



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54168

Entry Year 2021

Acreage: 1,606

County Cheboygan

Management Area: Hammond Bay Lake Plain

Revision Date: 2019-03-29

Stand Examiner: Ryan Zimmerman

Legal Description:

Sections 5-7, T37N-R1E

Identified Planning Goals:

Soil and topography:

Active sand & gravel pits are located two miles to the west and one mile to the north. Little information is available on the surficial geology within the compartment, but there may be some sand & gravel potential on the uplands.

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

Active sand & gravel pits are located two miles to the west and one mile to the north.

Unique Natural Features:

Mud Lake ERA

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Mud Lake ERA

Watershed and Fisheries Considerations:

Many drainage's as well as mud lake in this compartment

Wildlife Habitat Considerations:

Center of this compartment is good for grouse management.

Mineral Resource and Development Concerns and/or Restrictions

Active sand & gravel pits are located two miles to the west and one mile to the north. Little information is available on the surficial geology within the compartment, but there may be some sand & gravel potential on the uplands. There is no known oil & gas potential in this area, and there is no current mineral lease activity. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Northeast part has almost no access to it. Otherwise there are two tracks that run through the center of the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

There are ORV trails/routes that run through the southern part of the compartment.

Fire Protection:

Northwest and southern parts are pine dominated.

Additional Compartment Information:

The following reports from the Inventory are attached:

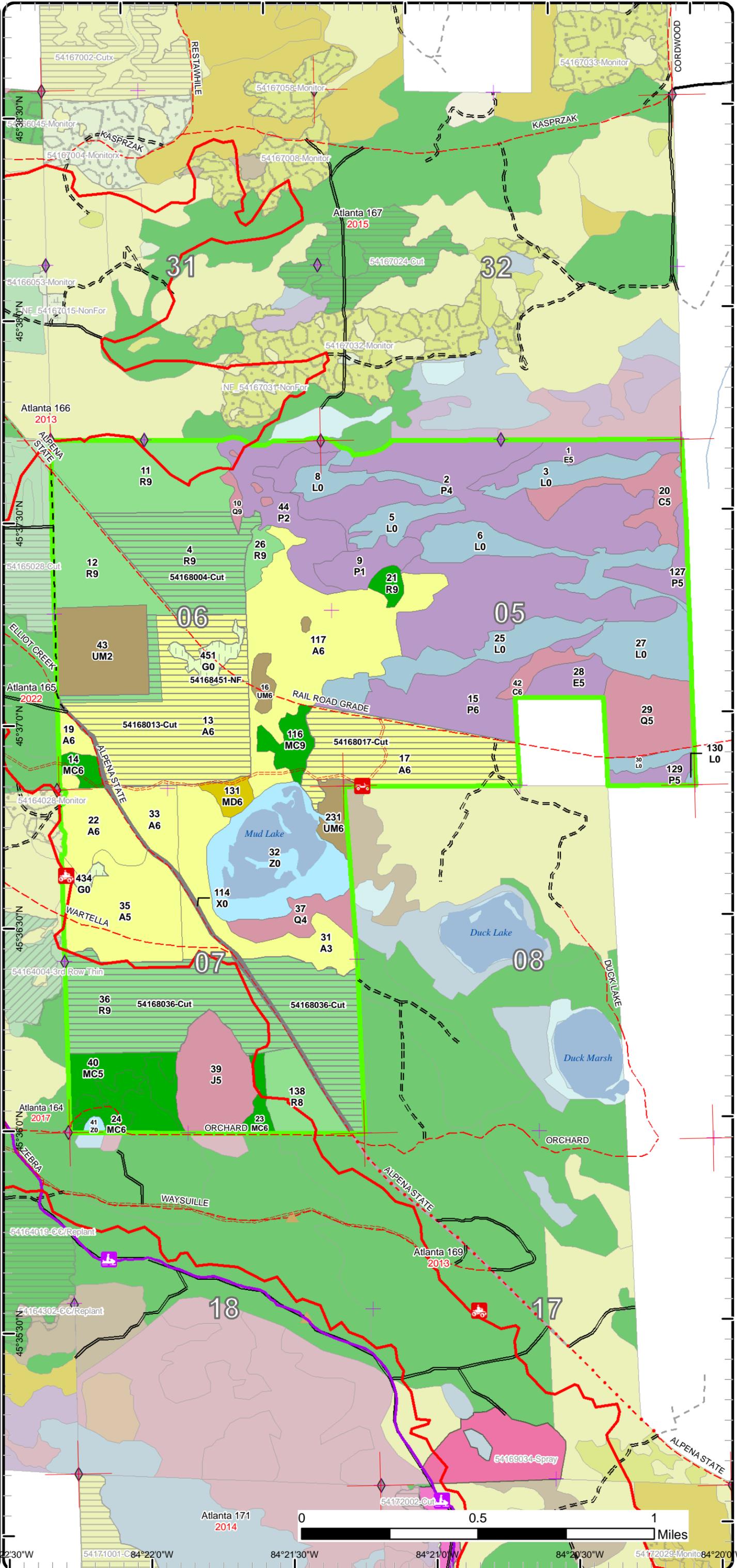
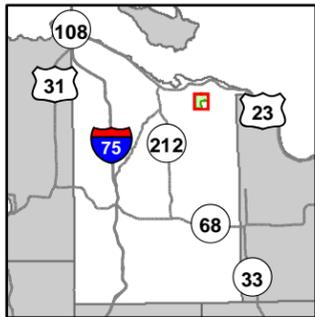
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 168
 T37N, R01E, Sec. 5-7
 County: Cheboygan
 Unit: Atlanta
 Mgmt Area: Hammond Bay Lake Plain
 YOE: 2021
 Acres: 1,606 GIS Calculated
 Examiner: Ryan Zimmerman
 Map Revised: 10/10/2019
 Map Phase: Post-Review



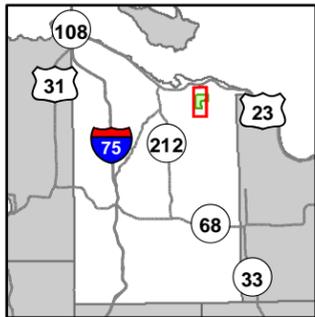
- Miris Corners
- Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
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- ORV Routes
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
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- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Clearcut (w/Reserves)
- Opening Maintenance
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes



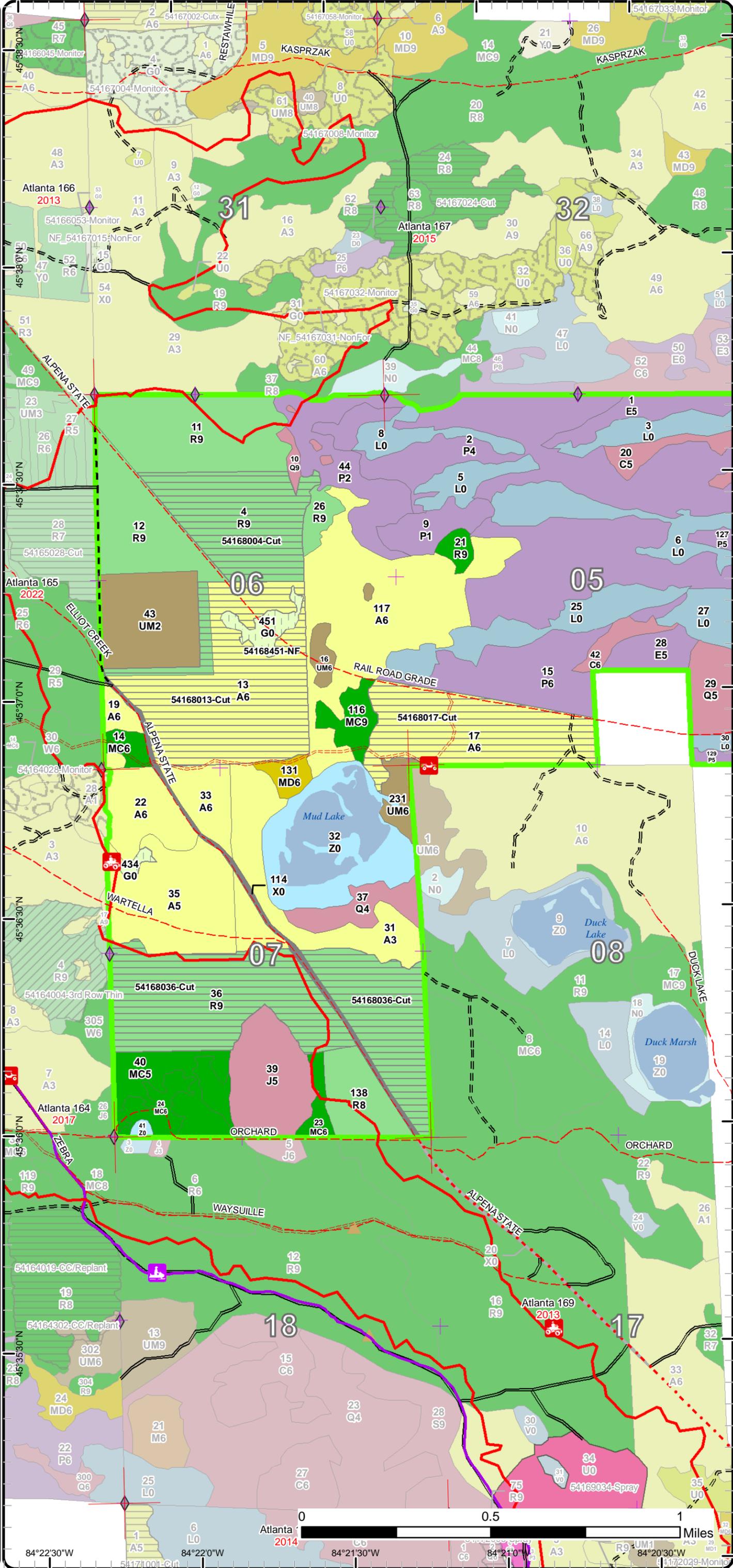
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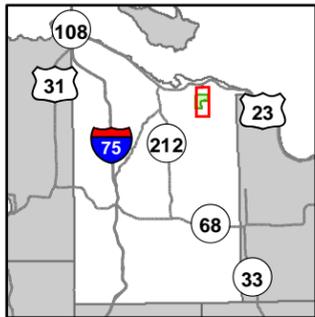


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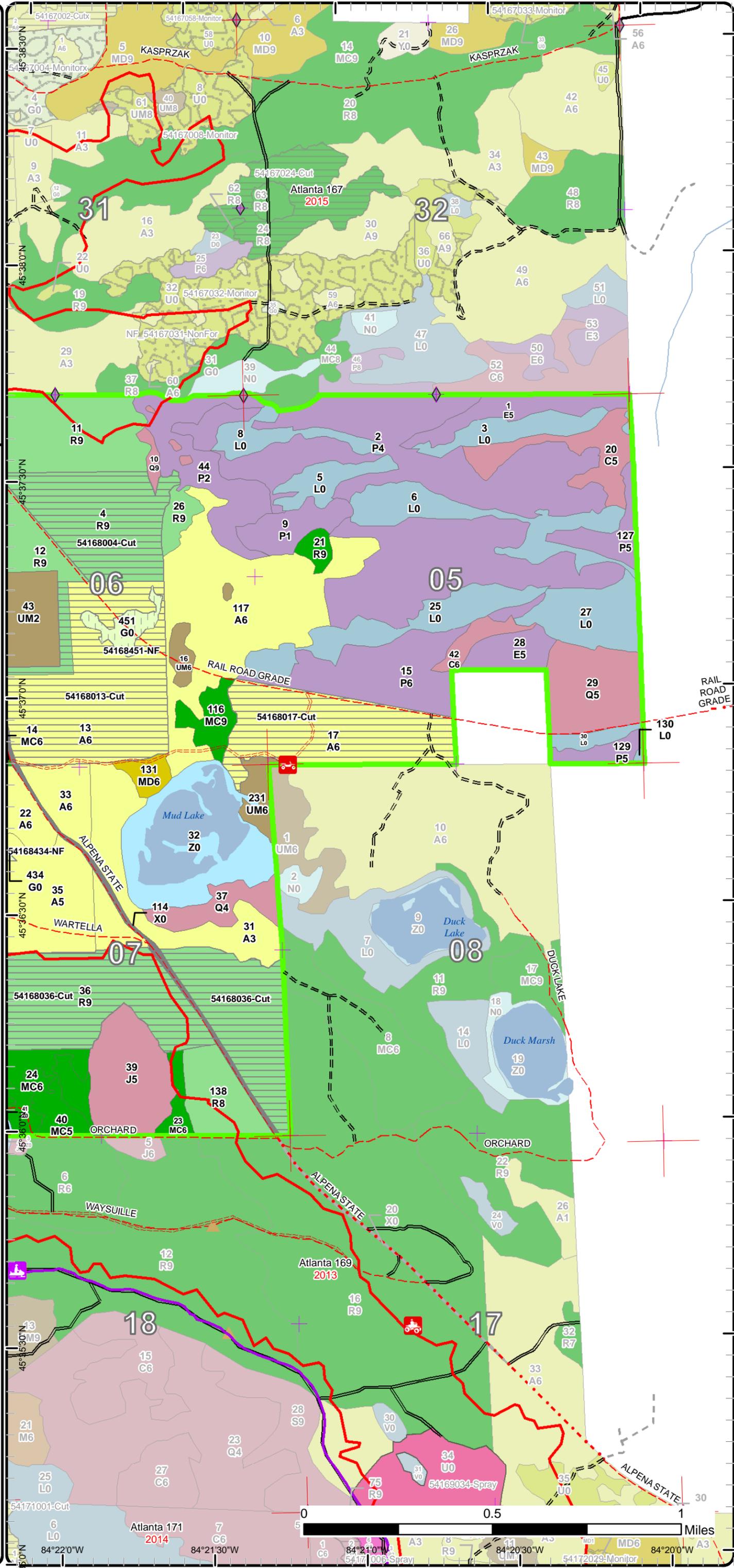


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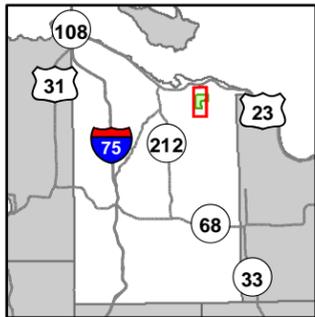


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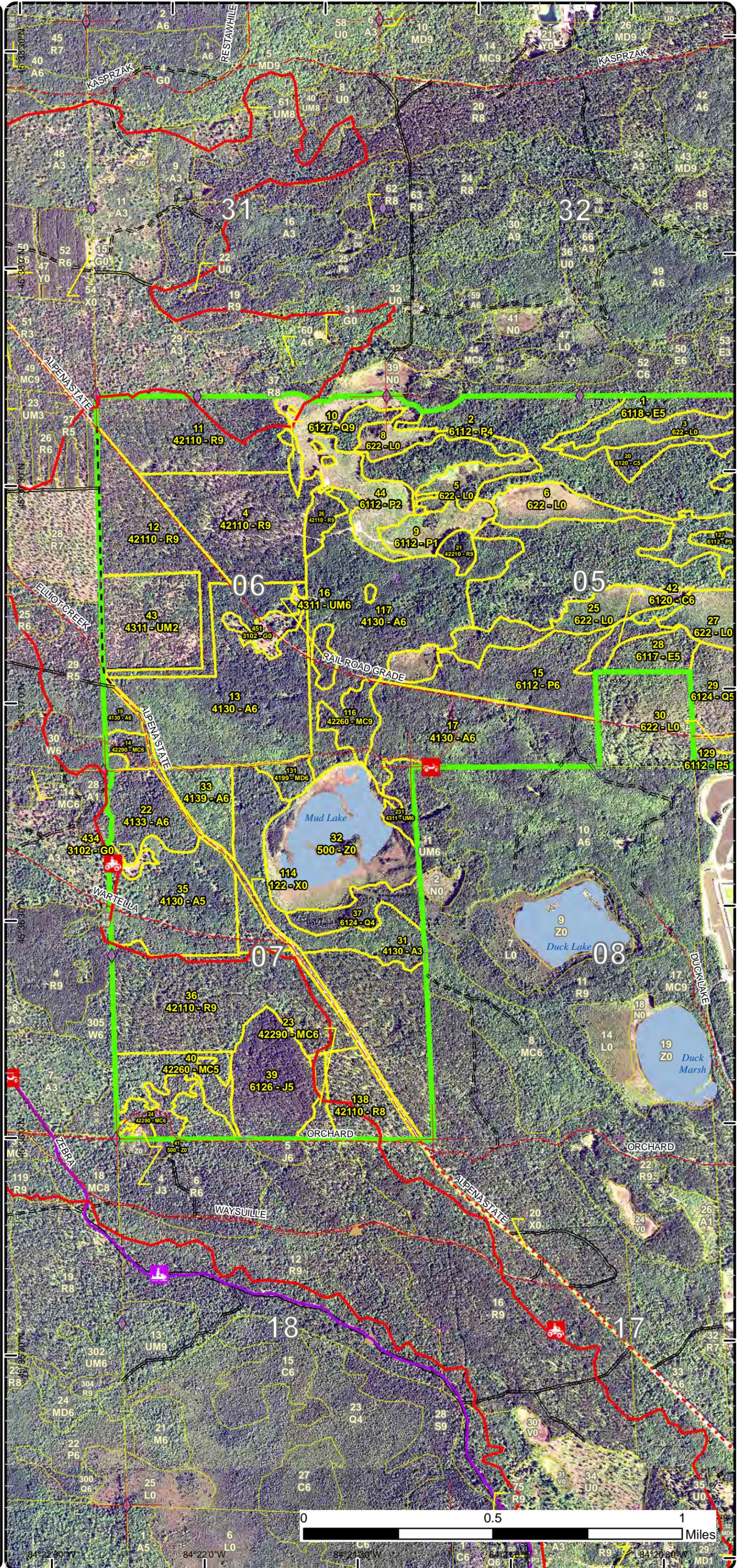


Stand Boundary Map

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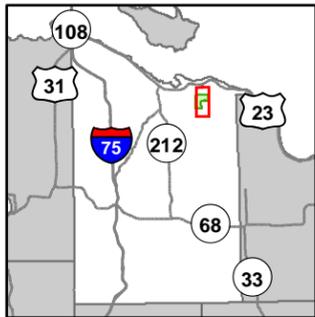


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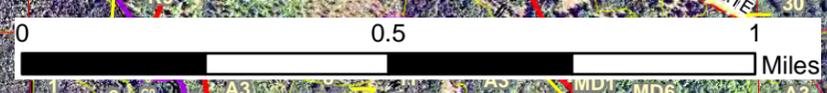
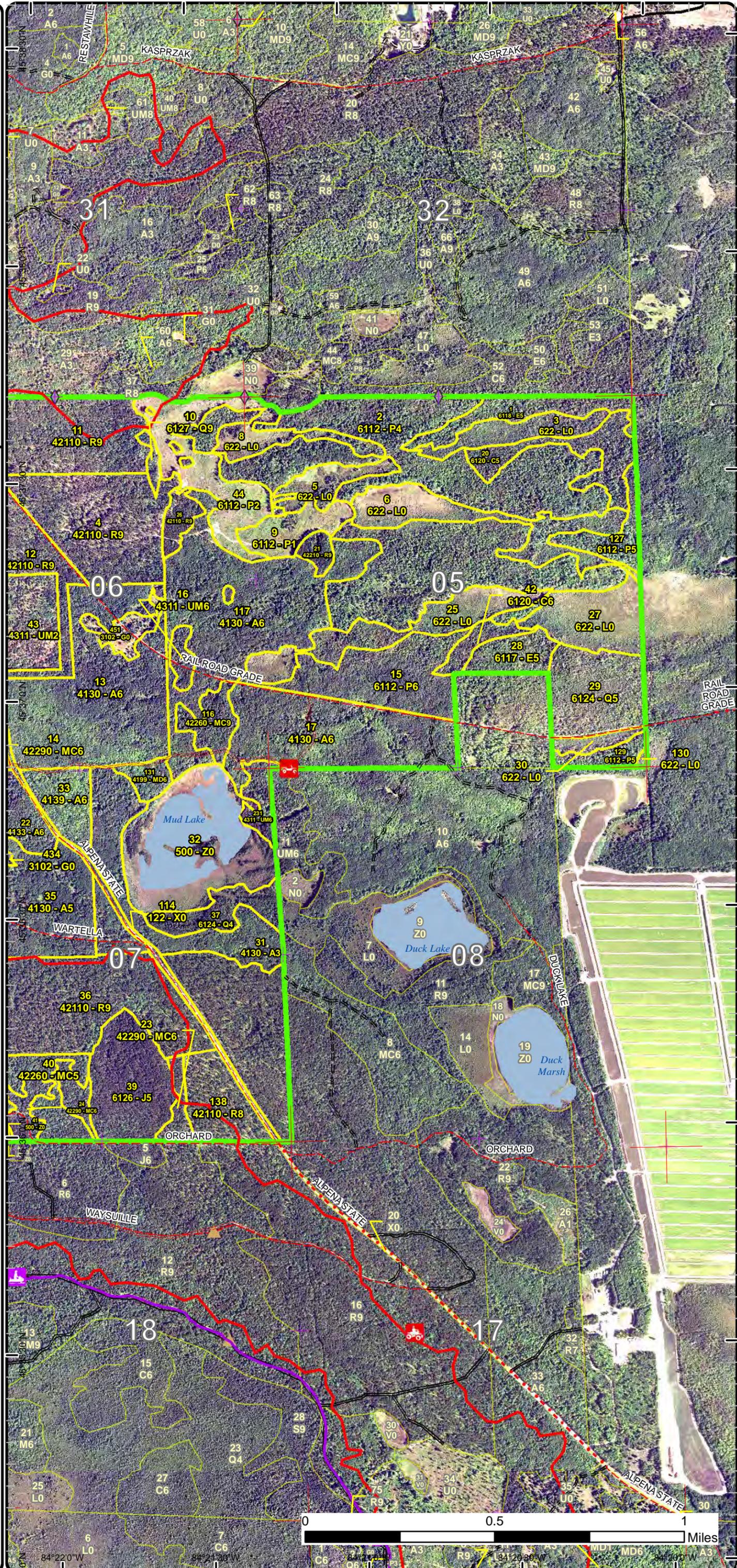


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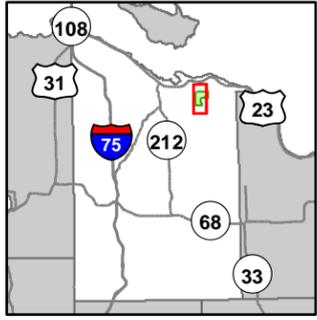
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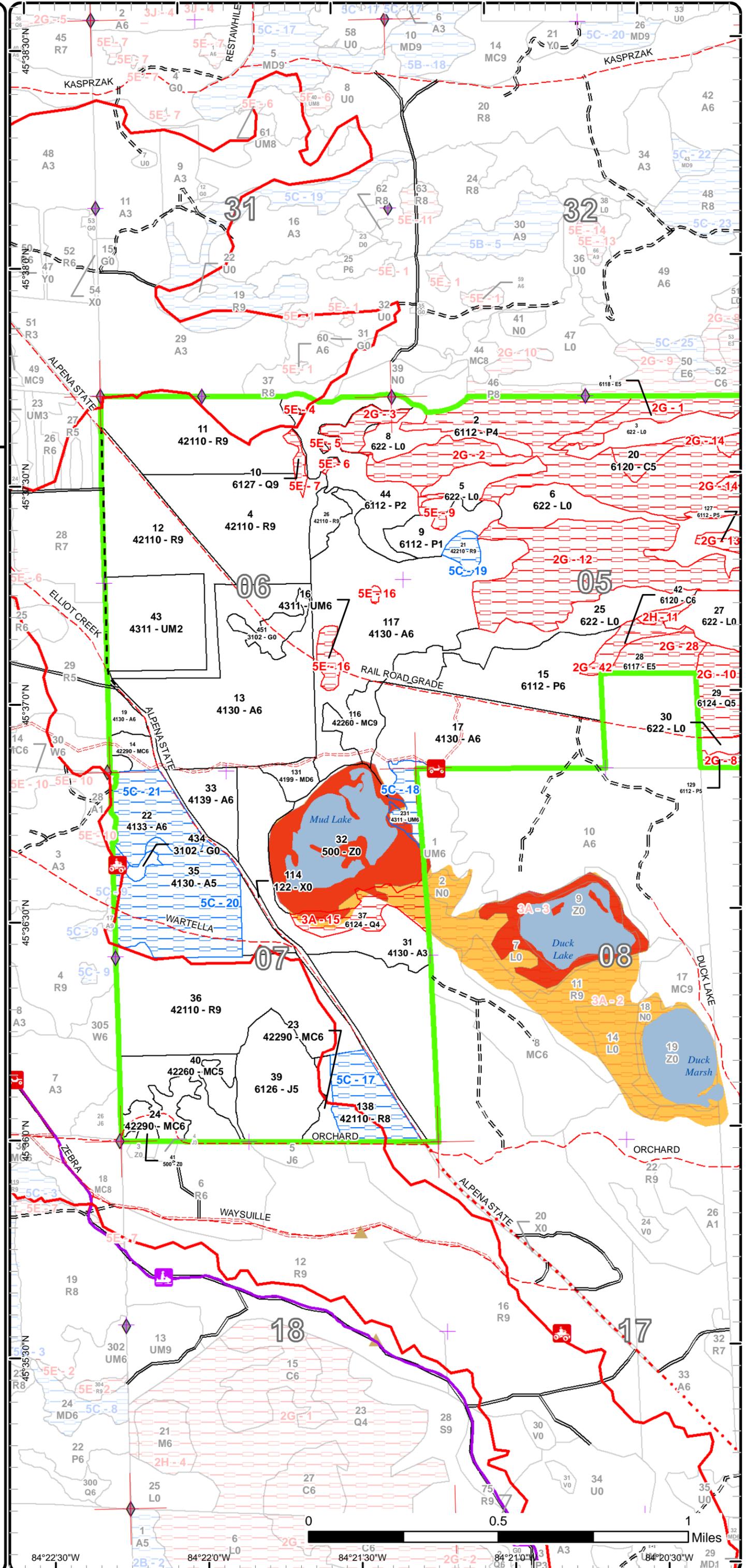
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Special Conservation Areas & Site Conditions Map

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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks

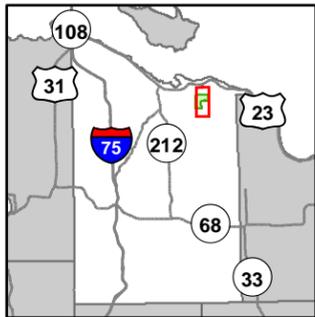


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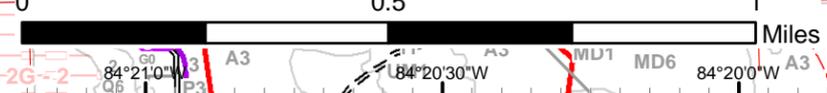
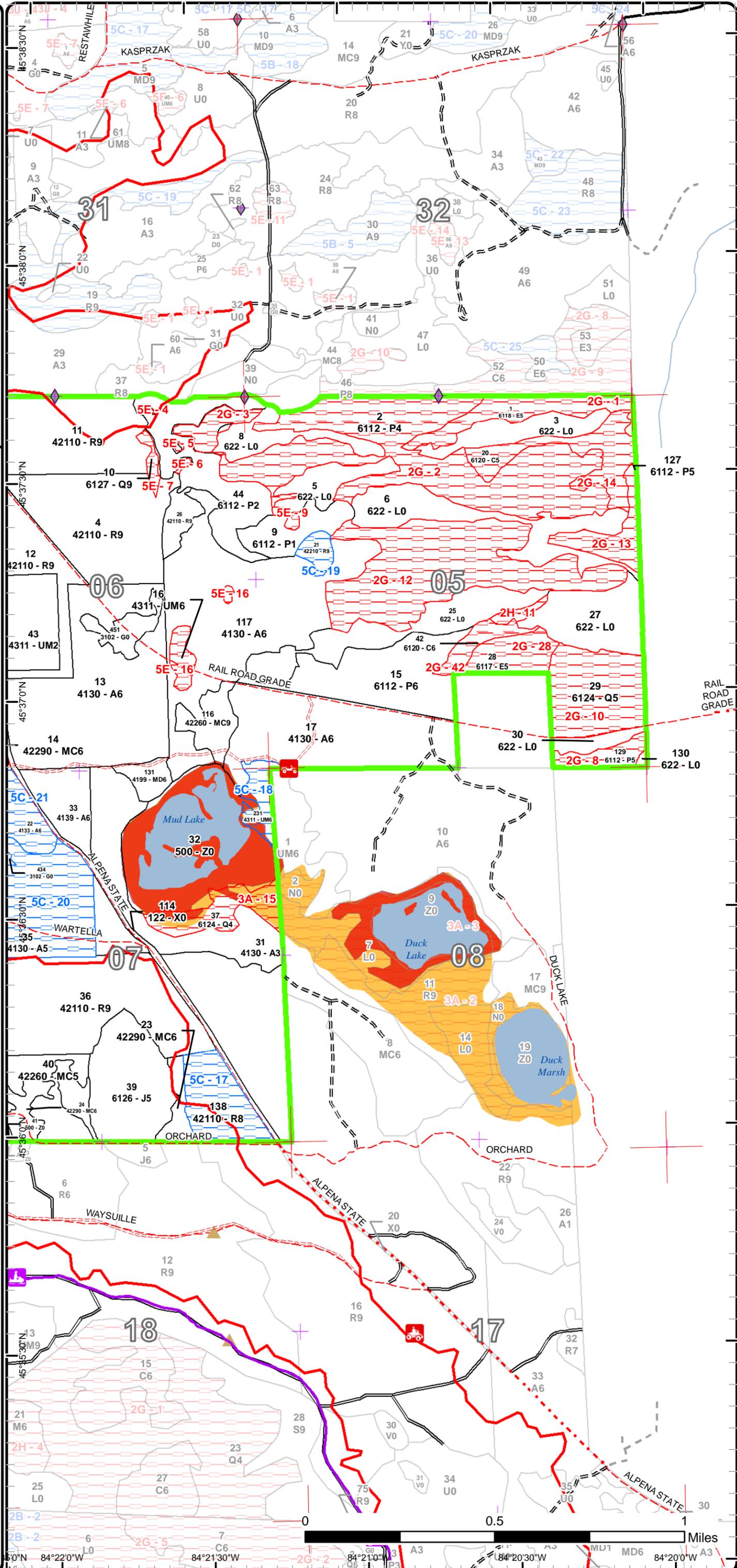
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Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 168 Year of Entry 2021

Ryan Zimmerman : Examiner



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	50	7	363	0	0	0	0	0	0	0	0	0	0	0	0	420
Cedar	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	31
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Jack Pine	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Aspen/Balsam Poplar	0	53	0	0	44	0	0	8	15	187	0	0	0	0	0	0	0	0	307
Lowland Conifers	0	0	0	0	0	0	17	35	4	0	0	0	0	0	0	0	0	0	56
Lowland Deciduous	0	0	0	0	0	0	0	13	0	19	0	0	0	0	0	0	0	0	31
Lowland Shrub	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Mixed Upland Deciduous	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	0	0	0	0	6	0	50	0	0	12	0	0	0	0	0	0	0	0	68
Red Pine	0	0	0	0	0	0	0	0	349	0	0	0	0	0	0	0	0	0	349
Upland Mixed Forest	0	0	0	42	0	0	0	0	9	6	0	0	0	0	0	0	0	0	57
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Total	242	53	0	92	57	363	106	63	377	224	31	0	1607						



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 168

Total Compartment Acres: 1,606

Commercial Harvest - 376
 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
Aspen	174	0	0	0	0	0	0	0	0	174
Red Pine	202	0	0	0	0	0	0	0	0	202
Total	376	0	0	0	0	0	0	0	0	376

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	376	0	0	0	0	0	0	11	0	387
Next Step	0	404	202	0	0	202	578	0	0	1386
Total	376	404	202	0	0	202	578	0	11	1773



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	54168004-Cut	60.2	42110 - Planted Red Pine	Sawtimber Well	77	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. 6 inch stump height and 2 inch diameter and up trees. Protect trail and signs. Cut any trees with signs above then sign.
Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Fully stocked planted red pine
Regen:

Other Roller chop if necessary, spray herbicide, trench and plant red pine
Comment:

Proposed Start Date: 10/1 /2020

13	54168013-Cut	105.8	4130 - Aspen	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention left near the Mud Lake ERA. Do not cut pine. Include spec 5.2.4.4 grouse logs. 2 inch diameter and up harvest. Add trail
Specs: protection specs for ORV trail.

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

Acceptable Any mix of aspen, red maple, oak or pine with moderate to well stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

17	54168017-Cut	68.2	4130 - Aspen	Poletimber Well	46	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention left around Mud Lake ERA. Do not cut pine any pine. 2 inch diameter and up harvest. Include spec 5.2.4.4 grouse log.
Specs: Add trail protection specs for ORV trail.

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

Acceptable Any mix of aspen, red maple, oak or pine with moderate to well stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

36	54168036-Cut	141.8	42110 - Planted Red Pine	Sawtimber Well	79	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention left near Alpena State rd on the west side of the road, in the northern part of the stand to minimize visual impact. 2 inch
Specs: diameter and up harvest. 6 inch stump height.
 Add trail protection specs for ORV trail. Use trail as the northern boundary of the treatment. Cut trees with signs off above the sign.

Next Step SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Fully stocked planted red pine
Regen:

Other Include roller chopping, spraying chemical, trenching and planting in Rx.
Comment:

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
434	54168434-NF	2.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	320 - Upland Shrub		Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

451	54168451-NF	8.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 386.7**

Report 4 – Site Conditions

Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 168

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	2G	2H	3A	5E	
420	339	81	0	Aspen	81					0
31	0	0	31	Cedar		31				
11	11	0	0	Herbaceous Openland						
39	39	0	0	Jack Pine						
307	96	0	211	Lowland Aspen/Balsam Poplar		207	2			1
56	1	0	55	Lowland Conifers		35		17		3
32	0	0	32	Lowland Deciduous		32				
147	146	0	0	Lowland Shrub		0				
7	7	0	0	Mixed Upland Deciduous						
68	68	0	0	Natural Mixed Pines						
349	320	29	0	Red Pine	29					
57	42	9	6	Upland Mixed Forest	9					6
12	12	0	0	Urban						
72	72	0	0	Water						
1,606	1,153	119	335	Total Forested Acres	119	305	2	17		10
	72%	7%	21%	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	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
The west edge is slightly less wet, but still too wet to operate equipment in. Standing water heaviest in the east. Drainage running from NE to SW in the western finger.							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 168

Year of Entry: 2021

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	101	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pockets of 1-2 acres upland islands within stand. No access to get to them due to wetness of the area. Standing water was scattered through the stand. Some pockets of Tag Alder as well.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 168

Year of Entry: 2021

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Standing water throughout the stand.							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small upland stand with no way to haul wood out of area due to surrounding area be all lowland and to wet to access with equipment.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the stand is very wet. Has a few small upland pockets scattered through stand that are less than .2 acres. The southern edge has some upland area as well. Overall the stand is very wet and low production.							

Report 4 – Site Conditions

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Compartment: 168

Year of Entry: 2021

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Southern part of the stand is more upland. No way to harvest that area due to being surrounded by lowland areas. Northern part is very wet and low productive soil.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3A: Conservation Values incompatible with harvest at this time	17	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Mud Lake Lake ERA Too wet to harvest							
16	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention pockets from when stand 117 was harvested.							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 168

Year of Entry: 2021

18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: If treated, treat with stand 1 in compartment 169							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat when stand 117 is treated.							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 168

Year of Entry: 2021

42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet and soil is soft. Was not completely frozen in spots. Susceptible to major rutting.							

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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	6118 - Lowland Deciduous with Cedar	Poletimber Medium	18.5	86	51-80	N/A	Stand Year Origin was 1933 Cedar is mostly to the east and aspen/red maple more dominate to the west. Had a monitoring treatment on this stand, but not harvest was done.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		35	Pole	6	86	Red Maple	Low	Variable	Sapling
Northern White Cedar		35	Pole	8	86	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple		25	Pole	7		Balsam Fir	Trace	Variable	Sapling
2	6112 - Lowland Aspen	Poletimber Poor	187.2	81	1-50	N/A	Stand origin was 1938. Very low productivity soil and very poor quality timber. Some islands of upland. Has drainage's running throughout the stand and areas of standing water.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		58	Pole/Log	8	81	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir		15	Pole	6		Dogwood (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Maple		15	Pole	8		Balsam Fir	Medium	Variable	Sapling
						Red Maple	Low	Variable	Sapling
3	622 - Lowland Shrub	Nonstocked	17.2		Unspecified	No	Some cedar, balsam, spruce, red maple, and dogwood growing. Most trees are on the east side of stand.		
4	42110 - Planted Red Pine	Sawtimber Well	60.2	77	111-140	N/A	Canopy is fairly open with approximately 75% canopy cover. 5 stick tall pine with poor self pruning. Diameter and height of trees vary throughout the stand. Just converting to log size trees. Sale 54-001-01-01, Abitibi Grade Removal, completed 10-28-04. Red pine thinning.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		95	Log/Pole	10	77	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
						Bigtooth Aspen	Low	Variable	Sapling
						Red Maple	Low	Variable	Sapling
						Beech	Trace	Variable	Sapling
5	622 - Lowland Shrub	Nonstocked	12.9		Unspecified	No	Lowland opening that has some pockets of red maple and dead black ash on the edges.		
6	622 - Lowland Shrub	Nonstocked	34.5		Unspecified	No	Large flooding area with few trees growing.		
8	622 - Lowland Shrub	Nonstocked	14.4		Unspecified	No	Has a two track running through it that is more like mud bog area. Some trees growing on the east finger on the edges.		
9	6112 - Lowland Aspen	Sapling Poor	15.9	4	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		50	Sapling	1	4	Cattail spp.	Low	Unspecified	Non-Wood
Red Maple		35	Sapling	1		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak		10	Sapling	1					
10	6127 - Lowland Pine	Sawtimber Well	4.0	78	171-200	N/A	Retention pockets left from sale in stand 44.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		100	Log	10	78				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
11	42110 - Planted Red Pine	Sawtimber Well	60.7	77	111-140	N/A	Canopy is fairly open with approximately 75% canopy cover. 5 stick tall pine with poor self pruning. Diameter and height of trees vary throughout the stand. Just converting to log size trees. Sale 54-001-01-01, Abitibi Grade Removal, completed 10-28-04. Red pine thinning.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		95	Log/Pole	10	77	Black/Red (Hybrid) Oak		Medium	Variable	Sapling
						Bigtooth Aspen		Low	Variable	Sapling
						Red Maple		Low	Variable	Sapling
						Beech	Trace	Variable	Sapling	
12	42110 - Planted Red Pine	Sawtimber Well	50.7	77	141-170	N/A	Slightly higher stocking than stand 11. Otherwise it is the same. Fairly open still with 80% canopy cover and 150 BA. Just converting to log size trees about 5 sticks tall. Sale 54-001-01-01, Abitibi Grade Removal, completed 10-28-04. Red pine thinning.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		95	Log/Pole	10	77	Black/Red (Hybrid) Oak		Medium	Variable	Sapling
						Bigtooth Aspen		Low	Variable	Sapling
						Red Maple		Low	Variable	Sapling
						Beech	Trace	Variable	Sapling	
13	4130 - Aspen	Poletimber Well	97.5	48	51-80	N/A	Very mixed stand dominated by aspen. More maple in the south half and more pine in the north half. Lower density in the northern half as well. Closer to 50 BA.			
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		60	Pole	5	48					
Black/Red (Hybrid) Oak		10	Pole/Sapling	5						
Red Maple		20	Pole/Sapling	5						
White Pine		6	Log	12						
14	42290 - Natural Mixed Pine	Poletimber Well	5.8	36	51-80	N/A	Dominated by white pine with aspen mostly present on the east side of the stand. Close to 50 BA.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		55	Pole/Log	8	36					
Bigtooth Aspen		20	Pole/Sapling	5	36					
Red Pine		25	Pole/Sapling	5						
15	6112 - Lowland Aspen	Poletimber Well	43.5	37	1-50	N/A	Stocking to the north is fairly low. The further south in the stand you go the more upland it becomes. Just starting to convert to poles. Closer to 75% canopy cover.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		72	Pole	5	37	Tag Alder		Trace	5 - 10 feet	Tall Shrub
Balsam Fir		10	Sapling	3						
Red Maple		15	Sapling/Pole	4						
16	4311 - Pine, Aspen Mix	Poletimber Well	5.9	82	81-110	N/A	Retention pockets left from previous sale in stand 117. Mix of white pine, red maple, aspen, and a couple oak.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
White Pine		50	Pole	9	82	Quaking Aspen		Low	Variable	Sapling
Quaking Aspen		35	Pole/Log	9		Red Maple		Medium	Variable	Sapling
Red Maple		14	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
17	4130 - Aspen	Poletimber Well	68.2	46	Unspecified	N/A	Poor soil, old lake shore - sand and gravel. Just converting to poles. Pockets of white pine poles scattered through center of stand mostly. Old landing location is still fairly open. A few of the sandy areas do not have anything really growing as well.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		65	Pole	6	46				
White Pine		10	Pole	7					
Red Maple		18	Pole	5					
19	4130 - Aspen	Poletimber Well	7.2	36	1-50	N/A	Just converting to pole size trees.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		80	Pole/Sapling	5	36				
Red Maple		10	Pole/Sapling	5					
White Pine		9	Log	12					
20	6120 - Lowland Cedar	Poletimber Medium	23.0	97	1-50	N/A	Low quality stand and very wet.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Northern White Cedar		60	Pole	8	97	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen		15	Pole	6		Red Maple	Low	Variable	Sapling
Balsam Fir		15	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
						Dogwood (spp.)	Trace	5 - 10 feet	Tall Shrub
21	42210 - Natural Red Pine	Sawtimber Well	4.8	78	171-200	N/A	Had previous treatment to thin. Trees are susceptible to windthrow if they are thinned. 7 sticks tall and only 10 inch DBH. Stand has never been treated before. There is a windthrow pocket in northern half of stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Pine		90	Log	10	78	Beech	Trace	Variable	Sapling
						Red Maple	Low	Variable	Sapling
						Bigtooth Aspen	Low	Variable	Sapling
						Black/Red (Hybrid) Oak	Low	Variable	Sapling
22	4133 - Aspen, Mixed Pine	Poletimber Well	25.8	48	1-50	N/A	Just converting to poles. Diameter of trees are slightly smaller overall than in stand 35. Has more of a pine component than stand 35 as well. Due to slightly smaller trees the BA was slightly less than stand 35, but had more canopy cover.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		40	Pole	5	48	Red Maple	Medium	Variable	Sapling
White Pine		35	Pole	6		Beech	Trace	Variable	Sapling
Red Maple		15	Pole	5		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak		10	Pole	5					
23	42290 - Natural Mixed Pine	Poletimber Well	6.6	53	81-110	N/A	Pine dominated stand. Open pockets have jack pine and aspen growing in them.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Jack Pine		40	Pole	8		Red Maple	Medium	Variable	Sapling
Red Pine		50	Pole	9	53	Bigtooth Aspen	Low	Variable	Sapling
Black/Red (Hybrid) Oak		10	Pole	7		Jack Pine	Low	Variable	Sapling
						Black/Red (Hybrid) Oak	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
24	42290 - Natural Mixed Pine	Poletimber Well	17.8	51	81-110	N/A	Very mixed stand. Low quality timber.																																																						
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27	622 - Lowland Shrub	Nonstocked	28.1		Unspecified	No	Lowland drainage area. Few trees on edge of stand. Some shrubs growing into the middle.																																																						
28	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	13.4	67	1-50	N/A	Low productivity site. Small trees for the age. Very wet conditions as well. The SW corner has some higher ground which is where the most amount of maple and aspen is found. The NE 2/3 of the stand has smaller diameter trees and is where the spruce is located.																																																						
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29	6124 - Lowland Spruce-Fir	Poletimber Medium	35.0	61	1-50	N/A	Pockets with little to no trees. Very wet. Closer to 50% canopy cover than 75%.																																																						
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30	622 - Lowland Shrub	Nonstocked	5.6		Unspecified	No	Drainage area.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
31	4130 - Aspen	Sapling Well	50.4	27	Immature	N/A	Good regeneration. Stand as overstory oaks and white pine left over from harvest.																																									
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32	500 - Water	Nonstocked	70.9		Unspecified	No	Mud Lake/Duck Lake Natural Area.CLOSE ROADS o.r.v. are accessing the marsh and mud bogging. Mud Lake ERA area																																									
33	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.4	45	51-80	N/A	Just converting to poles. Has more red maple than surrounding stands. Closer to 50 BA																																									
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35	4130 - Aspen	Poletimber Medium	55.7	48	51-80	N/A	Just converting to poles. Close to 50 BA. Some areas did not have goof regeneration and this is where more of the pine are growing.																																									
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36	42110 - Planted Red Pine	Sawtimber Well	141.8	79	111-140	N/A	Sale 54-001-01-01, Abitibi Grade Removal, completed 10-28-04. Short red pine only 5 sticks tall. Poor self pruning. Canopy is still fairly open. Close to 75% canopy cover.																																									
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37	6124 - Lowland Spruce-Fir	Poletimber Poor	16.6	54	1-50	N/A	Mud Lake/Duck Lake Natural Area. Very wet and close to 25% canopy cover.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
39	6126 - Lowland Jack Pine	Poletimber Medium	39.2	50	51-80	N/A	Appears to be a frost pocket area that is wet at times.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Jack Pine		75	Pole	7	50	Jack Pine	Medium	Variable	Sapling
Red Pine		10	Log	12		White Pine	Low	Variable	Sapling
						Red Pine	Low	Variable	Sapling
						Black/Red (Hybrid) Oak	Low	Variable	Sapling
40	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	25.8	50	51-80	N/A	Low quality timber. More pine component in the south and west parts of the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		35	Pole	6	50	Jack Pine	Low	Variable	Sapling
Jack Pine		20	Pole	7		White Pine	Low	Variable	Sapling
Red Pine		20	Log/Pole	10		Beech	Trace	Variable	Sapling
White Pine		20	Log/Pole	10		Red Pine	Low	Variable	Sapling
						Black/Red (Hybrid) Oak	Low	Variable	Sapling
41	500 - Water	Nonstocked	1.5		Unspecified	No	Seasonal vernal pond.		
42	6120 - Lowland Cedar	Poletimber Well	7.7	98	81-110	N/A	Dominated by cedar. Soft ground and has small pockets of blow down in the stand. Pockets of blow down dominated by balsam fir.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Northern White Cedar		50	Pole/Log	9	98	Balsam Fir	Medium	Variable	Sapling
Balsam Fir		15	Pole	6		Northern White Cedar	Trace	Variable	Sapling
Bigtooth Aspen		25	Pole	8		Red Maple	Low	Variable	Sapling
						Tag Alder	Trace	5 - 10 feet	Tall Shrub
43	4311 - Pine, Aspen Mix	Sapling Medium	42.3	27	Immature	N/A	Very mixed stand. Has pockets with nothing growing.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		25	Sapling	4	27				
Red Pine		25	Sapling	4	27				
Quaking Aspen		30	Sapling/Pole	4	27				
Black/Red (Hybrid) Oak		10	Sapling	3					
Red Maple		10	Sapling	3					
44	6112 - Lowland Aspen	Sapling Medium	37.2	4	Immature	N/A	Slightly more upland than stand 9 and better stocking. Moderate stocking level.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		60	Sapling	1	4				
Red Maple		30	Sapling	1					
Black/Red (Hybrid) Oak		9	Sapling	1					
114	122 - Road/Parking Lot	Nonstocked	11.6		Unspecified	No	Alpena State Road.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
116	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	12.0	81	81-110	N/A	Sandy area dominated by white pine. NW end is fairly wet which is where more of the red maple is at. Some pockets open pockets with aspen and red maple regeneration. Understory of white pine has white pine and oak in it. Desirable regeneration in the understory.																																					
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117	4130 - Aspen	Poletimber Well	97.8	46	51-80	N/A	The center part of the stand is pretty wet and has lower stocking levels. It is 60% upland and 40% lowland. Just converting into poles. Close to 50 BA and 75% canopy cover.																																					
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127	6112 - Lowland Aspen	Poletimber Medium	14.9	74	51-80	N/A	North end of the stand is very wet with low quality. South end has more of the red maple and is an upland finger surrounded by flooding areas.																																					
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129	6112 - Lowland Aspen	Poletimber Medium	7.9	67	1-50	N/A	Very wet and unproductive soils. Has some upland in the southern edge of the stand.																																					
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130	622 - Lowland Shrub	Nonstocked	0.7		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																																					
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131	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.7	67	51-80	N/A	Mud Lake/Duck Lake Natural Area. Looks to be an oak overstory with red maple, sugar maple, and aspen in understory that is just converting to pole size.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
138	42110 - Planted Red Pine	Sawtimber Medium	23.9	79	141-170	N/A	Open canopy with 5 stick tall red pine. Not very well pruned.																																			
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231	4311 - Pine, Aspen Mix	Poletimber Well	9.0	71	81-110	N/A	Mud Lake/Duck Lake Natural Area. White pine is larger than understory aspen and red maple so it appears to be a two aged stand. The southern part of the stand is more wet than the northern part. Aspen and red maple are smaller in size on the northern part of the stand.																																			
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434	3102 - Grass	Nonstocked	2.0		Unspecified	Managed Opening	Previous inventory said this was a manged opening but did not see any evidence of this being managed.																																			
451	3102 - Grass	Nonstocked	8.7		Unspecified	Managed Opening	Previous inventory said this was a managed opening. Was not able to see much evidence of management being taken place in this opening.																																			