



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45012

Entry Year 2024

Acreage: 1,598

County Chippewa

Management Area: Drummond Island

Stand Examiner: Kenny Fanelli

Legal Description:

T41N R4E Sec 12
T41N R5E Sec 4-9
T42N R5E Sec 31, 32
Drummond Township

Identified Planning Goals:

This compartment is mostly managed for winter deer yard. Management this YOE will be limited due to much of the mature, available timber being harvested in the prior YOE.

Soil and topography:

Topography is relatively flat to rolling. There is one prominent bluff in the compartment looking to the west that affords spectacular views. Soils are Potagannissing-Rock Outcrop-Summerville, shallow to no soil with exposed bedrock.

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

The compartment is surrounded by private ownerships: those being a mix of homes and camps. The quarry has a 40 foot haul road easement that bisects the compartment.

Unique Natural Features:

There are 3 lakes withing or adjacent to this compartment. The Pigeon Creek flooding is located on the east end. This compartment also contains two alvar ERAs and other MNFI hits.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

This area is managed as deer yard.

Watershed and Fisheries Considerations:

This compartment is on Drummond Island, and contains Jones Lake, borders Parish Lake and Seaman Lake, and includes Great Lakes shoreline along Pike Bay and Whitney Bay and DeTour Passage. The planned treatments are appropriate for the protection of these waterbodies.

Wildlife Habitat Considerations:

This compartment is located on the west end of the Drummond Island Management Area, where featured wildlife species include black bear, northern goshawk, ruffed grouse, sharp-tailed grouse, and snowshoe hare. It is characterized by cedar and mixed conifer stands, with some areas of aspen or mixed deciduous, primarily on shallow soils over limestone bedrock. There are rare species and community types located within it, which need to be protected. The compartment provides important wintering habitat for white-tailed deer. The low conifer cover also provides good cover for snowshoe hare and other species. Jones Lake, Jackson Lake, and the Pigeon Cove Wildlife Flooding are all located in this compartment, Parish Lake is shared with another compartment to the west, and portions of the compartment also consist of Great Lakes shoreline. These waterbodies provide habitat for waterfowl, beaver, and other wetland wildlife. Part of the compartment was acquired with state game funds.

Wildlife management objectives include retaining the lowland conifer cover used by deer and snowshoe hare, protecting wetland and shoreline habitat for waterfowl and other wetland wildlife, protecting rare species and community types, and maintaining aspen where it exists for ruffed grouse and snowshoe hare. Lakes and wetlands will be buffered appropriately to maintain the aquatic and shoreline habitat.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. No active sand/gravel pits exist near the compartment, and potential for sand & gravel development within the compartment appears limited. High-purity dolomite has been quarried from the Engadine Group

just east and west of the compartment. The Engadine is thin to absent beneath much of the compartment, but there may still be potential for dolomite from the Manistique Group. At this time, Drummond Dolomite (Carmeuse) is exclusively mining the Engadine and are expanding operations primarily to the south and east of the active quarry. Potential for additional mining within the compartment appears low. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

There is perimeter vehicle access off of Whitney Bay Rd, M-134, and Pike Bay but there is virtually no two track access into the interior of the compartment. The Quarry Rd is not open to the public and most of the other two tracks come through private property.

Survey Needs:

None this YOY.

Recreational Facilities and Opportunities:

The Quarry Road is used as the snowmobile trail in winter. There are no other recreational facilities. Hunting is the primary use.

Fire Protection:

Fire potential is likely low in this compartment. The Pigeon River Flooding is a good drafting location.

Additional Compartment Information:

The following reports from the Inventory are attached:

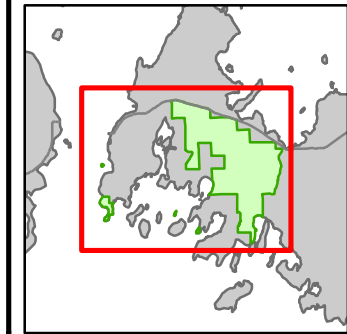
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

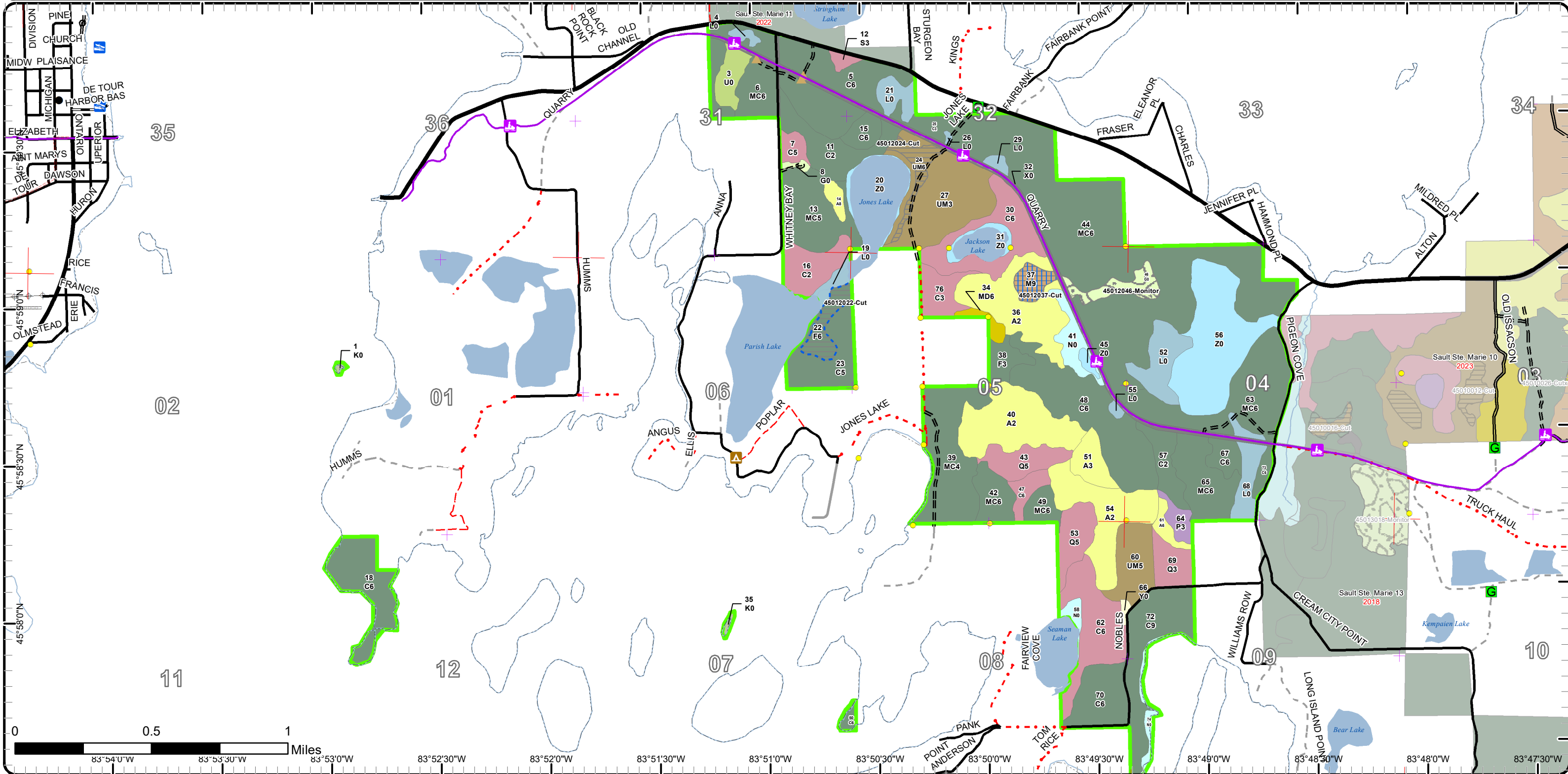
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 12
 T41N, R05E, Sec: 31, 32; T42N,
 R05E, Sec: 1, 4-9, 12
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2024
 Acres: 1598.2 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 2/6/2023
 Map Phase: Post-Review

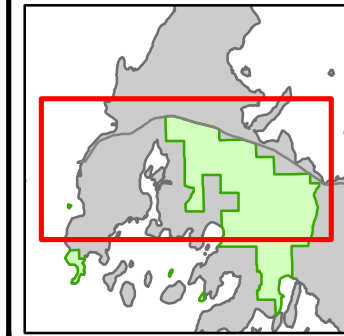


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- ▲ Campground
- Intermittent Stream
- Lake/Pond
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- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- 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
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil
- 720 - Exposed Rock

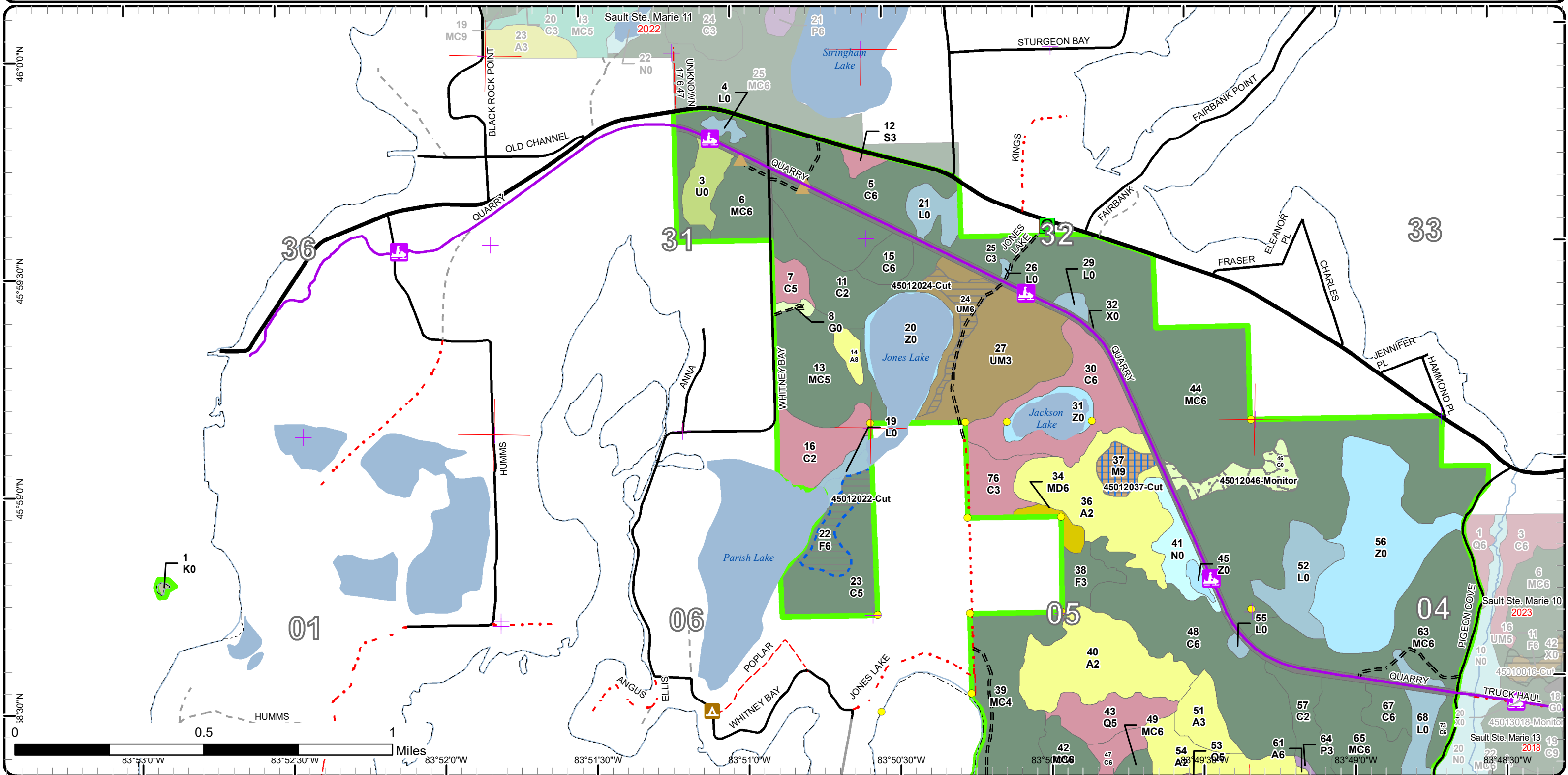


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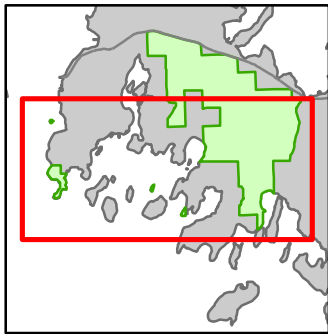


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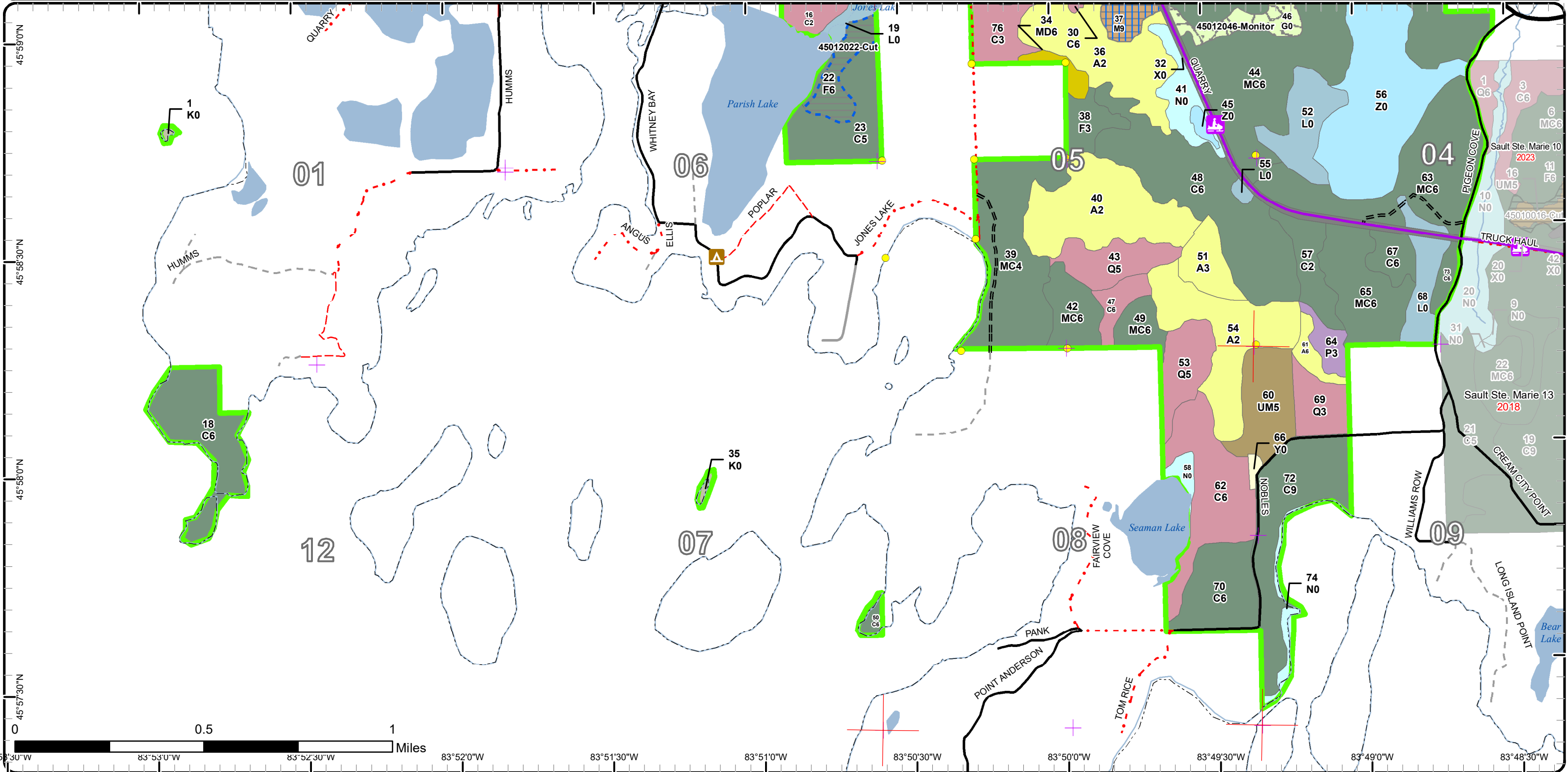


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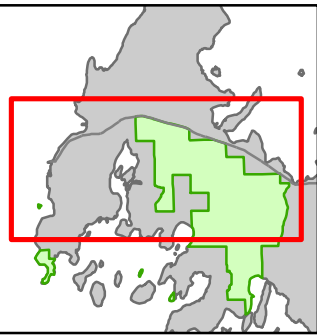


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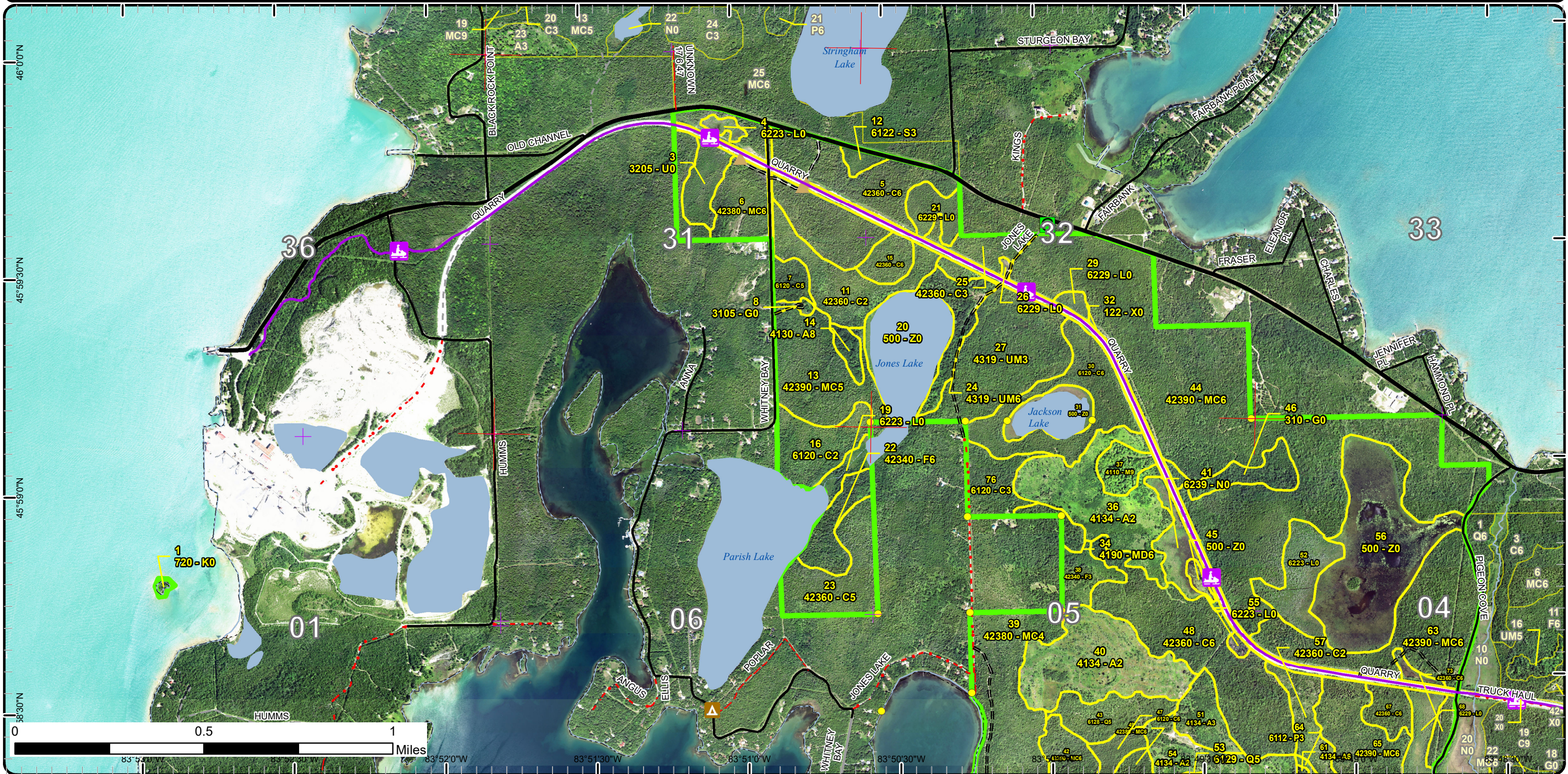


Stand Boundary Map

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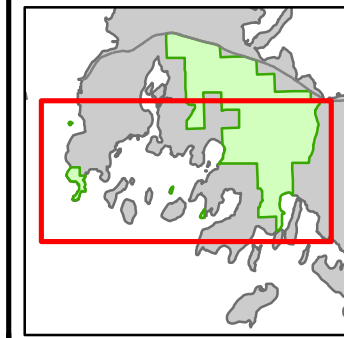


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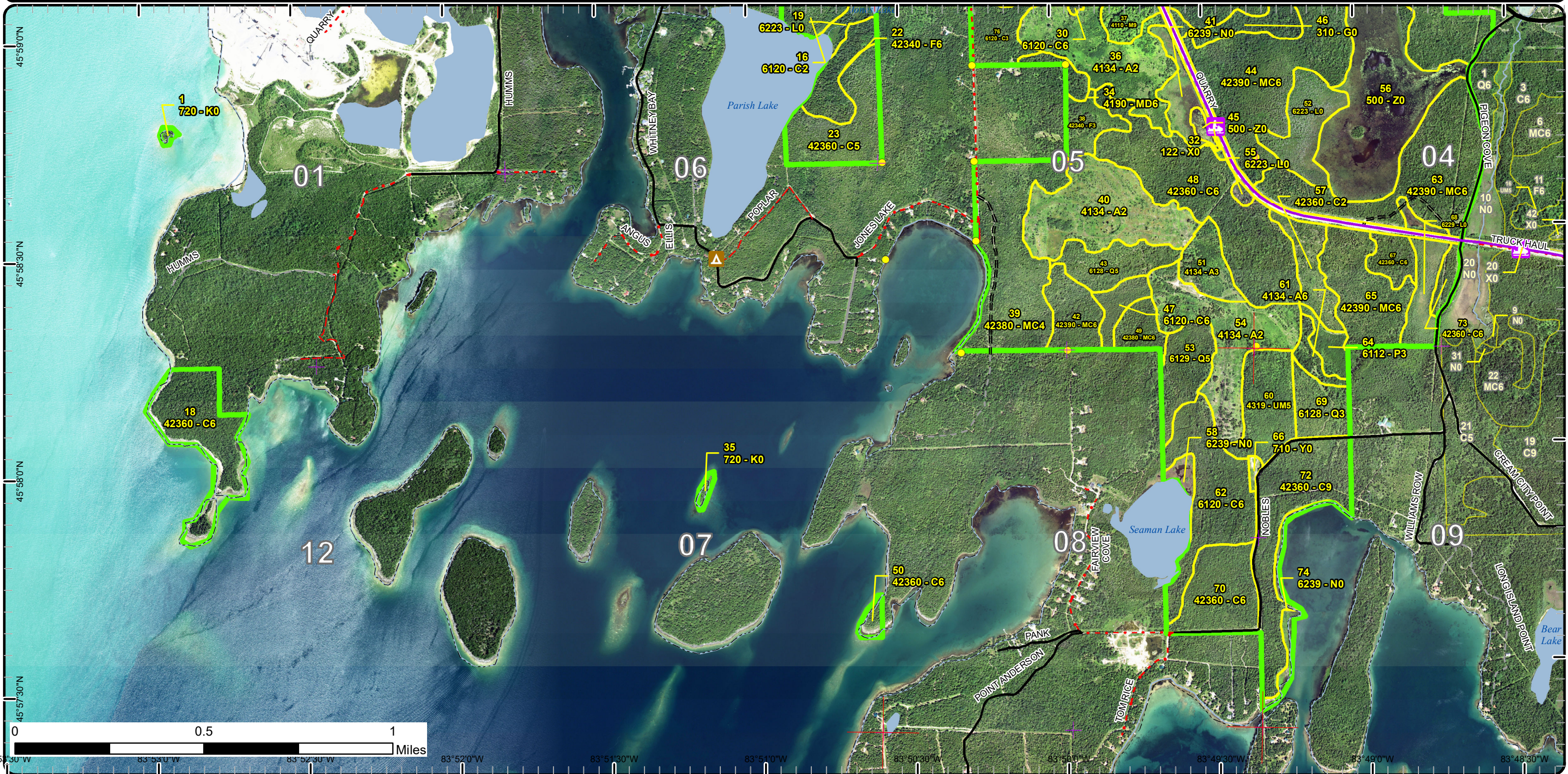


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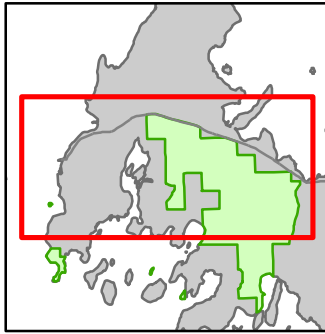


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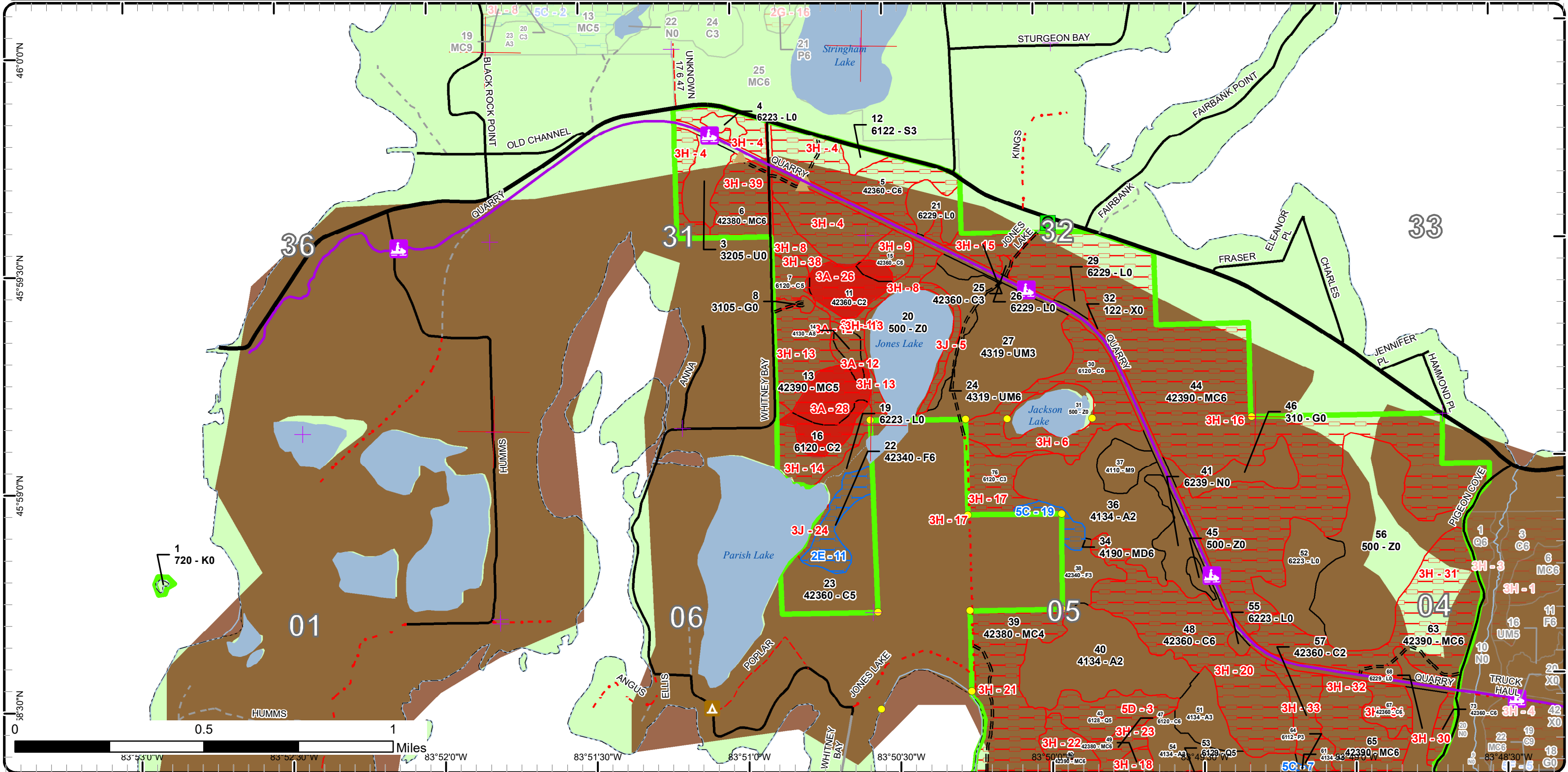


Special Conservation Areas

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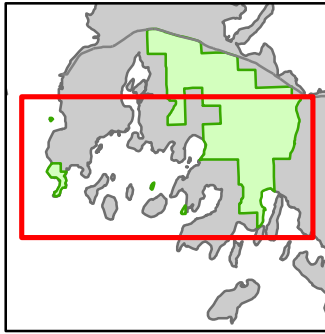


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- 🚧 Compartment Boundary
- 🚧 Available w/ Constraints
- 2E: Road needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 🚫 Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 📏 Stand Boundaries
- 🔴 Ecological Reference Areas
- 🟤 Deer Winter Range
- 🟢 Great Lakes Islands

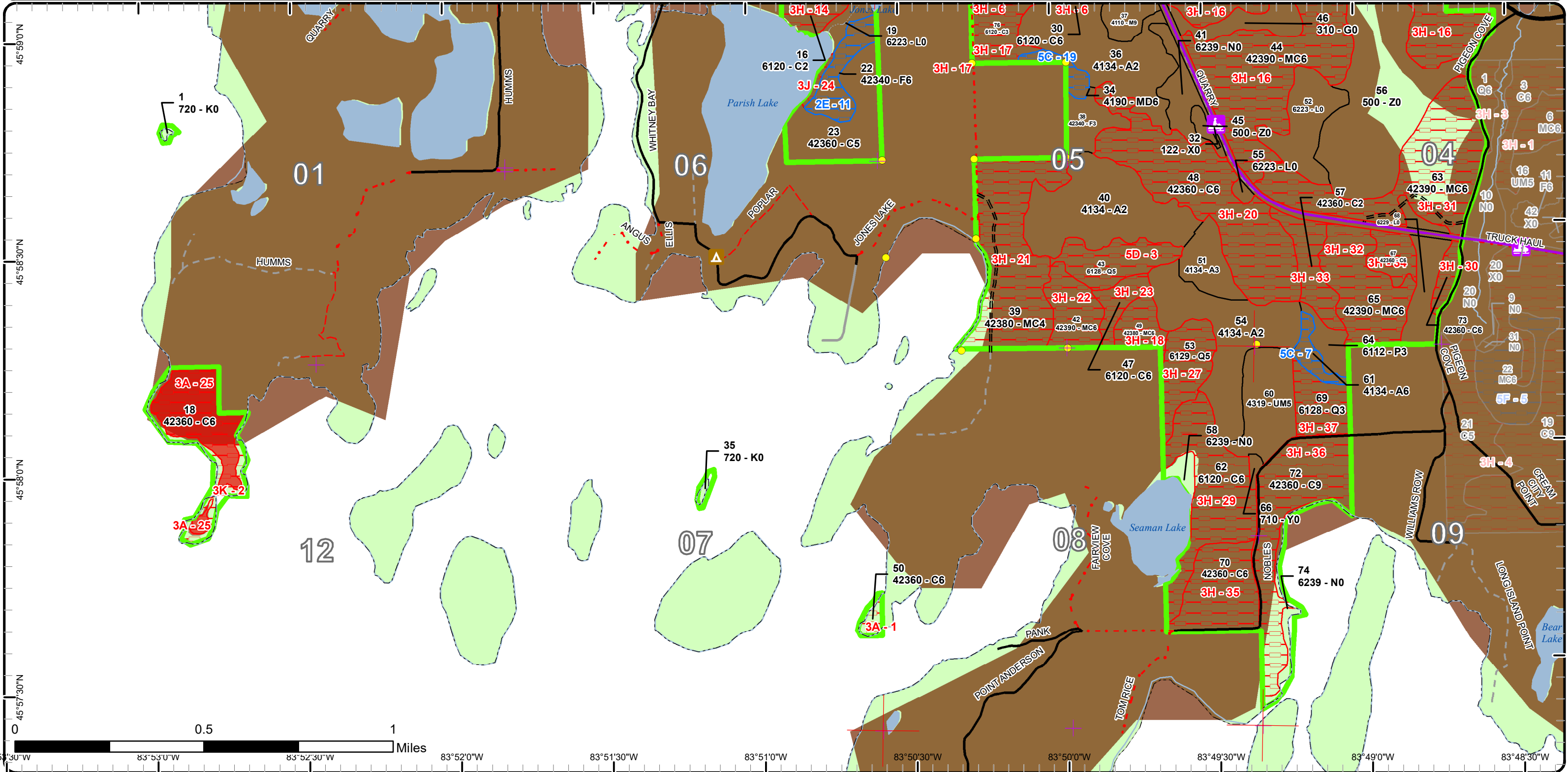


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- 🟡 3J: Water quality / BMPs (stream, river, or lake)
- 🟢 3K: Rare or unique landforms
- 🟤 5D: Unproductive Forest Land
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Report 1 – Total Acres by Cover Type and Age Class



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	50	92	13	0	0	0	0	0	0	5	6	0	0	0	0	0	0	166
Cedar	0	0	0	26	0	0	28	23	0	0	179	76	118	0	0	0	46	0	496
Exposed Rock	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	14	0	0	0	0	0	0	0	18	0	18	0	0	0	0	50
Lowland Shrub	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Spruce/Fir	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	18	300	83	0	60	0	0	0	0	461
Upland Mixed Forest	0	0	0	53	0	0	25	16	0	0	0	0	0	0	0	0	0	0	94
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Spruce/Fir	0	0	0	11	0	0	0	0	0	0	15	0	0	0	0	0	0	0	26
Urban	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Water	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Total	284	50	92	128	0	0	53	39	0	18	499	183	132	78	0	0	46	0	1600



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 12
Total Compartment Acres: 1,598

Commercial Harvest - 20
Harvests with Site Condition - 13
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
Northern Hardwood	0	0	0	9	0	0	0	0	0	9
Upland Mixed Forest	11	0	0	0	0	0	0	0	0	11
Upland Spruce/Fir	13	0	0	0	0	0	0	0	0	13
Total	24	0	0	9	0	0	0	0	0	33

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	33	0	0	0	0	0	13	0	0	46
Next Step	0	0	0	0	0	0	33	0	0	33
Total	33	0	0	0	0	0	46	0	0	79



Stand	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:

22	45012022-Cut	12.8	42340 - Upland Spruce/Fir	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut all species 2" and up. Do not cut any cedar except for operation needs. Winter harvest because of the deer yard and possible wet ground conditions.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any mix of spruce, fir, pine, cedar, aspen, and birch.</p> <p><u>Other Comment:</u> Buffer the lake on the west end. MNFI survey needed for possible TnE. Access is unknown at this time and private permission is needed. Access will either be from the south with a road needed through stand 23. Or access will be through private with a road needed from the east.</p> <p><u>Site Condition</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

24	45012024-Cut	10.9	4319 - Mixed Upland Forest	Poletimber Well	61	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Clear cut all species which are 2" and up. Do not cut any cedar and exclude pockets of cedar. The 100' buffer around Jones Lake will serve as retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Moderate to fully stocked aspen, spruce, fir, maple, birch and cedar.</p> <p><u>Other Comment:</u> Some extra acreage may be able to be added from stand 27, along Jones Lake Rd. Total acreage may change.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

37	45012037-Cut	9.1	4110 - Sugar Maple Association	Sawtimber Well	111	81-110	Harvest	Seed Tree	4110 - Sugar Maple Association	Two-Aged	No
<p><u>Prescription Specs:</u> Leave 1 healthy representative tree every 70 feet throughout the stand, some of which should be healthy ash if present to maintain stand diversity. Cut all other trees which are 2" and up to encourage regeneration and recruitment of seedlings to diversify the stand for wildlife. Maintain a diverse range of species as the seed source, including the few large white pine around the edges.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Sugar maple, white pine, spruce, fir, birch and possibly aspen.</p> <p><u>Other Comment:</u> There will be no long term retention in this stand due to the size of the stand and for regeneration purposes. The overstory may be removed when adequate regeneration has been established in the understory.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
46 45012046-Monitor	13.4	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Continue monitoring for natural regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to fully stocked aspen, spruce, fir, birch, maple, and cedar.</p> <p><u>Other Comment:</u> Regeneration wasn't sufficient at time of re-inventory. Check in 4 more years.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment Acreage Proposed: 46.2

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 12

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
165	155	6	5

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions								
					2E	5C	3A	3B	3H	3J	3K	5D	
165	155	6	5	Aspen		6	1	4					
421	1	0	420	Cedar			54	0	355		11		
2	2	0	0	Exposed Rock									
15	15	0	0	Herbaceous Openland									
7	7	0	0	Lowland Aspen/Balsam Poplar		0							
49	0	0	49	Lowland Conifers					33				16
62	62	0	0	Lowland Shrub									
4	4	0	0	Lowland Spruce/Fir									
25	25	0	0	Marsh									
5	0	5	0	Mixed Upland Deciduous		5							
9	9	0	0	Northern Hardwood									
1	1	0	0	Sand, Soil									
460	0	0	460	Upland Conifers			14	2	445				
94	89	0	5	Upland Mixed Forest		0				5			
12	12	0	0	Upland Shrub									
25	11	13	2	Upland Spruce/Fir	13					2			
36	36	0	0	Urban									
128	128	0	0	Water									
1,522	558	24	941	Total Forested Acres	13	11	69	6	832	7	11	16	
	37%	2%	62%	Relative Percent									

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	2E: Road needed	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Year of Entry: 2024

2	Unavailable	3K: Rare or unique landforms	11	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Limestone Cobble Shore Barbed Point and Crab Island sites.							
3	Unavailable	5D: Unproductive Forest Land	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Could become available in the future is stocking improves.							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Small stand left for buffer between treatments.							

Report 4 – Site Conditions

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8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3B: Threatened, endangered, and special concern species	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2E: Road needed	13	2B: Unknown if access through adjacent landowner(s) is possible	2I: Survey needed	Unspecified	Unspecified
Comments: MNFJ Survey Needed							
12	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	229	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Year of Entry: 2024

23	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3A: Conservation Values incompatible with harvest at this time	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boreal forest ERA							
26	Unavailable	3A: Conservation Values incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Alvar ERA							
27	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Year of Entry: 2024

28	Unavailable	3A: Conservation Values incompatible with harvest at this time	23	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: ERA							
29	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 12

Year of Entry: 2024

33	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 12

Year of Entry: 2024

38	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	720 - Exposed Rock	Nonstocked	1.0			No																																														
3	3205 - Mixed Upland Shrub	Nonstocked	11.8		Unspecified	No																																														
4	6223 - Inundated Shrub Swamp	Nonstocked	2.8		Unspecified	No																																														
5	42360 - Upland Cedar	Poletimber Well	75.5	102	171-200	N/A	Cedar stand that borders M-134 and is split by the Haul Rd. Much less deciduous and white spruce cover than was noted in previous inventory.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>80</td> <td>Pole/Log</td> <td>8</td> <td>102</td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>3</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>10</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	80	Pole/Log	8	102	Paper Birch	2	Pole	8		Balsam Fir	5	Pole	6		Quaking Aspen	3	Pole	7		White Spruce	10	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling											
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6	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	18.1	87	141-170	N/A	Hodge podge of low quality cedar, aspen and spruce. Thick understory of balsam. Less of a component of aspen compared to last inventory.																																													
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7	6120 - Lowland Cedar	Poletimber Medium	6.8	61	51-80	N/A	This is a cedar stand with a super canopy of over mature aspen. This stand was previously an E type stand of primarily over mature aspen. Due to the decline of the aspen this is now a two aged stand with the former understory now being the primary species.																																													
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8	3105 - Mixed Upland Herbaceous	Nonstocked	1.9		Unspecified	No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
11	42360 - Upland Cedar	Sapling Medium	27.7	96	1-50	N/A	Cedar with scattered spruce and aspen. Unproductive forest. The ground is very rocky.																																										
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12	6122 - Black Spruce	Sapling Well	3.6	21	Immature	N/A	Was formerly an L stand but has filled in thick with fir, spruce, and a little aspen.																																										
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13	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	38.9	92	81-110	N/A	2024 Note: Cedar is patchy and variable in size. From 2-6" at dbh. There is some black spruce and aspen scattered throughout also. 2014 Note: Borders Whitney Bay Road, patchy cedar regen between poles and saps, probably low site quality at that age, similar to all surrounding stands in composition.																																										
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14	4130 - Aspen	Sawtimber Medium	4.7	95	Unspecified	N/A	Mature aspen.																																										
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15	42360 - Upland Cedar	Poletimber Well	8.8	92	111-140	N/A	Thick cedar saplings and poles, 4-6", with some some in the understory also.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	6120 - Lowland Cedar	Sapling Medium	22.3	90	1-50	N/A	2024 Note: Stand is much smaller over all than the stand to the north. Patchy cedar that's 2-5" overall and quite short. 10-20' tall. There is taller tamarack and black spruce scattered throughout. 2014 Note: Borders Whitney Bay Rd, very similar to stand 12 but more aspen, more cedar saps, and a little smaller diameter overall, grades into lowland toward the south at the shore of Parish Lake, corner in stand																																																			
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18	42360 - Upland Cedar	Poletimber Well	37.4	90		N/A	Isolated stand on barbed Point
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19	6223 - Inundated Shrub Swamp	Nonstocked	6.3		Unspecified	No	
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20	500 - Water	Nonstocked	37.5		Unspecified	No	
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21	6229 - Mixed lowland shrub	Nonstocked	10.3		Immature	No											
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22	42340 - Upland Spruce/Fir	Poletimber Well	14.6	90	51-80	N/A	White spruce and balsam fir with a good amount of cedar as well. There are some wet areas.																																						
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23	42360 - Upland Cedar	Poletimber Medium	29.4	90	Unspecified	N/A	Small sized cedar with some spruce throughout.																																														
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25	42360 - Upland Cedar	Sapling Well	10.6	28	81-110	N/A	Thick cedar of varying diameters from 1-6". Some mature spruce remains in the overstory. This stand was cut in the early nineties, great cedar regen and many fire scarred stumps.																																																				
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26	6229 - Mixed lowland shrub	Nonstocked	0.8		Unspecified	No																																																					
27	4319 - Mixed Upland Forest	Sapling Well	53.4	26	Immature	N/A	2024 Notes: Young aspen and balsam fir. There is spruce, cedar, and some aspen that wasn't cut last time. 2014 Notes: Upland but low and wet in areas was cut 15 years ago but probably was more picked over, spruce and cedar have bigger diameter.																																																				
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29	6229 - Mixed lowland shrub	Nonstocked	2.7		Unspecified	No																																																					
30	6120 - Lowland Cedar	Poletimber Well	36.3	90	Unspecified	N/A	Surrounds Jones lake. thick lowland cedar.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31 500 - Water Nonstocked 15.2 Unspecified No

32 122 - Road/Parking Lot Nonstocked 35.8 Unspecified No Quarry Road

34 4190 - Mixed Upland Deciduous with Cedar Poletimber Well 5.1 119 81-110 N/A

This stand was left when the aspen was clearcut because there was no survey at the time. It is mature aspen and birch with an understory of cedar. The southeast side is mainly cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	30	Log/Pole	11		Northern White Cedar	Medium	Variable	Pole
Quaking Aspen	30	Log	14	119	Balsam Fir	Low	Variable	Pole
Paper Birch	30	Pole	8					
White Spruce	10	Log	12					

35 720 - Exposed Rock Nonstocked 1.5 No

36 4134 - Aspen, Spruce/Fir Sapling Medium 47.4 16 Immature N/A

Regen looks decent. The canopy has filled in more since last YOE with more spruce. Still some openings. Aspen is 15-20'

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Sapling	1	
Quaking Aspen	60	Sapling	1	16
White Spruce	20	Sapling	1	
Northern White Cedar	10	Pole/Sapling	6	

37 4110 - Sugar Maple Association Sawtimber Well 9.1 111 81-110 N/A

BA is around 90 or 100. Some ash are still hanging on but many are dead. The sugar maple even is showing die back but it isn't clear why. There is a lot of spruce growing up underneath. There is almost no hardwood regeneration here.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	7	Log	14		Sugar Maple	Trace	Variable	Pole
White Pine	3	XLog	18		White Spruce	Medium	Variable	Sapling
White Spruce	5	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
Sugar Maple	85	Log	15	111				

38 42340 - Upland Spruce/Fir Sapling Well 10.7 24 Immature N/A

Nice regen of aspen and balm, cedar was cut and is regenerating slowly, some residual poles left.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	35	Sapling	3	24
Balsam Fir	25	Sapling	3	
Northern White Cedar	10	Pole	6	
Paper Birch	10	Sapling	3	
Quaking Aspen	10	Sapling	3	24
Balsam Poplar	10	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Poor 56.9 104 51-80 N/A Alvarish looking in areas, unproductive, lots of cedar regen not browsed, rocks and boulders, with heavy brush, fire scared stumps, north is a little more open, pvt line has been painted blue on north and south sides.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Sapling/Pole	5		Deciduous Shrubs	Medium	Variable	Tall Shrub
Balsam Fir	10	Sapling/Pole	4					
White Spruce	25	Sapling/Pole	4					
Northern White Cedar	35	Pole	6	104				
Paper Birch	10	Sapling/Pole	5					
Quaking Aspen	10	Sapling/Pole	5					

40 4134 - Aspen, Spruce/Fir Sapling Medium 49.7 7 Immature N/A Regeneration looks good. Lots of saplings coming in. Cedar and scattered deciduous species remain as retention. Sale 45-008-010-01, cedar reserved.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	2	
Balsam Poplar	5	Sapling	1	
Paper Birch	10	Sapling	1	
Northern White Cedar	5	Pole	6	
Quaking Aspen	60	Sapling	1	7
White Spruce	10	Sapling	2	

41 6239 - Mixed Emergent Wetland Nonstocked 12.6 Unspecified No

42 42390 - Mixed Non-Pine Upland Conifers Poletimber Well 16.3 107 81-110 N/A 2024 Notes: Dense cedar mixed with fir, aspen, and birch. Not a pure cedar stand though. 2014 Notes: Cedar saps approaching pole size, just takes longer on these unproductive sites, boulders and fire scared stumps, more of a mix but still cedar type.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	7		Balsam Fir	High	Variable	Sapling
Paper Birch	10	Pole	7					
Northern White Cedar	45	Pole	6	107				
Balsam Fir	30	Pole/Sapling	5					
White Spruce	5	Pole	8					

43 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 17.9 125 51-80 N/A 2024 Notes: Mix of low quality species. Swimming through balsam fir. Not much volume here. 2014 Notes: Was part of stand 39 in old inventory but too wet and sparse for a sale, unproductive area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	6		Deciduous Shrubs	Medium	Variable	Tall Shrub
Balsam Poplar	5	Pole	6					
Paper Birch	15	Pole	6					
White Spruce	20	Pole	6					
Northern White Cedar	25	Pole	6	125				
Balsam Fir	25	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	229.3	93	51-80	N/A	Mostly cedar with mixed areas of spruce, fir, aspen, birch, and bam. There are small areas with mature aspen over top of cedar.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		10	Pole/Sap/Log	8		White Spruce	
Balsam Fir		5	Sapling/Pole	4		Balsam Fir	
White Spruce		25	Pole	8		Northern White Cedar	
Balsam Poplar		5	Pole	6			
Northern White Cedar		50	Pole/Sapling	6	93		
Paper Birch		5	Pole	6			

45	500 - Water	Nonstocked	2.3		Unspecified	No	
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46	310 - Herbaceous Openland	Nonstocked	13.4	0	Unspecified	4191 - Mixed Upland Deciduous with Conifer	Regeneration hasn't started to come in much yet. There is some small spruce that was already present in the stand. Continue to monitor. Stand was clear cut in 2020 in "Around the Horn" 45-006-18. Cedar, pine, and oak were left.
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47	6120 - Lowland Cedar	Poletimber Well	8.2	113	51-80	N/A	Typical cedar swamp with leather leaf and other bog species.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		60	Pole	6	113	Deciduous Shrubs	
Black Spruce		10	Pole	6		Balsam Fir	
Quaking Aspen		5	Pole	8			
Balsam Fir		5	Pole	6			
White Spruce		10	Pole	6			
Paper Birch		10	Pole	6			

48	42360 - Upland Cedar	Poletimber Well	67.9	114	Unspecified	N/A	Similar to stands farther west, mostly cedar with upland and lowland areas, wet to rocky,
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		20	Pole	10		White Spruce	
Northern White Cedar		60	Pole/Log/Sap	8	114	Northern White Cedar	
Quaking Aspen		5	Pole/Log	10		Balsam Fir	
Balsam Poplar		5	Pole	8			
Balsam Fir		5	Pole	6			
Paper Birch		5	Pole	6			

49	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	9.4	107	111-140	N/A	2024 Notes: Previous inventory had this stand as a majority of aspen and birch. Cedar is the dominant species with fir. A ridge runs thru the stand which has some over mature aspen and birch on it. 2014 Notes: Rocky, not ready for another treatment yet, pvt line is in good.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		25	Pole	6			
Northern White Cedar		40	Pole	8	107		
Quaking Aspen		15	Pole	8			
Paper Birch		15	Pole	6			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
50	42360 - Upland Cedar	Poletimber Well	3.2	90		N/A	Isolated stand on the north point of the entrance to Fairview Cove																																							
51	4134 - Aspen, Spruce/Fir	Sapling Well	13.4	24	Immature	N/A	2024 Notes: Aspen is looking okay. The canopy has filled in more since the last yoe. Stand seems like it was just picked through rather than cleacut. Both scattered trees and pockets of mature trees remain throughout. 2014 notes: Regenerating nicely, open in spots, with brush.																																							
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52	6223 - Inundated Shrub Swamp	Nonstocked	21.9			No																																								
53	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	18.2	104	81-110	N/A	2024: Cedar mixed with the common other species. Scattered canopy closure. 2014 Notes: More of the lowland conifer mix, has a pocket of black ash, and pockets of pure cedar, fire scared stumps,																																							
54	4134 - Aspen, Spruce/Fir	Sapling Medium	44.5	16	Immature	N/A	Regeneration looks good. There are areas of cedar and dense fir that were left during the cutting. Cut in 2014 is Deer Yard Aspen 45-008-10 2014 Note: Regen good, residual ceap poles left, some ares still sparse though.																																							
55	6223 - Inundated Shrub Swamp	Nonstocked	1.5	0	Unspecified	No																																								
56	500 - Water	Nonstocked	73.3			No																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57	42360 - Upland Cedar	Sapling Medium	15.0	29	Immature	N/A	Amazing cedar regen not browsed, residual of cedar and spruce left after harvest, old fire scared stumps.
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	25	Pole/Sapling	5	
Quaking Aspen	5	Sapling	3	
Paper Birch	5	Sapling	3	
Northern White Cedar	60	Pole/Sapling	5	29
Balsam Fir	5	Sapling	2	

58	6239 - Mixed Emergent Wetland	Nonstocked	4.6			No	
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60	4319 - Mixed Upland Forest	Poletimber Medium	24.9	54	51-80	N/A	2024 Note: The stand doesn't look like it's grown much. Mostly aspen with fir and spruce. Not seeing any cedar except for along the edges. The trees are old but small. Some are barely pile sized and many are still saplings. Steep slopes. 2014 Note: Sparse and rocky, low quality and productivity, fire scared stumps, appears to be in perpetual state of regeneration, spectacular views from the bluff on the west and north side, worth a look.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Pole/Sapling	5	54
Balsam Poplar	5	Pole/Sapling	5	
Balsam Fir	20	Sapling/Pole	4	
Northern White Cedar	5	Pole	6	114
White Spruce	20	Sapling/Pole	4	
Paper Birch	10	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Spruce	Medium	Variable	Sapling
Deciduous Shrubs	Medium	Variable	Tall Shrub

61	4134 - Aspen, Spruce/Fir	Poletimber Well	5.7	100	81-110	N/A	2024 Notes: The stand is over mature. Blow down and snags throughout. Old notes say this was retention. 2014 Notes: Looks like part of an old harvest that was left, leave as a buffer between recent harvests and for diversity.
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	15	Pole	8	
Paper Birch	10	Pole	6	
Quaking Aspen	40	Log/Pole	11	100
Balsam Poplar	10	Pole	8	
Balsam Fir	15	Pole	6	
Northern White Cedar	10	Pole	8	

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

62	6120 - Lowland Cedar	Poletimber Well	41.4	116	141-170	N/A	2024 Note: Cedar with spruce and some over mature aspen scattered about. 2014 Note: Lowland but not wet, fire scared stumps.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Log	12	
Paper Birch	5	Pole	8	
White Pine	5	Log	14	
Northern White Cedar	60	Pole	8	117
Black Spruce	5	Pole	6	
Black Spruce	20	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
63	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	60.2	121	81-110	N/A	2024 Notes: The stand seems more cedar dominated than in the previous inventory but not quite enough to be a C stand. Deciduous species are dieing out. 2014 Notes: Like stand 44, however, separated by a huge wetland, lots of cedar regen in the under and over story and deer are not browsing it, a small patch of red pine at south end, scattered white pine.																																														
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64	6112 - Lowland Aspen	Sapling Well	7.4	23	Immature	N/A	2024 Notes: Stand of aspen, birch, fir, and cedar. Higher quality trees in the south where it's more upland. Slopes down to the north and trees get much smaller and shorter. Dense cedar in spots.																																														
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65	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	31.9	98	51-80	N/A	Cedar but with a higher component of other species, especially spruce. Pole size, low productivity																																														
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66	710 - Sand, Soil	Nonstocked	1.5			No																																															
67	42360 - Upland Cedar	Poletimber Well	8.9	98	Unspecified	N/A	Cedar with a mix of other species.																																														
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68	6229 - Mixed lowland shrub	Nonstocked	16.0		Unspecified	No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
69	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	14.4	25	Immature	N/A	2024 Note: This stand is young cedar mixed with spruce. Most trees are 10-15' high. 2-3" DBH. There is some taller aspen on the east end of the stand. 2014 Note: More cedar regen than you can imagine, take a look, there is no shortage of cedar regen in this comp and this stand shows it!																																															
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70	42360 - Upland Cedar	Poletimber Well	27.7	58	51-80	N/A	2024 Notes: Dense but low quality cedar with some rough looking aspen scattered in. Lots of boulders. 2014 Notes: Thick with regen of balsam and cedar and deer are not browsing it, low quality though, rocky, huge boulder mountain in the middle, fire scared stumps.																																															
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72	42360 - Upland Cedar	Sawtimber Well	46.0	150	111-140	N/A	2024 Note: Cedar of variable sizes but no clear age classes. The stand is on a ridge the slopes down to the waters edge. It does look like there is some deer activity. 2014 Note: Power line through stand, very similar to other stands adjacent to this, fire scared stumps, measured a 30 inch cedar down near the water, may have been picked over at one time, it has areas of regen in the 4-5 inch range, but no cutting history was found.																																															
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73	42360 - Upland Cedar	Poletimber Well	5.3	94	Unspecified	N/A	Power line through stand, island along the road, cedar in the understory, accessible but too rocky, similar to other stand nearby.																																															
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74	6239 - Mixed Emergent Wetland	Nonstocked	7.9			No																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76	6120 - Lowland Cedar	Sapling Well	15.9	66	1-50	N/A	Dense small diameter cedar with some spruce.
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White Spruce	10	Sapling/Pole	4	
Black Spruce	20	Sapling/Pole	4	
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Paper Birch	5	Sapling/Pole	4	