
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Quaking Aspen	20	Pole	8																																																	
Jack Pine	80	Pole	6	53																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																	
Aspen (spp.)	Low	Variable	Sapling																																																	
Cherry (spp.)	Low	Variable	Sapling																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	4132 - Aspen, Jack Pine	Poletimber Well	28.6	47	51-80	N/A	Aspen pole stand with mixed deciduous species and scattered red/jack pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	7	
Black/Red (Hybrid) Oak	4	Log/Pole	10	
Paper Birch	3	Pole/Sapling	6	
Bigtooth Aspen	40	Pole/Log/Sap	8	47
Red Pine	3	Log/Pole	12	
Jack Pine	30	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Witch Hazel	Low	Variable	Tall Shrub
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Cherry (spp.)	Medium	Variable	Sapling
Oak (spp.)	Medium	Variable	Sapling

53	4131 - Aspen, Oak	Poletimber Well	7.7	52	51-80	N/A	Aspen mixed with other deciduous species. Some scattered pine throughout the stand. Stand is mostly kettle holes and ridges.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	24	Pole/Sap/Log	7	
Red Oak	20	Log/Pole	10	
Quaking Aspen	40	Pole/Sapling	7	52
White Pine	4	Pole/Sapling	5	
Red Pine	6	Log	16	
Jack Pine	3	Pole	5	
Black Cherry	3	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Aspen (spp.)	Medium	Variable	Sapling
Cherry (spp.)	Low	Variable	Sapling

54	42290 - Natural Mixed Pine	Poletimber Well	9.5	70	81-110	N/A	Older Red pine and some Oak mixed with younger Jack pine. Other deciduous species mixed. Rolling terrain and kettle holes limit operability within the stand. Scattered super canopy red pine with legacy tree type traits.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	7	
Northern Pin Oak	14	Pole/Log/Sap	7	
Quaking Aspen	6	Pole/Sapling	7	
White Pine	3	Log	14	
Red Pine	30	Log	14	91
Jack Pine	42	Pole/Log/Sap	7	70

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Aspen (spp.)	Low	Variable	Sapling
Cherry (spp.)	Low	Variable	Sapling
Oak (spp.)	Medium	Variable	Sapling

55	42220 - Natural Jack Pine	Sapling Medium	11.7	36	1-50	N/A	Natural Jack pine stand (immature). Rolling terrain. May have been planted, but didn't see any furrows or rows. Open brushy areas mixed in throughout.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	76	Sapling/Pole	4	36
Black Cherry	14	Sapling	2	
Quaking Aspen	10	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Low	Variable	Sapling

56	4131 - Aspen, Oak	Sapling Well	114.9	19	Immature	N/A	Stand was final harvested in 1994. Everything 6" and above was cut. Cut through 72-028-02-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	22	Sapling	2	
Quaking Aspen	25	Sapling	2	
Bigtooth Aspen	35	Sapling	2	19
Jack Pine	8	Sapling	2	
Black Cherry	10	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Aspen (spp.)	Low	< 5 feet	Seeding
Cherry (spp.)	Low	< 5 feet	Seeding
Oak (spp.)	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
400	110 - Low Intensity Urban	Nonstocked	1.2		Unspecified		Producing GAS Well BreitBurn, State Elmer 13-5 Permit #48505 Emergency #: 888-250-1681
401	3102 - Grass	Nonstocked	1.0		Unspecified		Producing GAS Well State Elmer 4-5 BreitBurn, Permit #45763 Emergency #: 888-250-1681
402	3102 - Grass	Nonstocked	1.3		Unspecified		Producing GAS well. State Elmer 6-5 BreitBurn, Permit #45734 Emergency #: 888-250-1681
403	3102 - Grass	Nonstocked	1.4		Unspecified		Producing GAS Well BreitBurn State Elmer 3-8 HDL1, permit #48408 Emergency #: 888-250-1681
404	3102 - Grass	Nonstocked	1.2	0	Unspecified		Directional start hole, Producing GAS BreitBurn State Elmer 5, D3-5 HD1, Permit #58669 Emergency #: 888-250-1681
405	3102 - Grass	Nonstocked	1.1		Unspecified		Producing GAS Well BreitBurn State Elmer 2-5, Permit #45488 Emergency #: 888-250-1681
406	110 - Low Intensity Urban	Nonstocked	1.6		Unspecified		BDW Well and CPF for Elmer Field IA Project. BreitBurn State Elmer 1-5SWD, Permit #44968 Emergency #: 888-250-1681
407	3102 - Grass	Nonstocked	1.0		Unspecified	No	Producing GAS Well BreitBurn State Elmer 9-5, Permit #45719 Emergency #: 888-250-1681
408	3102 - Grass	Nonstocked	1.8		Unspecified	No	Producing GAS Well BreitBurn State Elmer 12-4, Permit #45730 Emergency #: 888-250-1681
409	3102 - Grass	Nonstocked	1.6		Immature		Producing GAS Well BreitBurn State Elmer 1-8, permit #45743 Emergency #: 888-250-1681
410	3102 - Grass	Nonstocked	1.0	0	Unspecified		Producing GAS Well, BreitBurn State Elmer 12-9, Permit #45750 Emergency #: 888-250-1681
411	3102 - Grass	Nonstocked	1.3		Unspecified		Producing GAS Well. BreitBurn State Elmer 6-9, Permit #45749 Emergency #: 888-250-1681



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
412	3102 - Grass	Nonstocked	1.1		Unspecified		Producing GAS Well BreitBurn State Elmer 14-4 HD SUMP, Permit #45781 Emergency #: 888-250-1681
413	3102 - Grass	Nonstocked	1.2		Unspecified		Producing GAS well, BreitBurn State Elmer 5-4HDN1, Permit #45762
414	3102 - Grass	Nonstocked	1.1		Unspecified		Producing GAS Well BreitBurn State Elmer 3-4 Permit# 45733
415	3102 - Grass	Nonstocked	1.1		Unspecified		Producing GAS Well BreitBurn State Elmer 1-4 Permit# 45761
416	3102 - Grass	Nonstocked	1.0		Unspecified		Producing GAS Well BreitBurn State Elmer 7-4 Permit# 45731
417	110 - Low Intensity Urban	Nonstocked	1.0		Unspecified		Producing GAS Well BreitBurn State Elmer 9-4
418	3102 - Grass	Nonstocked	1.0		Unspecified		Producing GAS Well BreitBurn St Elmer 15-4, Permit #45762
419	3102 - Grass	Nonstocked	1.0		Unspecified		Producing GAS well BreitBurn, State Elmer 2-9 Permit #45747 Emergency #: 888-250-1681