Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45057
Entry Year 2027
Acreage: 1,928
County: Chippewa
Management Area: Rudyard Silty Lake Plain

Stand Examiner: Louis Radecki

Legal Description:

T44N R1E Sec 25, 26, 34, 36

Identified Planning Goals:

To regenerate mature aspen and balsam poplar stands to develop a sustainable age class distribution regime for those species and enhance wildlife habitat. To prescribe treatments in the lowland areas which are conducive to protecting water quality. To rotate hardwood harvests for optimal regeneration and stocking of all age classes for sustainability as well as providing habitat for various species. To maintain openings as needed to manage for wildlife habitat, including waterfowl. To provide reasonable public access for multiple use recreation such as hunting, trail riding, camping, and hiking, while protecting the natural resources.

Soil and topography:

Kalkaska-Rubicon: deep, level to steep, excessively drained sandy soils on outwash plains and ground moraines on the west side. Markey Dawson: deep, level, poorly drained mucky and peaty soils on outwash plains, lake plains, and ground moraines on the east side. Topography is flat on the west side to the ridge leading down into the Gogomain swamp on the east side.

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

The compartment is two blocks separated and surrounded by private land, mostly active farms, on the south and west side. Some hunting camps on the private parcels within and surrounding the compartment. The north side is State land and the east side is Munuscong Bay. Land use is hunting, trail riding, and timber and wildlife management. Landscape level management is limited here but proper planning is crucial to sustainability.

Unique Natural Features:

Munuscong Bay borders the east side.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Munuscong Bay

Watershed and Fisheries Considerations:

This compartment contains Lake Huron shoreline along Munuscong Bay within the St. Marys River. Munuscong Bay provides important spawning and nursery habitat for walleye. Recommend that a buffer strip (no clear cutting) of at least 100 feet be maintained in Stand 18, and that best management practices be applied to minimize erosion and sedimentation into Munuscong Bay.

Wildlife Habitat Considerations:

This compartment is part of the Rudyard Silty Lake Plain Management Area where featured wildlife species include blackburnian warbler, American marten, ruffed grouse, sharp-tailed grouse snowshoe hare, and white-tailed deer. The compartment is adjacent to Munuscong Bay and is in the southern part of the Munuscong Bay State Wildlife Management Area. Lowland types ranging from marsh and lowland hardwoods to cedar dominate close to the bay. Near-shore areas provide nesting habitat for some raptors and cavity-nesting waterfowl as well as other migratory bird species. Further inland, aspen, northern hardwoods, and some red pine stands are present. A prominent ridge runs from northwest to southeast through part of the compartment. The southern end of the compartment is in deer wintering complex. Wildlife objectives include maintaining stands close to the bay to provide nesting habitat for cavity-nesting waterfowl and raptors as well as shoreline areas for marsh birds and other species, maintaining conifer cover in the deer wintering complex, maintaining aspen where it exists, and promoting diversity in northern hardwoods. Most planned management is on the southwestern part of the compartment. Stands in deer wintering complex will generally be cut during the winter months so tops are available as browse for deer. Young deciduous growth resulting from some management activities will favor

American woodcock, deer, and ruffed grouse among others. Mast sources will generally be retained to maintain or increase food sources. Activities should be conducted in accordance with the Munuscong Bay State Wildlife Management Area Management Plan.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel, peat and muck, and coarse-textured till. The glacial drift thickness varies between 50 and 200 feet. The Ordovician Richmond Group subcrops below the glacial drift. Some of the units of this group could be used for stone. There may be a small gravel pit in Section 35 as well as one in Section 3 (T43N R1E) and a larger pit in Section 11 (T43N R1E) less than two miles south of the compartment. Sand and gravel potential appears to be good in this area. There is no current economic oil and gas production in the UP.

Vehicle Access:

Gogomain road and 23 mile road provide access to this compartment. The two roads are connected by a county road which is gated off but also used as the snowmobile trail. From these main roads several other two tracks can be accessed.

Survey Needs:

Multiple corners will be needed before setting up a timber sale in this area.

Recreational Facilities and Opportunities:

The snowmobile trail goes through but no facilities exist. Hunting is a primary activity.

Fire Protection:

Good access to the south and west parts. Limited access to the north and east through private property. Water sources are scarce but can be found a few miles away in the surrounding areas.

Additional Compartment Information:

A Forest Treatment Proposal (FTP) has been approved to treat invasive phragmites and frogbit along the Munuscong Bay shoreline. Treatments as per work instructions and FTP may occur along the shoreline as necessary to slow the colonization of invasive species.

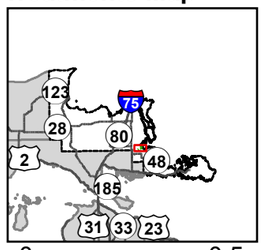
The following reports from the Inventory are attached:

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



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Unit: Sault Ste. Marie
Mgmt. Area: Rudyard Silty Lake Plain
YOE: 2027
Acres: 1,928 GIS Calculated
Examiner: Louis Radecki
Date Exported: 7/18/2025
Map Phase: Web Post

N

0 0.5 1 Miles

- Survey Grade Corners
- Cabin
- House
- Berms
- Gate
- Designated ORV Routes
- Designated Snowmobile Trails
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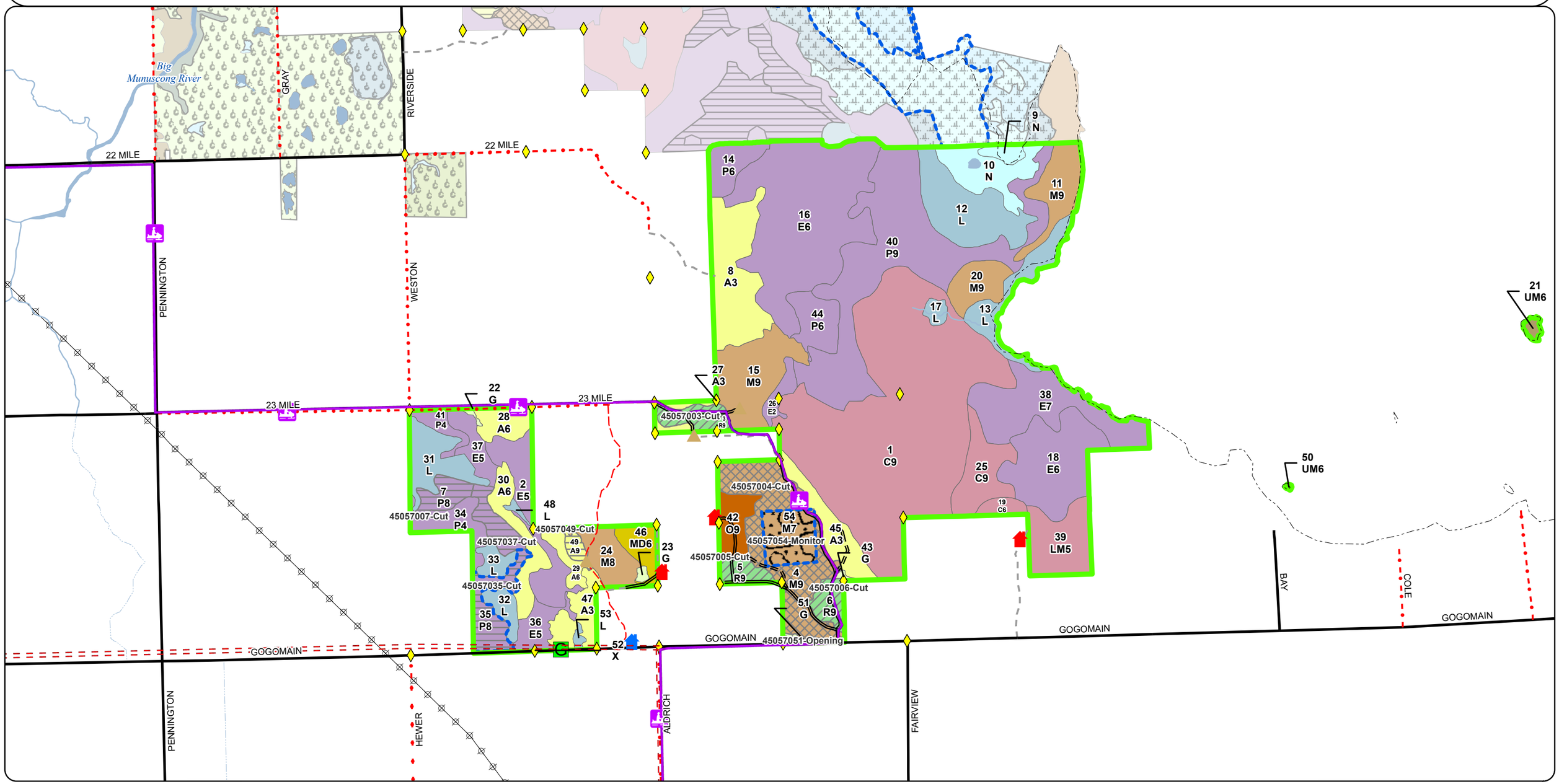
- Clearcut
- Selection
- Thinning
- Openings Mgmt.
- Monitoring
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland



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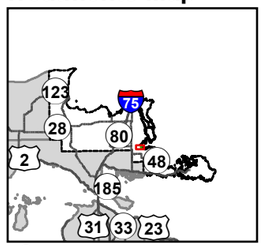

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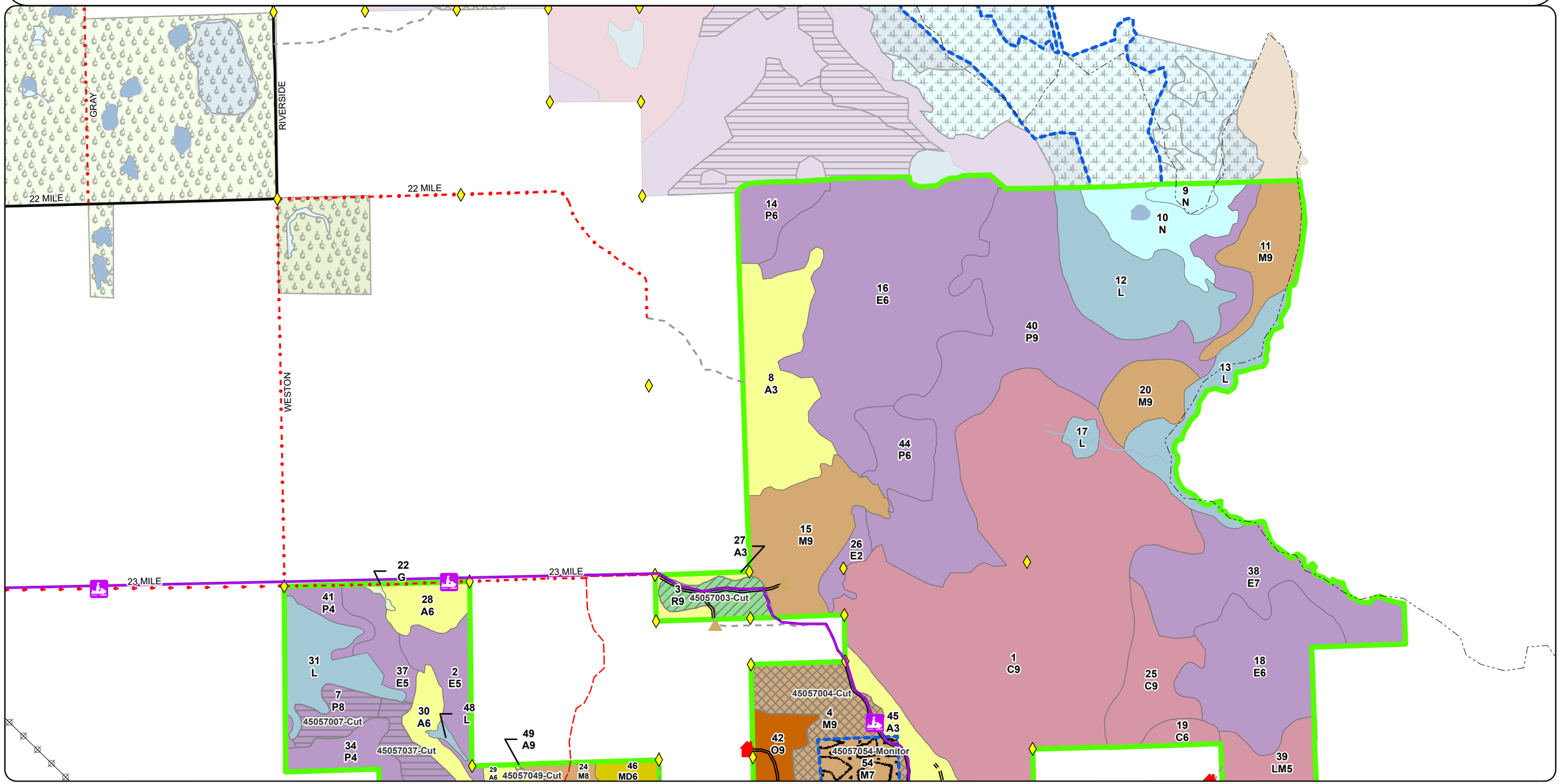

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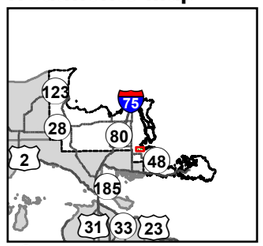

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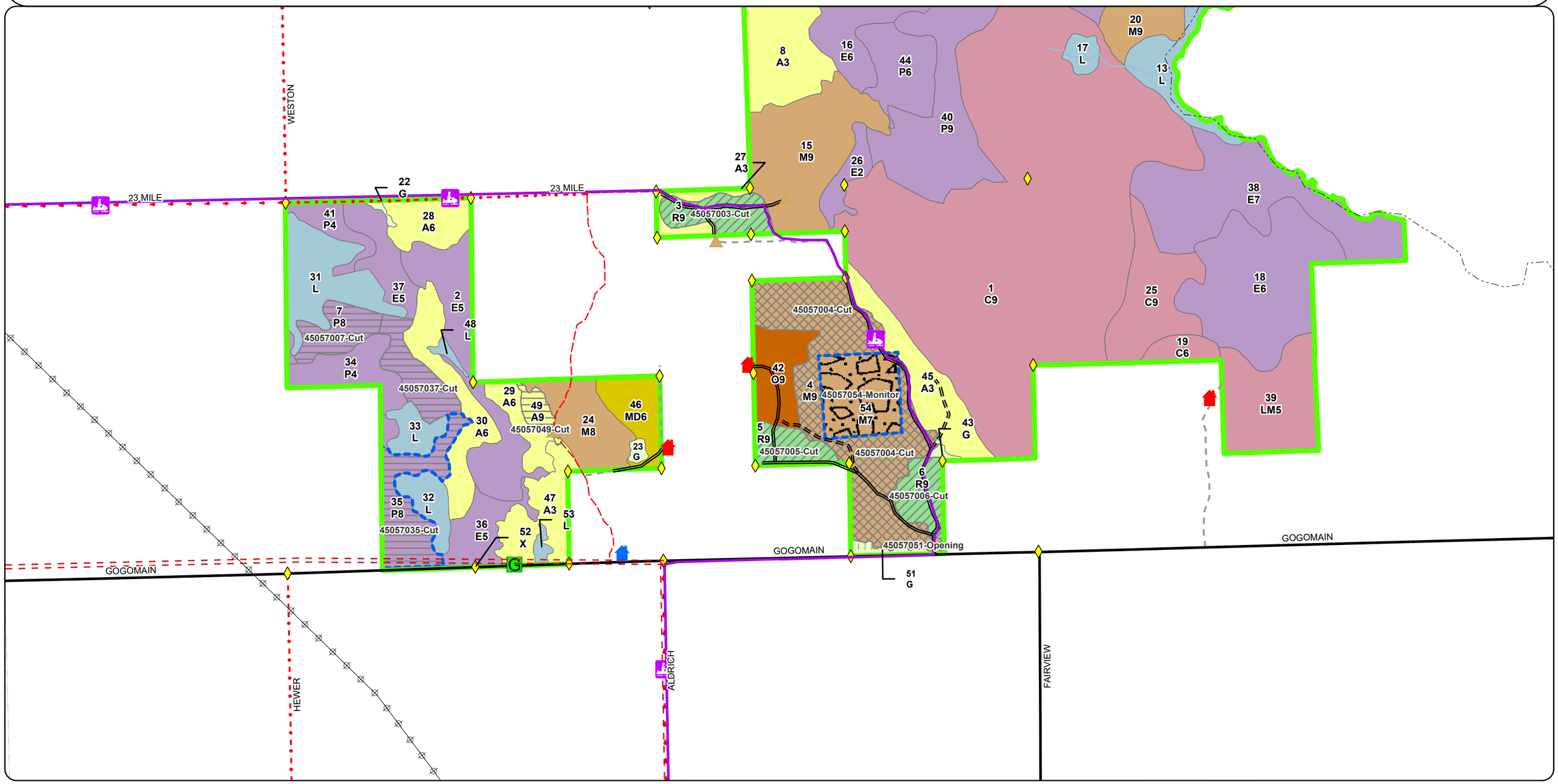
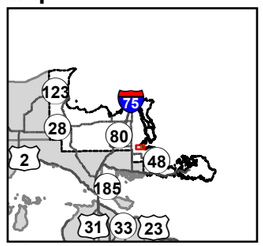


Stand Boundary Map



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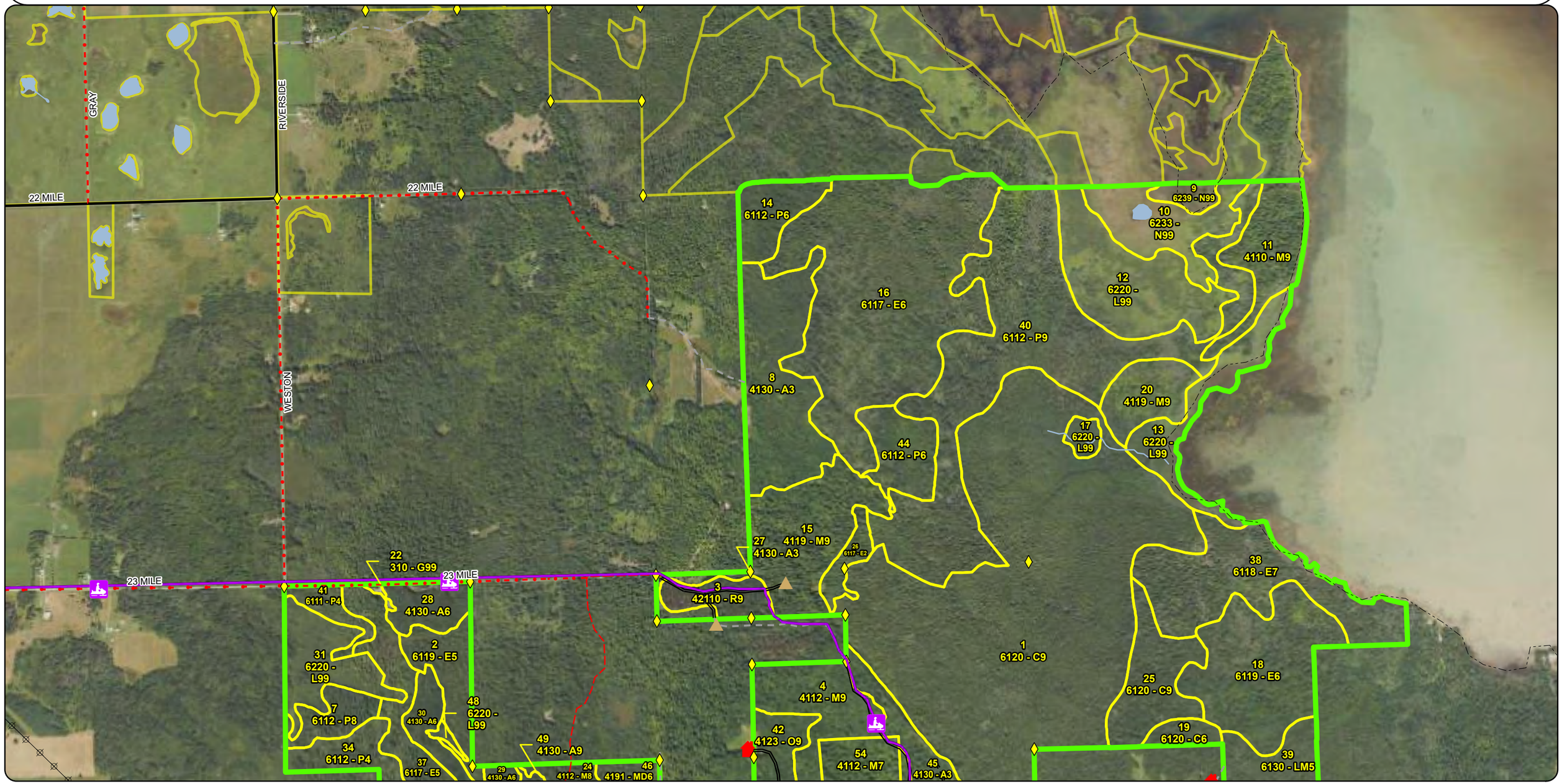

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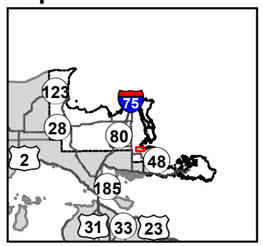

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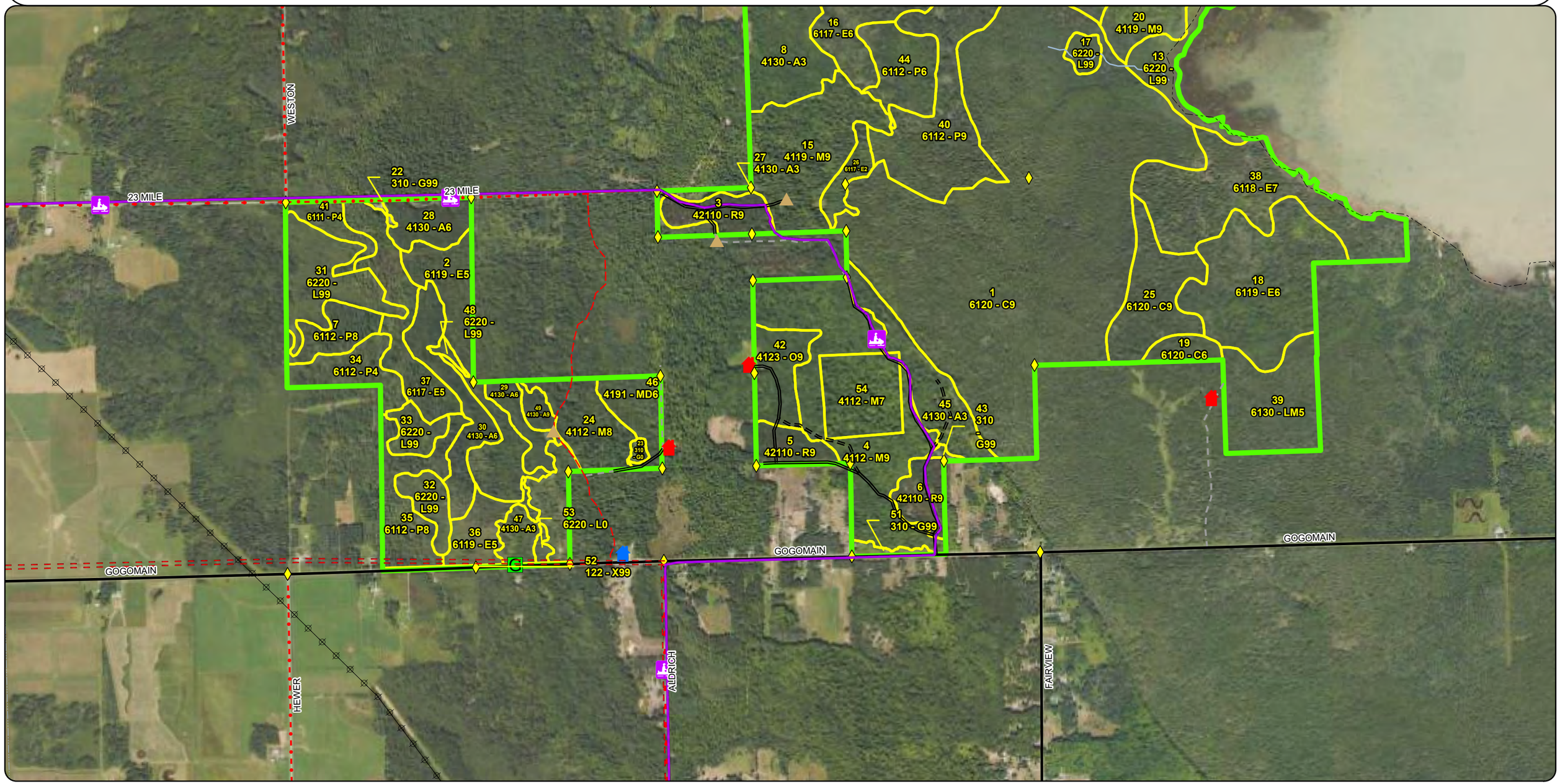
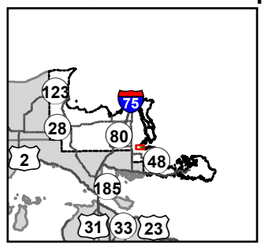


Special Conservation Areas & Site Conditions Map



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- Stand Boundaries
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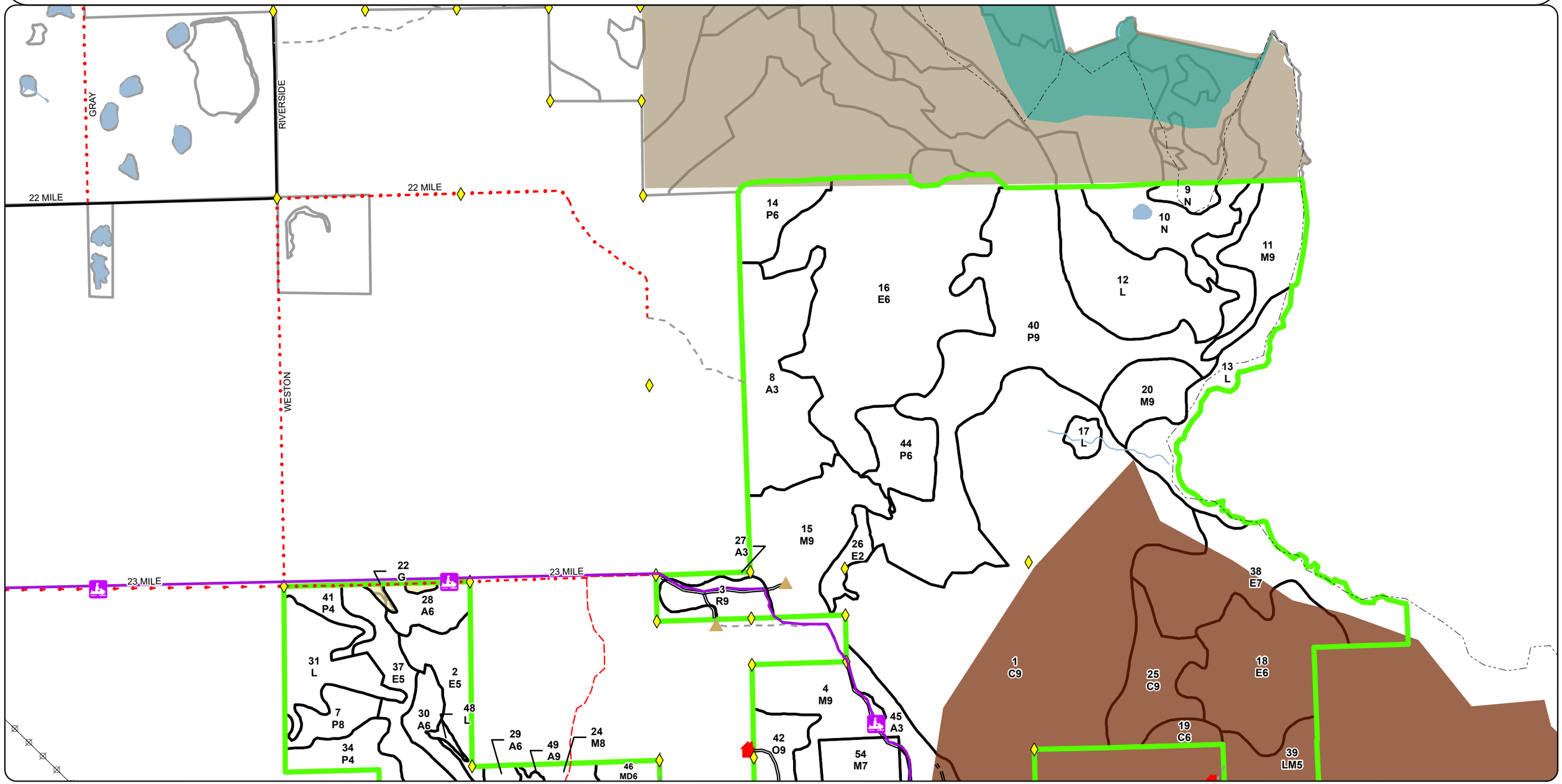
- Dedicated Management Areas
- SCA
- Deer Winter Range
- Sand or Gravel Pit



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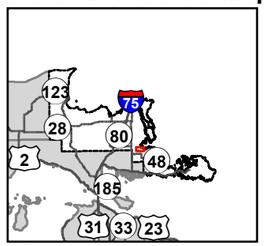

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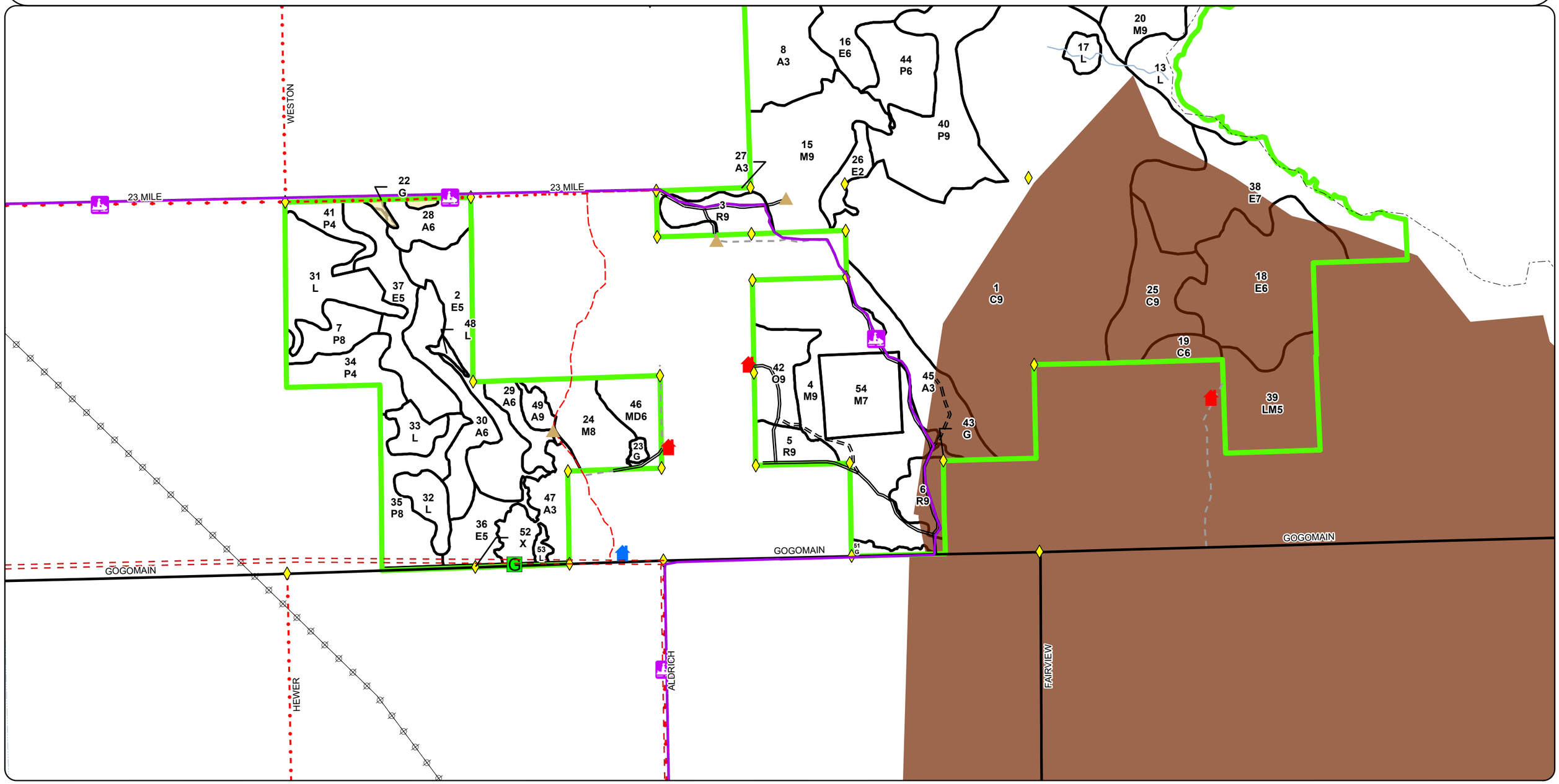

Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 57** **Year of Entry 2027**

Louis Radecki: Examiner

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	61	70	0	55	0	0	6	0	0	0	0	0	0	0	0	0	0	**192**
Cedar	0	0	0	0	0	0	0	0	8	0	0	0	0	36	373	0	0	0	**417**
Exposed Rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Lowland Aspen/Balsam Poplar	0	0	0	21	25	10	20	0	28	182	0	15	0	0	0	0	0	0	**301**
Lowland Deciduous	0	0	10	0	0	0	0	91	182	33	117	0	0	0	0	0	0	0	**432**
Lowland Mixed Forest	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	**43**
Lowland Shrub	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**158**
Marsh	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**43**
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	**16**
Northern Hardwood	0	0	0	0	0	0	0	0	0	110	84	57	0	0	0	0	0	0	**251**
Oak	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	**21**
Red Pine	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	**42**
Upland Mixed Forest	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	**4**
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Total	**210**	**61**	**80**	**21**	**80**	**10**	**24**	**182**	**218**	**342**	**201**	**93**	**0**	**36**	**373**	**0**	**0**	**0**	**1929**

Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2027

Compartment 57
Total Compartment Acres: 1,928

Acres of Harvest

Commercial Harvest - 357
Harvests with Site Condition - 52
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	6	0	0	0	0	0	0	0	0	**6**
Lowland Aspen/Balsam Poplar	40	0	0	0	0	0	0	0	0	**40**
Lowland Deciduous	16	0	0	0	0	0	0	0	0	**16**
Northern Hardwood	0	81	0	0	0	0	0	0	0	**81**
Red Pine	0	0	0	0	0	42	0	0	0	**42**
Total	**62**	**81**	**0**	**0**	**0**	**42**	**0**	**0**	**0**	**185**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	185	0	0	0	0	0	29	0	0	**217**
Next Step	0	0	0	0	0	0	227	0	0	**227**
Total	**185**	**0**	**0**	**0**	**0**	**0**	**256**	**0**	**0**	**443**

Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
3	45057003-Cut	16.1	42110 - Planted Red Pine	9	63	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No

Prescription Specs: Thin stand to 120 BA. Avoid non-target species where possible to provide greater stand diversity.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

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
4	45057004-Cut	81.0	4112 - Maple, Beech, Cherry Association	9	87	81-110	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No

Prescription Specs: Create gaps in accordance with northern hardwood management guidance. Gaps will range in size from 0.2 acres to .7 acres (approx 50' - 100' radius). Focus gaps on areas where "robust" regeneration (seedlings > 2.5' in height) are present. Total gap area

Next Step Treatments: Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Sugar maple, red maple, oak, basswood, yellow birch, hemlock, pine.

Other Comment: Look for opportunities to promote underrepresented species. Place gaps to avoid the harvest of underrepresented species.Utilize larger gap sizes adjacent less shade tolerant species such as oak, yellow birch, and basswood.

Site Condition:

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
5	45057005-Cut	12.0	42110 - Planted Red Pine	9	63	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No

Prescription Specs: Thin stand to 120 BA. Avoid non-pine species where possible to promote diversity.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

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6	45057006-Cut	13.9	42110 - Planted Red Pine	9	63	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No

Prescription Specs: Thin stand to 120 BA. Avoid harvesting oak or maple where possible for diversity.

Next Step Treatments:

Acceptable Regen: pine, oak

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

7	45057007-Cut	14.2	6112 - Lowland Aspen	8	101	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No

Prescription Specs: Harvest all trees down to 2 inches. Do not cut Cedar, oak, pine, or hemlock. Winter cut only due to wet ground conditions.

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

Acceptable Regen: Aspen, Balsam poplar, spruce, fir, maple

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

35	45057035-Cut	26.1	6112 - Lowland Aspen	8	75	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No

Prescription Specs: Cut all trees to 2" DBH. Do not cut yellow birch, cedar, hemlock, oak, pine. Winter cut only due to wet ground conditions.

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

Acceptable Regen: aspen, balsam poplar, spruce, fir, birch, maple

Other Comment: Retention will be provided by portion of stand represented by site condition 5E-9.

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

37	45057037-Cut	16.3	6117 - Lowland Deciduous, Mixed Coniferous	5	81	81-110	Harvest	Clearcut	6117 - Lowland Deciduous, Mixed Coniferous	Planting Record	No

Prescription Specs: Cut all trees down to 2" DBH. Do not cut cedar, yellow birch, oak, pine, or hemlock. Winter cut only due to wet ground conditions.

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

Acceptable Regen: Balsam poplar, aspen, birch, maple fir, spruce.

Other Comment: Only cutting southern half of the stand. Retention goals will be met by the no-cut species.

Site Condition:

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
49	45057049-Cut	5.5	4130 - Aspen	9	67	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No

Prescription Specs: Cut all trees down to 2" except do not cut red oak, hemlock, or pine.

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

Acceptable Regen: aspen, red maple, spruce, fir. paper birch

Other Comment:

Site Condition:

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
51	45057051-Opening	2.5	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No

Prescription Specs: Remove scotch pine

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

Acceptable Regen: It will be acceptable for this stand to regenerate to natural species such as maple, aspen, jack pine, red pine, white pine, cherry, fir spruce, oak.

Other Comment: Percent to Treat = 100%

Site Condition:

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
54	45057054-Monitor	29.0	4112 - Maple, Beech, Cherry Association	7	87	1-50	Monitoring	Monitoring	4112 - Maple, Beech, Cherry Association	Planting Record	No

Prescription Specs: Monitoring of research results to be done by MSU (MWR research project)

Next Step Treatments:

Acceptable Regen: maple, cherry, oak, aspen, basswood

Other Comment:

Site Condition: Research Study

Proposed Start Date: 10/01/2026

Total Treatment Acreage Proposed: 216.6

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Louis Radecki: Examiner

Compartment: 57

Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		**Dominant Site Conditions**									
					2B	***2I***	***5B***	***5C***	5G	2F	3H	3L	5D	5E
171	161	***0***	11	**Aspen**						6				5
417	0	***0***	417	**Cedar**							239	178		
0	0	***0***	0	**Exposed Rock**										
7	7	***0***	0	**Herbaceous Openland**										
287	56	***26***	205	**Lowland Aspen/Balsam Poplar**		***26***						182	20	3
362	207	***132***	23	**Lowland Deciduous**	***74***			***58***				23		
43	43	***0***	0	**Lowland Mixed Forest**										
158	158	***0***	0	**Lowland Shrub**										
10	7	***0***	3	**Marsh**								3		
16	17	***0***	0	**Mixed Upland Deciduous**										
251	165	***29***	57	**Northern Hardwood**					29			57		
20	0	***20***	0	**Oak**			***20***							
42	42	***0***	0	**Red Pine**										
4	4	***0***	0	**Upland Mixed Forest**										
2	2	***0***	0	**Urban**										
1,789	868	***206***	715	Total Forested Acres	***74***	***26***	***20***	***58***	29	6	239	443	20	7
	49%	***12%***	40%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	**Available**	**5B: Maintain for regeneration purposes**	20	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: The stand was opened up last time it was harvest and it is not yet ready for another treatment.						
2	**Unavailable**	**3L: Other wildlife concerns**	33	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments: Hardwood island with no access. Stand is within a half mile of the water therefore according to the Munuscong plan it should not be harvested and allow to function naturally.						

3	**Unavailable**	**3L: Other wildlife concerns**	24	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified

Comments:

Hardwood island with no access. Stand is within a half mile of the water therefore according to the Munuscong plan it should not be harvested and allow to function naturally.

4	**Unavailable**	**5D: Unproductive forest land**	20	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified

Comments:

5	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	16	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

6	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

7	**Unavailable**	**3L: Other wildlife concerns**	23	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Shoreline buffer

8	**Unavailable**	**3L: Other wildlife concerns**	173	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Wildlife would like to leave this shoreline stand for cavity nesters and for raptor nests.

9	**Unavailable**	**5E: Long-Term Retention**	2	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

10	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	30	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
North portion of this stand should be looked at again in 10 years.

11	**Available**	**5G: Research Study**	29	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
MSU research plot

12	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	74	2I: Survey needed	Unspecified	Unspecified	Unspecified

Comments:
Site Condition will be removed if adjacent landowner allows access.

13	**Unavailable**	**2F: Too steep**	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified

Comments:

14	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	12	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
This treatment is available as an optional unit on the adjacent timber sale. If they do not cut it we will add this area to the portion of the stand to the north.

15	**Unavailable**	**5E: Long-Term Retention**	5	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Area with hemlock/white pine and vernal ponds being left for retention and habitat connectivity.

16	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	239	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	**Unavailable**	**3L: Other wildlife concerns**	191	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Other half of the cedar stand which was not included in the deer yard.							
19	**Available**	**2I: Survey needed**	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
Chippewa County Road Commission	Mineral Resource Area	Sand or Gravel Pit	**SCA**	3

Comments

Report 7 – Stands

Compartment: 57
Year of Entry: 2027

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6120 - Lowland Cedar	Sawtimber Well	373.0	136	171-200	N/A	Obvious spruce budworm damage in this stand. Some areas of very large cedar and other of sapling size depending on how wet it is. Very thick understory. There were some strips cut in the west side of this stand about 40 years ago. They have regenerated to very dense balsam fir.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Seedling	6	
Northern White Cedar	77		15	136
Red Maple	2	Seedling	5	
Paper Birch	3		8	
Balsam Poplar	2	Seedling	9	
White Pine	1		22	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Medium	Variable	Variable
Labrador Tea	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	High	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
2	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	42.1	93	51-80	N/A	Mostly red maple with paper birch. Lots of balsam fir in the understory. According to the OI notes this stand was picked over when the adjacent stand was clearcut. The north half of the stand does not have a very thick canopy but the southern portion is more closed and has less balsam fir. A patch of lowland ash in the very southern part of the stand. Generally spotty canopy cover throughout. Lots if low areas with tag alder. Heights of trees generally low

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	2	Seedling	9	
Red Maple	44		9	93
Paper Birch	15		9	
Bigtooth Aspen	15		9	
Black Ash	10	Seedling	7	
Red Oak	1	Seedling	7	
White Spruce	5	Seedling	8	
Black Spruce	5	Seedling	8	
Northern White Cedar	2		13	
White Pine	1		14	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
3	42110 - Planted Red Pine	Sawtimber Well	16.1	63	171-200	N/A	Stand was last thinned as part of Trail Cam Mix in the fall of 2017. Stand was planted in 1962 and was thinned in 2009 as part of the Little Pine Block sale. There are a few scattered trees in the canopy of other species mostly paper birch. There is a mild amount of regen coming up in the understory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	90		12	63
Quaking Aspen	2		10	
Red Maple	2	Seedling	9	
Paper Birch	2		11	
White Spruce	2		9	
White Pine	2		15	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Medium	10 - 20 feet	10 - 20 feet
White Pine	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
Striped Maple	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81.0	87	81-110	N/A	There is a MWR sale in this stand that was cut in Dec. 2017. The remainder of the stand was last thinned in 2008 as part of Deer Trails Hardwood. Nice stand of hardwood with little underbrush. Regen is starting to come up after thinning.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	1		15	
Red Oak	15		19	
Yellow Birch	1		18	
Ironwood	3	Seedling	7	
Sugar Maple	50		12	87
Red Maple	30		15	87

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	< 5 feet	< 5 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Medium	< 5 feet	< 5 feet
Red Oak	Low	< 5 feet	< 5 feet
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
5	42110 - Planted Red Pine	Sawtimber Well	12.0	63	171-200	N/A	Stand was thinned in the fall of 2017 as part of Trail Cam Mix. Stand was planted in 1962 and third row thinned in 1999. In the few spots where the canopy is thinner there is a decent amount of hardwood regeneration coming in.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100		11	63

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Red Oak	Medium	10 - 20 feet	10 - 20 feet
Ironwood	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	42110 - Planted Red Pine	Sawtimber Well	13.9	63	141-170	N/A	Stand was last thinned in the fall of 2017 as part of Trial Cam Mix. Stand was planted in 1962 and third row thinned in 1999. Some areas of this stand have space in the canopy to support undergrowth species. Other areas have smaller diameter (9") trees at higher spacing (190-200 BA).

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100		10	63

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	6112 - Lowland Aspen	Sawtimber Medium	15.2	101	81-110	N/A	This stand was separated from stand 37 due to species and size differencess. The aspen is beginning to die out of the stand and red maple seedlings are growing well in the newly formed gaps.If not harvested, stand composition will transition to maple.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Seedling	5	
White Spruce	5		14	
Balsam Poplar	3		9	
Red Maple	15		9	81
Paper Birch	2		9	
Bigtooth Aspen	70		18	101

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Hazelnut (Beaked)	Medium	5 - 10 feet	5 - 10 feet
Red Maple	High	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4130 - Aspen	Sapling Well	69.6	16	Immature	N/A	Stand was cut in 2009. Regen is doing awesome. Some scattered cedar, yellow birch and oak were left during the harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Log	3	
Balsam Fir	1	Seedling	9	
Quaking Aspen	83	Pole	4	16
Ironwood	2	Log	4	
Red Oak	3		15	
Red Oak	7	Log	3	
Northern White Cedar	2		9	

Stand	Level 4 Cover Type	Size Density	Acres	Managed Site
9	6239 - Mixed Emergent Wetland	None	7.0	No
10	6233 - Wet Meadow	None	36.1	No

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	4110 - Sugar Maple Association	Sawtimber Well	33.3	105	111-140	N/A	high and dry ridge of maple and ash. Cedar and ash along the outside edges of the stand.Stand was remote viewed 5/28/2025 - data is from survey conducted 1/23/2015
12	6220 - Alder/Willow	None	61.8			No	Some scattered aspen are growing in this stand.
13	6220 - Alder/Willow	None	33.3			No	Stand includes areas of wet meadow and an aspen clone. willow also present along the shore.
14	6112 - Lowland Aspen	Poletimber Well	21.2	24	1-50	N/A	Stand was cut in 2001. The ash is in poor health.
15	4119 - Mixed Northern Hardwoods	Sawtimber Well	58.0	96	81-110	N/A	Nice hardwood stand that has a steep ridge running from the south east to the northwest. Last thinned in fall of 2017 and in 2000 before that. As you head east toward lower ground the stand transitions into more red maple and hemlock. Some good areas with large diameter CWD. There is great regeneration filling the canopy gaps from the thinning.Small hemlock grove in the northeast corner.

Stand 11

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60		13	105
Basswood	15		13	
White Ash	15		12	
Northern White Cedar	5	Seedling	9	
Balsam Fir	5	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	5 - 10 feet	5 - 10 feet
Conifers	Low	Variable	Variable

Stand 13

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Low	10 - 20 feet	10 - 20 feet
Willow spp.	Medium	10 - 20 feet	10 - 20 feet

Stand 14

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling	5	24
Black Ash	13	Log	3	
Balsam Fir	7	Seedling	5	
Northern White Cedar	5		13	
Red Maple	5	Log	1	
Bigtooth Aspen	20	Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Hazelnut (Beaked)	Low	< 5 feet	< 5 feet
Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Black Ash	High	5 - 10 feet	5 - 10 feet

Stand 15

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	2	Seedling	9	
Basswood	2		20	
Red Oak	15		16	
Hemlock	5		20	
Sugar Maple	48		13	96
Red Maple	28		13	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	5 - 10 feet	5 - 10 feet
Ironwood	Low	10 - 20 feet	10 - 20 feet
White Ash	Low	5 - 10 feet	5 - 10 feet
Red Maple	High	5 - 10 feet	5 - 10 feet
Striped Maple	Low	5 - 10 feet	5 - 10 feet
Red Oak	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	181.6	72	111-140	N/A	Stand is mostly E type dominated by ash and BAM. Some areas of P type. Scattered pockets of large cedar. Very wet stand.Much of the ash is in poor condition with lots of epicormic branching and stump sprouts. Doubtful if a transition to tag alder could be prevented if cut.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5		13	
Black Ash	35	Seedling	7	72
Balsam Poplar	15		8	
White Spruce	5		10	
Northern White Cedar	10		15	
Red Maple	5		8	
Paper Birch	5		9	
Green Ash	11		9	
American Elm	2	Seedling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Aspen (spp.)	Low	5 - 10 feet	5 - 10 feet
Ash (spp.)	High	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Maple (spp.)	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	6220 - Alder/Willow	None	5.2			No	old beaver flooding.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	75.3	60	81-110	N/A	Stand is variable with pockets of real nice aspen along with areas of poor quality ash and patches of pole size red maple. A lot of the large aspen has started to die off, transitioning most of the stand to pole sized maple.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	15	Seedling	7	
Northern White Cedar	8		13	
Balsam Fir	8	Seedling	8	
Balsam Poplar	10		12	
Red Maple	30	Seedling	9	60
Paper Birch	7		9	
Green Ash	5		13	
Yellow Birch	2	Seedling	9	
Quaking Aspen	10		10	
Quaking Aspen	5		18	84

Sub-Canopy Species	Density	Avg. Height	Size
Ash (spp.)	Medium	Variable	Variable
Striped Maple	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	Variable	Variable
Red Maple	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	6120 - Lowland Cedar	Poletimber Well	7.7	79	111-140	N/A	Thick stand of smaller diameter cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	10	Seedling	5	
Balsam Fir	20	Sapling	6	
Red Maple	10		9	
Northern White Cedar	50		7	79
Balsam Poplar	10	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	< 5 feet	< 5 feet
Ash (spp.)	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable
Northern White Cedar	Low	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	4119 - Mixed Northern Hardwoods	Sawtimber Well	24.1	102	111-140	N/A	A lot of the larger trees in this stand are starting to die. Great regen is coming in underneath. More conifer is mixed in along the edges of the stand. Much if the ash has died. Ash and maple have established themselves in the gaps

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5		16	
Ironwood	5	Seedling	6	
White Spruce	5		14	
Northern White Cedar	5		14	
Sugar Maple	40		14	102
Sugar Maple	15	Seedling	5	20
Red Maple	5		12	
Green Ash	10	Pole	4	20
Green Ash	10		14	102

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	10 - 20 feet	10 - 20 feet
Ash (spp.)	High	Variable	Variable
White Spruce	Medium	Variable	Variable
Sugar Maple	High	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	4319 - Mixed Upland Forest	Poletimber Well	3.2	50	51-80	N/A	DNR owned Island previously not mapped in MIFI
22	310 - Herbaceous Openland	None	1.0			No	Open area used as a landing and turn around.
23	310 - Herbaceous Openland	Unspecifed	1.7			No	A few clumps of trees and scattered saplings growing in a grassy area.
24	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	25.8	93	81-110	N/A	Stand was thinned in the fall of 2017 as part of Trail Cam Mix. Nice maple stand. A few scattered Balsam fir very little in the sub canopy. Patches of poor regeneration, but otherwise sufficient. Will remove monitoring treatment.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5		9	
Red Oak	2		15	
White Spruce	2		11	
Hemlock	2		13	
Sugar Maple	57		12	93
Red Maple	30		11	
Paper Birch	2	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Striped Maple	Medium	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Full	< 5 feet	< 5 feet
Red Oak	Low	< 5 feet	< 5 feet
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Red Maple	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	6120 - Lowland Cedar	Sawtimber Well	36.1	121		N/A	This is an area of Cedar mixed with more species of the E stands to the east and north. Contains more open patches and provides good habitat.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	6		12	
Paper Birch	3		14	
Northern White Cedar	85		12	121
Balsam Fir	6	Seedling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	5 - 10 feet
Green Ash	Medium	5 - 10 feet	5 - 10 feet
Black Ash	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	9.5	16	Immature	N/A	Stand was cut as part of Hi-Lo Aspen which was completed in 2009. The stand is regenerating well. Occasional overstory oak, hemlock, and yellow birch exist

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	17	Pole	2	
Red Maple	50	Pole	4	16
Paper Birch	3	Log	2	
Yellow Birch	5		14	
Quaking Aspen	5	Log	1	
Pin Cherry	5	Log	2	
Red Oak	10	Seedling	5	
Hemlock	5	Seedling	9	

Sub-Canopy Species	Density	Avg. Height	Size
Flowering Raspberry	High	5 - 10 feet	5 - 10 feet
Hazelnut (Beaked)	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	4130 - Aspen	Sapling Well	6.9	8		N/A	Stand was cut in fall of 2017. All white pine, cedar, oak and hemlock was left.Regeneration is very strong in the south.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log	1	
Red Oak	2		14	
Northern White Cedar	3		12	
White Pine	5		18	
Quaking Aspen	85	Log	3	8

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	< 5 feet
Red Oak	Low	< 5 feet	< 5 feet
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	4130 - Aspen	Poletimber Well	17.0	37	51-80	N/A	Stand was cut in 1988 as part of the Tiny Trespass sale. Stand is well stocked with pole trees. Wet spots have regenerated with tamarack and tag alder.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Seedling	6	37
Black Cherry	2	Pole	4	
Red Maple	10	Sapling	6	
Paper Birch	3	Seedling	6	
Bigtooth Aspen	45	Seedling	6	37
Balsam Fir	5	Seedling	8	
Tamarack	10	Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Low	5 - 10 feet	5 - 10 feet
Aspen (spp.)	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	< 5 feet	< 5 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	4130 - Aspen	Poletimber Well	10.5	35	141-170	N/A	Stand was cut in 1990 and has regenerated very nicely. A few scattered oak in this stand. A nice pole stand, should be let to grow longer.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Seedling	5	
Paper Birch	10	Seedling	5	
Bigtooth Aspen	45	Seedling	8	35
Balsam Fir	10	Seedling	7	
Red Oak	3	Seedling	7	
White Spruce	2		12	
Quaking Aspen	20	Seedling	8	
Pin Cherry	5	Log	3	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Aspen (spp.)	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	4130 - Aspen	Poletimber Well	27.4	35	111-140	N/A	Stand was cut in 1990 and has regenerated to mostly aspen and is doing very well. The south portion of the stand is lowland aspen.
31	6220 - Alder/Willow	None	33.4			No	Large area of tag alder. A few scattered overstory trees can be found through out the stand.
32	6220 - Alder/Willow	None	10.9			No	Tag alder with scattered deciduous trees.
33	6220 - Alder/Willow	None	9.4			No	Tag alder stand with scatted aspen.
34	6112 - Lowland Aspen	Poletimber Poor	19.5	59	1-50	N/A	Tag alder with enough trees growing in it to consider it a forested stand.
35	6112 - Lowland Aspen	Sawtimber Medium	28.1	75	81-110	N/A	Wet stand that is supporting aspen growth over tag alder. Some very large aspen in the southwest corner.

Stand 30 – Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2		12	
Balsam Fir	10	Sapling	6	
Red Maple	5	Sapling	6	
Paper Birch	13	Sapling	5	
Bigtooth Aspen	40	Seedling	8	35
Quaking Aspen	25	Seedling	7	
Pin Cherry	5	Log	3	

Stand 30 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Ironwood	High	5 - 10 feet	5 - 10 feet

Stand 34 – Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	30	Seedling	6	
Balsam Poplar	20	Seedling	7	
Quaking Aspen	40	Seedling	8	59
American Elm	10	Seedling	7	

Stand 34 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Hazelnut (Beaked)	Medium	5 - 10 feet	5 - 10 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet

Stand 35 – Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	52		11	75
American Elm	3	Seedling	7	
Balsam Fir	5	Seedling	7	
Red Maple	5	Seedling	8	
Bigtooth Aspen	35		11	

Stand 35 – Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet
Aspen (spp.)	High	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	16.3	67	51-80	N/A	Small pole size E stand with lots of dead ash and tag alder in the understory. Very poor quality.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Seedling	6	
Balsam Poplar	15	Seedling	6	
Quaking Aspen	5	Seedling	7	
Black Ash	25	Seedling	6	67
American Elm	15	Seedling	8	
Balsam Fir	5	Seedling	6	
Tamarack	5	Seedling	8	
Red Maple	15	Seedling	7	
Green Ash	10	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ash (spp.)	High	5 - 10 feet	5 - 10 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	32.6	81	81-110	N/A	Stand is variable. Some areas of very nice aspen, other areas of a nice mix of species. In areas where the canopy is more open there is a lot of regen coming up. Canopy is more closed at the southern end of the stand. Many of the trees are poorly formed. There is Cedar located in the north of this stand that could make access from this direction difficult.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	3		15	
Balsam Poplar	7		9	
White Pine	2		15	
American Elm	1	Seedling	7	
Balsam Fir	12	Seedling	8	
White Spruce	2		15	
Northern White Cedar	5		13	
Red Maple	33		9	81
Paper Birch	5		9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Hazelnut (Beaked)	Medium	5 - 10 feet	5 - 10 feet
Paper Birch	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	6118 - Lowland Deciduous with Cedar	Sawtimber Poor	74.5	94	111-140	N/A	Very diverse stand. BAM and cedar transitions to quacking aspen, red maple and cedar on patches of higher ground. Cedar and BAM is quite large in DBH. Stand shows signs of budworm damage.Separate out the northern for this stand. The southern is the new cedar stand created Very open canopy. Spruce and balsam have almost died out if the stand. New generation of quaking aspen coming up nicely

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	5	Seedling	8	
Balsam Fir	2	Seedling	8	
Quaking Aspen	35		12	94
Northern White Cedar	25		13	94
Red Maple	15		9	
Paper Birch	5	Seedling	9	
Green Ash	3		14	
Balsam Poplar	5		14	
White Pine	5		18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Variable
Ash (spp.)	Medium	5 - 10 feet	5 - 10 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	High	10 - 20 feet	10 - 20 feet
Striped Maple	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	High	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	6130 - Fir, Aspen, Maple	Poletimber Medium	42.6	67	51-80	N/A	Smaller diameter stand with some log and large pole size trees. Looks to be very wet. Stunted growth among the trees. Lots of openings from dead ash on this stand

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	8	Sapling	6	67
Balsam Fir	27	Sapling	6	67
Red Maple	18		7	
Paper Birch	10		12	
Balsam Poplar	10		6	
Black Spruce	5		9	
Northern White Cedar	10		13	
Yellow Birch	2	Seedling	8	
Quaking Aspen	10		6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Medium	Variable	Variable
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Ash (spp.)	Medium	Variable	Variable
Maple (spp.)	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	6112 - Lowland Aspen	Sawtimber Well	182.3	87	111-140	N/A	This is a mixed stand. The finger to the east is pure aspen with very little in the understory besides grass. The portion of the stand closes to the "bay" is more of a P type. There are some patches of E type in the interior that are either black ash or red maple depending on how wet it is.Much of the southern balsam poplar has died leaving gaps in the canopy. There is red maple regeneration in this area.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	15	Seedling	7	
Balsam Poplar	10		15	
White Spruce	3		12	
Northern White Cedar	10		13	
Red Maple	15		8	
Paper Birch	5		9	
Green Ash	5		9	
Yellow Birch	2		9	
Quaking Aspen	35		15	87

Sub-Canopy Species	Density	Avg. Height	Size
Striped Maple	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	Variable	Variable
Ash (spp.)	Medium	5 - 10 feet	5 - 10 feet
Red Maple	High	5 - 10 feet	5 - 10 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	6111 - Lowland Balsam Poplar	Poletimber Poor	10.1	49	1-50	N/A	This stand is full of poor quality trees growing over top of tag alder. Stand is very wet. Last inventory it was included in the tag alder stand but it has enough of a canopy to distinguish it from the stand to the south.

Canopy Species	% Cover	Size Class	DBH	Age
American Elm	20		9	
Tamarack	15	Seedling	8	
Balsam Poplar	65	Seedling	7	49

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	4123 - Red Oak	Sawtimber Well	20.9	102	81-110	N/A	When the stand was cut in 1989 all red oak, white ash and aspen smaller than 12" were left. Everything else was harvested. The stand now has a two aged look with log size aspen, oak and ash with sapling/pole size maple, ironwood and cherry. Some oak did regenerate after the harvest.The sugar maple has established a healthy cohort underneath the oak.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	60		15	102
White Spruce	1	Seedling	9	
Sugar Maple	24	Sapling	5	36
Red Maple	10	Sapling	5	
Bigtooth Aspen	5		13	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	< 5 feet	< 5 feet
Ironwood	Low	10 - 20 feet	10 - 20 feet
Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	310 - Herbaceous Openland	None	1.3			No	Opening serves as a turnaround. Evidence if a campfire present.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	6112 - Lowland Aspen	Poletimber Well	24.6	36	81-110	N/A	Stand was cut in 1988. Mostly aspen and paper birch with some scattered larger cedars. Stand is currently pole sized and appears to be growing nicely.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	3	Pole	3	
Balsam Poplar	8	Pole	3	
Red Maple	15	Seedling	6	
Paper Birch	3		10	
White Spruce	2	Log	3	
Northern White Cedar	5		12	
Yellow Birch	3	Pole	3	
Quaking Aspen	59	Seedling	7	36
Black Ash	2	Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Striped Maple	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	< 5 feet	< 5 feet
Aspen (spp.)	High	Variable	Variable
Northern White Cedar	Low	5 - 10 feet	5 - 10 feet
Red Maple	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	4130 - Aspen	Sapling Well	30.7	9		N/A	This stand was cut in the fall of 2017 as fart of Trail Cam Mix. There are scattered oak and maple trees left during the harvest. There is also a strip of mature timber left on the steep slope down to the swamp.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Log	2	9
Red Oak	2		16	
Sugar Maple	3	Log	1	
Sugar Maple	2		16	
Red Maple	3		16	
Paper Birch	5	Log	1	8

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	< 5 feet
Red Oak	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	16.5	81	81-110	N/A	This stand is dominated by red maple with a few clones of aspen mixed in. The understory is very thick with balsam fir. There is a grove of hemlock and a grove of tamarack to the north. The Tamarack was previously a separate stand, but has been combined into stand 46 due to its small size. This stand has experienced some mortality affecting the balsam fir. In areas dominated by maple and birch, BA is lower than total stand average.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	3		13	
Balsam Fir	15	Seedling	8	
Red Oak	2		14	
Hemlock	5		17	
Sugar Maple	5		9	
Red Maple	40		9	81
Paper Birch	5		13	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Variable
Balsam Fir	High	Variable	Variable
Beech	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	4130 - Aspen	Sapling Well	23.7	8		N/A	This is a combination of 3 stands that were cut in the fall of 2017 as part of trail Cam Mix. This stand includes the old Pickford dump site. There is upland and lowland ground. Scattered trees left throughout the cut. Retention patch left in the northern half near the property corner.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	4	
Willow spp.	2		14	
Red Maple	3		12	
Paper Birch	15	Log	1	
Bigtooth Aspen	75	Log	2	8

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	6220 - Alder/Willow	None	1.7			No	Mostly tag alder with a few scattered black spruce.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	4130 - Aspen	Sawtimber Well	5.5	67	111-140	N/A	The aspen in this stand is older and of larger DBH than the rest of the aspen to the west. Not sure if this was cut before or if it was just left when the rest was cut.
50	4319 - Mixed Upland Forest	Poletimber Well	0.3	50	51-80	N/A	DNR owned Island previously not mapped in MIFI
51	310 - Herbaceous Openland	None	3.2			Yes	Scotch Pine was removed from this stand in the fall of 2017 as part of Trail Cam Mix. We will have to monitor for regen of scotch pine and treat as needed.Desirable species are established throughout this stand, bit deer browse pressure keeps most of it from reaching free to grow status. Scotch Pine present in small amounts. Most of it is small and less than 3 feet tall; some stems are 3 inches DBH. All stems could be removed with small amount of effort by an individual with a saw.Several large Scotch Pine still exist on state land adjacent the private property to the west.
52	122 - Road/Parking Lot	None	2.2			No	Road easement.
53	6220 - Alder/Willow	Unspecifed	2.0			No	

49

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5		10	
Balsam Fir	10	Seedling	8	
Red Oak	2		13	
White Spruce	3		9	
Red Maple	10		9	
Bigtooth Aspen	70		10	67

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

51

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	< 5 feet	< 5 feet
Scotch Pine	Low	< 5 feet	< 5 feet
Red Oak	Low	< 5 feet	< 5 feet
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
Birch (spp.)	Low	< 5 feet	< 5 feet
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet

52

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Medium	Not Applicable	Not Applicable

53

Sub-Canopy Species	Density	Avg. Height	Size
Mountain Holly	Medium	< 5 feet	< 5 feet
Black Spruce	Low	>20 feet	>20 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	29.0	87	1-50	N/A	There is a MWR sale in this stand that was cut in Dec. 2017. Monitoring to be done by MSU researchers.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	62		12	87
Red Maple	38		15	87

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Medium	< 5 feet	< 5 feet
Sugar Maple	High	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Yellow Birch	Medium	5 - 10 feet	5 - 10 feet
Serviceberry (Juneberry)	Low	< 5 feet	< 5 feet
Blackberry/Raspberry	Low	< 5 feet	< 5 feet
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Red Maple	High	< 5 feet	< 5 feet

55	720 - Exposed Rock	None	0.1			No	DNR owned Island previously not mapped in MIFI. Likely a shorebird rookery.