



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73015

Entry Year 2027

Acreage: 4,653

County: Clare

Management Area: High Sand Plains

Stand Examiner: Casey Owens

Legal Description:

T19N - R06W. Sections: 3 - 10, 16 - 21, 29 & 30.

Identified Planning Goals:

Follow guidelines set forth in the Regional State Forest Management Plan for the Upper Muskegon Management Area. Monitor and address forest health concerns and issues, balance timber age classes, manage for forest sustainability, provide wildlife habitat and provide forest based recreation. Protect archaeological concerns, protect threaten and endangered species.

Soil and topography:

The area varies from well drained Grayling sands in the out-wash plains to poorly drained mucky Lupton-Markey soils as you enter the Muskegon River Floodplain, the Dishwash Creek Corridor, the Giss-I-Was Creek Corridor and the Whiskey Creek Corridor. The terrain varies from nearly level to the steep banks that lead down into the floodplain of the Muskegon River. Giss-I-Was Creek bisects the compartment; the creek is in a valley and there are areas of steep banks leading down into the river valley. The major soil types are Rubicon-Croswell-AuGres associations, Lupton-Markey associations and Grayling sands

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

The state land in this compartment is spread out over 16 sections, the state and private lands are intermixed resulting in miles of private property lines. The state land occurs in large contiguous blocks and isolated government lots along the Muskegon River. Private holdings are mostly comprised of large (40 acres or greater) forested single holdings with absentee landowners. Limited forest management activity occurs on the private holdings. There are numerous permanent residences scattered through out the entire compartment as well. The town of Temple is located directly adjacent to the compartment. The location of this town concentrates use on the land and along the Muskegon River.

Unique Natural Features:

This area has a variety of rare species that could be or are present including; Kirtland Warbler, Slippershell, Elktoe, Round Pigtoe Mussels, Eastern Box Turtle, Goshawk, Bald Eagle, Osprey, Great Blue Heron, Wood Turtle and Blanding's Turtle. There is also potential for Beak Grass, Broad-leafed Puccoon in stands along the Muskegon River. It has been documented by MNFI that high-quality floodplain forests exists within and to the north and south of the compartment all along the Muskegon River

Archeological, Historical, and Cultural Features:

There are three documented sites within the compartment.

Special Management Designations or Considerations:

Two separate areas of the Muskegon River Floodplain have been designated as Ecological Research Area's (ERA). Both areas as "Floodplain Forest's" The north area; Muskegon River/Green Creek North ERA, has a written plan and is surrounded by water (stand 190). The south area; Muskegon River/Huckleberry Trail ERA dose not have a completed plan and is surrounded by water as well (stands 58 & 85). Continue to manage aspen and jack pine stands to maintain a verity of age classes to enhance deer and grouse habitat.

Watershed and Fisheries Considerations:

Dishwash Creek, Giss-I-Was Creek and Whiskey Creek all flow into the Muskegon River within this compartment. All of these water-ways are within the compartment. Dishwash Creek, Giss-I-Was Creek and Whiskey Creek are listed as type 1 trout streams in the 2014 Trout and Salmon Guide and should be treated as cold water fisheries. Giss-I-Was Creek is in a valley and has a natural buffer of lowland brush and marsh directly adjacent to its banks. The Muskegon River, a warm water fishery and a major Michigan watershed has a natural corridor (floodplain) of lowland swamp hardwood along most of the water course and should be considered a sensitive area for timber harvest purposes. Upland/High bank areas along the river should also be considered sensitive. The Muskegon River Floodplain and associated bottomlands are seasonally flooded. There are also many scattered low areas that are seasonally flooded and support populations of waterfowl and many non-game species.

Wildlife Habitat Considerations:

Compartment #15 contains a variety of habitat types suitable for many wildlife species. The compartment includes the Muskegon River drainage and adjacent lowland complexes. These lowlands support various waterfowl, reptiles, amphibians, and their predators including raccoon, bobcat, mink, and Great Blue Heron. Furbearers including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbellied vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment is easily accessible to hunters via M-61.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel operations are known to exist in the area, and potential for development of sand & gravel within the compartment may be limited due to the presence of a shallow water table and wetlands, which could inhibit surface mining. Portions of the Winterfield and Freeman Redding oil & gas fields occur within the north and south ends of the compartment, respectively. Much of the Winterfield has been converted to gas storage, but some oil production still occurs. Much of the Freeman Redding Field has been abandoned. Potential for expansion of either field is considered low. A well was drilled in Sec 20 in 2021, but it was a dry hole. It is unlikely new wells will be drilled within the compartment, but it is possible. The northern half of the compartment is leased for gas storage. No known potential exists for commercial production of metallic minerals in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access to most of the compartment is good via the county road system and state two tracks that are in place. There are access limitations to State Land along the Muskegon River.

Survey Needs:

Stand 127 has a survey needed site condition, and is also coded for a treatment.

Recreational Facilities and Opportunities:

No official facilities. The area receives moderate hunting pressure most of which is deer hunters. Light fishing pressure occurs on Dishwash Creek, Giss-I-Was Creek and Whiskey Creek. The Muskegon River receives moderate fishing pressure. Moderate dispersed camping occurs mainly during the firearm deer hunting season. Canoe traffic on the Muskegon River can be heavy on weekends during the summer. A private campground and canoe livery is located directly adjacent (east/central) to the compartment along the Muskegon River on the north side of M-61.

Fire Protection:

A potential fire control problem exists due to the rural /urban interface within this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

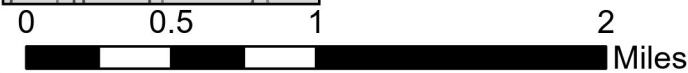
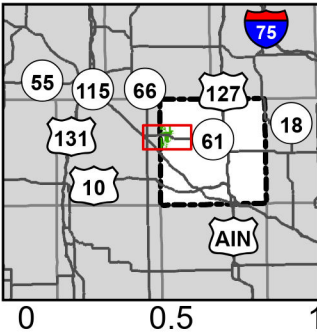
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

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

Cover Type & Treatments Map

Compartment: 73015
T19N R06W 03-10, 16-21, 29, 30
County: Clare
Unit: Gladwin
Mgmt. Area: High Sand Plains
YOE: 2027
Acres: 4,653 GIS Calculated
Examiner: Casey Owens
Date Exported: 5/27/2025
Map Phase: Pre-Review



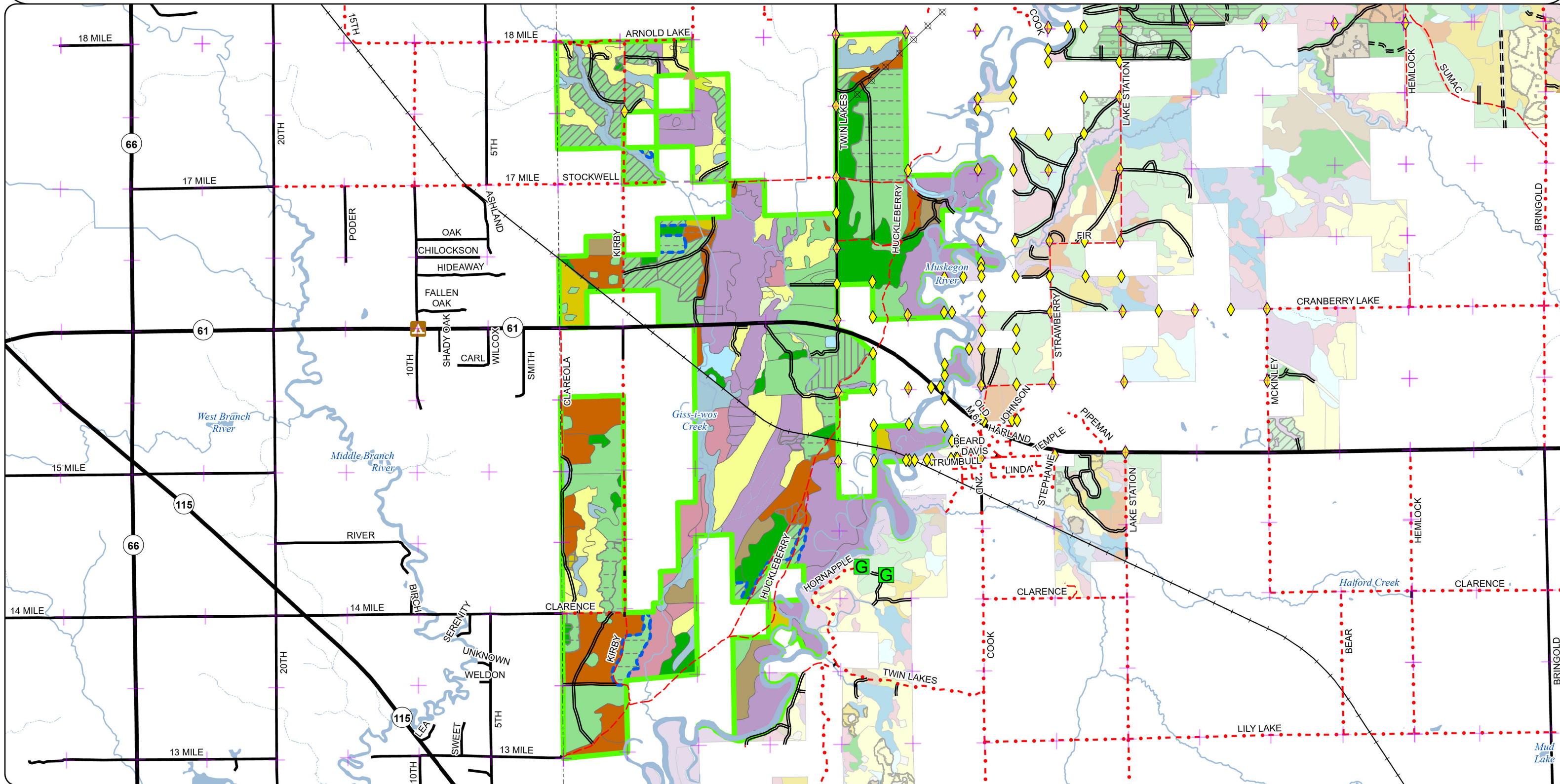
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Gate
- Campground
- DNR - Secondary Forest Road
- DNR - Forest Access Route

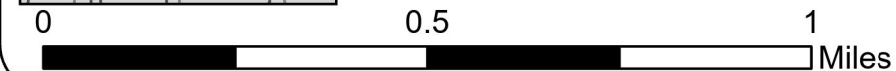
- Federal / State Highway
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Perennial River
















- Lakes and Rivers
- Counties
- Powerline
- Compartment Boundary
- Clearcut
- Seed Tree
- Shelterwood
- Thinning









- Overstory Removal
- Treatments with Site Conditions
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest


- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

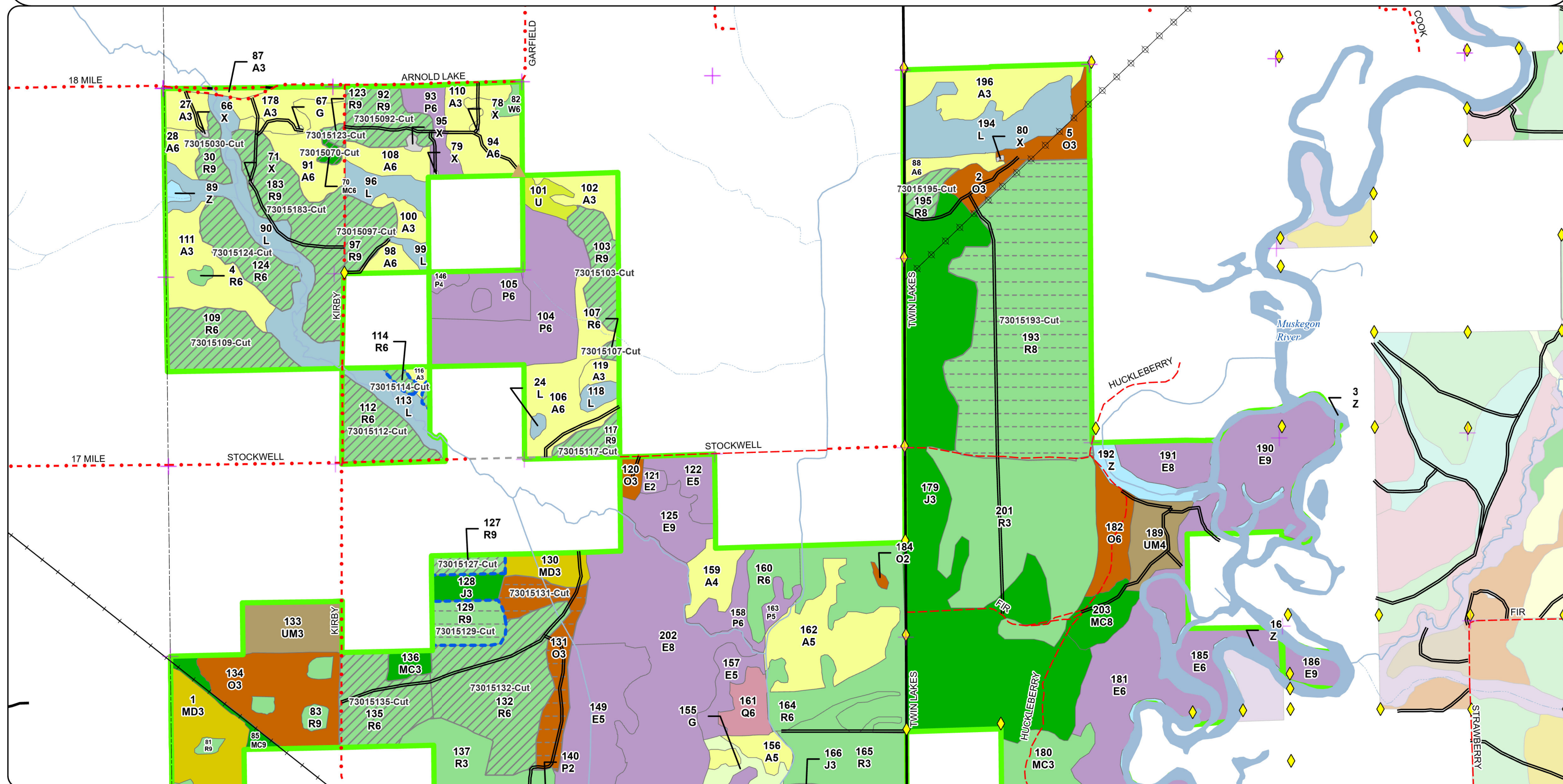




- | | | | |
|---|---------------------------------------|---|------------------------------|
|  | Remonumented Section Corners |  | Private - Dirt / Gravel Road |
|  | Survey Grade Corners |  | Active Railroads |
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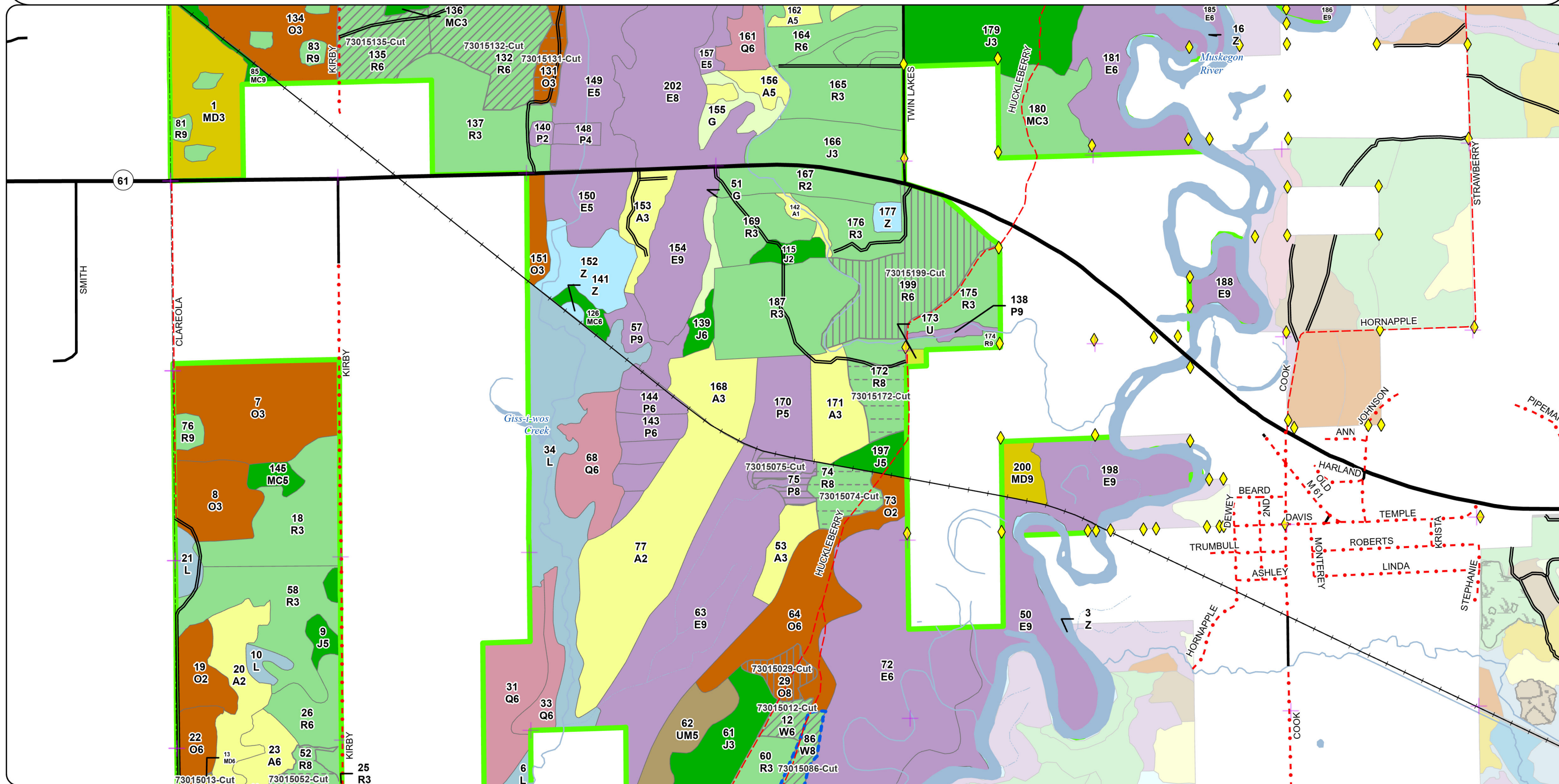
0 0.5 1 Miles

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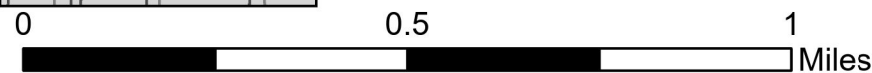
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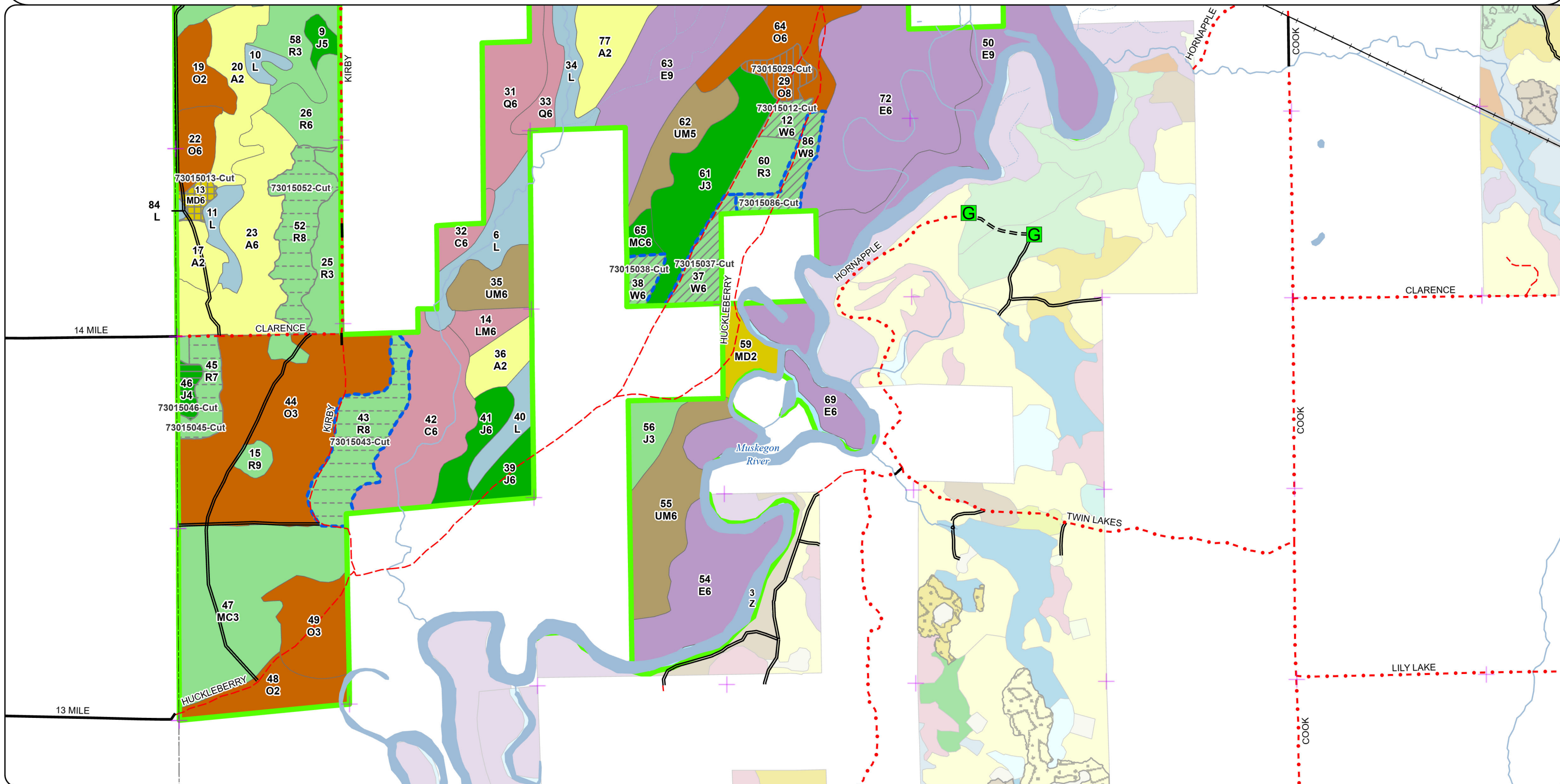


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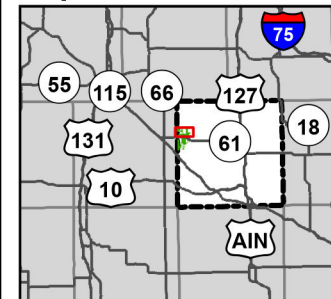
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Stand Boundary Map



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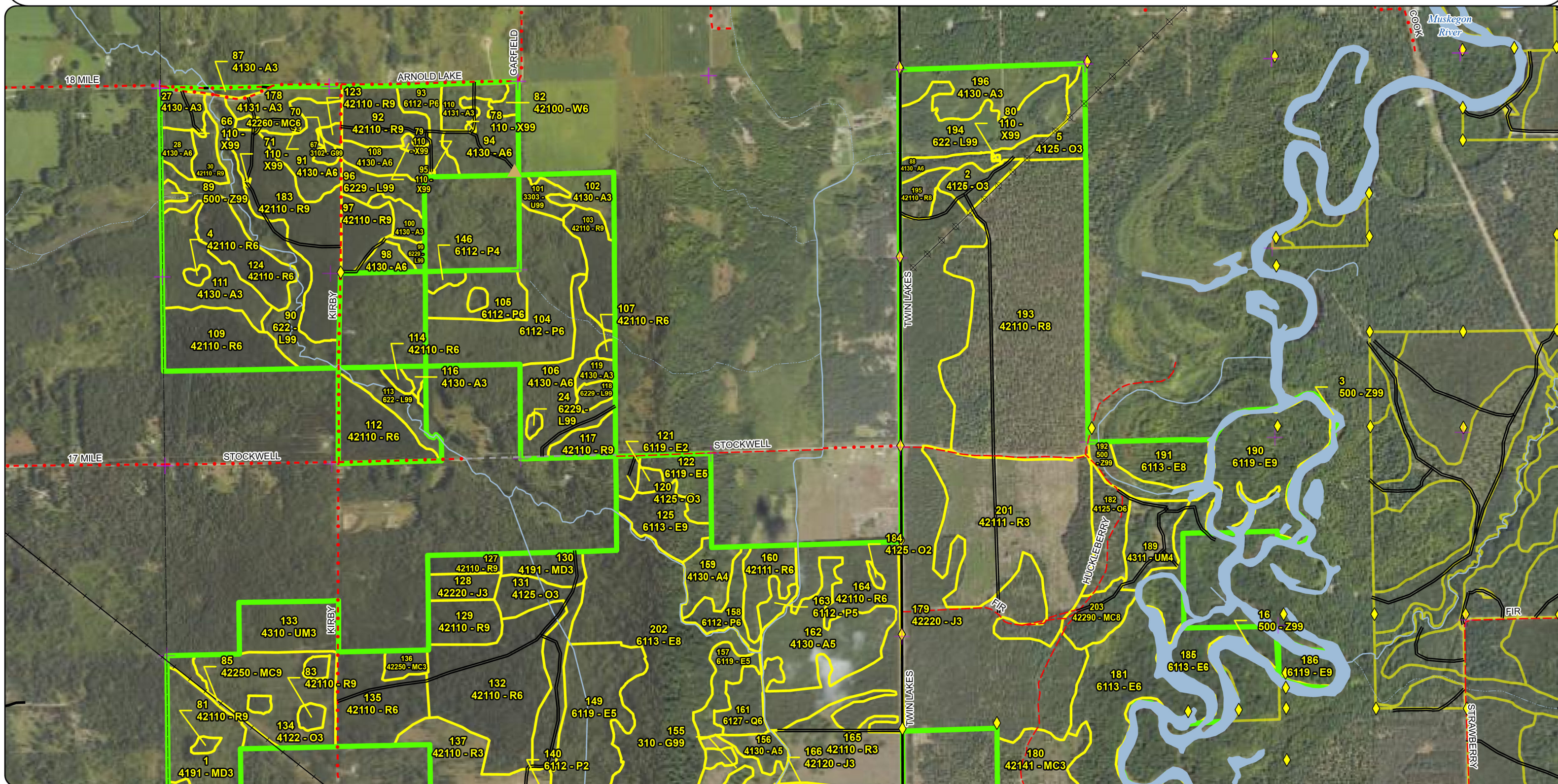
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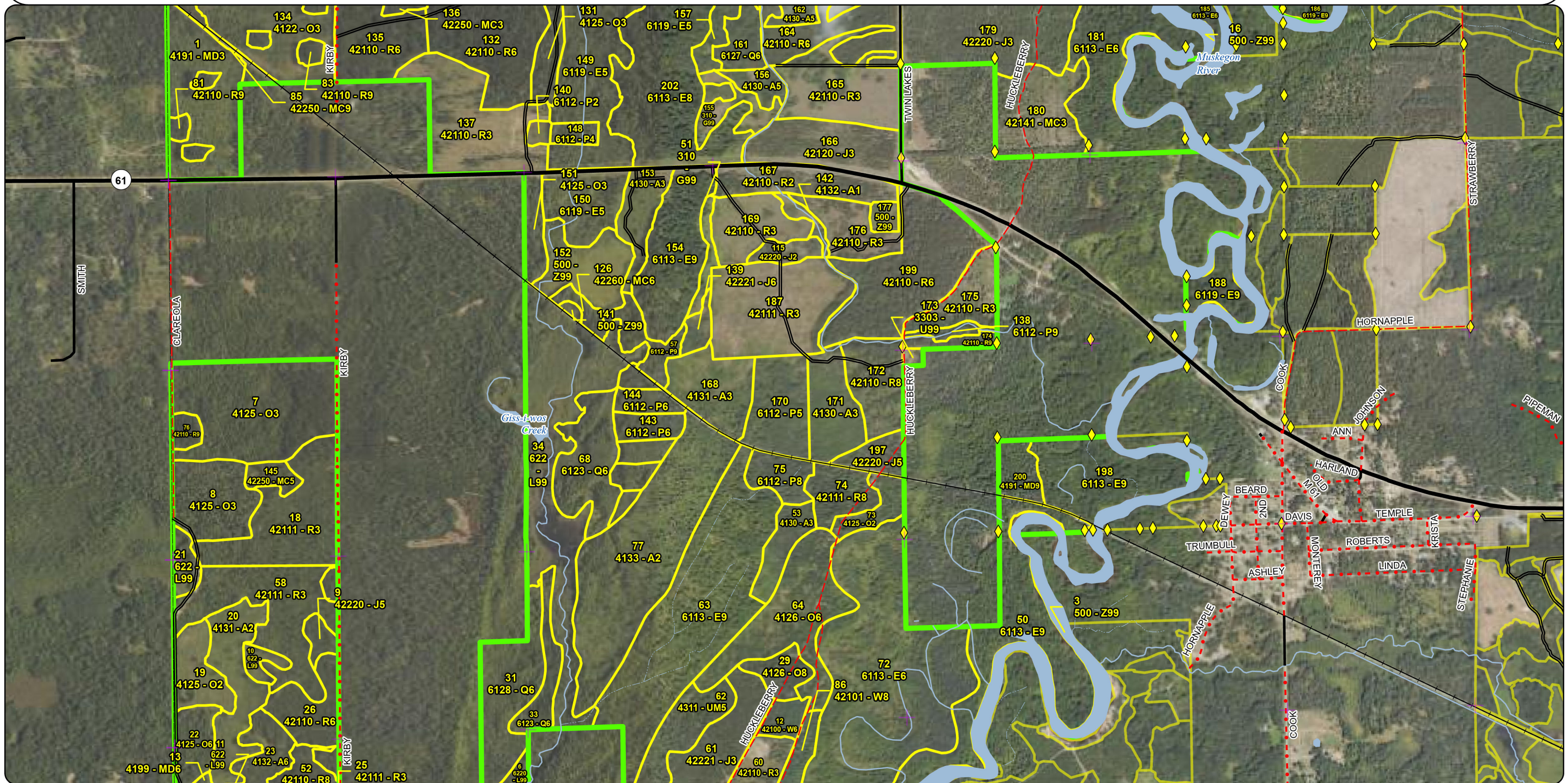
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G Gate

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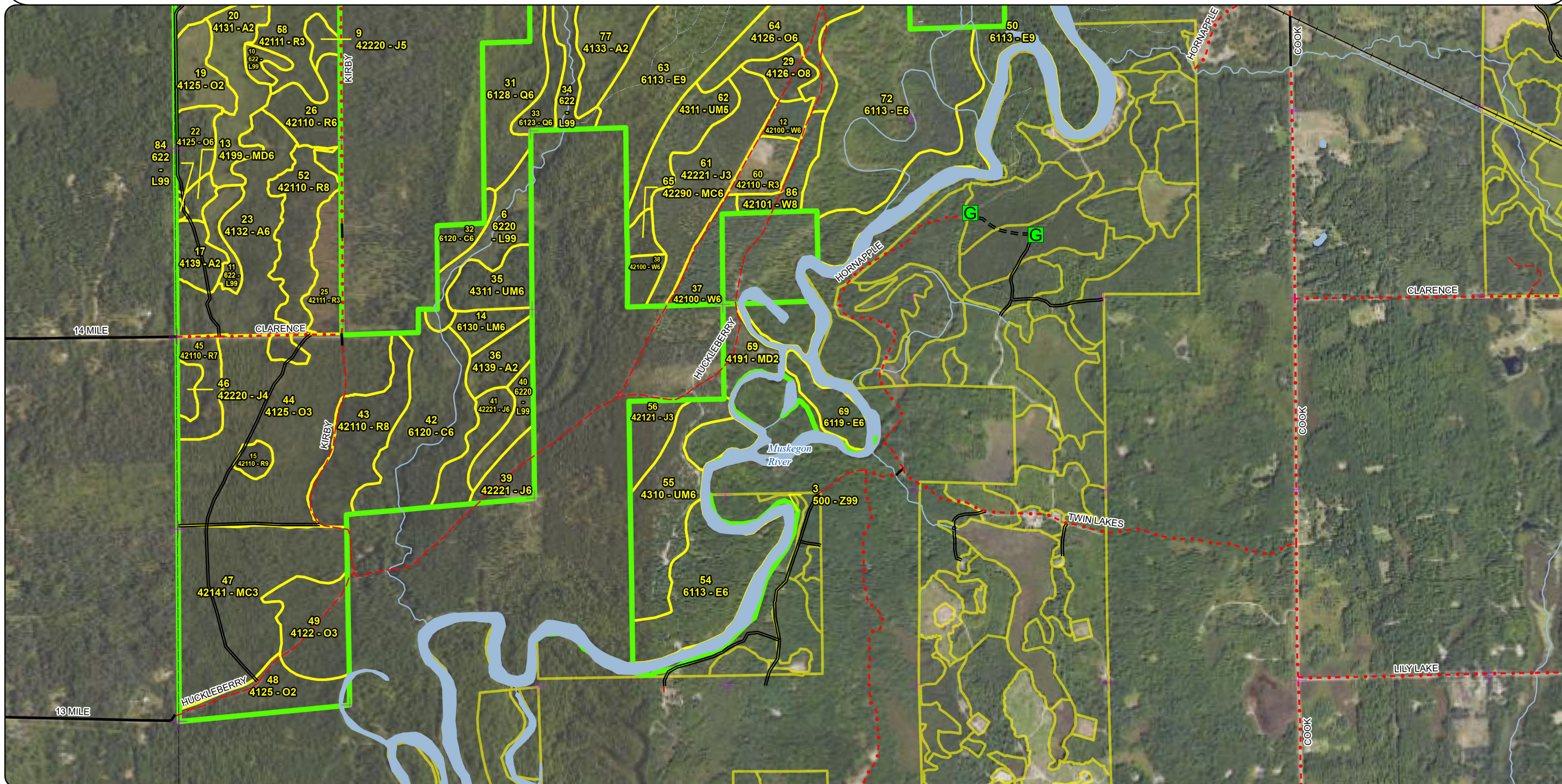
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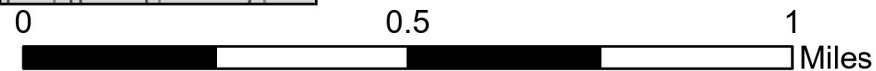
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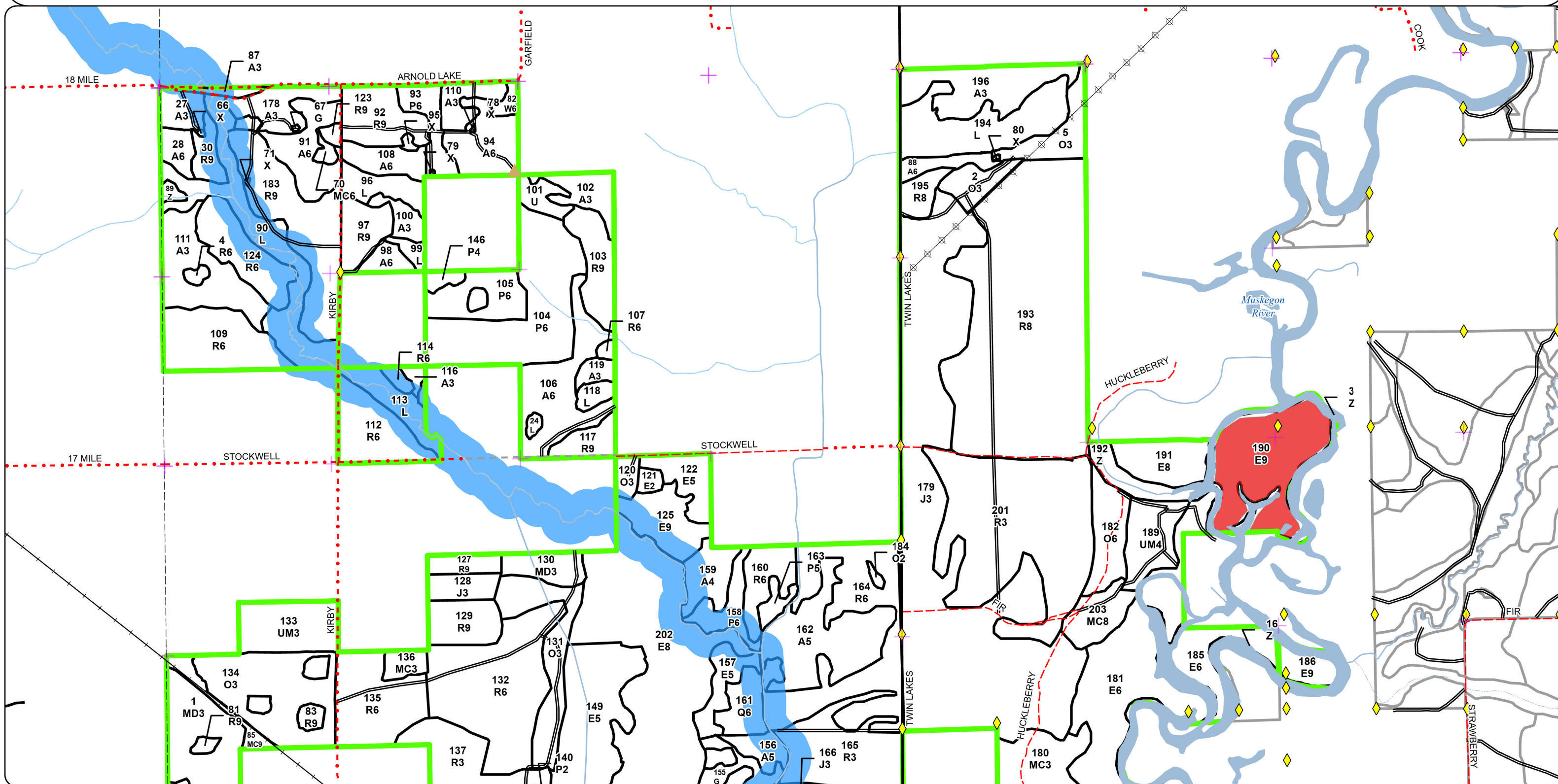
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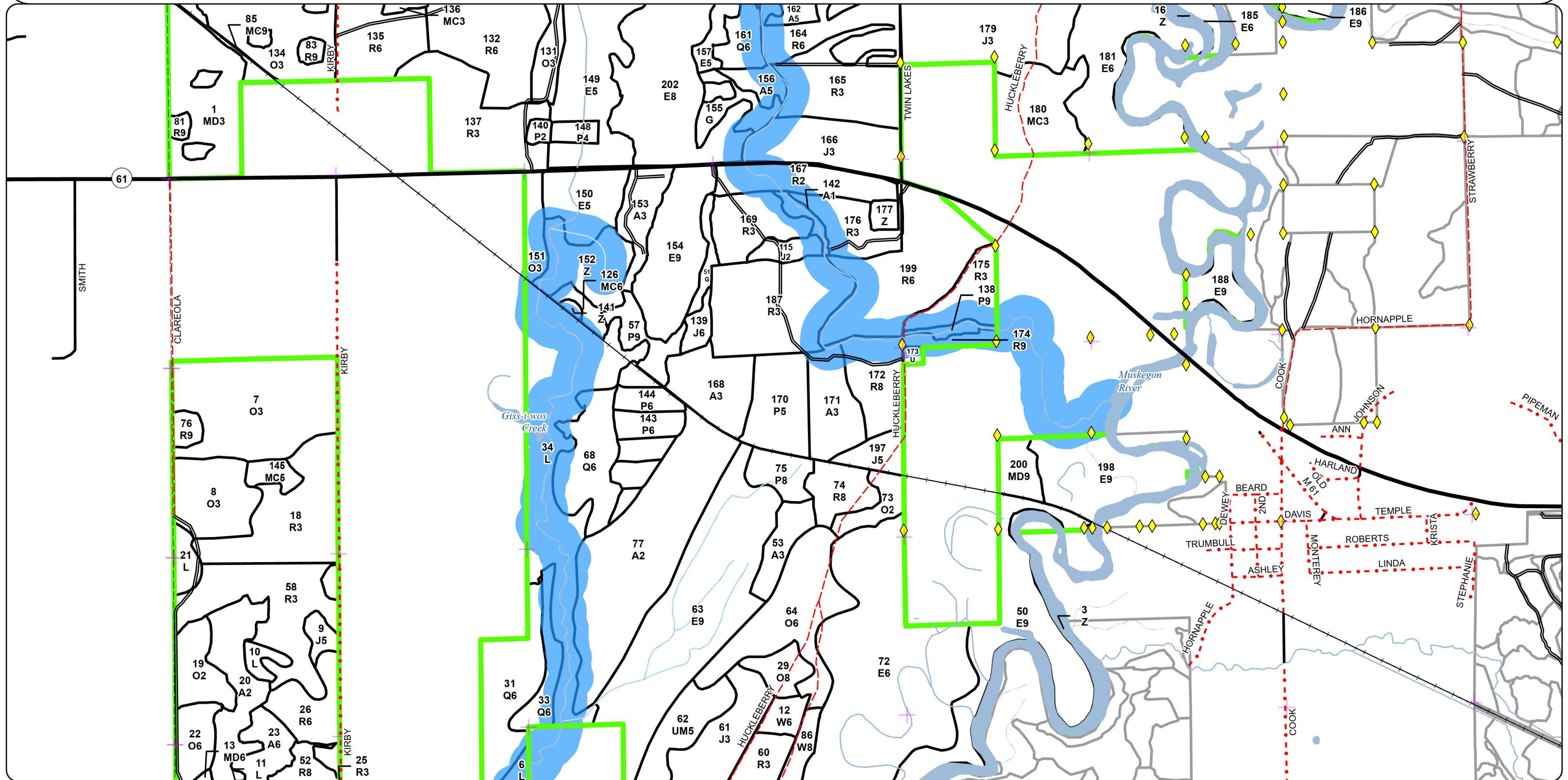


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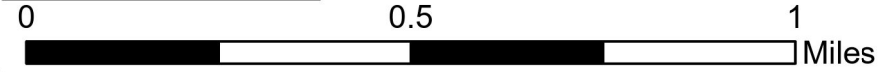
A horizontal scale bar with a black outline. It is divided into four equal segments by three vertical tick marks. The segments alternate in color: black, white, black, and white from left to right. Above the bar, the numbers 0, 0.5, and 1 are placed at the first, second, and third tick marks respectively. To the right of the bar, the word "Miles" is written.

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Special Conservation Areas & Site Conditions Map

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+ Remonumented Section Corners

G Gate

== DNR - Secondary Forest Road

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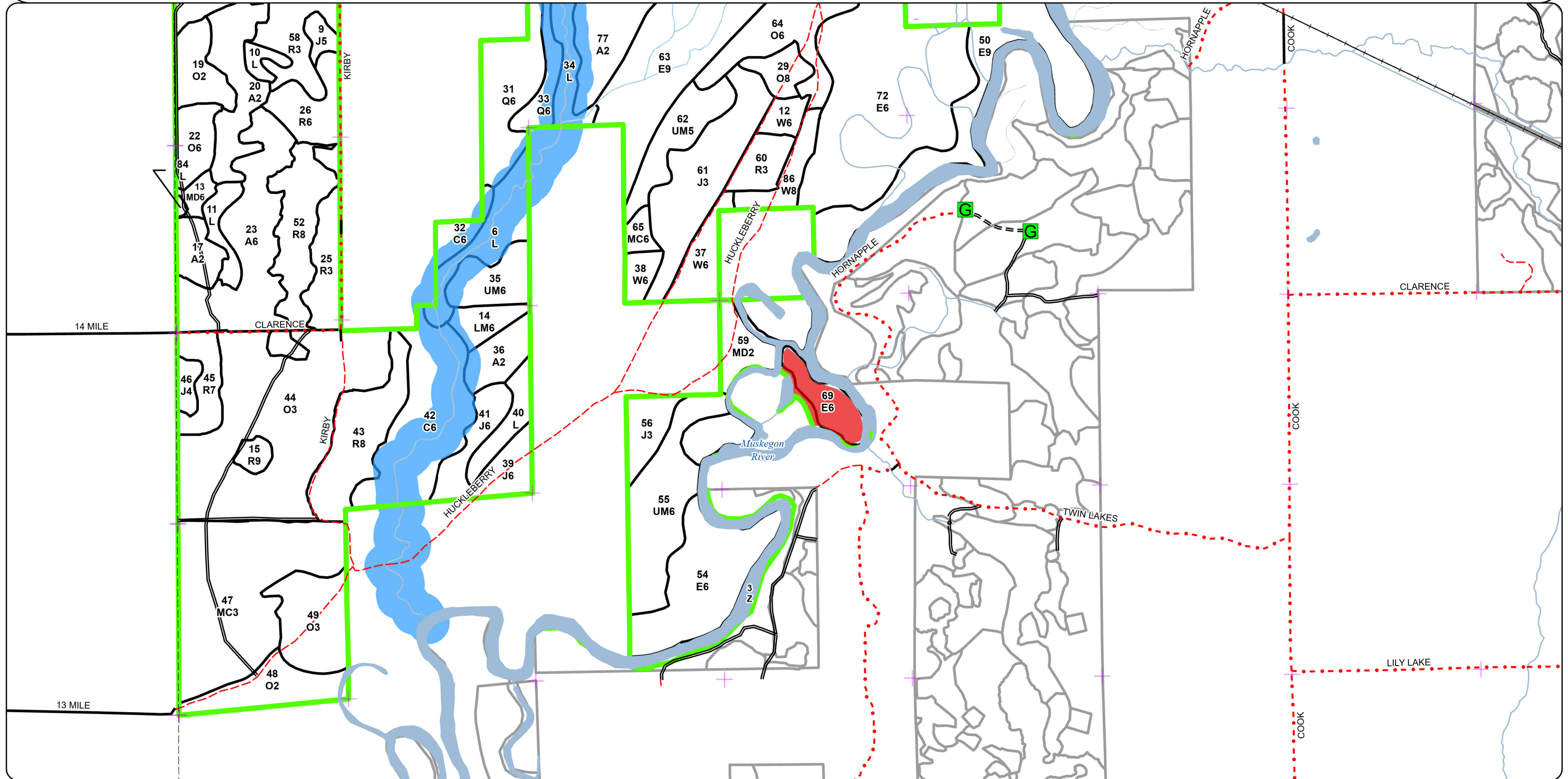
— Compartment Boundary

— Stand Boundaries

— Ecological Reference Areas

— Cold Water Streams

— High Priority Trout Stream Buffer



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	56	219	98	18	98	51	11	0	0	0	0	0	0	0	0	0	0	550
Cedar	0	0	0	0	0	0	0	0	0	0	56	0	8	0	0	0	0	0	64
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	0	239	94	0	16	5	0	0	0	0	0	0	0	0	0	0	354
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	3	0	0	80	52	26	12	0	20	0	0	0	0	0	0	0	0	192
Lowland Conifers	0	0	0	0	13	0	0	34	11	30	0	0	0	0	0	0	0	0	88
Lowland Deciduous	0	0	0	0	0	56	12	0	0	228	34	100	60	151	40	0	0	232	913
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Shrub	246	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246
Mixed Upland Deciduous	0	44	13	10	0	0	5	0	0	0	0	0	0	0	0	0	0	10	82
Natural Mixed Pines	0	0	0	5	0	6	6	23	0	2	0	0	0	0	0	0	0	0	42
Oak	0	56	77	159	161	0	13	0	0	10	0	0	0	0	0	0	0	0	475
Planted Mixed Pines	0	0	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121
Red Pine	0	115	296	21	24	0	0	2	655	31	59	0	0	0	0	0	0	0	1202
Upland Mixed Forest	0	0	0	0	67	18	23	0	0	18	0	0	0	0	0	0	0	0	125
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
White Pine	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	44
Total	396	274	726	532	457	230	152	131	666	349	149	100	68	151	40	0	0	242	4656



Report 2 – Treatment Summary

Gladwin Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 15
Total Compartment Acres: 4,653

Commercial Harvest - 766
Harvests with Site Condition - 130
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
Jack Pine	5	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	8	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	5	0	0	0	0	0	5
Natural Mixed Pines	0	0	0	0	0	2	0	0	0	2
Oak	0	0	0	0	10	0	26	0	0	36
Red Pine	0	0	0	0	58	291	285	0	0	634
White Pine	0	0	0	0	0	41	0	0	0	41
Total	13	0	0	5	68	334	311	0	0	730

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	730	0	0	0	0	0	0	0	0	730
Next Step	0	0	0	0	0	0	165	0	0	165
Total	730	0	0	0	0	0	165	0	0	896



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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Proposed Treatments:

45	73015045-Cut	13.4	42110 - Planted Red Pine	7	91	1-50	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
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Prescription Remove the overstory red pine leaving retention islands, in areas with little to no understory development. Soft factor oak wilt spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, maple, and conifer mixed in.

Regen:

Other Corners found in the county road to the north as well as at the end of the two track behind berm to the south.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

12	73015012-Cut	6.6	42100 - Planted White Pine	6	66	141- 170	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
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Prescription Crown thin the white pine, and remove all non-pine species. Thin to 120 BA or lower if needed to remove non-pine species.

Specs:

Next Step

Treatments:

Acceptable White pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

92	73015092-Cut	18.9	42110 - Planted Red Pine	9	70	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin red pine down to 90BA. Follow the marking guidelines

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026



Standard

	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
86	73015086-Cut	12.8	42101 - Planted White Pine, Mixed Deciduous	8	66	81-110	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<u>Prescription</u> Crown thin the white pine, and remove all non-pine species. Thin to 120 BA or lower if needed to remove non-pine species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Survey corners were not found on the south line of stand. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											
75	73015075-Cut	8.2	6112 - Lowland Aspen	8	52	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
<u>Prescription</u> Clearcut 2 inch and up. Apply the Gladwin grouse spec, and the dry frozen spec. Add the no chipping spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, oak, maple <u>Regen:</u> <u>Other</u> A forested drain will be needed to cross. I could not find a defined bed and bank, should not need a EGLE permit to cross. Reevaluate when <u>Comment:</u> timber is being set-up. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
74	73015074-Cut	14.7	42111 - Planted Red Pine, Mixed Deciduous	8	76	81-110	Harvest	Overstory Removal	4126 - White, Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Remove the overstory excluding white oak. Apply the soft factor oak spec as well as, the seedling protection spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Maple, oak, aspen, and pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

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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
70 73015070-Cut	2.0	42260 - Natural Pine, Mixed Deciduous	6	80	81-110	Harvest	Thinning	42290 - Natural Mixed Pine	Planting Record	No
<u>Prescription</u> Thin stand by removing the deciduous canopy trees. Then thin the remaining pine down to 70 BA in accordance with the VDT variable density thinning guidance. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
103 73015103-Cut	16.5	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90BA, follow standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
46 73015046-Cut	5.0	42220 - Natural Jack Pine	4	67	111-140	Harvest	Clearcut	4125 - Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Clearcut 2 inch and up, without retention due to size. Soft factor oak spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, maple and conifer mixed in. <u>Regen:</u> <u>Other</u> Corners found in the county road to the north as well as at the end of the two track behind berm to the south. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
107 73015107-Cut	1.4	42110 - Planted Red Pine	6	70	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 120BA, follow standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										



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
43	73015043-Cut	36.1	42110 - Planted Red Pine	8	91	81-110	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Planting Record	No
<u>Prescription</u> Remove the overstory, and protect the understory. Apply the soft oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, maple, and pine. <u>Regen:</u> <u>Other</u> Only corner found is in the county road, where Kirby meets Clarence. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											
38	73015038-Cut	6.7	42100 - Planted White Pine	6	66	111- 140	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<u>Prescription</u> Crown thin the white pine, and remove all non-pine species. Thin to 120 BA or lower if needed to remove non-pine species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> White pine <u>Regen:</u> <u>Other</u> Only corners found were the south line. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											
37	73015037-Cut	14.9	42100 - Planted White Pine	6	66	111- 140	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<u>Prescription</u> Crown thin the white pine, and remove all non-pine species. Thin to 120 BA or lower if needed to remove non-pine species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> White pine <u>Regen:</u> <u>Other</u> Only corners found were the south line. <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											
30	73015030-Cut	6.7	42110 - Planted Red Pine	9	70	111- 140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90 BA. Follow marking guideline. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29 73015029-Cut	9.8	4126 - White, Black, N. Pin Oak	8	80	51-80	Harvest	Shelterwood	42290 - Natural Mixed Pine	Planting Record	No
<u>Prescription</u> Remove all oak species 2 inches and up. Do not cut pine, and protect pine seedlings. Add the soft factor oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Jack, red, and white pine mixed with oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
13 73015013-Cut	4.6	4199 - Other Mixed Upland Deciduous	6	58	81-110	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Planting Record	No
<u>Prescription</u> Clearcut all species 2 inches and up, excluding white oak. Soft factor oak spec, protect understory spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Maple, white pine, red pine, and oak. <u>Regen:</u> <u>Other</u> Corners found in the county road to the south as well as to the north just off forest two track. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
52 73015052-Cut	30.6	42110 - Planted Red Pine	8	76	51-80	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Remove all overstory trees. Protect the understory, and add the oak wilt soft spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, pine, and some maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
127 73015127-Cut	6.4	42110 - Planted Red Pine	9	78	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 120 BA, follow standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										

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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
195 73015195-Cut	7.1	42110 - Planted Red Pine	8	70	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90BA, follow standard marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
193 73015193-Cut	159.8	42110 - Planted Red Pine	8	76	1-50	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
<u>Prescription</u> Remove overstory red pine. Apply the seedling protection spec as well as, the soft factor oak wilt spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
183 73015183-Cut	43.9	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine down to 90 BA, follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
172 73015172-Cut	15.9	42110 - Planted Red Pine	8	78	51-80	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Planting Record	No
<u>Prescription</u> Remove the red pine overstory. Apply the soft factor oak spec as well as, the seedling protection spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> oak, jack and red pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										



Standard Treatment Acres Stand Size Stand BA Treatment Treatment Cover Type Age Habitat
d Name CoverType Density Age Range Type Method Objective Structure Cut

135 73015135-Cut 31.2 42110 - Planted 6 78 141- Harvest Thinning 4211 - Planted 4211 - Planted Age No
Red Pine Red Pine Record Cut

Prescription Thin the red pine down to 90 BA, follow the standard marking guidelines.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other The survey corner on the north and south line where found. The south line will have to utilize the corner on Stockwell road.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

132 73015132-Cut 60.4 42110 - Planted 6 78 171- Harvest Thinning 4211 - Planted 4211 - Planted Age No
Red Pine Red Pine Record Cut

Prescription Thin red pine to 90 BA, follow the standard marking guidelines.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

97 73015097-Cut 12.5 42110 - Planted 9 70 141- Harvest Thinning 4211 - Planted 4211 - Planted Age No
Red Pine Red Pine Record Cut

Prescription Thin red pine down to 90BA, follow marking guidelines.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

129 73015129-Cut 14.3 42110 - Planted 9 89 111- Harvest Overstory 4125 - Black, N. 4125 - Black, N. Age No
Red Pine Red Pine Removal Pin Oak Pin Oak Record Cut

Prescription Remove the overstory red pine. Apply the seedling protection spec, as well as, the soft factor oak wilt spec.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment: Will need the survey corner in the north to be established before timber can be set up.

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026



Stand
Treatment Name
Acres
Stand CoverType
Size Density
Stand Age
BA Range
Treatment Type
Treatment Method
Cover Type Objective
Age Structure
Habitat Cut

199 73015199-Cut 57.7 42110 - Planted Red Pine 6 77 81-110 Harvest Shelterwood 4211 - Planted Red Pine Planting Record No

Prescription Thin red pine to 40 BA to act as a nurse shelterwood. Apply the soft factor oak wilt spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, pine, and maple.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

124 73015124-Cut 21.3 42110 - Planted Red Pine 6 70 201+ Harvest Thinning 4211 - Planted Red Pine Planting Record No

Prescription Thin red pine down to 120BA, follow the marking guidance,

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other A EGLE permit will be required to cross this unnamed creek to access these two stands.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

123 73015123-Cut 1.7 42110 - Planted Red Pine 9 70 171-200 Harvest Thinning 4211 - Planted Red Pine Planting Record No

Prescription Thin red pine down to 120BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

117 73015117-Cut 8.3 42110 - Planted Red Pine 9 70 141-170 Harvest Thinning 4211 - Planted Red Pine Planting Record No

Prescription Thin red pine down to 90BA, follow marking guidelines.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026



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
114	73015114-Cut	2.9	42110 - Planted Red Pine	6	70	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 120BA follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Unknown Access <u>Proposed Start Date:</u> 10/01/2026											
112	73015112-Cut	22.6	42110 - Planted Red Pine	6	70	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 90 BA, follow marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
109	73015109-Cut	29.2	42110 - Planted Red Pine	6	70	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin red pine to 90BA, follow the marking guidelines. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Survey corners are in and where found during inventory. Will also need a ELGE permit to cross the unnamed creek to the North. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
131	73015131-Cut	26.3	4125 - Black, N. Pin Oak	3	22	Immature	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
<u>Prescription</u> Remove the overstory red pine. Apply the soft factor oak wilt spec, as well as, the seedling protection spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

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Name

Acres

Stand
CoverTypeSize
DensityStand
AgeBA
RangeTreatment
TypeTreatment
MethodCover Type
ObjectiveAge
StructureHabitat
CutTotal Treatment
Acreage Proposed: 0



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

2B 2I 2G 2H 3A 5E

538	529	0	9	Aspen			2			7
64	0	0	64	Cedar			64			
16	17	0	0	Herbaceous Openland						
354	354	0	0	Jack Pine						
8	8	0	0	Low-Density Trees						
190	163	0	27	Lowland Aspen/Balsam Poplar			27			
86	11	0	76	Lowland Conifers			76			
909	311	0	599	Lowland Deciduous			585		14	
10	0	0	10	Lowland Mixed Forest			10			
246	246	0	0	Lowland Shrub						
82	72	0	10	Mixed Upland Deciduous			5	6		
42	42	0	0	Natural Mixed Pines						
476	476	0	0	Oak						
121	121	0	0	Planted Mixed Pines						
1102	1004	60	39	Red Pine	3	57				39
125	107	0	18	Upland Mixed Forest				18		
2	2	0	0	Urban						
122	123	0	0	Water						
44	10	34	0	White Pine		34				
4,537	3,592	94	851	Total Forested Acres	3	91	768	24	14	45
	79%	2%	19%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions



3	Available	2I: Survey needed	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The corners along the north line east and west.							
4	Available	2I: Survey needed	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2I: Survey needed	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	126	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
Year of Entry: 2027



11	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	3				
Comments:							
14	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	56	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	56	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
Year of Entry: 2027



18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	255	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
Year of Entry: 2027



26	Unavailable	3A: Conservation values incompatible with harvest at this time	14	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2G: Too wet (sensitive soils, does not include access issues)
Comments: ERA-Muskegon River/ Huckleberry Trail, Floodplain Forest. In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified
Comments: In the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Casey Owens: Examiner

Compartment: 15
Year of Entry: 2027



34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	149	3J: Water quality/BMPs (stream, river, or lake)	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





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
8	4125 - Black, N. Pin Oak		27.3	20	Immature	N/A	Most of old overstory has fallen out not worth harvesting. Filing in well.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>75</td><td>Log</td><td>3</td><td>20</td></tr><tr><td>White Pine</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>4</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	75	Log	3	20	White Pine	10	Sapling	5		Jack Pine	5	Log	2		Black Cherry	10	Log	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sweet Fern</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Sweet Fern	Low	5 - 10 feet	5 - 10 feet	Partial harvest 2009 residual oak reduced down to 10 - 20 sq. ft. to stimulate oak regeneration. A mix of natural regeneration of mixed oak, red maple and jack pine is coming along. Do not remove over story at this time. Over story is not worth removing. Oak understory is doing very well.														
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9	42220 - Natural Jack Pine		6.9	59	111-140	N/A	Could harvest this year of entry. Left when adjacent timber was harvested. Hold 10 years till stand 18 gets established 10 more years.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Northern Pin Oak</td><td>25</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Jack Pine</td><td>75</td><td>Seedling</td><td>9</td><td>59</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Northern Pin Oak	25	Seedling	7		Jack Pine	75	Seedling	9	59	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Northern Pin Oak</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Medium	Variable	Variable	Northern Pin Oak	Medium	Variable	Variable																					
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10	622 - Lowland Shrub		4.6			No																																															
11	622 - Lowland Shrub		8.8			No																																															
12	42100 - Planted White Pine	Poletimber Well	6.6	66	141-170	N/A	Large variations in diameter (16 - 8) and ba 80 - 220). White pine planted in 1959. Scattered jack pine and oak. 15% - 20% weevil damage.																																														
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13	4199 - Other Mixed Upland Deciduous		4.6	58	81-110	N/A	Overstory oak is starting to fall out. Red maple understory 30' to 35' tall. Stand was thinned in 1967. The stand is between two "L" types. Scattered white pine and red pine saw logs. Hold and evaluate next year of entry. Lots of harvesting in this area recently and maple under story will become more established. Converting to red maple poles under scattered mature oak (O7).																																														
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14	6130 - Fir, Aspen, Maple		9.7	80	51-80	N/A	To wet to harvest. Stand is a drain. Cut to the north and south.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>35</td><td>Seedling</td><td>9</td><td>80</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>10</td><td>Seedling</td><td>7</td><td>80</td></tr><tr><td>Balsam Fir</td><td>55</td><td>Seedling</td><td>7</td><td>80</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	35	Seedling	9	80	Black/Red (Hybrid) Oak	10	Seedling	7	80	Balsam Fir	55	Seedling	7	80	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	Variable	Variable	Red Maple	Low	Variable	Variable	Tag Alder	Low	5 - 10 feet	5 - 10 feet												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
22	4125 - Black, N. Pin Oak		13.3	58	51-80	N/A	Stand was thinned in 1967. A very dense mixed understory has resulted from the harvest. The understory is reaching pole size. Overstory is naturally falling apart. Manage for understory - overstory very poor and is a natuarl supply of course woody debris.																																											
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23	4132 - Aspen, Jack Pine		55.8	25	Immature	N/A	Final harvest 2000 - Good natural mix of regeneration - A3/ A3-O1-J1-Mr1.																																											
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24	6229 - Mixed Lowland Shrub	Poletimber Well	1.3			No	Small open wetland pocket																																											
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25	42111 - Planted Red Pine, Mixed Deciduous		17.3	12	Immature	N/A	Clearcut spring 2012 Huckleberry Trail 73-004-07-01. FTP C73-828 submitted trench and plant red pine. Red pine planted 4/26/2013. Plots taken in December 2021 showed 1800 stems/acre of competition. Stand prescribed and treated with TSI in August 2022.																																											
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26	42110 - Planted Red Pine		20.8	25	Immature	N/A	Final harvest 2000. Replanted to red pine. Mix of O1 and J1 mixed in as well. FTP # C73-667 - replanted / fill in with red pine 5/17/2007.																																											
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27	4130 - Aspen	Sapling Well	7.7	14	Immature	N/A	Clear cut 2011. Decent mix of natural regeneration. Final harvest 2" spec manage for aspen regeneration. Scattered low areas harvest on dry or frozen ground to prevent rutting on heavy soils. Apply retention along L type along Dishwash Creek and leaving scattered super canopy oak and white pine. Visual management should be considered, home directly adjacent to stand. A mix of aspen, maple and oak regeneration is expected. Tim Gallagher 08/18/2014: Clear cut 2011 Whiskey River Pine 73-005-10-01																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
28	4130 - Aspen	Sapling Well	6.1	34	Immature	N/A	Clearcut in 1991, heavy aspen regeneration.																																													
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29	4126 - White, Black, N. Pin Oak		9.8	80	51-80	N/A	Large oaks are starting to fall out of stand. Expected to flip to a pine stand within next cycle.Small pocket of oak that was left when surrounding stands were cut. Several deer camps in the stand. Big tree management in an area that has been harvested. (mast, course woody debris, diversity, wildlife, camp area, seed)																																													
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30	42110 - Planted Red Pine	Sawtimber Well	6.7	70	111-140	N/A	Thinned in 2012. Decent red pine good access and strait rows. Crowns not closed from past thinning. Wait 10 yrs. and thin. Third row thinned 5/9/2000. Reduce BA/AC to 120 by individual tree marking. Tim Gallagher 08/18/2014: Thinned 2012 Whiskey River Pine 73-005-10-01																																													
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Northern Pin Oak	Medium	5 - 10 feet	5 - 10 feet																																																	
31	6128 - Lowland Coniferous, Mixed Deciduous		34.1	60	141-170	N/A	Low wet site, mucky soils. Adjacent to Giss-I-Was Creek, down over a steep bank.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>25</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Balsam Fir</td><td>45</td><td>Sapling</td><td>6</td><td>60</td></tr><tr><td>Eastern Red Cedar</td><td>30</td><td></td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	25	Seedling	8		Balsam Fir	45	Sapling	6	60	Eastern Red Cedar	30		12																															
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Eastern Red Cedar	30		12																																																	
32	6120 - Lowland Cedar		7.8	114	171-200	N/A	Dense stand of old cedar, balsam fir, and hemlock. Cedar and balsam fir.																																													
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33	6123 - Lowland Fir		12.6	38	51-80	N/A	Habitat cut in 1988.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>100</td><td>Seedling</td><td>5</td><td>38</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Fir	100	Seedling	5	38																																								
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34	622 - Lowland Shrub	Unspecified	87.7			No	Wetland grasses mixed with tag alder.Giss-I-Was Creek bottom lands.																																													





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
41	42221 - Natural Jack Pine, Mixed Deciduous		15.3	33	Immature	N/A	Final harvest in 1992. Mix of natural regeneration J3/A2-O1-Mr1.																																									
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42	6120 - Lowland Cedar		56.1	95	171-200	N/A	Very wet dense stand. Down over the bank. Giss - I - Was Creek bi-sects stand. Includes marsh grass, standing water, tag alder etc.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>30</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Northern White Cedar</td><td>50</td><td>Seedling</td><td>7</td><td>95</td></tr><tr><td>Hemlock</td><td>10</td><td>Seedling</td><td>9</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Seedling</td><td>6</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	30	Seedling	7		Northern White Cedar	50	Seedling	7	95	Hemlock	10	Seedling	9		Red Maple	10	Seedling	6		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	Variable	Variable	Red Maple	Low	Variable	Variable	Tag Alder	Low	5 - 10 feet	5 - 10 feet
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43	42110 - Planted Red Pine		36.1	91	81-110	N/A	Red pine and jack pine planted in 1939. 2012 thinning removed all jack pine and oak. Red pine residual reduced 60' to 70' sq ft. The residual red pine will act as a nurse crop to stimulate oak regeneration. Stand was thinned 5/2012 Kirby Pine 73-016-09-01. Oak understory is getting well established.																																									
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Jack Pine	Low	Variable	Variable																																													
44	4125 - Black, N. Pin Oak		114.4	32	Immature	N/A	Red pine and jack pine planted in 1937. All jack pine and oak removed in 1991. Dense O3 understory has resulted from partial harvest in 1991. CC w/ reserves 8/2013. Kirby Pine 73-016-09-01. Well established oak understory has been released.																																									
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45	42110 - Planted Red Pine		14.7	91	1-50	N/A	Red pine and jack pine planted in 1939. Shelterwood Seed harvest 5/2012. Kirby Pine 73-016-09-01. Oak understory is getting well established.																																									
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Bigtooth Aspen	Low	Variable	Variable																																													
46	42220 - Natural Jack Pine		5.0	67	111-140	N/A	Almost all jack pine have fallen out of the stand. Regeneration is strong, rest of living jack pine is not far behind. Was released cut in February of 1975. Ground cover is moss and blueberry. Lower than surrounding stands. Hold as there has been a lot of harvesting activity in the last 10 years.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>80</td><td>Seedling</td><td>8</td><td>67</td></tr><tr><td>Red Pine</td><td>20</td><td></td><td>20</td><td>91</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	80	Seedling	8	67	Red Pine	20		20	91	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Red Pine	Low	Variable	Variable	Black/Red (Hybrid) Oak	High	5 - 10 feet	5 - 10 feet	Black Cherry	Low	Variable	Variable						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
64	4126 - White, Black, N. Pin Oak		46.1	30	Immature	N/A	Final harvest 1995. Stump sprout oak and seed source oak. Mix of natural regeneration O3/J1-Mr1-A1.																																																		
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65	42290 - Natural Mixed Pine		5.0	65	81-110	N/A	Final harvest 1997.																																																		
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66	110 - Low Intensity Urban	Unspecified	0.2				Consumers Energy gas well pad.																																																		
67	3102 - Grass	Unspecified	0.2				Consumers Energy gas well pad.																																																		
68	6123 - Lowland Fir		29.9	83	111-140	N/A	Access is limited. Aspen is on the decline, converting to Mr, ash and oak. Overall stand is very wet. Commercial harvest would only be possible on 100% frozen ground. Possible habitat cut. However, regeneration is a concern as aspen is past its prime and on the decline. The stand may convert to lowland brush if cut.																																																		
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69	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	25.4	129	81-110	N/A	Muskegon River/ Huckleberry Trail ERAFloodplain forest, comprised of silver maple, green ash, bur oak, basswood, red oak, american beech, sugar maple, and occasional white pine hemlock.																																																		
70	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	2.0	80	81-110	N/A	White and red pine mixed with some smaller hardwood.Scattered wet pockets. Clearcut in 1985. In transition between well stocked A3 and A6.																																																		
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71	110 - Low Intensity Urban	Unspecified	0.1			No	Consumers Energy gas well pad.																																																		







Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
85	42250 - Pine, Oak	Sawtimber Well	6.1	40	111-140	N/A	Area left around the rail road.Retention islands left in contract County Line Mix 73-016-17Red pine and jack pine planted in 1937. All jack pine and oak removed in 1998. Thinned again 2009. High quality red pine. Red pine BA/AC 123. Very dense well established oak understory 10' tall and 1 inch DBH. 16' - 18' DBH red pine within stand. Close trail into stand off M-61.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		40		8	40	Northern Pin Oak		Full	Variable	
Jack Pine		40	Seedling	8	40					
Red Pine		20		14	88					
86	42101 - Planted White Pine, Mixed Deciduous	Sapling Poor	12.8	66	81-110	N/A	Final harvest 1997. 6" DBH spec. Good mix of natural regeneration. J3/O1-Mr1-A1. White pine residual at south end of stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10		15		Norway Spruce		Low	Variable	
Black/Red (Hybrid) Oak		25		15	98	Red Pine		Low	Variable	
White Pine		65		16	66	Black/Red (Hybrid) Oak		Low	Variable	
						White Pine		Medium	Variable	
						Jack Pine		Medium	Variable	
87	4130 - Aspen	Sapling Well	2.6	50		N/A	Aspen with a small pocket of red pine the same age as the stand to the south. Dishwash Creek Bi-sects stand. Stand is almost completely within the buffer for cold water trout streams.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		5		11		Black/Red (Hybrid) Oak		Medium	Variable	
Black/Red (Hybrid) Oak		10		10		Red Maple		High	Variable	
Red Maple		25		10		Green Ash		Medium	Variable	
Bigtooth Aspen		60		15	50					
88	4130 - Aspen	Poletimber Well	6.5	63	51-80	N/A	Retention for stand 196.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		75	Seedling	6	63	Red Maple		Medium	Variable	
Red Maple		20	Seedling	6	63	Quaking Aspen		Medium	Variable	
Red Pine		5	Seedling	6						
89	500 - Water	Unspecified	1.7			No	Dammed area is dry during inventory 2024.Water, beaver.			
90	622 - Lowland Shrub	Unspecified	38.8			No	Creekbottom area, no merchantable timber, fair amount of standing dead soft maple.			
						Sub-Canopy Species		Density	Avg. Height	Size
						Tag Alder		Medium	5 - 10 feet	5 - 10 feet
						Willow spp.	Medium	5 - 10 feet	5 - 10 feet	
91	4130 - Aspen	Poletimber Well	20.3	40	81-110	N/A	Holes in canopy are filling in with sapling class. Scattered wet pockets. Clearcut in 1985. In transition between well stocked A3 and A6.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		40	Seedling	8	40	Red Maple		Medium	>20 feet	
Northern Pin Oak		5	Seedling	6	40	Beech		Low	Variable	
Red Maple		15	Seedling	9	40					
Bigtooth Aspen		30	Seedling	8	40					
White Pine		10	Seedling	8						



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
105	6112 - Lowland Aspen	Poletimber Well	17.0	42	81-110	N/A	Scattered low wet pockets. Clear cut in 1983, coming back nice. In transition between well stocked A3 & A6.																																																					
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Tag Alder	Trace	5 - 10 feet	5 - 10 feet																																																									
106	4130 - Aspen	Poletimber Well	31.3	42	111-140	N/A	OPIC - FMD: Clearcut 1983, excellent reproduction. In transition between well stocked A3 & A6.																																																					
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107	42110 - Planted Red Pine	Poletimber Well	1.4	70	201+	N/A	OPIC - FMD: Due to size and location of stand manage with adjacent stand 103.																																																					
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109	42110 - Planted Red Pine	Poletimber Well	29.2	70	141-170	N/A	A lot of hybrid oak mortality in the canopy. No mortality in the sub-canopy. Third row thinned 2004. Red pine BA varies. This stand should be managed with stand 124 due to access.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
116	4130 - Aspen	Sapling Well	1.9	31	111-140	N/A	Only access is across private. Clearcut in 1994.																																					
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117	42110 - Planted Red Pine	Sawtimber Well	8.3	70	141-170	N/A	Third row thinned in 1985. Second time thinned 2011 Whiskey River Pine 73-005-10-01. Hold this year of entry stand is still responding to last thinning.																																					
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118	6229 - Mixed Lowland Shrub	Unspecifed	3.8			No																																						
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120	4125 - Black, N. Pin Oak	Sapling Well	4.1	23	Immature	N/A	Clearcut in 2002. Decent oak regeneration as a result of the harvest. Scattered oak and white pine residual.																																					
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121	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	2.5	40	1-50	N/A	Habitat cut in 1985, regeneration is slow.																																					
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Stand

Level 4 Cover Type

Size Density

Acres

Stand Age

BA Range

Managed Site

General Comments

139

42221 - Natural Jack Pine, Mixed Deciduous

5.1

38

51-80

N/A

Stand split from planted red pine to the north. Lowland mixed with upland, growing well. Scattered aspen clones. The southern arm is filling in with jack pine and aspen. Stand was trenched summer 2014. The stand was planted in 2015. Regeneration was checked and portions of the stand is not fully stocked so scheduled for replant in 2020.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Seedling	8	
Jack Pine	60	Seedling	9	38
Black Cherry	10	Seedling	9	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Variable
Black/Red (Hybrid) Oak	Low	5 - 10 feet	5 - 10 feet
Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet
Red Pine	Low	Variable	Variable

140

6112 - Lowland Aspen

Sapling Medium

2.5

4

Immature

N/A

stand is coming back strong to lowland aspen, there is a upland ridge that divides the two lowland stands. Stand was part of 137 that is now being planted to red pine. This is a small depression with low density trees & shrubs filling in.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Log	1	4
White Pine	10	Log	1	
Jack Pine	10	Log	1	

141

500 - Water

Unspecified

1.2

No

Water table varies with Beaver activity.

142

4132 - Aspen, Jack Pine

Sapling Poor

3.9

60

1-50

N/A

Scattered pine and aspen pockets next to plated red pine. Scattered aspen clones. The southern arm is filling in with jack pine and aspen. Stand was trenched summer 2014. The stand was planted in 2015. Regeneration was checked and portions of the stand is not fully stocked so scheduled for replant in 2020.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Seedling	8	60
Jack Pine	20	Sapling	6	
Red Pine	20		10	60

143

6112 - Lowland Aspen

16.0

83

111-140

N/A

Access is limited. Aspen is on the decline, converting to Mr, ash and oak. Overall stand is very wet. Commercial harvest would only be possible on 100% frozen ground. Possible habitat cut. However, regeneration is a concern as aspen is past its prime and on the decline. The stand may convert to lowland brush if cut.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Sapling	6	83
Red Maple	20	Seedling	6	
Balsam Fir	20	Seedling	5	
Northern Pin Oak	15	Seedling	6	
White Pine	5	Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Low	Not Applicable	Not Applicable
Willow spp.	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Dogwood (spp.)	Low	5 - 10 feet	5 - 10 feet

144

6112 - Lowland Aspen

14.2

38

81-110

N/A

Habitat cut 1987. Low and wet.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	58	Seedling	8	38
Red Maple	30	Seedling	6	38
Black/Red (Hybrid) Oak	2		9	
Balsam Fir	10	Seedling	6	38

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Dogwood (spp.)	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable
Choke Cherry	Low	Variable	Variable

145

42250 - Pine, Oak

5.9

50

51-80

N/A

Mature jack pine is being hit by the bud worm. Old twp. dump. Still being used by local residents.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	30	Seedling	8	
Jack Pine	70		8	50



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
146	6112 - Lowland Aspen	Poletimber Well	4.6	42	81-110	N/A	Lowland portion.																																											
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148	6112 - Lowland Aspen	Sapling Poor	4.5	40	1-50	N/A	Poorly stocked stand due to wet soils, ash is regenerating well post EAB. Clearcut in 1984. Low wet stand regeneration is slow.																																											
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149	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	53.2	40	51-80	N/A	Out of the 4 stands this one has the best regeneration and growth. Clearcut in 1984. Low wet stand regeneration is slow.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Silver Maple</td><td>30</td><td>Seedling</td><td>5</td><td>40</td></tr><tr><td>American Elm</td><td>15</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Paper Birch</td><td>20</td><td>Seedling</td><td>6</td><td>40</td></tr><tr><td>Northern White Cedar</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Quaking Aspen</td><td>20</td><td>Seedling</td><td>6</td><td>40</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Silver Maple	30	Seedling	5	40	American Elm	15	Seedling	8		Red Maple	10	Seedling	7		Paper Birch	20	Seedling	6	40	Northern White Cedar	5	Seedling	7		Quaking Aspen	20	Seedling	6	40	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Ash</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	5 - 10 feet	Black Ash	Medium	Variable	Variable
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Black Ash	Medium	Variable	Variable																																															
150	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	23.3	94	1-50	N/A	Very wet site with mucky soils. Swamp grass all over the place. EAB present.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>45</td><td>Sapling</td><td>7</td><td>94</td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Northern Pin Oak</td><td>25</td><td>Seedling</td><td>7</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	45	Sapling	7	94	Quaking Aspen	30	Sapling	7		Northern Pin Oak	25	Seedling	7		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ash (spp.)</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Aspen (spp.)</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Willow spp.</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Ash (spp.)	Medium	Variable	Variable	Aspen (spp.)	Low	Variable	Variable	Red Maple	Low	Variable	Variable	Tag Alder	Low	5 - 10 feet	5 - 10 feet	Willow spp.	Low	Variable	Variable			
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Willow spp.	Low	Variable	Variable																																															
151	4125 - Black, N. Pin Oak	Sapling Well	9.5	23	Immature	N/A	Clearcut in 2002. Decent O3 regeneration as a result of the harvest. Several oak seed trees were left no measurable volume.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>15</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Northern Pin Oak</td><td>80</td><td>Log</td><td>3</td><td>23</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	15	Seedling	8		Jack Pine	5	Log	2		Northern Pin Oak	80	Log	3	23																													
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152	500 - Water	Unspecified	24.5			No	Water table varies with Beaver activity.																																											





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
159	4130 - Aspen	Poletimber Poor	12.4	41		N/A	A poor regenerated site, with many invasive honeysuckle. Clearcut 1984 very little woody regeneration.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20		10		Black/Red (Hybrid) Oak	Low	Variable	Variable
Quaking Aspen		60	Seedling	7	41	Honeysuckle (spp.)	Full	5 - 10 feet	5 - 10 feet
Black Cherry		20	Seedling	7					
160	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	13.5	70	141-170	N/A	Strong understory of oak. The crowns could hold another 10 years. Access two track from Stockwell Road is seasonally very wet. Tim Gallagher 08/18/2014: First time row thinning 2014, Whiskey River Pine 73-005-10-01. Retention, all scattered mixed hardwood within stand was left. 66BA/AC red pine was removed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak		10		10		Honeysuckle (spp.)	Low	5 - 10 feet	5 - 10 feet
Red Pine		80		10	70	Black/Red (Hybrid) Oak	High	5 - 10 feet	5 - 10 feet
Quaking Aspen		10	Seedling	6		Black Cherry	Low	Variable	Variable
161	6127 - Lowland Pine	Poletimber Well	10.8	70	171-200	N/A	Clearcut in 1969. Possible habitat cut. Pockets of planted red pine within stand. Access is a concern with this stand. Ravines leading down to creek, wet areas, open grown areas, non stocked patches, aspen blow down along creek, areas of marsh grass. Red pine has not been thinned.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		15	Seedling	7	56	Red Maple	Low	Variable	Variable
Red Maple		10	Sapling	6		Black/Red (Hybrid) Oak	High	Variable	Variable
Red Pine		75	Seedling	9	70	White Oak	Low	5 - 10 feet	5 - 10 feet
162	4130 - Aspen	Poletimber Medium	39.0	56	1-50	N/A	Clearcut in 1969. Overall this stand is not ready for regeneration harvest. Timber is a little bigger at north end. Poor quality aspen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Sapling	6	56	Red Maple	Medium	Variable	Variable
Northern Pin Oak		5	Sapling	6		Aspen (spp.)	Medium	Variable	Variable
Jack Pine		5	Pole	4					
Red Maple		25	Sapling	6	56				
Bigtooth Aspen		5	Sapling	6	56				
163	6112 - Lowland Aspen	Poletimber Medium	4.0	56	51-80	N/A	Lowland stand bordering the Whiskey creek. Beaver are active in the area. Hold 10 yrs. as aspen is a little small yet. Try to manage with stands 160 and 158 as access road north to Stocking is very wet. Clearcut in 1969. In transition between well stocked A3 and A6. Beaver activity down along river.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Seedling	7	56	Red Maple	Medium	Variable	Variable
White Pine		5	Seedling	6		Hawthorn (spp.)	Medium	5 - 10 feet	5 - 10 feet
Red Maple		20	Seedling	5	56				
Bigtooth Aspen		15	Seedling	7	56				
164	42110 - Planted Red Pine	Poletimber Well	59.6	70	111-140	N/A	Tim Gallagher 08/18/2014: First time row thinned 2013 Whiskey River Pine 73-005-10-01. Retention, all scattered mixed hardwood within stand was left. 66BA/AC red pine was removed. Hold 10 years and thin again.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Seedling	6		Quaking Aspen	Low	Variable	Variable
Black/Red (Hybrid) Oak		5		8		White Oak	Low	Variable	Variable
Red Pine		90		10	70	Black/Red (Hybrid) Oak	Full	Variable	Variable
						Red Pine	Trace	Variable	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
165	42110 - Planted Red Pine	Sapling Well	36.6	8	Immature	N/A	Year 3 regeneration check: 640 TPA, 20.5% mortality, 95% FTG. Stand passes regeneration check as a fully stocked red pine plantation. Stand surveyed in FY 2021 by contractors. Data shows 716 TPA of red pine and 99% FTG. No next steps needed on this stand. Trenched and planted to red pine. Trenched 2016 and planted 5/8/2017. Stand release sprayed Summer 2020. Stand replanted Spring 2021																																						
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Northern Pin Oak	5	Log	1																																										
Red Pine	95	Log	1	8																																									
166	42120 - Planted Jack Pine	Sapling Well	32.1	25	Immature	N/A	Planted to jack pine in 2002. Some areas planted to red pine in 1992. This site was a black top manufacturing site when M-61 was originally built.																																						
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167	42110 - Planted Red Pine	Sapling Medium	23.6	38	81-110	N/A																																							
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Red Pine	80	Seedling	7	38																																									
168	4131 - Aspen, Oak	Sapling Well	24.9	11	Immature	N/A	Filled in well, all red pine is on a ridge that tapers to the eastClear cut 2014. Regenerating to a mix of aspen, oak and red maple. All red pine 10" DBH and up was left. Most of the red pine is located in a pocket at the south end of stand. Records of forest fire in the past. Apply retention along west end of stand and leaving scattered red pine. Tim Gallagher 08/18/2014: Clear cut 2014 Whiskey River Pine 73-005-10-01. Natural regeneration survey was done June 2018. The aspen regeneration is heavy on the ridge that goes through the stand. The stand is fully stocked going from the ridge to the rail road tracks. This area is heavy to bigtooth aspen. The area north of the ridge is more open and is heavier to quaking aspen. Much of the oak regeneration is less than 4' tall. The stand also has a trace of red maple and jack pine.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>40</td><td>Log</td><td>1</td><td>11</td></tr><tr><td>Quaking Aspen</td><td>30</td><td>Log</td><td>1</td><td>11</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Log</td><td>1</td><td></td></tr><tr><td>Choke Cherry</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>14</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	40	Log	1	11	Quaking Aspen	30	Log	1	11	Black/Red (Hybrid) Oak	20	Log	1		Choke Cherry	5	Log	1		Red Pine	5		14		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Medium	Variable	Variable
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169	42110 - Planted Red Pine	Unspecified	21.4	10	Immature	N/A	Fully stocked red pine stand with some but not a ton of jack pine competition.Scattered aspen clones. The southern arm is filling in with jack pine and aspen. Stand was trenched summer 2014. The stand was planted in 2015. Regeneration was checked and portions of the stand is not fully stocked so scheduled for replant in 2020.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>20</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>80</td><td>Log</td><td>1</td><td>10</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	20	Log	1		Red Pine	80	Log	1	10																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
177	500 - Water	Unspecified	3.7			No	Old barrow pit from when M-61 was built.
178	4131 - Aspen, Oak	Sapling Well	13.7	14		N/A	Stand was clearcut 2011. Stand did not regenerate as planned. Scattered pockets of hardwood regen (small A3 pockets). Grass, bracken fern, raspberry, small A3 clones. Thinned in 1985. Parts of stand were not thinned. Most of stand has a dense hardwood under story, red maple and aspen. This is really a hardwood site. Final harvest 2" spec and convert from red pine to a mixed hardwood site. The under story will take a beating during harvest operations and should be cut as opposed to being smashed and driven over. Apply retention along west end of stand along L type along Dishwash Creek. Harvest up to Arnold Lake Road and Kirby Ave. A mix of aspen, red maple and oak regeneration is expected. Tim Gallagher 08/18/2014: Clear cut 2011 Whiskey River Pine 73-005-10-01. Stand trenched and planted to red pine.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Oak	5	Log	1		
		Bigtooth Aspen	20	Log	1	14	
		Red Pine	5	Log	1		
		Quaking Aspen	50	Log	1	14	
		Black/Red (Hybrid) Oak	15	Log	1		
		Black Cherry	5	Log	1		
179	42220 - Natural Jack Pine		193.3	23	Immature	N/A	All oak and jack pine removed in 1992. Overstory red pine removed in 2002. This two stage shelterwood system has resulted in a excellent mix of natural regeneration.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Northern Pin Oak	20	Pole	4	23	
		Red Pine	20	Sapling	5	23	
		Jack Pine	60	Log	4	23	
180	42141 - Planted Mixed Pine, Mixed Deciduous		32.7	10	Immature	N/A	Final harvest 2" spec. 2013. Huckleberry Trail Harvest 73-029-10-01. All scattered red pine and white pine were left. Interplant red pine to maintain full stocking. Apply retention along east end of stand along drop off down to the floodplain. Red pine planted 4/28/2015. FTP C73-891. Aerial release spray 9/2020
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	40	Log	2	10	
		Black/Red (Hybrid) Oak	20	Log	2		
181	6113 - Lowland Maple	Poletimber Well	66.7	99	81-110	N/A	Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Black/Red (Hybrid) Oak	20		8		
		White Pine	10		8		
		Red Maple	70	Seedling	8	99	
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Ash	Low	Variable	Variable		
		Red Maple	Medium	Variable	Variable		
		Deciduous Shrubs	Medium	5 - 10 feet	5 - 10 feet		
182	4125 - Black, N. Pin Oak		16.8	23	Immature	N/A	All but red pine removed in 2002. Red pine is concentrated in two pockets. Within the pockets the red pine BA is 30 sq. ft. and out side the pockets there is no red pine.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Jack Pine	5	Sapling	5		
		White Oak	15	Seedling	5	23	
		Northern Pin Oak	70	Sapling	5	23	
		Red Pine	10		10		



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
189	4311 - Pine, Aspen Mix		17.6	40	51-80	N/A	Scattered aspen, white pine, oak and jack pine.																																																						
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190	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	48.7	108	81-110	N/A	Muskegon River/ Huckleberry Trail ERAFloodplain forest, comprised of silver maple, green ash, bur oak, basswood, red oak, american beech, sugar maple, and occasional white pine hemlock.																																																						
191	6113 - Lowland Maple	Sawtimber Medium	16.8	108	111-140	N/A	Stand is in the Muskegon River floodplain. Mucky soils, seasonally stand has standing water.																																																						
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192	500 - Water	Unspecified	10.9			No	Oxbow.																																																						
193	42110 - Planted Red Pine	Sawtimber Medium	159.8	76	1-50	N/A	40 to 60 BA understory is established but still small. North half was thinned spring 2019 and south half thinned 2018. Kirby Pine 73-002-17																																																						
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194	622 - Lowland Shrub	Unspecified	34.8			No																																																							
195	42110 - Planted Red Pine		7.1	70	171-200	N/A	This stand was left out of the Temple Pine 73-024-01 sale. This stand was harvested during the Old M-61 Sale 73-032-90 in which all species excluding red pine where harvested.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
202	6113 - Lowland Maple	Sawtimber Medium	125.5	127	51-80	N/A	Strong ash regeneration after harvest. Maple, elm, and basswood growing well. Ash harvest along the western portion of stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Selective cut in 2003 on frozen ground. BA was reduced to 100 sq. ft. Ash is in decline from the EAB. Ash salvage sale is currently active. M-61 Split Ash 73-014-13-01. Very mucky soil. Not much happening in the understory. A portion of the ash was salvaged. Soil conditions and the deteriorating ash had an impact on how much ash was salvaged.
Northern White Cedar		2	Seedling	8		Red Maple	Low	Variable	Variable	
Basswood		20		12		Green Ash	Full	5 - 10 feet	5 - 10 feet	
American Elm		10	Seedling	7		American Elm	Low	5 - 10 feet	5 - 10 feet	
Silver Maple		68		18	127	Black Ash	High	Variable	Variable	
203	42290 - Natural Mixed Pine	Sawtimber Medium	13.0	60	111-140	N/A	Natural pine stand with an oak and maple component. Various ba of 80 to 180. All but red pine removed in 2002. Red pine is concentrated in two pockets. Within the pockets the red pine BA is 30 sq. ft. and out side the pockets there is no red pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Oak		5		10		Red Maple	Low	Variable	Variable	
White Pine		47		12	60	Red Pine	Low	Variable	Variable	
Jack Pine		5	Sapling	5		Black/Red (Hybrid) Oak	Medium	Variable	Variable	
Northern Pin Oak		18		15		White Pine	Medium	Variable	Variable	
Red Pine		25		10						