



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33062

Entry Year 2021

Acreage: 942

County Menominee

Management Area: Green Bay Lake Plain

Revision Date: 2019-06-21

Stand Examiner: Dan Racine

Legal Description:

T34N R26W Sections 23, 24, 26 and 34.

Identified Planning Goals:

This compartment is located about 8 miles south and 7 miles east of Stephenson, MI; about 2 miles west of M-35. It is a mix of lowland and upland forest and non-forested types. Lowland types are primarily cedar, swamp conifer, lowland brush and lowland hardwoods. Upland types are mostly upland hemlock, aspen and northern hardwoods. Portions of the original compartment were listed for disposal. The treatments within this compartment have separated out the poorly stocked and higher stocked ash stands that can be treated and salvaged before EAB concerns within this area. Treatments within the upland stands are designed to encourage regeneration within those types.

Soil and topography:

The topography is mostly level to gently rolling. The soils are primarily poorly-drained muck and peat, poorly-drained sands and some well-drained sands. The major soil series are Deford, Wainola, Rousseau, Lupton and Tawas.

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

This compartment is mostly scattered parcels located 8 miles south and 7 miles east of Stephenson, Michigan lying within two miles of Lake Michigan. One block has direct access from CR-338 but the other parcels require access over private land. Private land use within this compartment is mostly farming and recreation--mainly hunting. .

Unique Natural Features:

The MNFI gis layer indicates an observation (1889) of a special concern orchid. WLD reports an active hawk nest in the compartment.

Archeological, Historical, and Cultural Features:

None known within the compartment, however, potential is reported in adjacent sections

Special Management Designations or Considerations:

No SCA's exist in this compartment.

Watershed and Fisheries Considerations:

Headwaters of a small tributary to Fowler Creek is located in the eastern portion. 100 foot buffer recommended. BMPs should be followed for any standing vernal pools or wetland areas.

Wildlife Habitat Considerations:

This compartment is comprised of many small state forest parcels intermixed with private land. Two-thirds of the compartment is wet ground covered by cedar, swamp hardwood, balsam poplar, tamarack, and black spruce. The northern portion of the compartment is comprised of many small stands of mixed species composition. Numerous treatments focusing on hardwoods and aspen are prescribed.

Mineral Resource and Development Concerns and/or Restrictions

Numerous sand/gravel pits are located to the west of the compartment, mostly associated with drumlins and eskers. Most of the compartment consists of low-lying areas and wetlands. Sand & gravel development potential is considered low. There is no known history of mineral leasing or exploration within or around the compartment. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

County Road 338 is the only public roads through the compartment. One 320 acre block is directly accessible from CR-338; all other parcels must be accessed over private property.

Survey Needs:

Corners in the block off county road 338 will be required.

Recreational Facilities and Opportunities:

Popular recreation includes hunting and trapping. The potential for developed recreational activity within this compartment is very limited due to the fragmented ownership and lack of suitable water bodies. No facilities exist or are recommended.

Fire Protection:

The compartment has a low risk for wildfire due to the current timber types and extent of poorly drained soils, however the soils also limit the establishment of good quality roads to access more remote areas. Using roads from recent timber sales, most of the compartment is accessible.

Additional Compartment Information:

Additional information is available through the website and compartment review packets.

The following reports from the Inventory are attached:

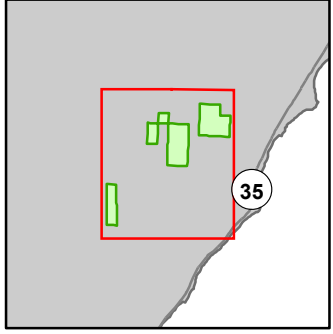
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

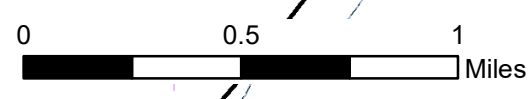
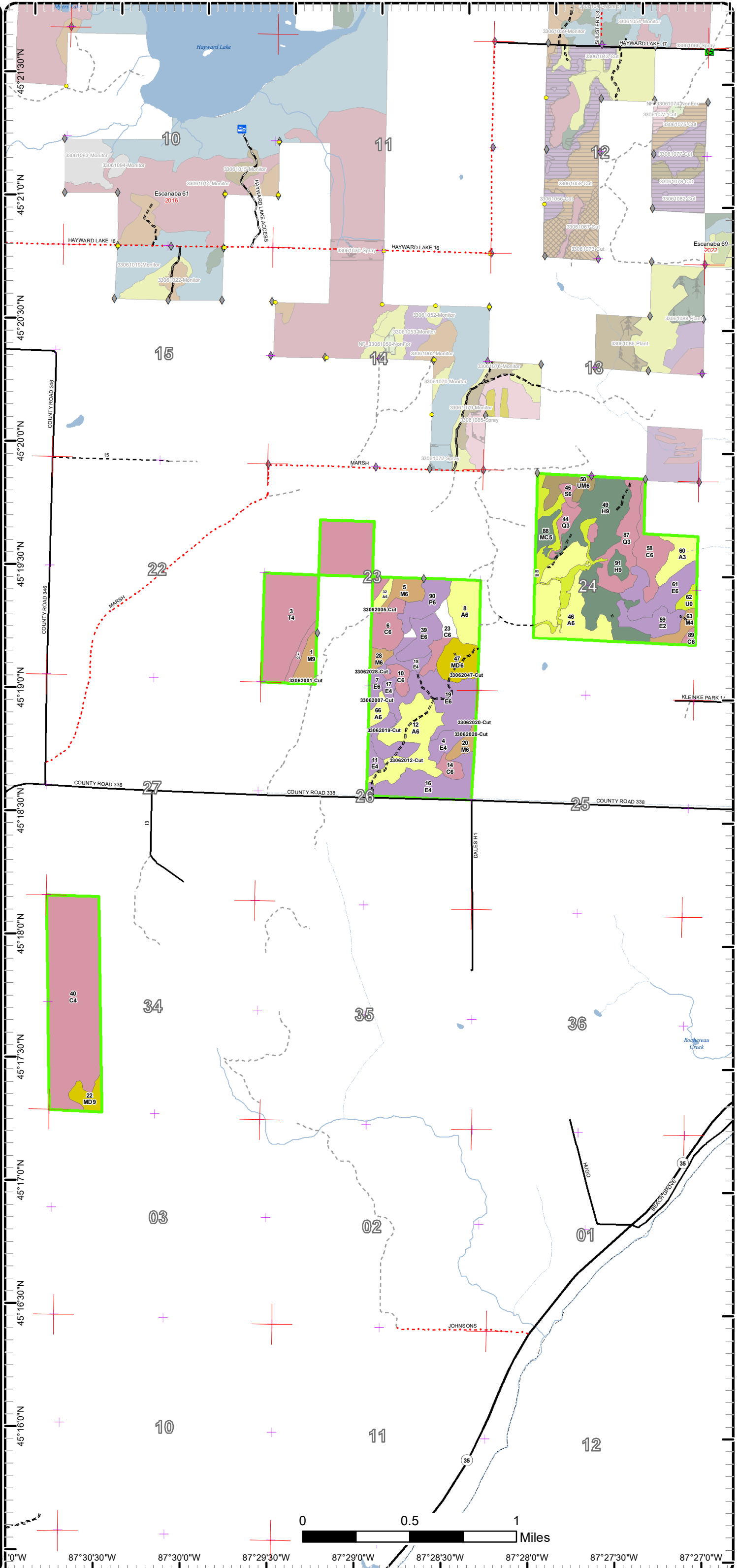
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 62
 T34N - R26W Sec. 23,24,26,34
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2021
 Acres: 942 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 11/14/2019
 Map Phase: Post-Review



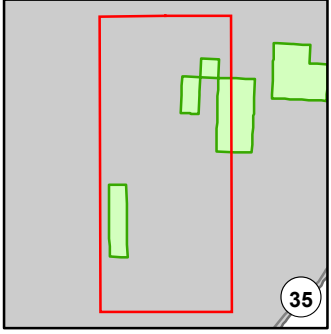
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- - - Counties
- DNR - Secondary Forest Road
- - - DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
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- - - County - Gravel Road
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- - - Intermittent Stream
- Lake/Pond
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- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees



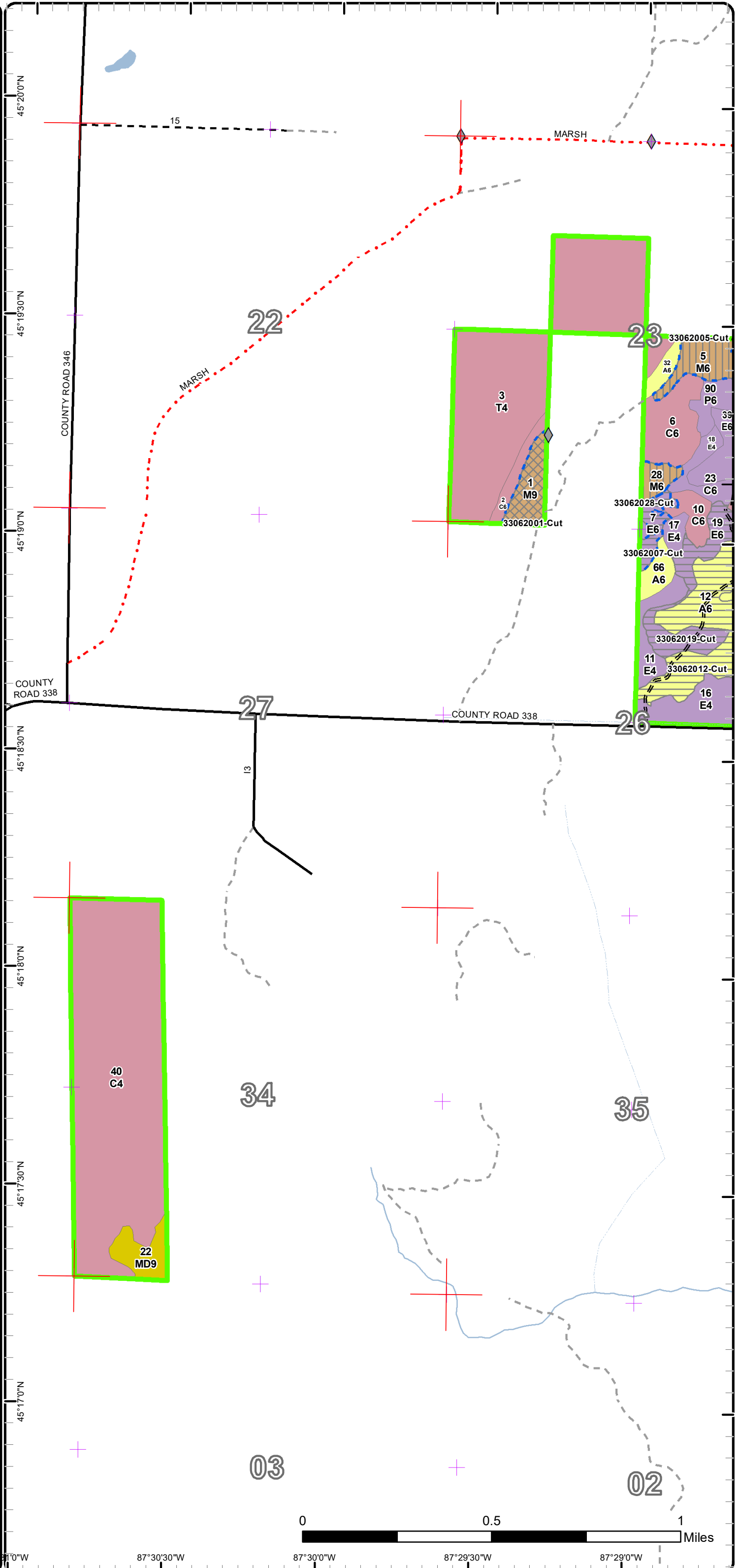
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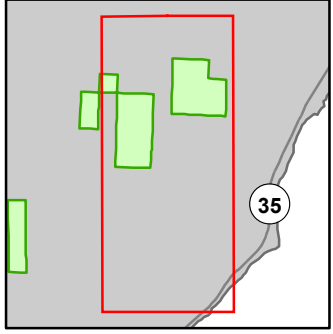


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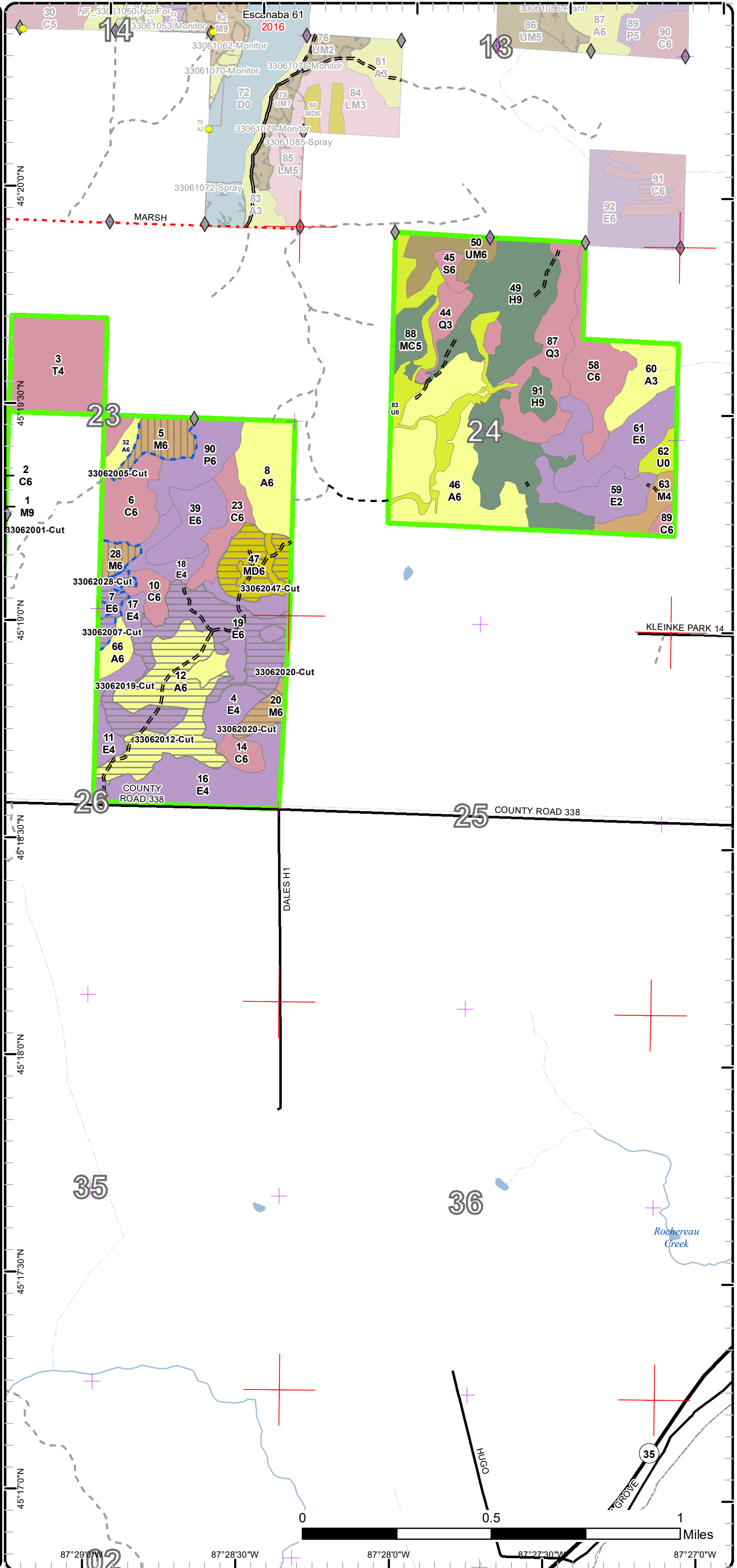


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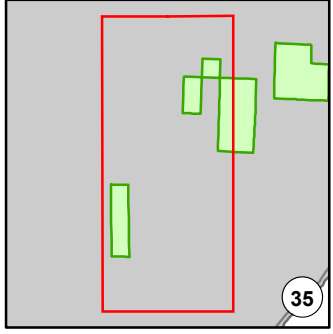


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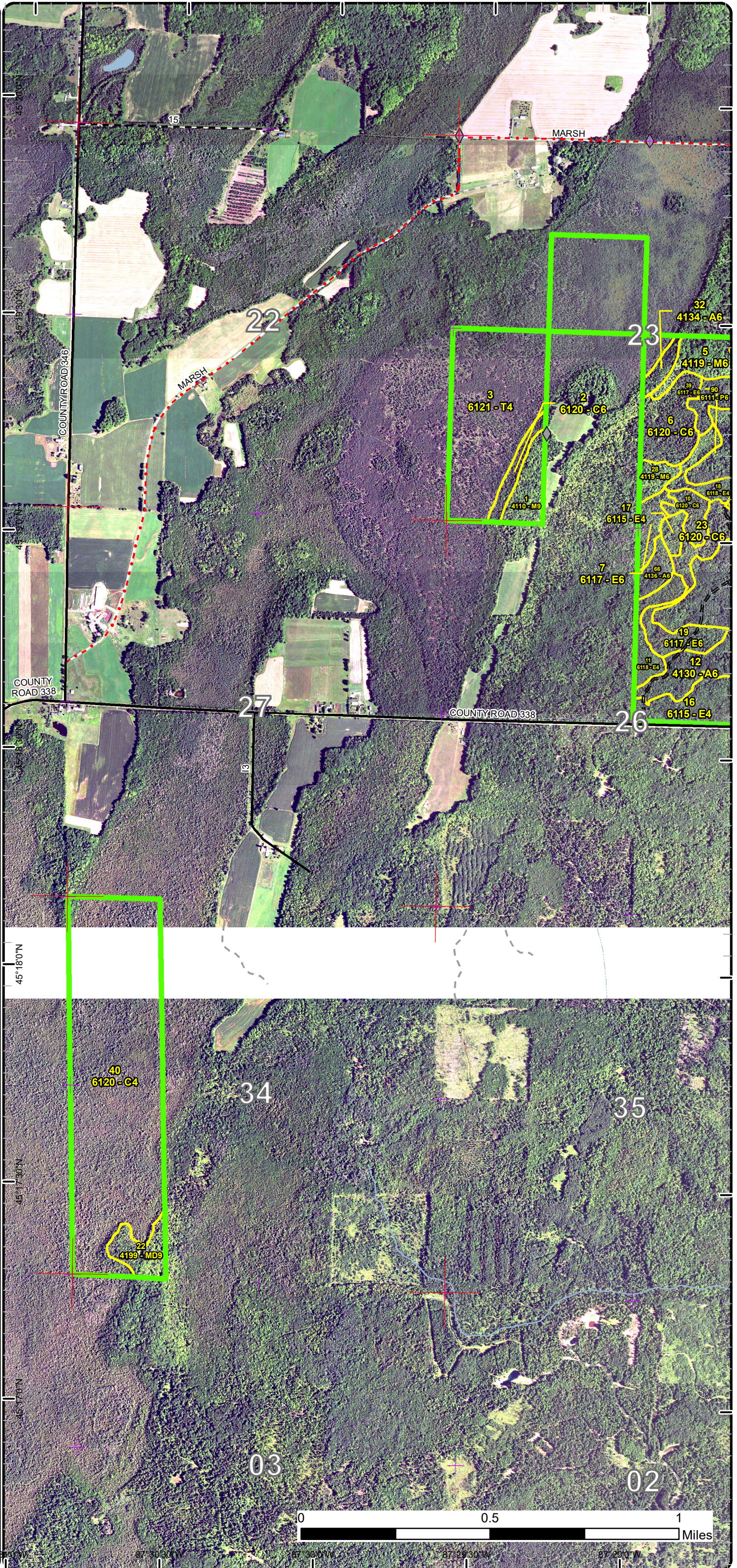


Stand Boundary Map

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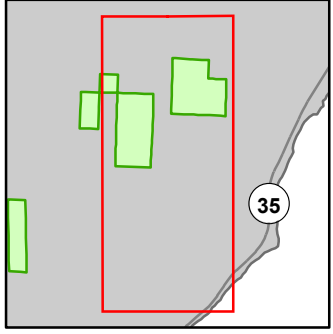


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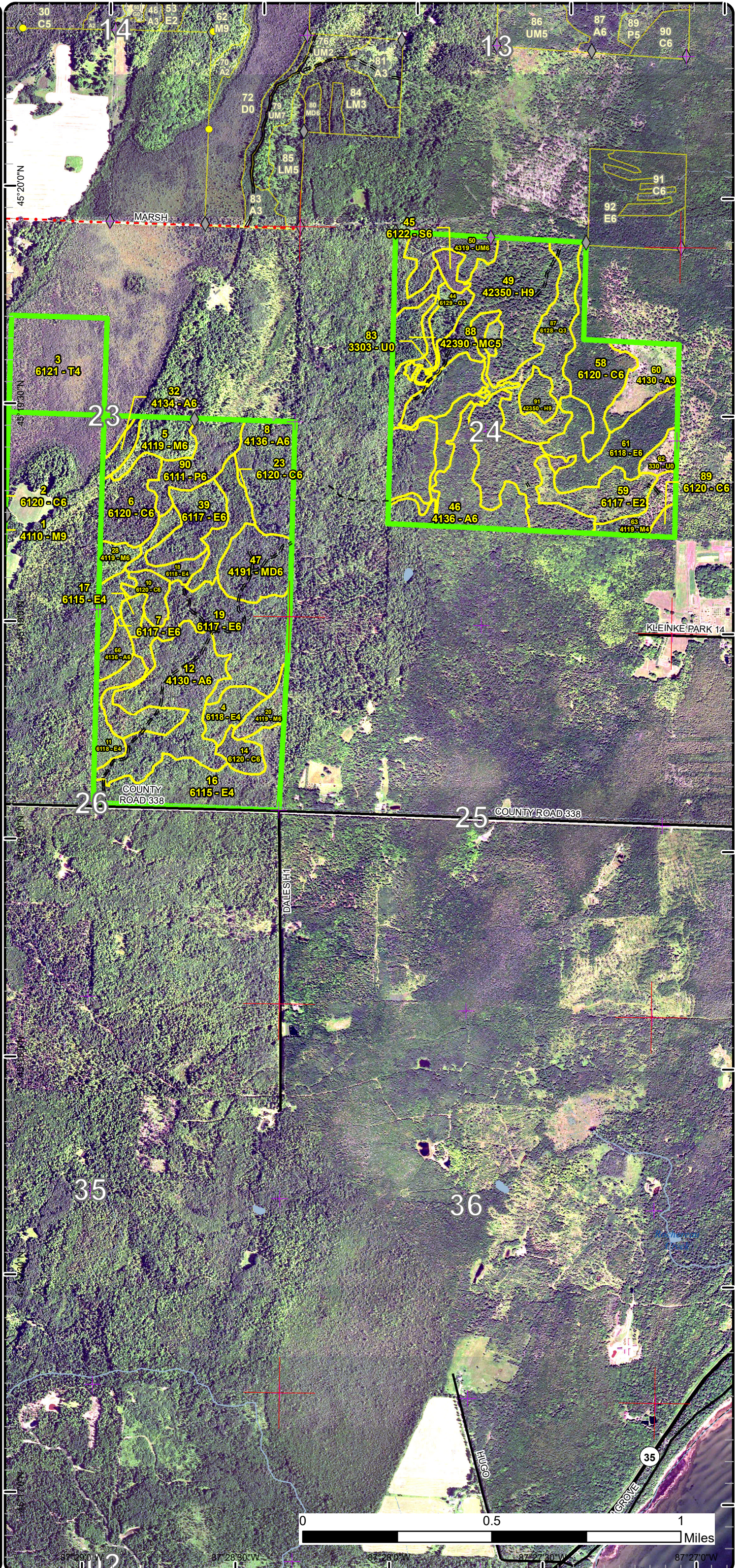


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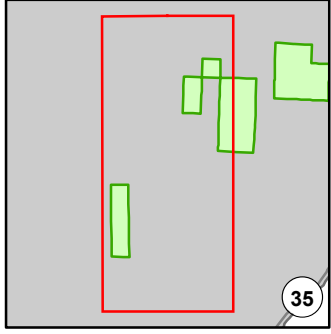


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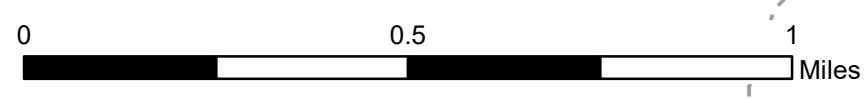
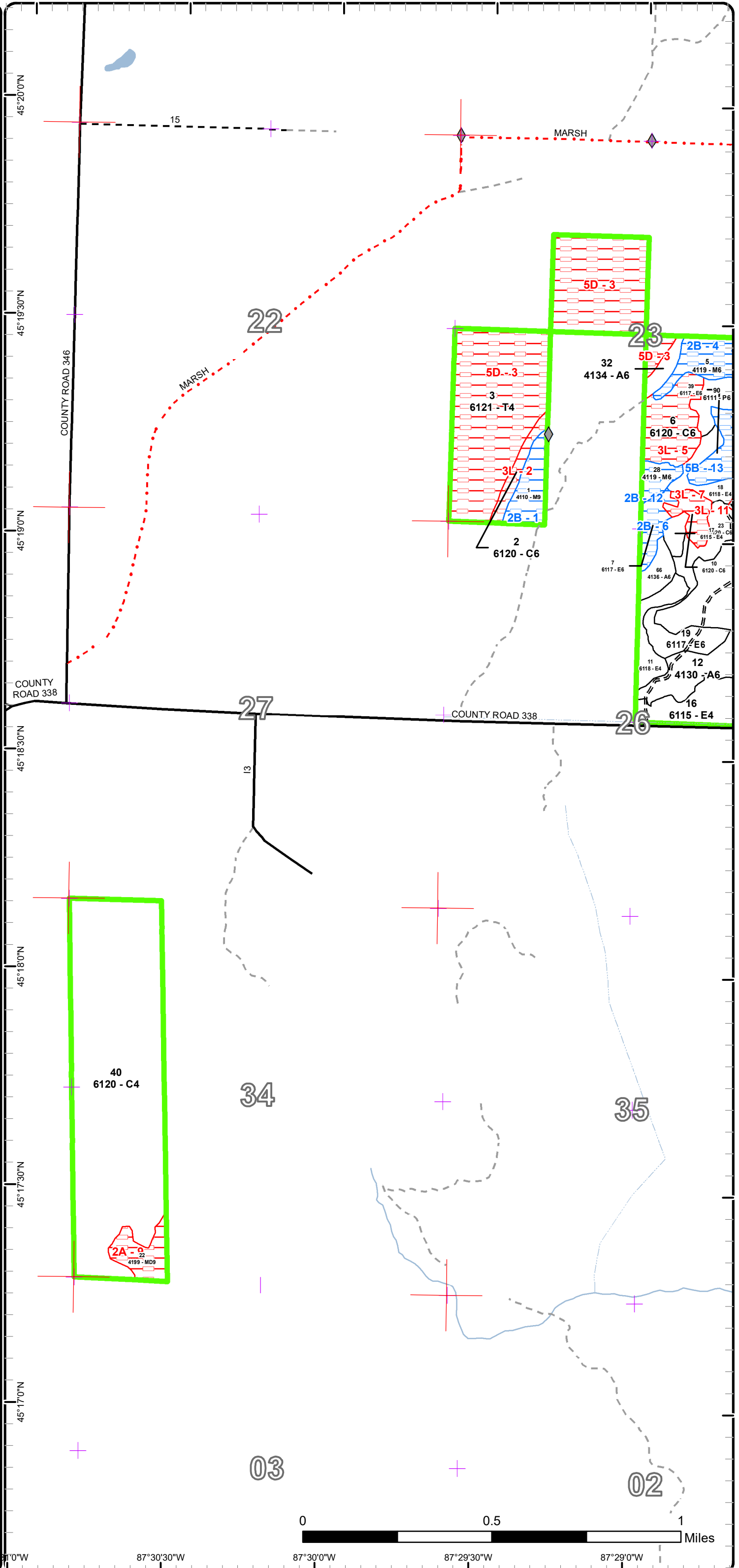


Special Conservation Areas

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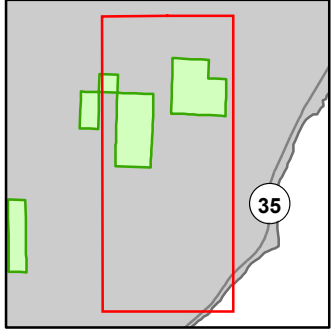
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2A: Adjacent landowner denied access
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries



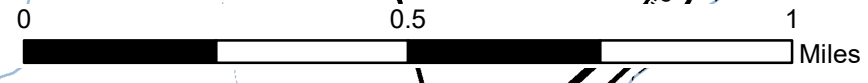
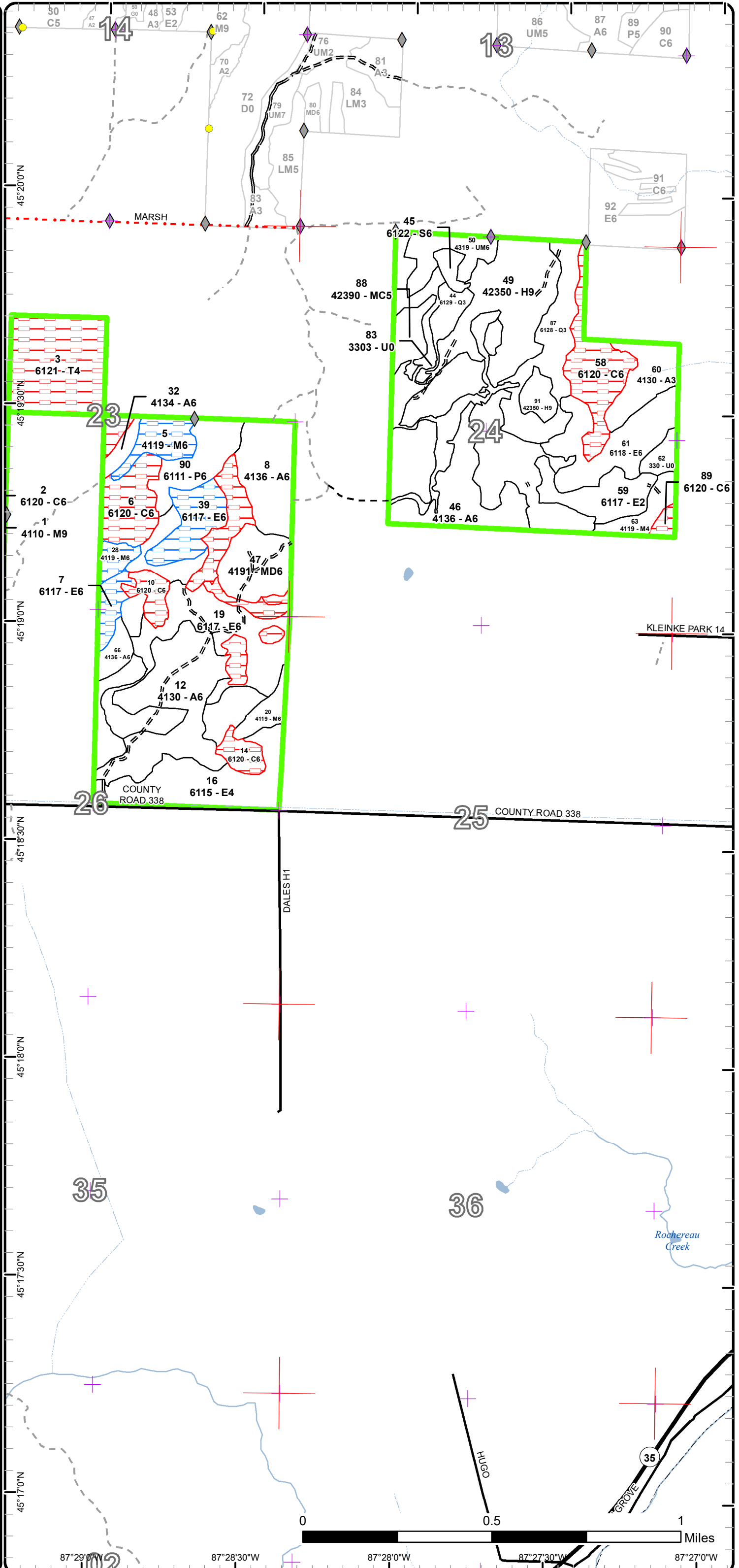
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- Lake/Pond
- Perennial River
- Shoreline
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries



87°29'0"W 87°28'30"W 87°28'0"W 87°27'30"W 87°27'0"W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	16	0	4	80	51	0	0	0	0	0	0	0	0	0	0	0	0	151
Cedar	0	0	0	0	0	0	0	0	0	0	6	0	44	173	0	0	0	0	222
Hemlock	0	0	0	0	0	0	0	0	0	74	0	0	6	0	0	0	0	0	80
Low-Density Trees	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Aspen/Balsam Poplar	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Conifers	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Deciduous	0	0	18	0	0	0	0	0	108	53	0	0	0	0	0	0	0	11	190
Lowland Spruce/Fir	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	20	0	0	0	0	10	0	0	0	0	0	0	0	30
Northern Hardwood	0	0	0	0	0	0	0	0	0	16	0	27	0	0	0	0	0	0	43
Tamarack	0	0	0	0	0	0	0	0	0	0	111	0	0	0	0	0	0	0	111
Upland Conifers	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Total	34	16	56	22	102	71	0	4	108	143	127	27	50	173	0	0	0	11	943



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 62

Total Compartment Acres: 942

Commercial Harvest - 105
 Harvests with Site Condition - 33
 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	41	0	0	0	0	0	0	0	0	41
Lowland Deciduous	48	0	0	0	0	0	0	0	0	48
Mixed Upland Deciduous	16	0	0	0	0	0	0	0	0	16
Northern Hardwood	6	11	0	0	16	0	0	0	0	33
Total	111	11	0	0	16	0	0	0	0	138

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	138	0	0	0	0	0	0	0	0	138
Next Step	0	0	0	0	0	0	138	0	0	138
Total	138	0	0	0	0	0	138	0	0	277



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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:

1	33062001-Cut	10.9	4110 - Sugar Maple Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection harvest: Retain 70-80 Basal creating gaps if feasible. Encourage scarification in the openings particularly. .</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</u> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Minor component of beech, hemlock, cedar and yellow birch. Favor to retain the minor component species. This stand will require access through private property to the south. Landowner may be agreeable. Check address book under K.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
5	33062005-Cut	11.4	4119 - Mixed Northern Hardwoods	Poletimber Well	101	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Shelterwood with retention: Retain a varying amount of Basal Area but approximately 30-40BA depending on location. The residual will be accomplished by leaving all cedar and hemlock and mix of other species by designated leave trees or marking residual.</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</u> Any mix of the overstory species present.</p> <p><u>Regen:</u></p> <p><u>Other</u> The center of the stand is better quality hardwoods with sugar maple and red maple and the perimeter has more hemlock and cedar.</p> <p><u>Comment:</u> Encourage scarification with logging equipment. This will be cut harder than typical northern hardwood stand. Landowner permission is best access- See stand 1 for access comments.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
7	33062007-Cut	6.0	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	182	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention: Cut all trees except do not cut any beech and elm If found. Cedar retention areas created around any higher cedar concentration. This cedar retention is estimated on the map and will be refined at time of sale preparation. This retention will include a mix of species and be in areas with an approximate of 45-50% or higher cedar component by Basal area as compared to total stand basal area.</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</u> Any mix of the overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Site condition of private access if cant get this treatment period then cut stand 28,7 and 66 and possibly 39, 8 and 90 and come to the south through state. Check access comments for stand 1.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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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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12	33062012-Cut	41.1	4130 - Aspen	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention: Cut all trees except leave retention in the areas that have cedar. Retention will be a minimum of 3% of stand acres.
Specs:

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

Acceptable Aspen and any mix of the overstory species.
Regen:

Other Cedar retention areas are drawn into the treatment and approximate.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

19	33062019-Cut	41.6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Clearcut with retention: Cut all trees except retention in the higher cedar concentration areas. All trees outside retention will be cut. The harvest should create a diversity of regenerating species to offset any potential losses from EAB.
Specs:

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

Acceptable Mix of the overstory species.
Regen:

Other Per Pre-Review: Retention area on north side may be part of Fowler Creek. Determine and contact EGLE during sale prep for any permits that may be required to cross into stand 47. The retention areas will be where the cedar volumes are greater than 50% cedar by basal area compared to total stand basal area. Retention areas in the treatment are approximate but designed to capture areas with any significant cedar concentration.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

20	33062020-Cut	6.1	4119 - Mixed Northern Hardwoods	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with retention: Cut all trees except retain the northern piece with cedar and in area of stand representation, possibly along the boundary line.
Specs:

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

Acceptable Any mix of the overstory species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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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28	33062028-Cut	4.9	4119 - Mixed Northern Hardwoods	Poletimber Well	101	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Shelterwood with retention: Leave residual BA approximately 30 BA. This residual may vary with sugar maple areas left higher and no residual where the red maple is to encourage stump sprouting.
Specs:

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

Acceptable Any mix of the overstory species.
Regen:

Other Site condition- This stand needs to come through private, if cant get permission this time then harvest when 66 is done and bring stand 6,7
Comment: and 66 to the south through state.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2020

47	33062047-Cut	16.4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with retention: Cut all trees except leave retention. Retention includes higher areas of cedar concentration and low pocket. The cedar retention will be in areas with 50% or more cedar by basal area compared to entire stand basal area.
Specs:

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

Acceptable Any mix of the overstory species.
Regen:

Other Per Pre-Review: Retention in stand 19 is left along what may be Fowler Creek. Determine during sale prep and contact EGLE for any
Comment: necessary permits for crossing into this stand. Retention is approximate on the map.

Site Condition

Proposed Start Date: 10/1 /2020

Total Treatment 138.4
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 62
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions								
		With Condition			2B	5B	2A	3J	3L	5D	5E		
152	152	0	0	0	Aspen								
223	147	0	76	76	Cedar					76			
80	80	0	0	0	Hemlock								
34	34	0	0	0	Low-Density Trees								
18	18	0	0	0	Lowland Aspen/Balsam Poplar								
38	38	0	0	0	Lowland Conifers								
189	154	24	11	11	Lowland Deciduous	7	17		4				7
4	4	0	0	0	Lowland Spruce/Fir								
30	20	0	10	10	Mixed Upland Deciduous			10					
43	15	27	0	0	Northern Hardwood	27							
111	0	0	111	111	Tamarack							111	
9	9	0	0	0	Upland Conifers								
13	13	0	0	0	Upland Mixed Forest								
942	684	51	208	208	Total Forested Acres	34	17	10	4	76	111		7
	73%	5%	22%	22%	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	2B: Unknown if access through adjacent landowner(s) is possible	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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3	Unavailable	5D: Unproductive Forest Land	111	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3L: Other wildlife concerns	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Dan Racine: Examiner

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9	Unavailable	2A: Adjacent landowner denied access	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	7	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3L: Other wildlife concerns	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	17	5T: Contingency Treatment for Forest Health Concerns	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3L: Other wildlife concerns	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Racine: Examiner

Compartment: 62
Year of Entry: 2021

15	Unavailable	3L: Other wildlife concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	4110 - Sugar Maple Association	Sawtimber Well	10.9	104	111-140	N/A	Stand was commercially cut in 1990 under contract #013-91-02. Quality hardwood stand. The previous compartment review following pre-review: Logging activities were delayed due to the discovery of a T&E. Along the west side toward the swamp there is more of the minor component species with the main part of the stand nice quality hardwoods.																																																									
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2	6120 - Lowland Cedar	Poletimber Well	5.8	99	51-80	N/A	Stand is cedar adjacent to M9 stand. Very wet ground with tag alder and other lowland brush. No treatment.																																																									
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3	6121 - Tamarack	Poletimber Poor	110.8	94	1-50	N/A	Moss and leatherleaf groundcover. Fairly good stocking of trees overall but poor site, almost all trees are 1-3 inches.																																																									
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4	6118 - Lowland Deciduous with Cedar	Poletimber Poor	9.0	77	51-80	N/A	Age from previous inventory stand 16. Low quality swamp hardwoods. Cedar is mostly in patches on lower ground. This stand was broken apart from the larger stand 19, in which this stand has less timber and significantly more lowland brush. 0-25 to 50-75 canopy closure through stand. Very wet site.																																																									
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5	4119 - Mixed Northern Hardwoods	Poletimber Well	11.4	101	81-110	N/A	Sparse grass ground cover. Cut in 1995 under contract # 035-91-01. Aspen, balsam poplar, fir, and ironwood were cut at that time. Selectcut to 70-80 square feet of residual BA. Long term MO is M. Follow in-stand retention guidelines. Leave hemlock and some large diameter beech and some cedar. Mark some of the white pine. Acceptable regen includes a mixture of current species. Encourage scarification to breakup thick grass ground cover. Stand was previously prescribed but delayed after the pre-review until after issues are resolved in stand 1. Some phragmite to the north toward private line.																																																									
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6	6120 - Lowland Cedar	Poletimber Well	18.5	119	51-80	N/A	Mix of upland/lowland and lowland/upland stand with mix of 25-50 and 75-100% canopy cover %. This stand was cut in 1992 under contract 035-91-01. All aspen, fir, balsam poplar, and hardwood were cut as part of that sale. Mix of balm and aspen regeneration in the more opened up areas.																																																									
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7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	7.1	182	81-110	N/A	Did not get age this treatment period and used age from previous inventory. Mixed stand of both lowland ash and upland species. Prescribed in 2001 but not treated. Prescribed but held until after issues were resolved in stand 1 following the 2011 pre-review. Observed some beech regeneration on higher ground. Access may have to be from west over private. Retain elm and beech and cedar retention.																																									
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8	4136 - Aspen, Mixed Conifer	Poletimber Well	25.0	38	51-80	N/A	Scattered yellow birch in the overstory. Stand cut under contract 010-81-01. Basically clearcut except for pine and hemlock. Dense aspen regen w/ red maple stump sprouts and scattered hemlock and white pine poles/logs. Heavy balsam fir regeneration in patches.																																									
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10	6120 - Lowland Cedar	Poletimber Well	6.8	119	81-110	N/A	Quality cedar stand near stand boundaries but interior of stand is poor quality with many leaning/sweep trees and blowdowns. Balm, spruce and balsam fir also present.																																									
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11	6118 - Lowland Deciduous with Cedar	Poletimber Poor	9.3	77	1-50	N/A	Low and wet site. Poor quality stand. Lots of standing water. No cut recommended. This stand was broken out from the larger stand 19 with very wet poor quality areas and scattered timber.																																									
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12	4130 - Aspen	Poletimber Well	45.0	46	51-80	N/A	Clearcut from timber sale records in late 1960's/early 1970's. Mostly quaking aspen some appears to be big tooth with some red maple, black and green ash and balsam fir. Some balsam fir in understory.																																									
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14	6120 - Lowland Cedar	Poletimber Well	6.0	118	81-110	N/A	OPIC - FMD: 2009-Mostly wet low ground. Some areas are higher islands of fir and red maple black spruce and paper birch. Lots of lowland brush																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
16	6115 - Lowland Ash	Poletimber Poor	35.1	77	1-50	N/A	Low, wet, poor quality stand. There are a few pockets of timber but mostly and e4/L2/L3 site. No treatment anticipated for this site. West portion of stand has more trees over brush. If the area shows EAB signs at time of sale prep for surrounding stands then the portion around the main access road could and should be salvaged.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash		70	Pole	5	77	Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar		10	Pole	9		Michigan Holly	High	5 - 10 feet	Tall Shrub
Red Maple		10	Pole	9		Balsam Fir	Low	Variable	Sapling
Green Ash		10	Pole	8		White Pine	Low	Variable	Sapling
17	6115 - Lowland Ash	Poletimber Poor	3.5	77	1-50	N/A	Age from the previous inventory from surrounding ash stands. Low, wet site and poor quality stand. Lots of standing water. No cut recommended.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash		75	Pole/Sapling	6	77	Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar		15	Pole	9		Michigan Holly	High	5 - 10 feet	Tall Shrub
18	6118 - Lowland Deciduous with Cedar	Poletimber Poor	8.7	77	1-50	N/A	Age from previous inventory ash stand. Low and wet site. Poor quality stand. Lots of standing water. No cut recommended.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash		65	Pole	6	77	Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar		20	Pole	9		Michigan Holly	High	5 - 10 feet	Tall Shrub
Balsam Fir		10	Pole	6		Black Ash	Medium	Variable	Sapling
						Balsam Fir	Low	Variable	Sapling
19	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	52.7	89	81-110	N/A	Variable stand of timber mostly dominated by ash some of which is nice green ash: With the southeast portion of stand along edge of stand 20 toward stand 12 has red maple mixed in. Some high ground timber with mix of aspen, balsam fir, red maple and cedar with ash mixed in between stand 12 and 47. Far northeast south of stand 47 has an F pocket of timber with aspen and cedar mixed in.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Green Ash		25	Log/Pole	11	89	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash		25	Pole	8	89	Balsam Fir	Medium	Variable	Sapling
Red Maple		10	Pole	9		White Spruce	Low	Variable	Sapling
Northern White Cedar		15	Pole	9		Red Maple	Low	Variable	Sapling
20	4119 - Mixed Northern Hardwoods	Poletimber Well	6.7	89	81-110	N/A	Upland ridge that is mostly red maple with some aspen and balsam fir, paper birch mixed in along the ridge. Ash is in the transition to the lowland. This stand was prescribed for shelterwood treatment the last treatment period. Preferable to clearcut to try and get the maple, mixed aspen regeneration. Balsam fir will fill in over time. The northern portion has a pocket of cedar.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		60	Pole/Log	9	89	Balsam Fir	High	Variable	Sapling
Paper Birch		10	Pole	9		Tamarack	Trace	5 - 10 feet	Sapling
Balsam Fir		10	Pole	9					
Quaking Aspen		10	Log/Pole	11					
22	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.0	90	81-110	N/A			
23	6120 - Lowland Cedar	Poletimber Well	12.6	118	51-80	N/A	Age estimated from other cedar stand previous inventory. Mix of lowland hardwood and cedar cover type. Poor quality site.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash		25	Pole	7		Balsam Fir	High	Variable	Sapling
Balsam Fir		10	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		50	Pole	9	118				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
28	4119 - Mixed Northern Hardwoods	Poletimber Well	4.9	101	111-140	N/A	Stand treated in 1995 under contract #035-91-01 Encourage scarification to breakup thick grass ground cover. Following the pre-review the last treatment period this treatment was delayed until after issues are resolved in stand 1.																																															
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32	4134 - Aspen, Spruce/Fir	Poletimber Well	4.2	27	1-50	N/A	Treated in 1992 as part of timber sale contract #035-91-01. Some scattered residual maple and oak poles,																																															
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39	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.6	79	81-110	N/A	Mostly green/black ash to the north with some poor quality pockets of small diameter black ash and high ground ridge to the south that can be seen on the photo with some upland spruce/fir pockets.																																															
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40	6120 - Lowland Cedar	Poletimber Poor	147.2	120	1-50	N/A	Remote call. This parcel is up for sale.																																															
44	6129 - Mixed Coniferous Lowland Forest	Sapling Well	9.4	18	Immature	N/A	Stand was treated on contract 054-96-01 in winter of 2000-01.																																															
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45	6122 - Black Spruce	Poletimber Well	3.8	61	51-80	N/A	This stand was to be cut with the Fowler Creek timber sale, but this stand was never included. Nice pure stand of young black spruce. Still many sub merchantable. Still not quite ready but when surrounding timber is put up in this area this stand can be included.																																															
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46	4136 - Aspen, Mixed Conifer	Poletimber Well	55.3	36	1-50	N/A	Stand was treated on contract 013-81-01 in 1982-83. aspen/mixed stand. Red maple, paper birch and some beech. Residual hemlock, white pine and white spruce. Some portions of stand are L0 and E4 too small to map out or determine from photos. The south east portion is a pocket of aspen, red maple and very thick white pine that was previously a separate stand but about 2.5 acres so lumped in with this.																																																			
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47	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.8	46	81-110	N/A	E type is mixed in a few places with ash and tag alder but is mostly an aspen cover type. Pocket of cedar to the south and smaller on the west side of the stand.																																																			
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49	42350 - Upland Hemlock	Sawtimber Well	74.0	85	141-170	N/A	Fowler Creek timber sale. There are some hemlock regeneration under the pine along the edge toward stand 44.																																																			
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50	4319 - Mixed Upland Forest	Poletimber Well	13.2	32	51-80	N/A	This stand was cut by Klitzke in winter of 86-87. Lowland hardwood in NW corner and along the edge of stand. 2009--Stand is mostly upland with conifer (fir, tamarack,spruce and white pine) regen. Red maple stumps sprouts.																																																			
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58	6120 - Lowland Cedar	Poletimber Well	23.4	124	141-170	N/A	Stand is variable for quality of timber. Along east and west boundaries of stand quality is good but interior of stand is wetter with poor timber with more black ash and many leaning/sweep cedar. Blowdown scattered throughout stand. Red maple here as well.																																																			
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59	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	17.7	16	Immature	N/A	Stand treated on contract 054-96-01 in winter of 2002-03. Stand has patches of hemlock poles/sawlogs and scattered hemlock, cedar and red maple poles. Balm/fir regen is more abundant in more open areas where cutting was heavier. Some hemlock regeneration in this stand.																																										
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60	4130 - Aspen	Sapling Well	16.1	4	Immature	N/A	Stand was treated under the Running Bear sale. Cut all trees except hemlock, cedar, pine and beech.																																										
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61	6118 - Lowland Deciduous with Cedar	Poletimber Well	29.6	77	111-140	N/A	Age from previous inventory. Very wet site. Sparse marsh grass and moss. Stand density and quality are variable. Along the east and west boundaries, quality of timber is very good but interior portion of stand is much wetter and poorer quality. Consider treatment but too wet to not cut everything here.																																										
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62	330 - Low-Density Trees	Nonstocked	4.8	0	Unspecified	4319 - Mixed Upland Forest	This stand was unit 2 of the Running Bear sale closed in 2015. Within unit 2 all maple, paper birch, basswood, aspen, ash, balsam fir and spruce trees were designated for cutting. No cutting of the hemlock, cedar, beech and yellow birch. This stand is on the edge. There is maple stump sprouting and I expect more filling in as in perimeter of stand of the balsam and spruce component. Allow this stand to fill in and check next treatment period.																																										
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63	4119 - Mixed Northern Hardwoods	Poletimber Poor	8.6	87	1-50	N/A	This stand was unit 3 of the Running Bear sale. Within this payment unit all trees marked with orange paint and all aspen not marked with orange x were cut. Also all spruce and fir with 3 or more sticks were cut. Post inventory in field the residual is low here in the scattered sugar maple and red maple areas.																																										
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Sub-Canopy Species	Density	Avg. Height	Size																																														
Balsam Fir	Medium	Variable	Sapling																																														
Red Maple	Low	5 - 10 feet	Sapling																																														
66	4136 - Aspen, Mixed Conifer	Poletimber Well	5.9	46	81-110	N/A	Nice stand of aspen with a pocket on west to private of low ash junk. Recommend no treatment this entry.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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83 3303 - Mixed Low Density Trees Nonstocked 29.0 114 Unspecified No This stand is a combination of 0-25% low density trees and 25-50% lowland hardwoods with high tag and holly underneath.

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Pole
Balsam Fir	Low	>20 feet	Pole
Black Ash	Medium	>20 feet	Pole
White Spruce	Low	Variable	Pole
Tamarack	Medium	Variable	Pole
Green Ash	Low	>20 feet	Log

87 6128 - Lowland Coniferous, Mixed Sapling Well 28.8 18 Immature N/A Stand is variable with most portions Q2 and some to Q3 with scattered residual cedar, hemlock and other species (white pine, fir, red maple, black ash and paper birch) and some portions F2, M1, A2 hemlock and re pine and some G0. This stand was cut under contract 54-96-01. Red maple is stump sprouting for most part here. There is some hemlock regeneration in some places of the understory.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	15	Log/Pole	10	
Hemlock	10	Log/Pole	10	
White Pine	15	Sapling	1	
Red Maple	20	Sapling	2	18
Balsam Fir	20	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Hemlock	Trace	5 - 10 feet	Sapling
White Pine	Low	< 5 feet	Sapling

88 42390 - Mixed Non-Pine Upland Poletimber Medium 8.8 32 51-80 N/A Upland mixed conifer--mostly balsam fir with tamarack, white and black spruce and aspen/red maple.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	25	Pole/Sapling	6	32
Balsam Fir	45	Pole/Sapling	6	32
Black Spruce	10	Pole/Sapling	5	
Red Maple	10	Pole/Sapling	6	
White Pine	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

89 6120 - Lowland Cedar Poletimber Well 2.6 124 111-140 N/A Mature cedar stand with paper birch and balm. Some blowdown throughout stand. Stand also has some yellow birch poles.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	75	Log/Pole	10	124
Paper Birch	10	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling

90 6111 - Lowland Balsam Poplar Poletimber Well 17.7 27 1-50 N/A Stand was cut under contract # 035-91-01. Far north and central portions of stand are nearly pure balm with occasional pockets of quaking aspen. Southern portion has more residual cedar poles. Occasional areas of wet ground with cattails and phragmites in the area.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	50	Pole/Sapling	5	27
Northern White Cedar	15	Pole	9	
Quaking Aspen	25	Pole/Sapling	5	
Balsam Fir	10	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Balsam Poplar	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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91	42350 - Upland Hemlock	Sawtimber Well	5.9	110	141-170	N/A	
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Stand treated on contract 054-96-01. Stand is fairly contiguous overstory. Very little was removed last entry. Only a few hardwood and fir were removed.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	80	Log/Pole	10	110
Northern White Cedar	10	Pole/Log	9	