



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52221

Entry Year 2020

Acreage: 2,256

County Mackinac

Management Area: Great Lakes Islands - NLP

Revision Date: 2018-04-10

Stand Examiner: Tricia St. Pierre

Legal Description:

Sections 3, 26, 29, 30, 32, and 33 on Bois Blanc Island, Mackinac County.

Identified Planning Goals:

To provide for the protection, integrated management, and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan and its inhabitants (plants and animals).

Monitoring and control of invasive species is of paramount importance in this compartment and across the island. There are many T&E species dependent on the island's unique ecosystem, making the identification and eradication of invasive species (plants, animals) top priority.

Soil and topography:

Topography in this compartment is flat to slightly sloping. There are very few changes in elevation, fewer yet abrupt changes.

Sitting on Bois Blanc Formation Bedrock, soils are predominately Lacustrine sand and gravel with portions of thin to discontinuous glacial till over bedrock.

Finer loams and gravelly loams have much better drainage than most soils on the island and support better quality upland hardwood and aspen covertypes; cobbly loam and coarse sand support intermediate quality cedar and upland mixed types; heavy loams, mucks, and peats with poor drainage support intermediate and lowland cedar and Q-types. Each soil type has its own varying degree of drainage capabilities, influenced by the depth of soil on bedrock.

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

All of the land in sections 32 and 33 lie within the Bob-Lo-Gardens subdivision. Lands in section 3 lie within the Huron Shores subdivision. The State owns the vast majority of the lots within these subdivisions and we are actively purchasing additional lots as they become available during tax delinquent sales. All of the State land in section 30 is being considered for an exchange.

Unique Natural Features:

This compartment contains two HCVAs: Limestone Cobble Shore and Northern Wet Meadow (ERA). It also contains a portion of the Snake Island/Mud Lake Natural Area.

Bois Blanc Island is unique in its prevalence of MNFI hits and potential occurrences. Known and potential species occurrences include: *Sistrurus catenatus*, *Adlumia fungosa*, *Calypso bulbosa*, *Gavia immer*, *Crataegus douglasii*, *Iris lacustris*, *Solidago houghtonii*, *Somatochlora hineana*, *Cirsium pitcheri*, *Arnoglossum plantagineum*, *Pinguicula vulgaris*, *Tanacetum huronense*, *Sterna forsteri*, *Haliaeetus leucocephalus*, *Cypripedium arietinum*, and *Pandion haliaetus*. Rare community type occurrences in this compartment include the Northern Wet Meadow and Limestone Cobble Shore.

Archeological, Historical, and Cultural Features:

An old school site is located in Section 33.

There are remnant cedar cabins, cars from the early/mid 1900s, and historic "dump sites" scattered across this compartment. There is a lot of potential for historically significant sites.

Special Management Designations or Considerations:

All of the State-owned land in Section 26 has been legislatively dedicated as the Snake Island/Mud Lake Natural Area.

There is a deer enclosure in section 32, making evident the extreme influence of deer browse on vegetation on the island.

Watershed and Fisheries Considerations:

Mackinac County

Bois Blanc Island

Sections 3, 26, 29, 30, 32, and 33

This compartment is on Bois Blanc Island. Prescribed management activities are appropriate for the protection of Lake Huron and waterbodies on the island.

Wildlife Habitat Considerations:

This compartment contains unique features and has habitat suitable for many featured species and rare species. Deer are abundant on the island and may be impacting forest species composition and structure.

Mineral Resource and Development Concerns and/or Restrictions

Government lots, T39N-R1 & 2W, Bois Blanc Island, Mackinac County

Two active sand and gravel pits are located on the island, one within the compartment (Old Dump Pit) and one outside (Fire Tower Pit). Both are state-owned pits; neither are currently leased. There is sand & gravel and limestone potential within the compartment. There has been no oil and gas exploration or development on the island and there is no known oil & gas potential. There is currently no active mineral leasing.

Vehicle Access:

Vehicular access is limited when attempting to access the interior portions of these blocks. In many cases, external private roads and driveways provide the only access to acreage removed from the shoreline. Otherwise, water, drainages, and swamps limit opportunities for infrastructure. Where old roads exist, many are in need of brushing and/or maintenance if they are ever to be used commercially.

Survey Needs:

There are no survey needs for management activity, however there are needs to settle ownership/property disputes within this compartment.

Recreational Facilities and Opportunities:

There are no established recreational facilities in this compartment, although the lakes within the area receive a lot of recreational use. The Island has been receiving increasing pressure from ORV use. Snake Island Nature Preserved, owned and maintained by the Nature Conservancy, shares a border with a portion of this compartment.

Fire Protection:

This compartment contains no highly volatile fuels, however fire plays a very important role in the natural processes and establishment of these forest types. Although rare, fire in cedar forests is important for seedling establishment and regeneration. MNFI explains, "[f]ire may spread through the community during extensive periods of drought, killing many woody plants and in some instances, removing the upper layers of organic soil. Fire can also play a role in the community's establishment. Seedlings of northern white-cedar can establish directly on burned-over organic soils or within alder thickets that originate following catastrophic fire in poor conifer swamp. Catastrophic fire and windfall in northern Lower Michigan conifer swamps are estimated to have occurred at intervals of approximately 3,000 years."

Additional Compartment Information:

This compartment contains the Huron Shores Subdivision, Duncan Lake plat, and a portion of Bob-Lo Gardens. These subdivisions are not in all instances consolidated.

Collaborative efforts are being made with Mackinac County Equalization to verify and properly map ownership on the Island.

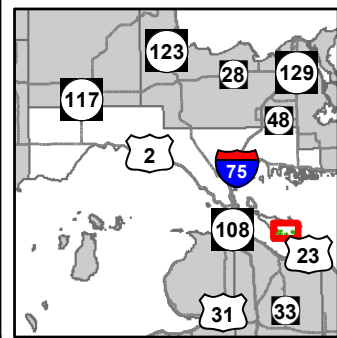
The following reports from the Inventory are attached:

- 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:

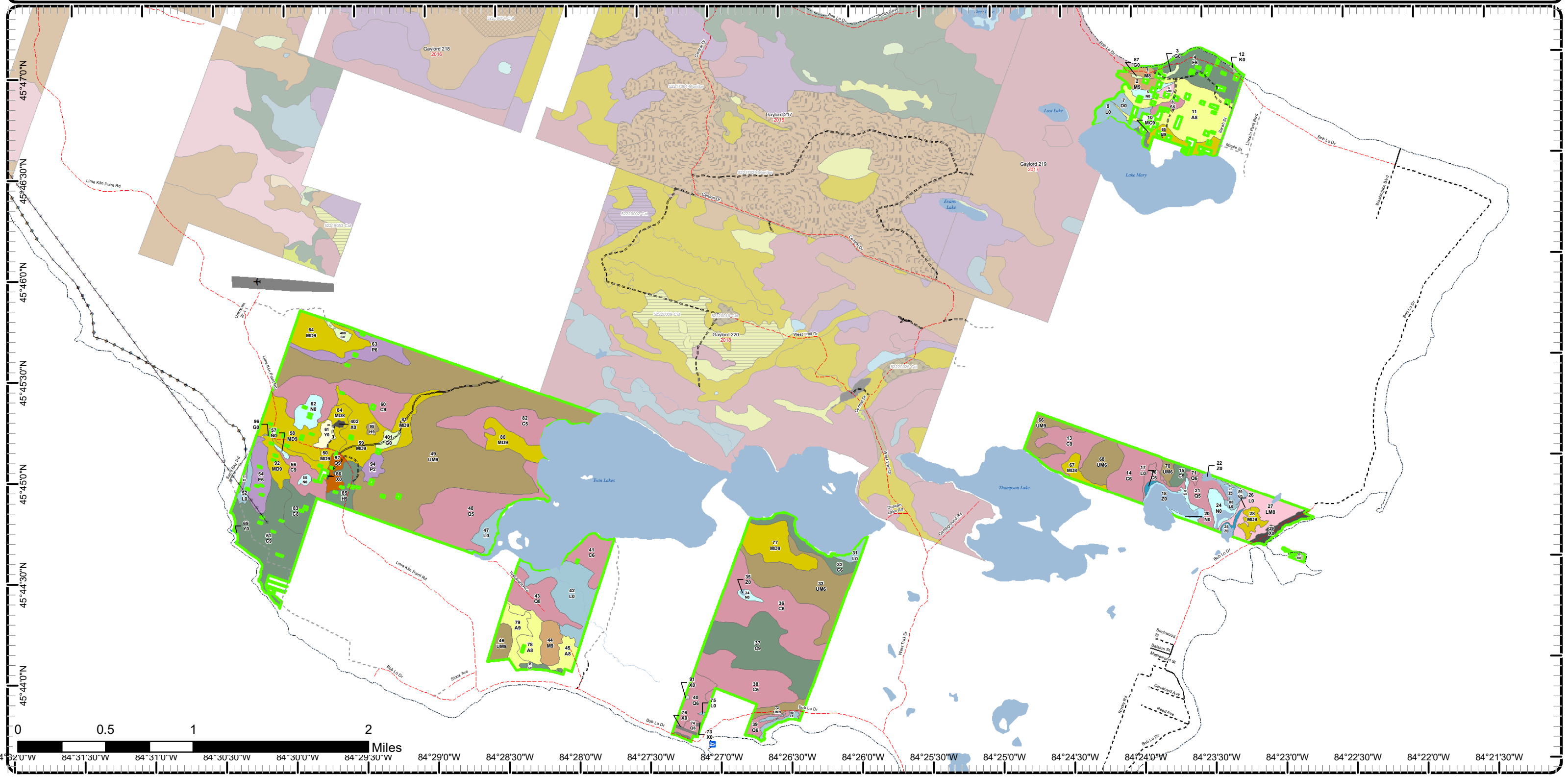
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

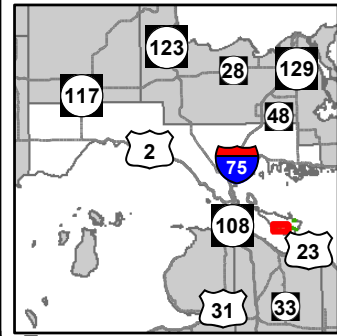


Compartment: 221
 Bois Blanc Island, Government
 Lots 1, 3, 4, 26, 29-33
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 Unit: Gaylord
 Mgmt Area: Great Lakes Islands - NLP
 YOE: 2020
 Acres: 2,256 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 10/1/2018
 Map Phase: Post-Review

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|--|--|---|
| <ul style="list-style-type: none"> Counties DNR - Secondary Forest Road DNR - Forest Access Route Federal / State / County - Paved Road Federal / State - Dirt / Gravel Road County - Dirt Road (Seasonal) Private - Dirt / Gravel Road Airport Boating Access Site Intermittent Stream Island in Lake or River Lake/Pond Shoreline Lakes and Rivers All | <ul style="list-style-type: none"> Powerline Airports Compartment Boundary Treatments with Site Conditions 411 - Northern Hardwood 412 - Oak Types 413 - Aspen Types 419 - Mixed Upland Deciduous 423 - Other Upland Conifers 430 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest 110 - Low Intensity Urban 122 - Roads/Parking Lot | <ul style="list-style-type: none"> 123 - Other High Intensity Urban 310 - Herbaceous Openland 500 - Water 622 - Lowland Shrub 623 - Emergent Wetland 629 - Mixed non-forested wetland 710 - Sand/Soil 720 - Exposed Rock Lakes |
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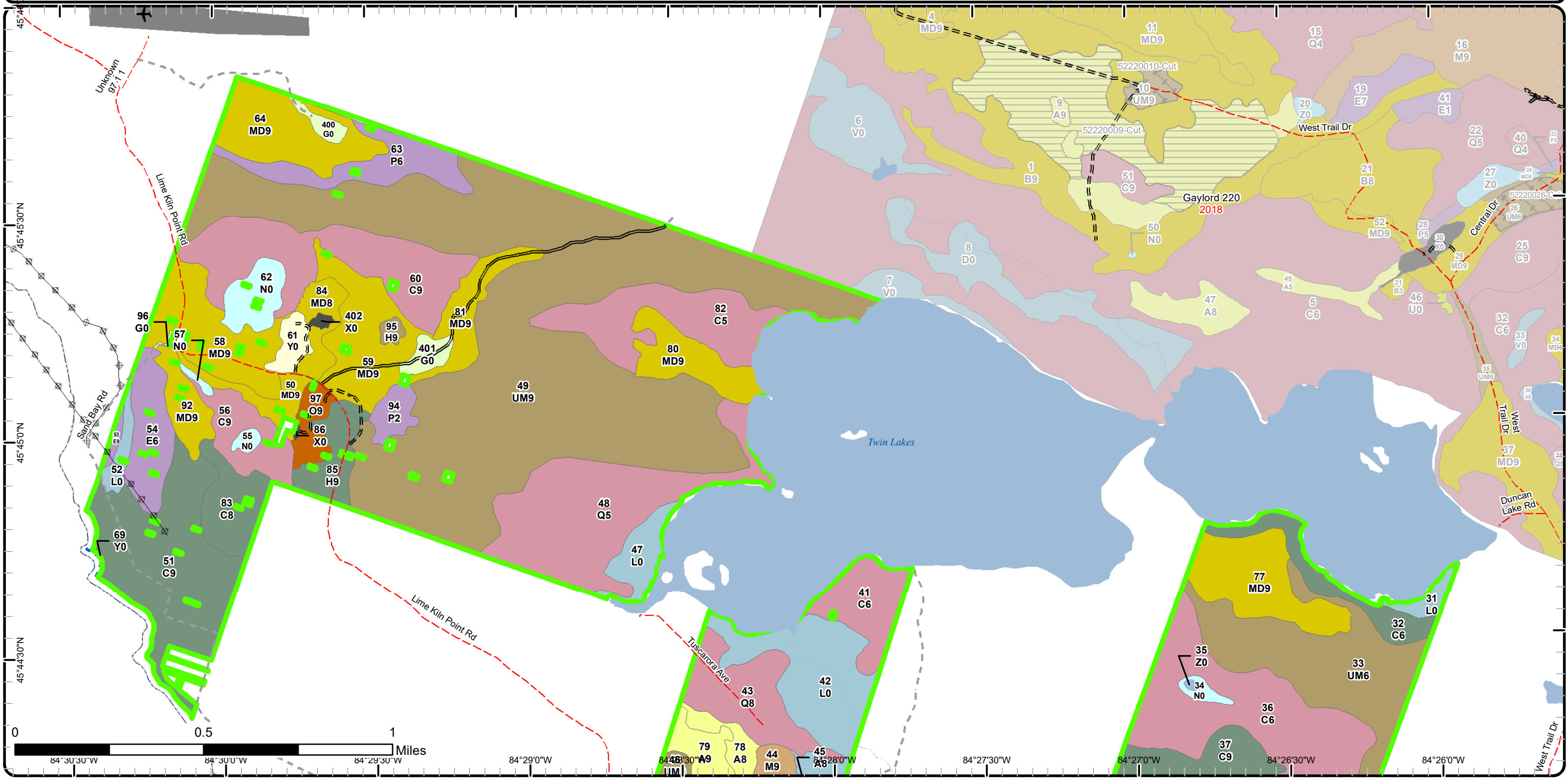


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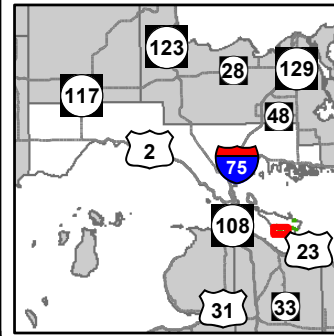


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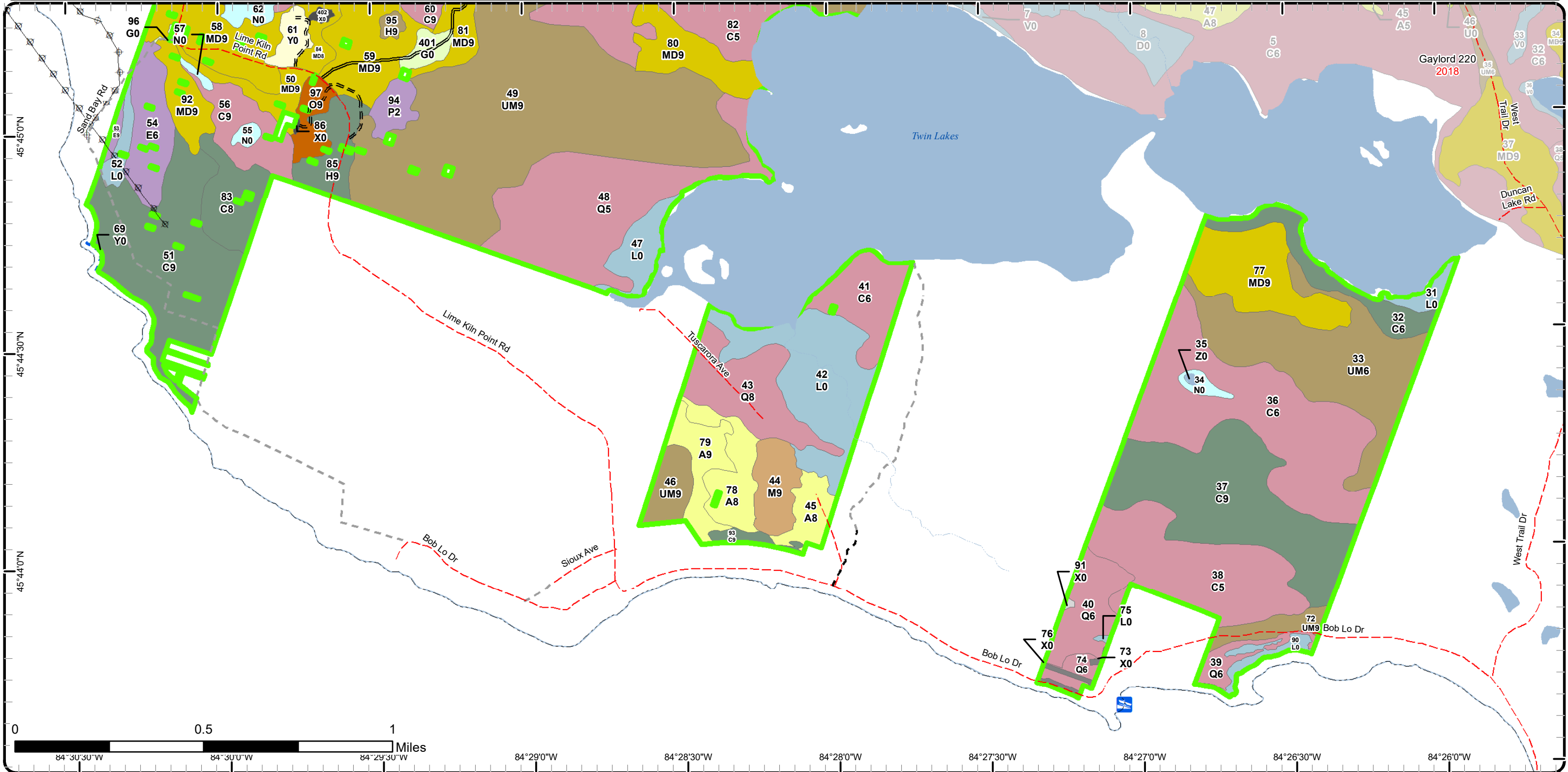


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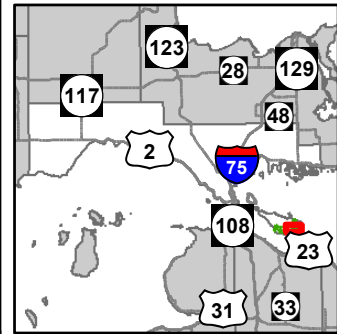


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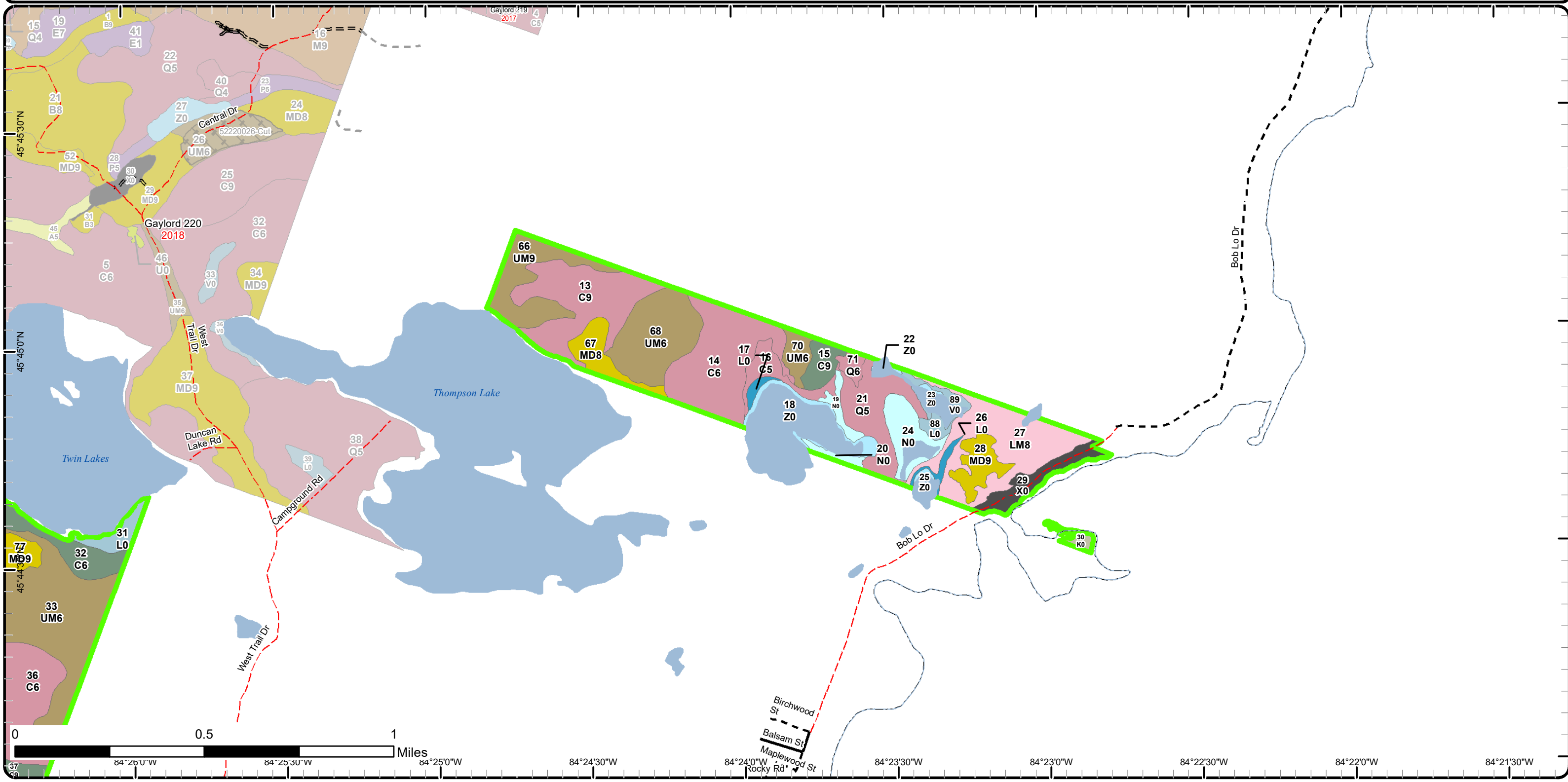


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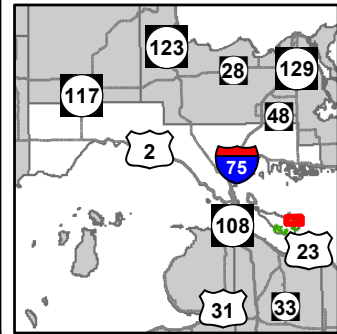


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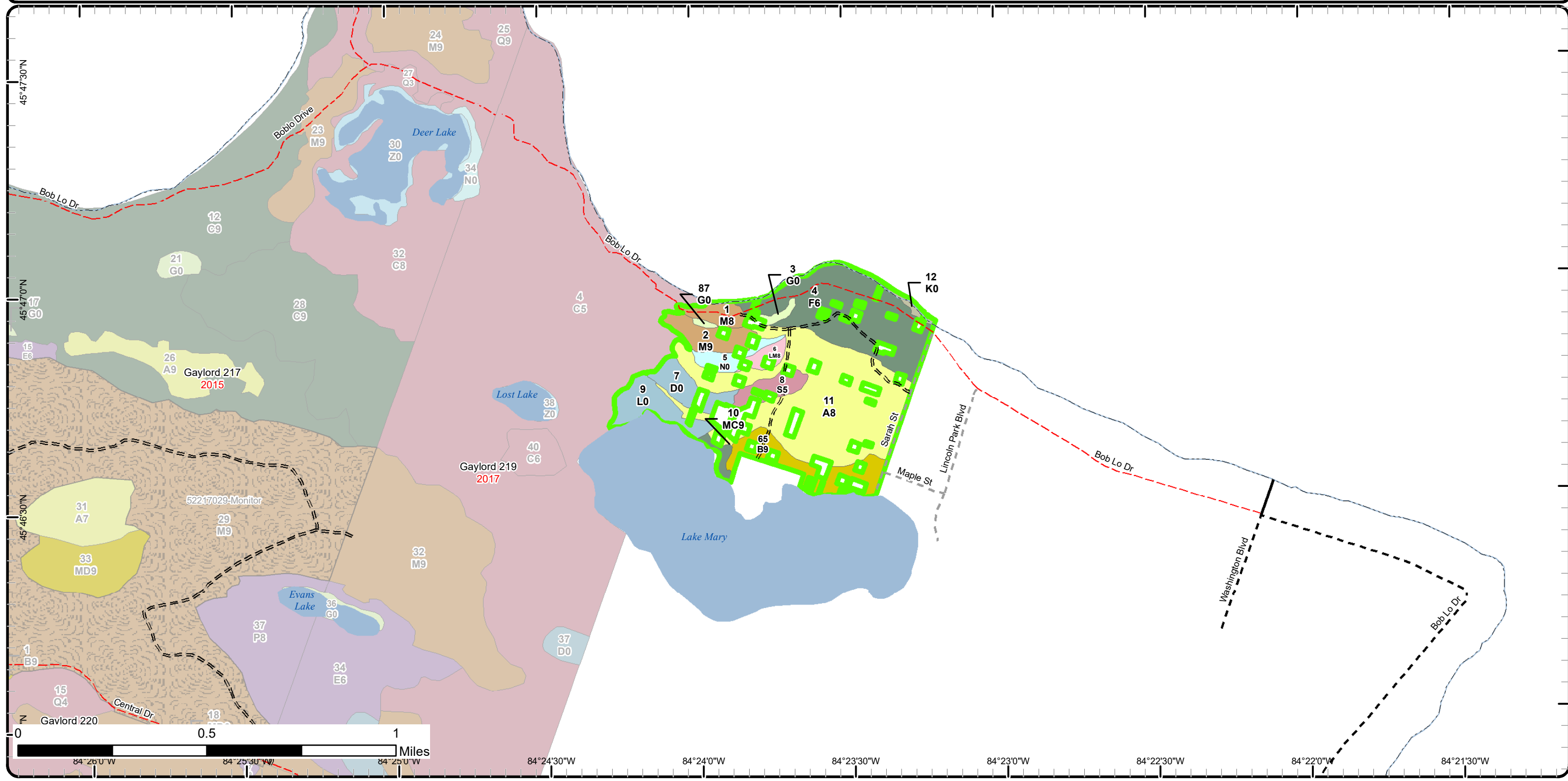


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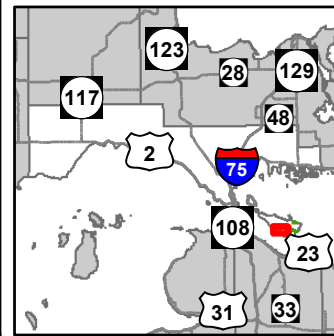
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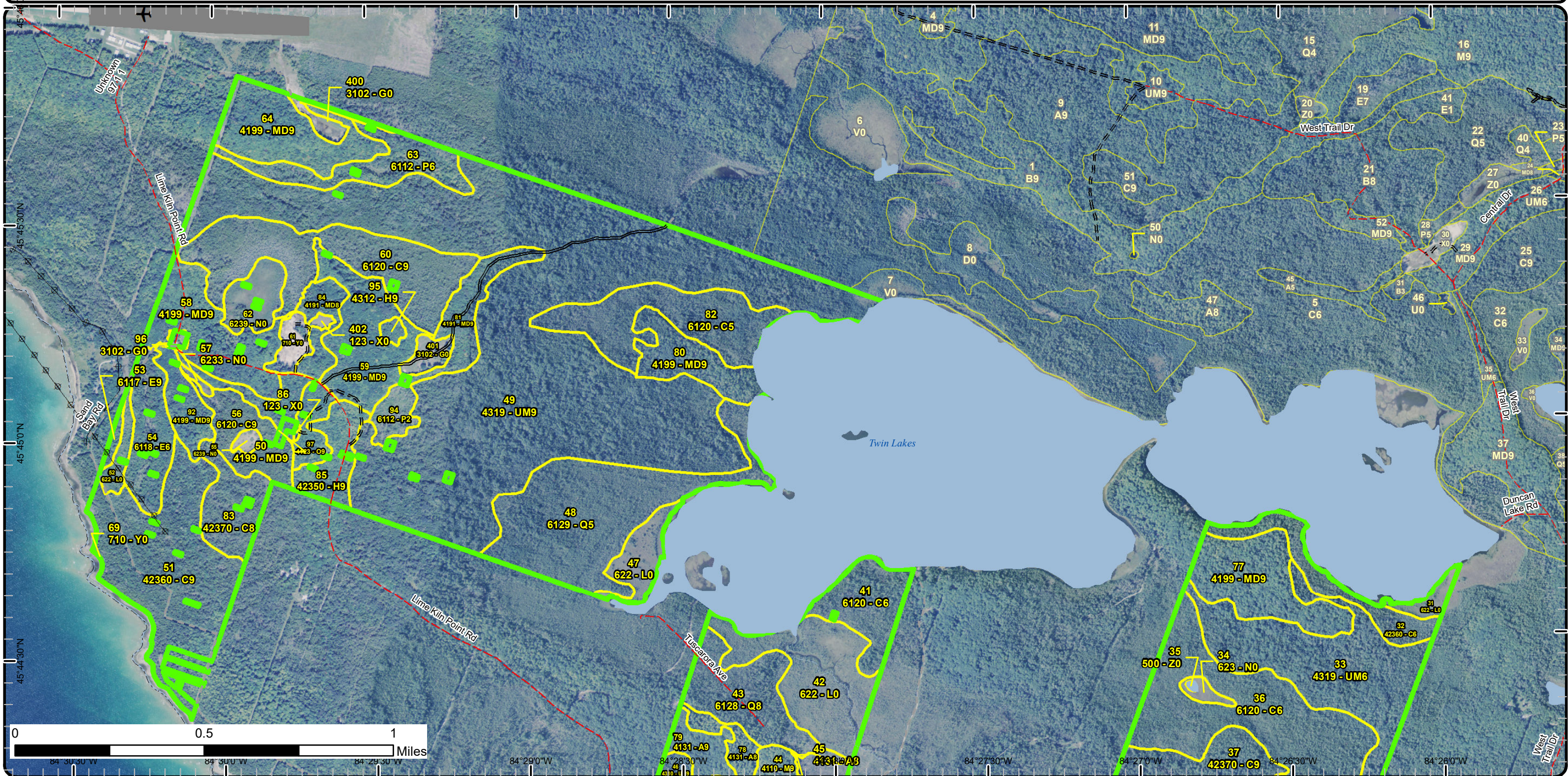


Stand Boundary Map

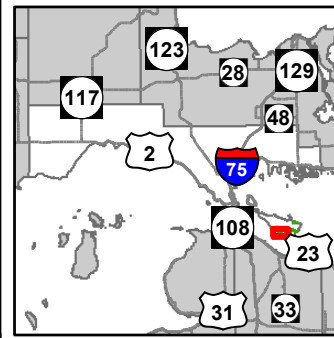
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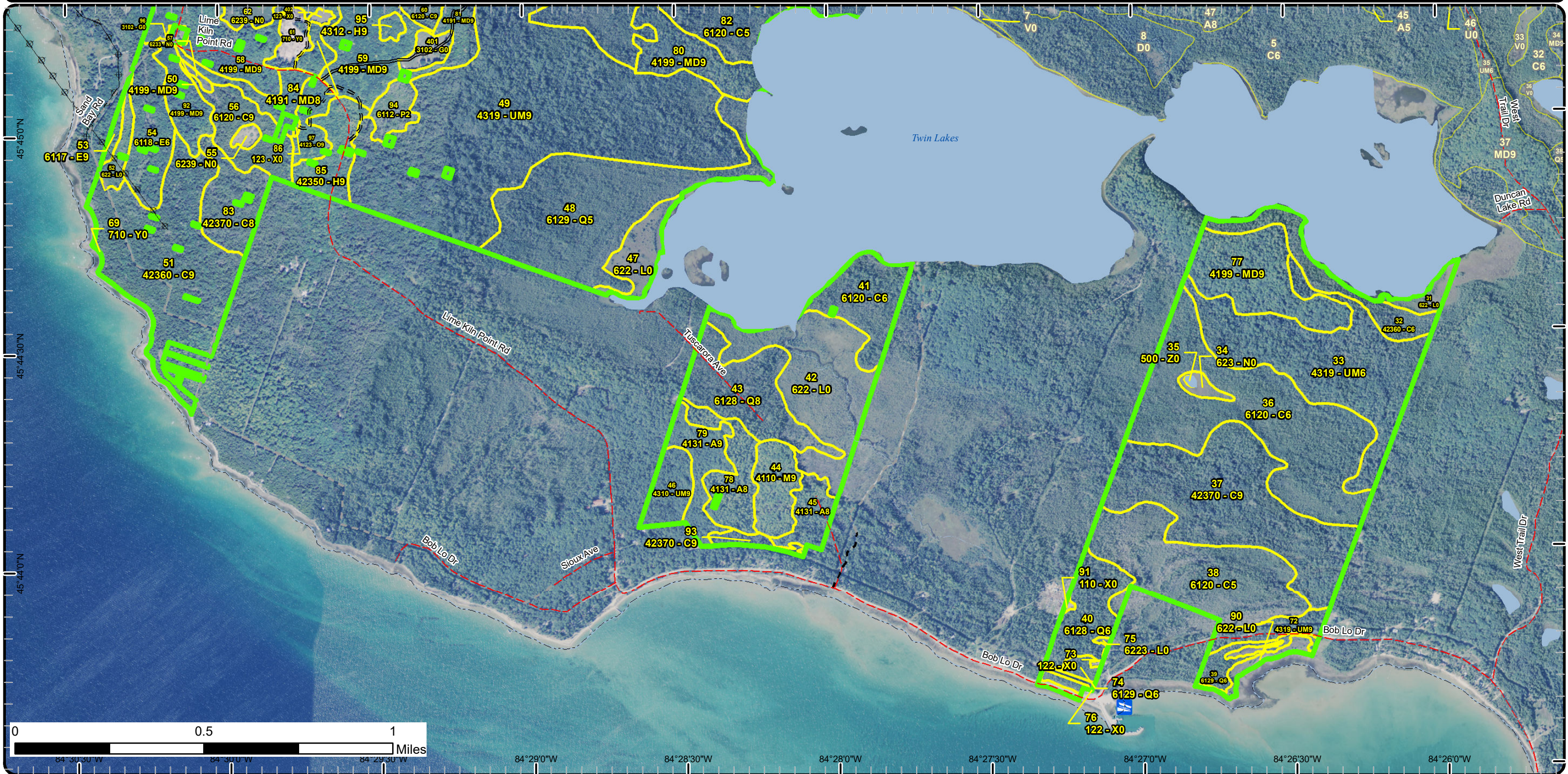


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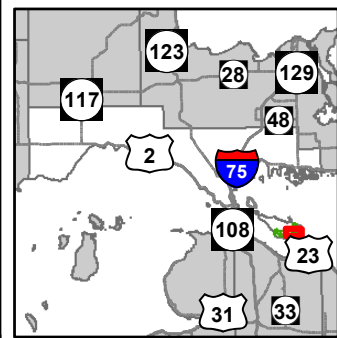


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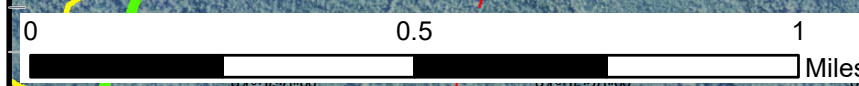
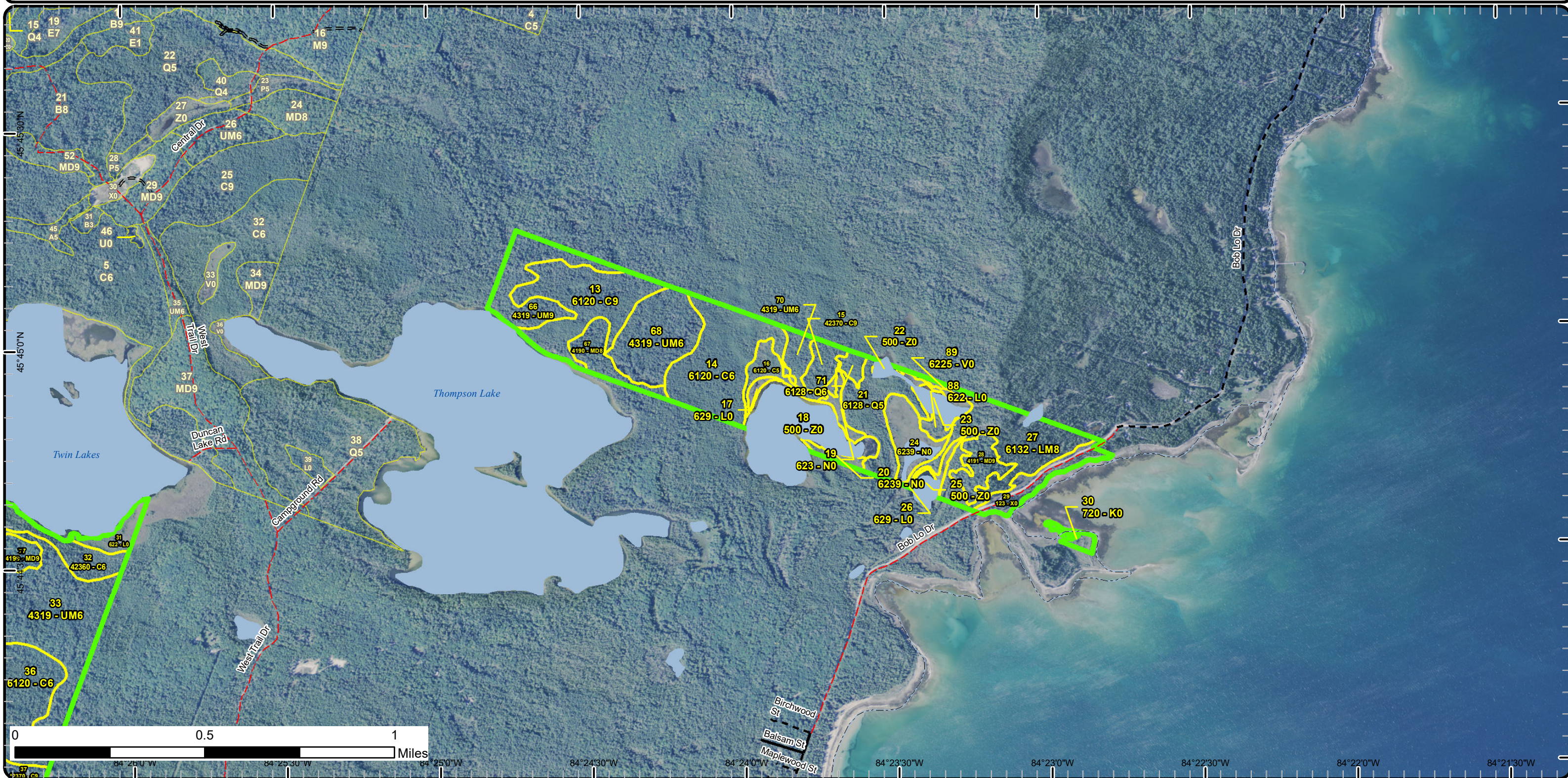


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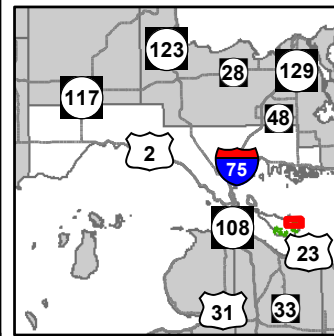


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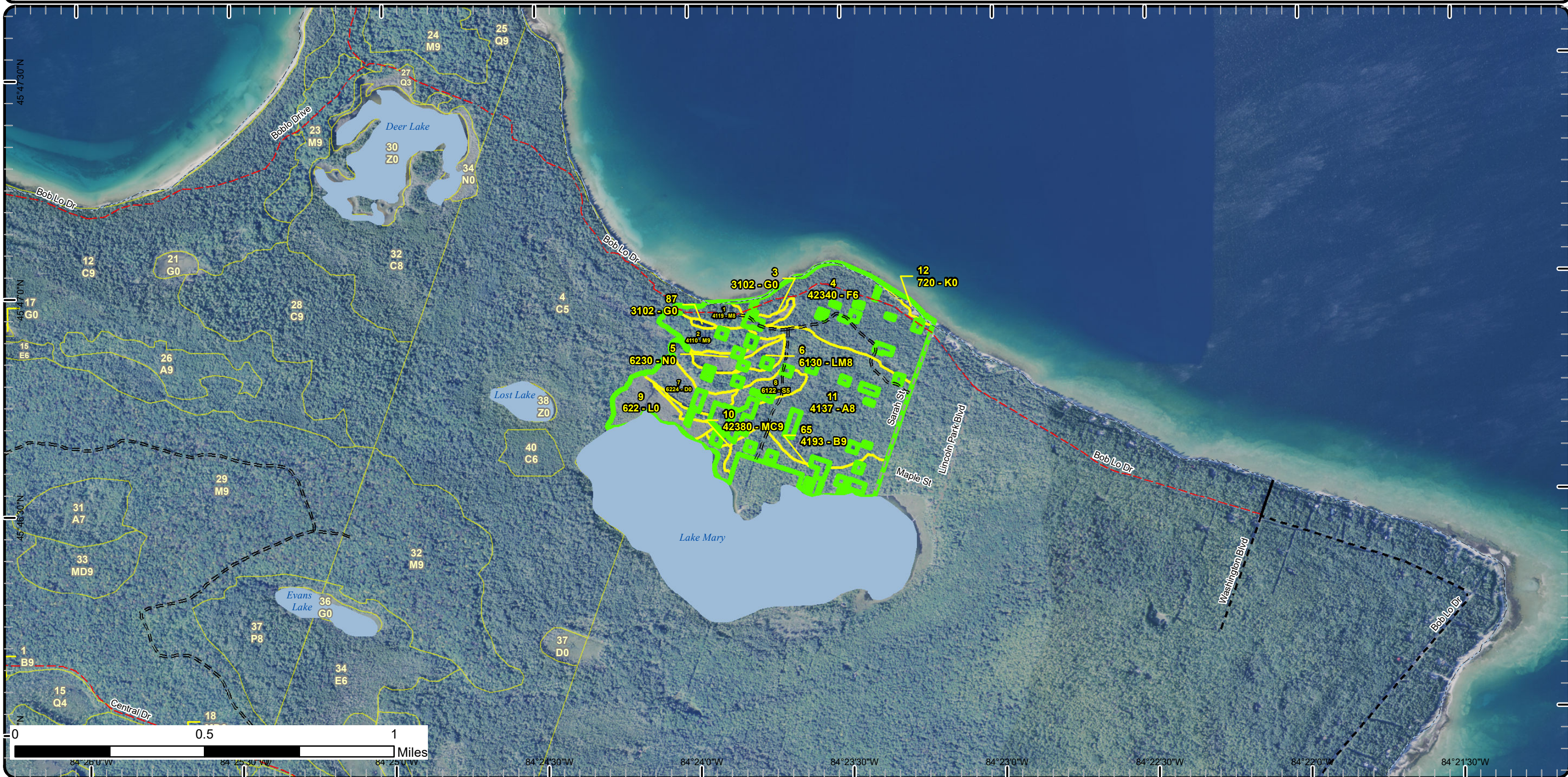
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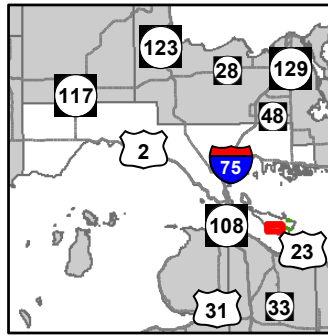
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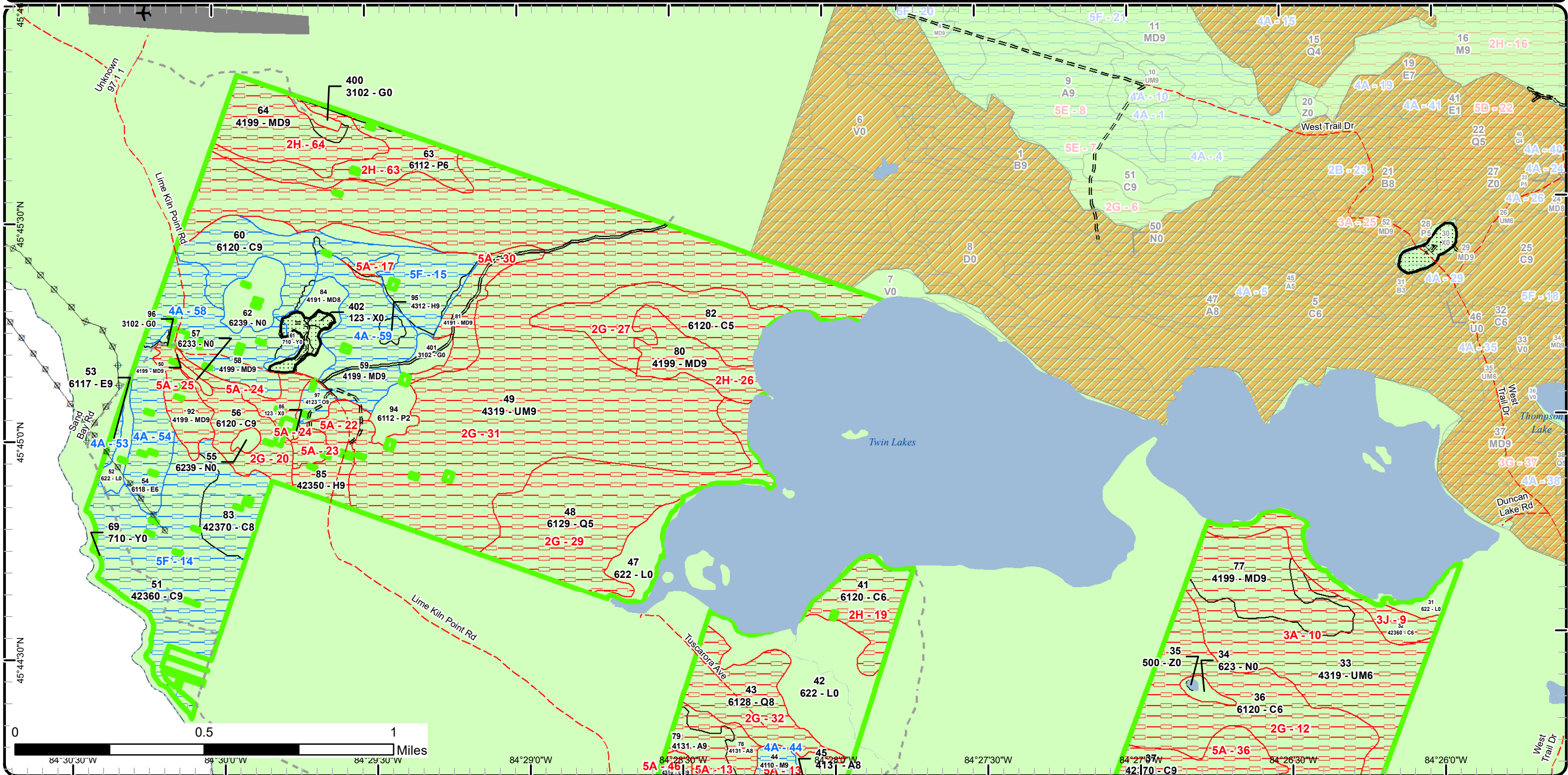


Special Conservation Areas & Site Conditions Map

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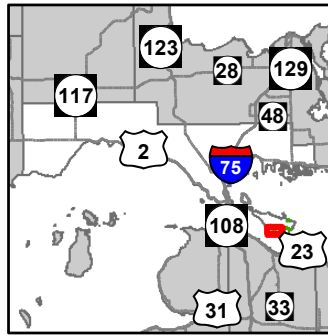


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- Powerline
- Airports
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- SCA
- Eastern Massasauga Managed Land
- Great Lakes Islands Sand or Gravel Pit
- Sand or Gravel Pit

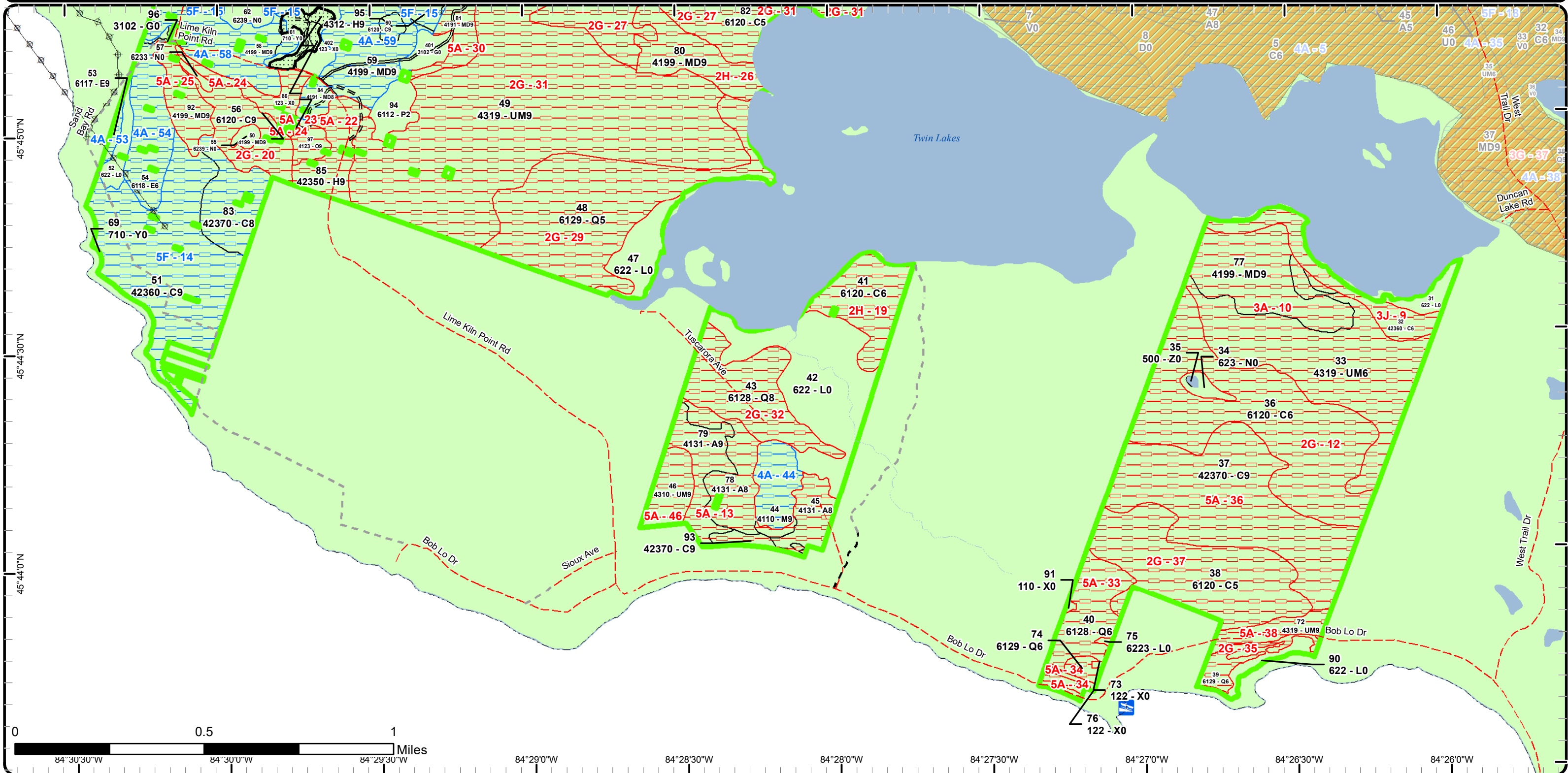


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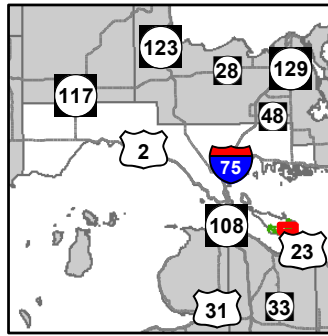


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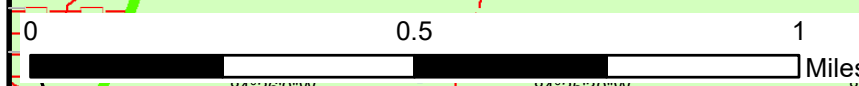
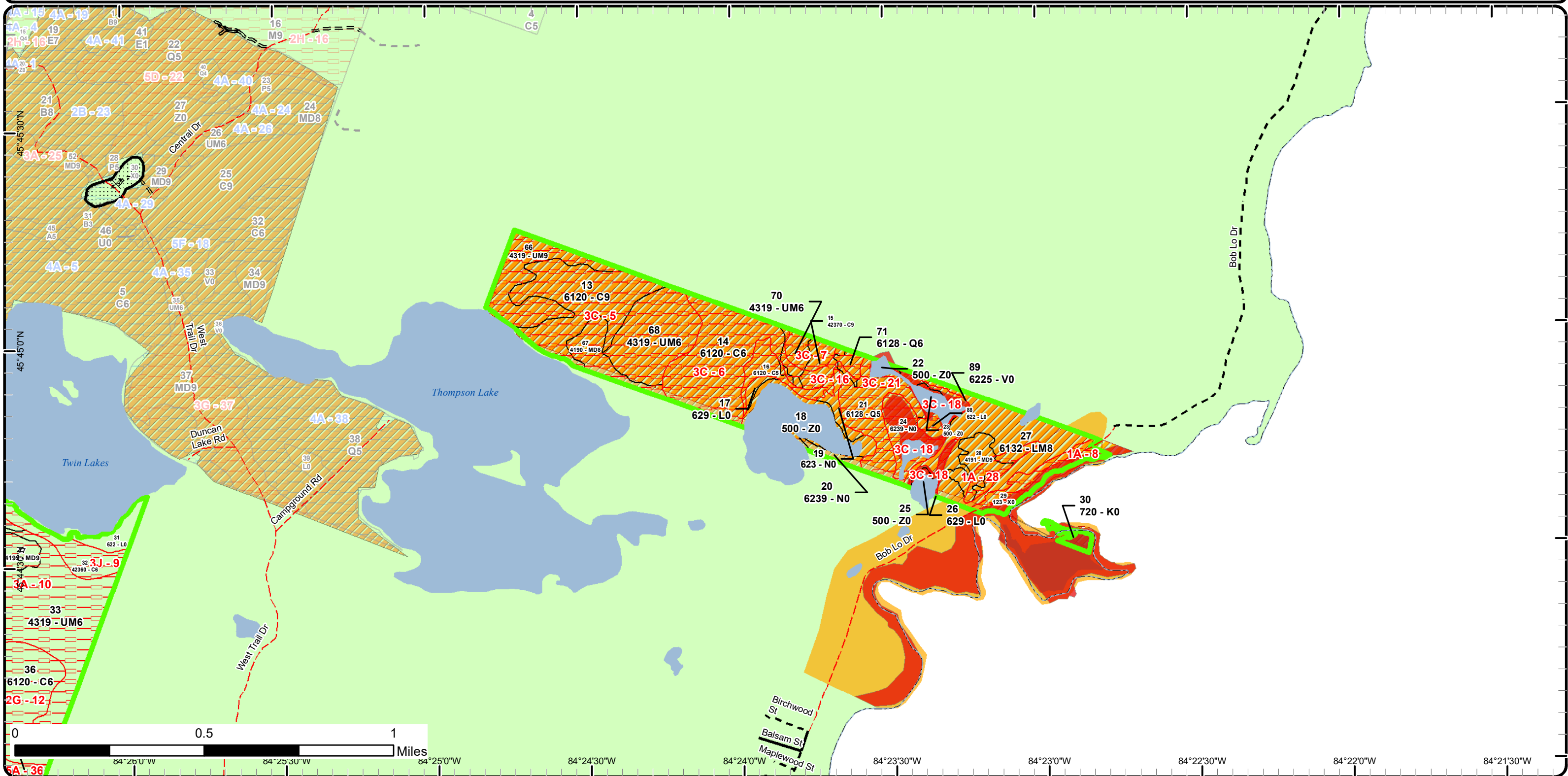


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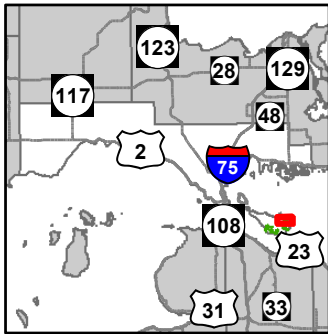


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- Unavailable
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- 3A: Conservation Values incompatible with harvest at this time
- 3C: Legally Designated Quiet Area, Natural Area, or Wilderness
- 3J: Water quality / BMPs (stream, river, or lake)
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- Sand or Gravel Pit
- Sand or Gravel Pit

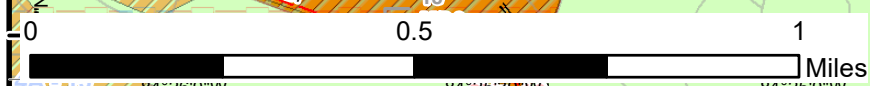
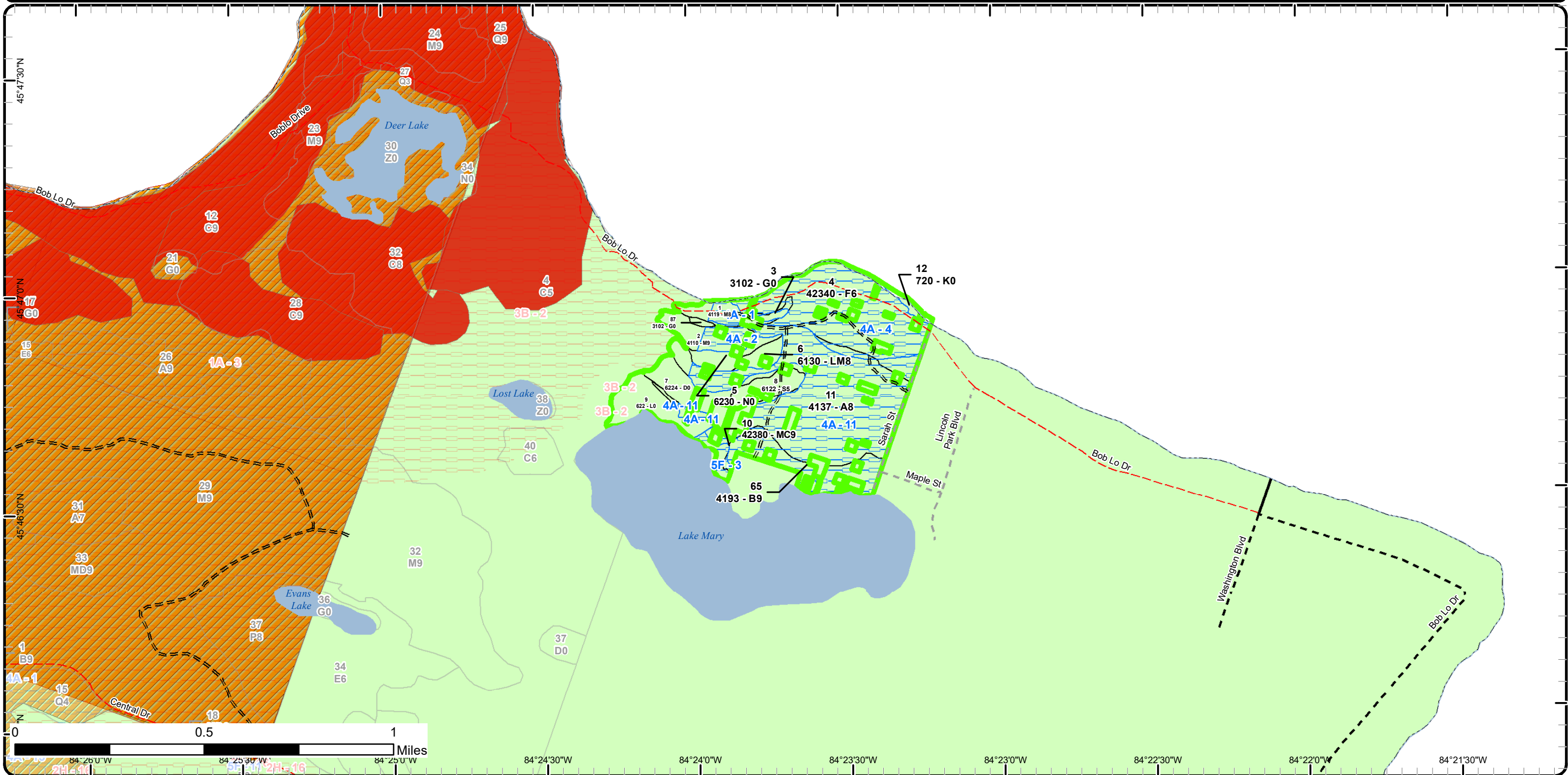


Special Conservation Areas & Site Conditions Map

Compartment: 221
 Bois Blanc Island, Government
 Lots 1, 3, 4, 26, 29-33
 County: Mackinac
 Unit: Gaylord
 Mgmt Area: Great Lakes Islands - NLP
 YOE: 2020
 Acres: 2,256 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 10/1/2018
 Map Phase: Post-Review



- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Shoreline
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Stand Boundaries
- Ecological Reference Areas
- Eastern Massasauga Managed Land
- Forest Habitat Core Interior
- Natural Areas Legally Dedicated
- Great Lakes Islands



84°26'0"W 84°25'30"W 84°25'0"W 84°24'30"W 84°24'0"W 84°23'30"W 84°23'0"W 84°22'30"W 84°22'0"W 84°21'30"W



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	0	0	0	0	0	0	84	0	0	39	0	0	123
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	129	14	34	91	246	22	87	25	0	648
Exposed Rock	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	18	2	0	0	0	20
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	0	0	9	0	0	0	0	0	28	0	0	0	0	0	0	0	0	37
Lowland Conifers	0	0	0	0	0	0	0	0	0	8	119	20	0	0	0	0	0	38	185
Lowland Deciduous	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	27
Lowland Mixed Forest	0	0	0	0	0	0	0	0	3	0	0	0	35	0	0	0	0	0	37
Lowland Shrub	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Marsh	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	12	0	55	0	49	25	0	41	39	40	261
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	26	0	31
Oak	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Paper Birch	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Sand, Soil	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	27	26	10	412	0	0	13	82	570
Upland Spruce/Fir	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	46
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Total	240	0	0	9	0	0	46	0	15	202	234	80	275	701	24	172	103	160	2259



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 221
Total Compartment Acres: 2,256

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	0	0	0	0
Next Step	0	0	0	0	0	1	0	0	0	1
Total	0	0	0	0	0	1	0	0	0	2



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
69	52221051-Spray	0.4	710 - Sand, Soil	Nonstocked	0	Unspecified	Pesticide	Hand Application	710 - Sand, Soil		Proposal - Approval Pending Edits

Habitat Cut: No**Site Condition: Evaluated for Forest Health**

Prescription Specs: Objectives are to treat non-native phragmites on Bois Blanc island in Mackinac county until the infestation is removed or until funding is no longer available. Backpack sprayer method will be used for the state land portions with T&E species. If infestations persist, they will continue to be treated in the same manner while funding allows.

Next Step Treatments: Monitoring, Herbicide Use; Pesticide, Hand Application; Monitoring, Herbicide Use

Acceptable Regen:

Other Comment: Some locations also contain threatened or endangered species and those will have pesticide applied with a backpack sprayer. Private landowners near state land parcels to be treated with backpack sprayer will notified according to the ANC permit and the UPRC&D may contact them to treat their parcels as well if they are interested. Signs will be posted prior to the event as per the permit.

Proposed Start Date: 10/1 /2009

Total Treatment Acreage Proposed: 0.4

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 221

Tricia St. Pierre : Examiner

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions											
		With Condition	Not Available		4A	5F	1A	2G	2H	3A	3C	3J	5A			
123	4	68	51	Aspen	68											51
5	0	0	5	Bog								5				
648	0	168	480	Cedar		168		240	27	1	85	21				106
4	4	0	0	Exposed Rock												
21	0	2	18	Hemlock	2											18
14	8	1	5	Herbaceous Openland	1				5							
37	9	0	28	Lowland Aspen/Balsam Poplar					28							
184	0	0	184	Lowland Conifers				133			23					28
28	0	27	0	Lowland Deciduous	27											
38	3	0	35	Lowland Mixed Forest			35									
112	107	0	4	Lowland Shrub							4					
6	6	0	0	Lowland Spruce/Fir												
44	32	0	12	Marsh							12					
259	12	80	168	Mixed Upland Deciduous	77	3	9		64	41	10					44
31	7	22	2	Northern Hardwood	22											2
10	0	5	5	Oak	5											5
16	0	16	0	Paper Birch	16	0										
7	5	2	0	Sand, Soil	2	0										
9	9	0	0	Treed Bog												
3	0	3	0	Upland Conifers		3										
569	0	0	569	Upland Mixed Forest				412		82	53					23
48	3	46	0	Upland Spruce/Fir	46											
15	5	0	10	Urban			10									
28	23	0	5	Water							5					
2,259	238	440	1,582	Total Forested Acres	266	174	54	785	125	124	196	21				277
	11%	19%	70%	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	4A: No Markets Available for these Forest Products	3	4A: No Markets Available for these Forest Products	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 221

Tricia St. Pierre : Examiner

Year of Entry: 2020

2	Available	4A: No Markets Available for these Forest Products	5	4A: No Markets Available for these Forest Products	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
Comments:							
3	Available	5F: Evaluated for Forest Health Considerations	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Considered for SBW Salvage but declined due to lack of information and difficult access (not to mention logistics of harvesting on the Island).							
4	Available	4A: No Markets Available for these Forest Products	46	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Considered for SBW Salvage but needs further reconnaissance. Declined for the time being.							
5	Unavailable	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	91	1A: Federal/State/Local Law	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Part of an HCVA. Evaluated for SBW Salvage and declined due to classification.							
6	Unavailable	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	44	1A: Federal/State/Local Law	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: HCVA/Natural Area. Evaluated for SBW Salvage and declined due to classification.							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 221

Tricia St. Pierre : Examiner

Year of Entry: 2020

7	Unavailable	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	6	1A: Federal/State/Local Law	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: HCVA/Natural Area. Evaluated for SBW Salvage and declined due to classification.							
8	Unavailable	1A: Federal/State/Local Law	11	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: HCVA/Natural Area - Snake Island/Mud Lake Natural Area. Also Limestone Cobble Shore (MNFI Community). Evaluated for SBW Salvage and declined due to classification.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	2E: Road needed	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Evaluated for SBW Salvage but declined because of location, proximity to lake, inaccessibility, and logistics of harvesting on the island.							
10	Unavailable	3A: Conservation Values incompatible with harvest at this time	124	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: Considered for SBW Salvage but declined due to inaccessibility, biodiversity, concern over T&E potential, and logistics of harvesting on the Island.							
11	Available	4A: No Markets Available for these Forest Products	84	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Considered for SBW Salvage but declined. Needs further reconnaissance and consideration.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	102	5A: Not able to obtain desirable regeneration	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Considered for SBW Salvage but declined due to soil sensitivity, biodiversity, T&E potential, inaccessibility, and logistics of harvesting on the island.							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 221

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Year of Entry: 2020

13	Unavailable	5A: Not able to obtain desirable regeneration	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Considered for SBW Salvage but declined. Needs further reconnaissance. Also a highly visible stand with potentially unique characteristics.							
14	Available	5F: Evaluated for Forest Health Considerations	109	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Considered for SBW Salvage but needs further reconnaissance. Highly visible stand and has great potential for T&E species considering the shoreline and within-stand characteristics.							
15	Available	5F: Evaluated for Forest Health Considerations	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Considered for SBW Salvage but declined. Appears to be a very low, wet, sparsely stocked, and unproductive stand/site.							
16	Unavailable	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	8	1A: Federal/State/Local Law	3A: Conservation Values incompatible with harvest at this time	5F: Evaluated for Forest Health Considerations	Unspecified
Comments: HCVA/Natural Area. Evaluated for SBW Salvage and declined due to classification.							
17	Unavailable	5A: Not able to obtain desirable regeneration	4	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: XL RM, YB - unique for island. Appears to be older, but no ages were taken. Considered for SBW Salvage but declined. Appears to be a very low, wet, sparsely stocked, and unproductive stand/site.							
18	Unavailable	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Northern Wet Meadow, MNFI Community.							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 221

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Year of Entry: 2020

19	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	27	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	4A: No Markets Available for these Forest Products	2I: Survey needed
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	23	1A: Federal/State/Local Law	3A: Conservation Values incompatible with harvest at this time	5F: Evaluated for Forest Health Considerations	Unspecified
Comments: HCVA/Natural Area. Evaluated for SBW Salvage and declined due to classification.							
22	Unavailable	5A: Not able to obtain desirable regeneration	18	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Unique stand. Concern over ownership nearby. Determine property boundaries.							
23	Unavailable	5A: Not able to obtain desirable regeneration	5	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5A: Not able to obtain desirable regeneration	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 221

Tricia St. Pierre : Examiner

Year of Entry: 2020

25	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	25	3I: Historical / archeological (add locked comments)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	51	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Low stocking, rather inaccessible.							
28	Unavailable	1A: Federal/State/Local Law	6	3A: Conservation Values incompatible with harvest at this time	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: HCVA/Natural Area. Evaluated for SBW Salvage and declined due to classification.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	88	5A: Not able to obtain desirable regeneration	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
Comments:							
30	Unavailable	5A: Not able to obtain desirable regeneration	19	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Confirm ownership prior to any management activity.							

Report 4 – Site Conditions

Gaylord Mgt. Unit

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31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	412	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Rather sensitive soils across this stand. Portions might be operable in dry or very frozen years, but regeneration is a major concern with browse pressure.							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5A: Not able to obtain desirable regeneration	23	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5A: Not able to obtain desirable regeneration	5	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	5A: Not able to obtain desirable regeneration	91	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 221

Tricia St. Pierre : Examiner

Year of Entry: 2020

37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Browsing pressure and proximity of stand to road makes this an undesirable harvest for deer/car interface.							
44	Available	4A: No Markets Available for these Forest Products	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old taps everywhere.							
46	Unavailable	5A: Not able to obtain desirable regeneration	13	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
53	Available	4A: No Markets Available for these Forest Products	2	2I: Survey needed	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Considered for SBW Salvage but needs further reconnaissance. Also an unlikely candidate considering the small acreage and need for survey.							
54	Available	4A: No Markets Available for these Forest Products	25	5T: Contingency Treatment for Forest Health Concerns	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Considered for SBW Salvage but needs further reconnaissance. Logistically difficult to harvest/salvage on the island.							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 221

Tricia St. Pierre : Examiner

Year of Entry: 2020

58	Available	4A: No Markets Available for these Forest Products	41	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
59	Available	4A: No Markets Available for these Forest Products	45	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	29	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Considered for SBW Salvage. Treatment re-initiated but maintained a site condition due to logistics of harvesting on the island.							
64	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	41	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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	Sawtimber Medium	5.3	146	81-110	This stand gets a little low parallel to the shore and is a little bit tiered from south (highest) to north (lowest). Sugar maple dominates the high and middle ground, giving way to quaking aspen and paper birch, then to BAM and balsam fir closest to the shore. Trace white cedar in the far west. Single clump of serviceberry in east. One apple tree. OPIC - FMD: THIS IS A STRANGE STAND. HEAVY GRASS GROUND COVER. LOOKS AS IF THERE MAY HAVE BEEN AN OLD HOMESTEAD ON THE SOUTH SIDE OF THE COUNTY ROAD.
2	4110 - Sugar Maple Association	Sawtimber Well	8.8	161	51-80	Similar to stand 1, though "PHYSICALLY SEPARATED THOUGH BY A NARROW SWALE." (OI COMMENT.) Ages were similar enough. Old road bed runs through stand. Pocket of quaking aspen in the far west. White ash used to be a significant component of this stand. All but one are now dead (EAB). PB has fallen out, too. Some seriously large sugar maple in this stand. A lot of samaras, but they're unlikely to germinate, survive, or recruit with the browsing pressure on the island. BA right around 80.
4	42340 - Upland Spruce/Fir	Poletimber Well	46.0	56	81-110	Trace dogwood on road edge. OPIC - FMD: THIS IS AN UPLAND STAND HEAVIEST TO CONIFERS ALTHOUGH ASPEN AND BIRCH IS MIXED THROUGHOUT. THE HARDWOODS WILL SLOWLY DIE OUT ALLOWING THE FIR UNDERSTORY TO FILL IN.
6	6130 - Fir, Aspen, Maple	Sawtimber Medium	3.1	79	51-80	Not really happy with the stand delineation. Odd stand. Stand is lowland with upland ridges. Corners (iron pipes) and a makeshift cabin, trailer in this stand - OWNERSHIP IN QUESTION. Northeast is dominated by red maple and quaking aspen. Cored one spruce at 105 years old. Rest of stand seems to be a bit younger.
8	6122 - Black Spruce	Poletimber Medium	6.2	115	51-80	Open black spruce in west transitioning to denser, lots more white cedar, larger diameter timber in east. OPIC - FMD: THIS IS CURRENTLY A DAMP STAND THAT IS PROBABLY OFTEN FLOODED.
10	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	2.7	96	81-110	White cedar dominates lakeside. Spruce/fir/birch/red maple dominate away from shoreline. Underneath cedar is the only place where balsam fir regen isn't full. Grass and cattails along shoreline. BA is higher overall for cedar, but birch takes up more space in the canopy. Terrible browsing on cedar regen.
11	4137 - Aspen, Birch	Sawtimber Medium	71.8	113	81-110	Trace amount of scattered white cedar. A lot of snapped fir. A large, diverse complex, dominated by quaking aspen and paper birch. Few lower pockets on the perimeters, edges to a small swale complex. Ownership discrepancies in the south. Southeast appears to be of fire origin, possibly following logging activity. Ages around 80 in those areas. OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	6120 - Lowland Cedar	Sawtimber Well	33.9	100	171-200	<p>Received a lot of rain during the week this stand was inventoried, and there's standing water. However, this is a marginally "upland" stand, or at least likely to be dry during other times of the year. Impressive stumps with burn scars. Starting to get a lot of self-thinning, especially in the fir and spruce.</p> <p>Areas of very dense cedar with scattered larch. Nothing regenerating under dense cedar. Fir and spruce subcanopy is patchy and variable in density. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. IT IS NOT WET AT THE CURRENT TIME BUT I WOULD IMAGINE THAT IT COULD BE DURING THE SPRING AND FALL. ASPEN AND BIRCH ARE SLOWLY DYING OUT BEING REPLACED BY FIR.</p>
14	6120 - Lowland Cedar	Poletimber Well	37.1	88	171-200	<p>A lot of self-thinning going on. Very spongy ground. South half is more log-sized; north is more pole. Highly variable diameters; could go log overall.</p> <p>OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. THIS STAND IS WETTER THAN STAND #13 ADJACENT.</p>
15	42370 - Upland Cedar, Aspen	Sawtimber Well	6.1	91	141-170	<p>QA dying out.</p> <p>OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA.</p>
16	6120 - Lowland Cedar	Poletimber Medium	7.5	98	1-50	<p>Edges of stand are very muddled and indefinite, mixing with the adjacent stands. VERY sensitive soils. I would love to spend time inventorying the herbaceous layer in the spring and summer months - I imagine this is great habitat for lowland T&E plants.</p> <p>Southwest and far east legs have some more variability in species composition and larger diameters. Inventory reflects the bulk of the stand, "north-central".</p> <p>OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. DENSE STAND OF VERY SMALL DIAMETER CONIFERS.</p>
21	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	19.9	101	51-80	<p>Somewhat open pole/sap with pockets of log (110-140 BA). South third of stand is a little more ridge-and-swale dominate. East leg has a very slim upland ridge.</p> <p>OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. DENSE STAND OF VERY SMALL DIAMETER CONIFERS. THIS IS A WET STAND WITH A LOT OF VARIABILITY THROUGHOUT. SOME AREAS OF TAG ALDER AS WELL.</p>
27	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	34.5	110	81-110	<p>Swale complex with alternating lowland and upland; variable. Some very unique pockets with relic red and white pine. Red pine is a minor component (<1%) and not listed as a canopy species. Old cedar cabins in this stand.</p> <p>OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.9	115	81-110	A lot more white pine in the south half. Stand is predominately upland with a couple of low pockets, but not quite lowland. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. THIS LOOKS LIKE IT MIGHT HAVE ONCE BEEN AN OLD BEACH RIDGE. THE PRESENCE OF THE RED PINE AND WHITE PINE IS QUITE UNIQUE FOR THIS AREA.
32	42360 - Upland Cedar	Poletimber Well	22.1	88	81-110	This stand is really a transitional stand with undefined boundaries and great variability. BAs and composition are inconsistent, so is size classification. OPIC - FMD: THIS STAND DROPS OFF DOWN TO THE LAKE. THERE IS MUCH LESS HARDWOOD HERE THAN IN STAND #33 ADJACENT.
33	4319 - Mixed Upland Forest	Poletimber Well	81.6	180	111-140	Very unique stand from what I've seen of this island; lot of relic trees. Could have been selectively harvested in the past. Intermediate lowland/upland stand. Seasonally wet in many areas, high water table. Some very cool natural processes at work here. Unfortunately, deer are at work, too. Trace sugar maple (XL) and white spruce (L/P) in canopy. Far west is a bit heavier to cedar.
36	6120 - Lowland Cedar	Poletimber Well	101.9	125	111-140	5" cedar aged at 125. Very fragile soils. Complete moss bed in most areas. Log white cedar on perimeter and a bit in east along a small raised (still lowland) bridge. Pockets of sapling, pockets of log - predominately pole though. 1 red oak seedling. Trace BAM in canopy. There are pockets of low cedar density, dominated instead by an open canopy of aspen with high larch regeneration (saplings) and low black spruce and cedar. Heavy browsing pressure. Pitcher plant by 34 (N0). Trace willow, winterberry by N0 as well.
37	42370 - Upland Cedar, Aspen	Sawtimber Well	91.2	116	141-170	Gaps in canopy created by overmature aspen falling out. Upland with lowland tendencies, especially true in the southeast where there's a ridged swale complex. There are some monstrous aspen in here. Trace XL red oak in east on high lump.
38	6120 - Lowland Cedar	Poletimber Medium	66.3	121	111-140	Very wet stand. Similar to stand 36 but much smaller in diameter. Barely pole sized; could go with sap. Swale complex fans out across this stand with some parallel ridges (not upland) with 'larger' timber. OPIC - FMD: THIS IS A WET STAND WITH A LOT OF OPEN MARSHLAND MIXED THROUGHOUT.
39	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.0	86	81-110	Lowland leading up to open marsh and the beach. Thick balsam understory and super canopy white pine.
40	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.1	98	81-110	Very similar to 74, but with a higher concentration of aspen spp. All species are also present in the understory, but its very heavy to BF.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6120 - Lowland Cedar	Poletimber Well	27.3	127	81-110	Couple different ages on the cedar: 127 and 90. It's likely that this stand was harvested and the cedar slowly filled in. Heavy browse, even on fir. Areas with dense fir regeneration are 5-10', usually. Paper birch snags, dead black ash, BAM, and larch. Bullrush. Alder picks up in south towards L0; larch too. Sort of dry right now, but wet pockets; high water table. Couple of tip-ups (shallow soils). Trace white pine saplings. More red maple in canopy towards west central portion of stand. One yellow birch. Aspen 10% by cover, not by BA.
43	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	37.8	143	81-110	Not favorable walking conditions. Trace hemlock. XL quaking aspen scattered. Dead black ash on north edge; trace white pine and sugar maple (XL). Woodcock and grouse present. Trail bisects stand going N-S enroute to Echo Lake.
44	4110 - Sugar Maple Association	Sawtimber Well	16.8	181	111-140	Dead white ash snags. Tiny pocket of upland cedar; one solitary cedar in stand. Old sugar bush. Taps EVERYWHERE; old tubing still in trees, on ground. Dead cedar logs, blown over. Few dead birch. North half is a bit smaller (Log/pole/Xlog), whereas south half is log/xl. More balsam fir, white spruce regen in north, especially NW. OPIC - FMD: THIS STAND WAS USED AS A SUGAR BUSH UP UNTIL A FEW YEARS AGO. MUCH OF THE OLD TUBING IS STILL IN PLACE AND NEEDS TO EVENTUALLY BE REMOVED.
45	4131 - Aspen, Oak	Sawtimber Medium	12.2	113	51-80	High to full fir regeneration under lower stocked hardwood, cedar. More oak in the north. Stand transitions from quaking aspen to aspen/cedar.
46	4310 - Pine, Oak Mix	Sawtimber Well	13.0	150	111-140	Couple paper birch snags. Small pocket in southeast with white cedar, rather wet. Larger pine diameters (~16") in north. OPIC - FMD: I WOULD IMAGINE THAT THIS STAND IS WHY THE SURROUNDING AREA IS REFERRED TO AS "THE PINES". THIS IS THE HIGHEST CONCENTRATION OF RED PINE THAT I HAVE EVER SEEN ON THE ISLAND. QUALITY IS LACKING THOUGH. CERTAINLY NOT A COMMERCIALY VIABLE THINNING OPPORTUNITY.
48	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	87.7	98	1-50	OPIC - FMD: DENSE STAND OF VERY SMALL DIAMETER CONIFERS. VERY WET. LOOKS "SNAKEY".
49	4319 - Mixed Upland Forest	Sawtimber Well	411.6	126	141-170	Surprisingly uplandy. Gap dynamics happening throughout the stand. Very shallow soils; very spongy in areas. Few sugar maple saplings, scattered. A lot of blowdown and gaps in south, but good cedar regeneration within jack-strawed piles; fir and aspen too. Road follows more upland ridge which supports more hardwoods (sm, rm, pb). The lower portions of the stand are dominated by cedar, quaking aspen, and fir. OPIC - FMD: THIS STAND IS NOT CURRENTLY REALLY VERY WET ALTHOUGH IT COULD BE DURING CERTAIN TIMES OF THE YEAR. MOST OF THE HARDWOOD COMPONENT IS DEAD OR DYING, ESPECIALLY THE WHITE BIRCH. A LOT OF THE CEDAR IS VERY NICE QUALITY.
50	4199 - Other Mixed Upland Deciduous	Sawtimber Well	11.0	99	81-110	Basically the same as 58, but heavier to SM versus RO. Paper birch and beech are dying out.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	42360 - Upland Cedar	Sawtimber Well	86.7	140	141-170	This is a fairly complex stand that could be split in multiple ways... Natural processes occurring; gaps and regeneration. Very old, impassable two-track through stand. Powerline cuts its way through stand as well. Upland stand but very shallow soils with a few wet pockets. Cored two rotten cedar, one was 97 about 2/3 of the way through - estimate 140 years. Heavy browsing on accessible regeneration. OPIC - FMD: A DENSE STAND THAT IS NOT REALLY WET AT THE TIME OF INVENTORY. SOME ASPEN IS STILL ALIVE BUT A LOT HAS ALREADY DIED OUT.
53	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	2.3	88	111-140	BS and BF also in the understory. Difficult to get a good age.
54	6118 - Lowland Deciduous with Cedar	Poletimber Well	25.0	81	111-140	Transitional stand between lowland and upland. Lowland species are on western edge. Paper birch is getting very large and starting to die out.
56	6120 - Lowland Cedar	Sawtimber Well	21.0	196	141-170	Extremely fragile soils. Smaller diameters (pole/sap) on edge of bog. Few blow-down pockets - striped maple on perimeter of those. One hemlock seedling. Some pole dominated areas. More open and very messy in far north; much larger diameters in main doughnut; pole/sap dominate edge of bog; smaller diameters and even wetter in south. Also cored a 20" cedar at 240 years old with very little rot. Trace hemlock, BAM in canopy.
58	4199 - Other Mixed Upland Deciduous	Sawtimber Well	39.6	111	111-140	Stands 58 and 50 are very similar, but 58 is a little heavier to oak. Pockets of dead ash and dying beech. Paper birch is starting to die out as well. Good quality oak with marginal quality sugar maple. No desirable understory species.
59	4199 - Other Mixed Upland Deciduous	Sawtimber Well	39.6	84	111-140	BBD - dead and dying beech. Trace yellow birch and cedar in canopy. Yellow and paper birch snags. Decent sugar maple saplings >20', but the seedlings (<1'), despite their density, are unlikely to recruit due to browsing pressure. Few red maple and sugar maple cotyledons. North tip is dominated by log/Xlog sugar maple with prolific SM seedlings. Very cobbly ground. Small bottleneck in NW has very dense balsam fir regeneration (not listed in subcanopy). BAs range 80-160, averaging 111.
60	6120 - Lowland Cedar	Sawtimber Well	69.5	83	111-140	L/X white pine and hemlock on perimeter. Trace Xlog/Log yellow birch. Scattered dead black ash. Iris and bladder sedge in pockets. One sad yew, <5'. Extremely fragile soils. Alder is dense in south and east, lacking in north. Some portions of this stand appear to be relic and untouched. Stand has the appearance of being influenced by fire. Few red maple in the west. West half is pole dominated cedar; east is log dominated cedar. Middle south leg (between stands 62 and 84) has a small inclusion of log RM/BF/NWC/SM/Hemlock/PB/QA on upland ground.
63	6112 - Lowland Aspen	Poletimber Well	28.4	81	111-140	OPIC - FMD: TRANSITIONAL STAND OF OVER-MATURE ASPEN. SCATTERED AREAS OF BLOWDOWN THAT ARE COMING BACK INTO HARDWOOD REGENERATION. Wetter pockets with dead ash and tag alder. Aspen is falling out of stand and lowland conifers are taking over. Difficult to get age on the aspen, but SM was 85. Areas of very thick blowdown. Variable stocking and soil moisture.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	4199 - Other Mixed Upland Deciduous	Sawtimber Well	38.7	181	111-140	Pockets of very thick BF un the understory. Most of the sugar maple is large pole to log sized and if fairly good shape. Paper birch is falling out and covered in cankers. Hemlock is mostly isolated to one pocket.
65	4193 - Birch, Aspen	Sawtimber Well	15.9	98	81-110	Ownership disputes/concern. Check records. Less BF understory in east quarter. More cedar along shore, south of road (east half). OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.
66	4319 - Mixed Upland Forest	Sawtimber Well	20.5	105	141-170	Dead black ash pockets in northwest. Some very impressive stumps and burn scars. Marginal difference between upland and lowland. QA is rather consistent through the canopy with the exception of bands/pockets of dense cedar and pockets of balsam fir. Trace amounts of larch, BAM, red maple, and sugar maple. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. IT IS NOT WET AT THE CURRENT TIME BUT I WOULD IMAGINE THAT IT COULD BE DURING THE SPRING AND FALL. ASPEN AND BIRCH ARE SLOWLY DYING OUT BEING REPLACED BY FIR.
67	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Medium	9.6	98	111-140	Almost all QA/WC dominated in southeast leg. BA range is a little wider than indicated. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. IT IS NOT WET AT THE CURRENT TIME BUT I WOULD IMAGINE THAT IT COULD BE DURING THE SPRING AND FALL. ASPEN AND BIRCH ARE SLOWLY DYING OUT BEING REPLACED BY FIR.
68	4319 - Mixed Upland Forest	Poletimber Well	26.9	97	111-140	Northeast has a bit more bigtooth and red maple. Drainage along south edge of cedar, fir, quaking aspen with a lot of blowdown. Trace amounts of balsam poplar, tamarack, and white pine in canopy. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA.
70	4319 - Mixed Upland Forest	Poletimber Well	5.2	105	141-170	Few clumps of balsam fir understory, otherwise no reportable subcanopy. No saplings in canopy - unable to represent pole/log only with such small diameters. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA.
71	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.7	98	171-200	Very difficult walking around this stand. Some rather large old stumps. Pockets of very dense small poles. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA.
72	4319 - Mixed Upland Forest	Sawtimber Well	10.0	115	81-110	Trace balsam poplar in canopy. OPIC - FMD: THIS IS NOT A WET STAND. THERE IS ACTUALLY QUITE A BIT OF HARDWOOD MIXED IN.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
74	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.1	98	111-140	74 and 40 are very similar stand. A lot standing dead cedar in 74 assumed to be associated with hydrology issues next to the roadway. Variable soil moistures. Aspen is so large is could be considered super canopy. BF, QA, and BS all in the understory as well.
77	4199 - Other Mixed Upland Deciduous	Sawtimber Well	41.0	145	81-110	Came across one white pine in canopy (XL). Browsing on striped maple. OPIC - FMD: THIS IS AN UPLAND STAND WITH A LARGE NUMBER OF SPECIES REPRESENTED.
78	4131 - Aspen, Oak	Sawtimber Medium	20.6	145	81-110	Trace white spruce, red pine, red maple in canopy. Declining sugar maple canopy giving way to balsam fir and white spruce. This stand is a bit wetter than the stands to the east and west. Paper birch snags. Oak dominates south portion. Highly variable canopy (species composition), yet consistent. Fir understory is dense. Occasional burn scar.
79	4131 - Aspen, Oak	Sawtimber Well	17.8	149	81-110	This stand lacks the abundant balsam fir understory of the adjacent stands. Vaccinium under red pine in south. Fire origin RP. Oak present throughout; aspen present in pockets. One beech, 14" dbh. BA is fairly consistent around 110/120. Very awesome stand.
80	4199 - Other Mixed Upland Deciduous	Sawtimber Well	24.9	120	81-110	Scattered relic white pine, hemlock. Very cool stand with potential historical significance.
81	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	19.7	95	111-140	Stiff clubmoss and bracken ground flora. Clumpy hemlock, bigtooth, balsam fir. Beech with BBD in south. Trace amounts of beech, quaking aspen, white pine and cedar in canopy. Trace beech (single clump) saplings. Stand is sort of a transition, gently sloping, from upland to lowland. Trace white cedar in north. North is dominated by XL red oak, then red maple to the extreme north. Rather variable stand along its entirety.
82	6120 - Lowland Cedar	Poletimber Medium	50.6	121	51-80	Dead black ash, paper birch. Alder is mixing with canopy. Some areas are more open than others. East half is more densely forested, 50-75% cover - stand boundaries are a little muddled. Greater occurrence of logs in east; more aspen.
83	42370 - Upland Cedar, Aspen	Sawtimber Medium	22.3	130	111-140	Less dense, more quaking aspen, greater disturbance (wind-throw), smaller cedar diameters than adjacent cedar stands. Balsam fir has been declining and falling out of the canopy. Trace hemlock and black spruce in canopy. Currently upland with low, wet spots. Great potential to be lowland in the right year.
84	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	12.3	78	81-110	Not a terribly impressive stand. The gravel pit has been expanding in this direction, and that's not a bad use of this ground. A lot of lesser quality, multi-stemmed timber from what I remember.
85	42350 - Upland Hemlock	Sawtimber Well	18.1	128	141-170	
92	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.9	96	111-140	Very heavy to oak. Cedar is concentrated along the western edge.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	42370 - Upland Cedar, Aspen	Sawtimber Well	4.2	160	111-140	Old two-track through middle of stand, E-W. Trace BAM, white spruce in canopy.
94	6112 - Lowland Aspen	Sapling Medium	8.7	26	141-170	Some "supercanopy" quaking aspen, cedar, otherwise it's a regenerating aspen/fir stand resulting from natural disturbance. Lots of snags and blow-down. Sensitive soils.
95	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	2.4	135	141-170	Dead beech. Trace paper birch. Small clump of hemlock. Oak in north end.
97	4123 - Red Oak	Sawtimber Well	10.2	85	81-110	Driveway and house on state land. Check ownership. Stump sprout hardwood. Dead beech (BBD). East edge of stand is heavy to pole timber.
98	4193 - Birch, Aspen	Sawtimber Well	0.0	98	81-110	Ownership disputes/concern. Check records. Less BF understory in east quarter. More cedar along shore, south of road (east half). OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.
99	4193 - Birch, Aspen	Sawtimber Well	0.0	98	81-110	Ownership disputes/concern. Check records. Less BF understory in east quarter. More cedar along shore, south of road (east half). OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.
100	4193 - Birch, Aspen	Sawtimber Well	0.0	98	81-110	Ownership disputes/concern. Check records. Less BF understory in east quarter. More cedar along shore, south of road (east half). OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.
101	4193 - Birch, Aspen	Sawtimber Well	0.0	98	81-110	Ownership disputes/concern. Check records. Less BF understory in east quarter. More cedar along shore, south of road (east half). OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.
102	4193 - Birch, Aspen	Sawtimber Well	0.0	98	81-110	Ownership disputes/concern. Check records. Less BF understory in east quarter. More cedar along shore, south of road (east half). OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.

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Gaylord Mgt. Unit

Report 7 – Forested Stands

Compartment: 221
Year of Entry: 2020



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
103	4193 - Birch, Aspen	Sawtimber Well	0.0	98	81-110	Ownership disputes/concern. Check records. Less BF understory in east quarter. More cedar along shore, south of road (east half). OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.
104	4193 - Birch, Aspen	Sawtimber Well	0.0	98	81-110	Ownership disputes/concern. Check records. Less BF understory in east quarter. More cedar along shore, south of road (east half). OPIC - FMD: THIS IS PREDOMINANTLY AN UPLAND HARDWOOD STAND. THE BIRCH COMPONENT IS SLOWLY DYING OUT. MORE TOLERANT HARDWOODS AND FIR ARE FILLING IN. JUST LET NATURE TAKE ITS COURSE.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	3102 - Grass	1.6	No	OPIC - FMD: A LONG NARROW SWALE. THE EAST END HAS SOME DEAD STANDING TIMBER. Quaking aspen in the west. Few log, mostly browsed saplings.
5	6230 - Cattail	4.8	No	One elderberry on root ball above browse height on edge of stand 2.
7	6224 - Treed Bog	8.6	No	
9	622 - Lowland Shrub	12.4	No	Bullrush. Beaver flooding possibly?
12	720 - Exposed Rock	1.7	No	OPIC - FMD: THIS IS A WIDE COBBLE BEACH.
17	629 - Mixed non-forested wetland	1.5	No	OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. OPEN MARSHLAND ON THE SHORE OF MUD LAKE.
18	500 - Water	22.9	No	OPIC - FMD: THIS IS MUD LAKE WITHIN THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA.
19	623 - Emergent Wetland	3.2	No	OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. OPEN MARSHLAND ON THE SHORE OF MUD LAKE.
20	6239 - Mixed Emergent Wetland	2.3	No	OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. OPEN MARSHLAND ON THE SHORE OF MUD LAKE.
22	500 - Water	1.1	No	OPIC - FMD: THIS IS A SMALL POND WITHIN THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. THIS PARTICULAR POND HAS NOT CHANGED IN SIZE MUCH SINCE THE 1998 PHOTOS SO IT IS MOST LIKELY DEEPER WATER.
23	500 - Water	2.2	No	OPIC - FMD: THIS IS A SMALL POND WITHIN THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. THIS PARTICULAR POND HAS DIMINISHED IN SIZE A LOT SINCE THE 1998 PHOTOS SO IT IS MOST LIKELY QUITE SHALLOW.
24	6239 - Mixed Emergent Wetland	12.0	No	Concern over phragmites. Looked exotic from a distance. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. OPEN MARSHLAND SOME OF WHICH FEELS LIKE A FLOATING BOG. LOTS OF PITCHER PLANTS THROUGHOUT.
25	500 - Water	2.0	No	OPIC - FMD: THIS IS A SMALL POND WITHIN THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. THIS PARTICULAR POND HAS DIMINISHED IN SIZE A LOT SINCE THE 1998 PHOTOS SO IT IS MOST LIKELY QUITE SHALLOW. LARGE BEAVER LODGE IN THE MIDDLE.



Stand	Cover Type	Acres	Managed Site	General Comments:
26	629 - Mixed non-forested wetland	2.0	No	Peeked at north tip. Swale with grass and a few fir/cedar on perimeter. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. THIS IS A STAND OF HEAVY MARSH GRASS LYING BETWEEN TWO DISTICT RIDGES.
29	123 - Other High Intensity Urban	10.5	No	Stand is mostly a road, powerline, and shoreline. Ground between road and shoreline is about 25% forested with highly variable diameters. Small pockets of water and occasional drainages along stand. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. THIS IS VERY SPARSE, STUNTED TIMBER GROWING IN BEACH COBBLES OR ELSE BENEATH AN OVERHEAD ELECTRIC LINE. SOME AREAS OF PONDED WATER LIE WITHIN THIS STAND BETWEEN THE ROAD AND STAND #27.
30	720 - Exposed Rock	2.3	No	OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. THIS IS A WIDE AREA OF EXPOSED COBBLES. ONLY OCCASSIONAL STUNTED CEDAR OR SHRUBS. THE SIZE OF THE STAND VARIES GREATLY WITH THE CHANGING LAKE LEVELS.
31	622 - Lowland Shrub	6.0	No	Wet stand with some alder, cedar, occasional fir. OPIC - FMD: THIS IS A LOW WET TAG ALDER STAND.
34	623 - Emergent Wetland	3.3	No	Very stunted trees.
35	500 - Water	0.3	No	OPIC - FMD: SMALL SHALLOW POND.
42	622 - Lowland Shrub	59.1	No	More vegetation south/west of Sucker Creek. Hummocky: tussock sedge? Peripheral dead black ash, larch. Swamp milkweed present. Trace log white pine and red maple. Alder is much more dense along the perimeter of the stand. Some rather interesting ferns. OPIC - FMD: STAND SURROUNDS SUCKER CREEK. ONGOING BEAVER ACTIVITY HAS KILLED THE LOWLAND HARDWOOD TIMBER.
47	622 - Lowland Shrub	15.1	No	OPIC - FMD: LOWLAND SHRUBS WITH SOME STUNTED CEDAR. WET MOST OF THE YEAR.
52	622 - Lowland Shrub	6.3	No	Lowland shrub with a powerline running through it. Some standing dead cedar and ash. Most have blown over.
55	6239 - Mixed Emergent Wetland	2.3	No	OPIC - FMD: OPEN MARSHLAND WITH SOME WATER.
57	6233 - Wet Meadow	1.3	No	Dead black ash on west half. Part wet, part dry. OPIC - FMD: SMALL BUT DISTICT SWALE OF OPEN MARSHLAND. NOT WET NOW BUT IT LOOKS LIKE IT WOULD COMMONLY HOLD WATER.
61	710 - Sand, Soil	7.3	No	Active gravel pit. Lots of slash piled from expansion. Some areas still trees - mostly balsam fir with maple, birch overstory. OPIC - FMD: THE "OLD DUMP" GRAVEL PIT UNDER A LONG-TERM MINERAL LEASE.



Stand	Cover Type	Acres	Managed Site	General Comments:
62	6239 - Mixed Emergent Wetland	14.8	No	Dead black ash on perimeter. Sparsely vegetated. Concern over phragmites. Small forested inclusion in south. OPIC - FMD: OPEN MARSHLAND WITH SOME WATER. SOME SMALL ASH SAPPLINGS NEAR THE EDGES OF HIGHER GROUND.
69	710 - Sand, Soil	0.1	No	
73	122 - Road/Parking Lot	0.4	No	Township parking lot and transfer station. Parking lot easement has recently extended to the west.
75	6223 - Inundated Shrub Swamp	0.4	No	A lowland/pond area with standing dead black ash and cedars. Filling in with grasses and tag alder around edge.
76	122 - Road/Parking Lot	2.5	No	Huron Street and a lowland area.
86	123 - Other High Intensity Urban	0.3	No	PRIVATE HOME. CHECK LOTS. OPIC - FMD: THE SURROUNDING HARDWOOD STAND HAS A SIGNIFICANT HEMLOCK COMPONENT. QUALITY DENSE HARDWOODS DO NOT, UNFORTUNATELY MAKE UP THE DOMINANT PROPORTION OF THE BASAL AREA. THERE IS A PRIVATE HOME WITHIN THIS STAND. NOT SURE IF IT IS ACTUALLY PROPERLY LOCATED ON THE OWNER'S SUBDIVISION LOTS OR NOT. A DEER/RABBIT EXCLOSURE IS LOCATED IN THE SOUTHEAST CORNER OF THE STAND ON THE EAST SIDE OF THE COUNTY ROAD ADJACENT TO STAND #49.
87	3102 - Grass	0.7	No	Small grassy opening, seasonally wet. Narrow swale continues to east, connecting to L0, but covertype over it remains M9.
88	622 - Lowland Shrub	2.4	No	Neat landform; a confluence of swales. Few dead black ash. OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA.
89	6225 - Bog	4.9	No	OPIC - FMD: THIS STAND IS AN HCVA BEING PART OF THE FORMALLY DEDICATED SNAKE ISLAND/MUD LAKE NATURAL AREA. OPEN MARSHLAND SOME OF WHICH FEELS LIKE A FLOATING BOG. LOTS OF PITCHER PLANTS THROUGHOUT.
90	622 - Lowland Shrub	6.6	No	Open marshland with occasional lowland tree species.
91	110 - Low Intensity Urban	0.6	No	Former trespass. Remedied.
96	3102 - Grass	0.7	No	One-room building on site. Clinton Street sign. OPIC - FMD: THERE IS A STRONG POSSIBILITY THAT THIS IS THE PLATTED SCHOOL SITE WITHIN THE BOB LO GARDENS SUB-DIVISION. IF SO THIS MAY ACTUALLY BE PRIVATELY OWNED.
400	3102 - Grass	5.4	No	OPIC - FMD: THIS IS THE RECENTLY CLOSED AND RECLAIMED "AIRPORT" GRAVEL PIT. LAST WORKED IN FOR THE 2005 RUNWAY PAVING PROJECT. Flagged stand due to invasive multiflora rose.



Stand	Cover Type	Acres	Managed Site	General Comments:
401	3102 - Grass	6.0	No	Small sand pit (RDR) in southwest from ORV damage. Conifer under sugar maple, red oak clumps, dense. Couple bird houses. Trace milkweed. OPIC - FMD: THIS NATURAL OPENING HAS SCATTERED APPLE TREES IN IT. MIGHT HAVE BEEN AN OLD HOMESTEAD.
402	123 - Other High Intensity Urban	1.2	No	Landfill. Gated with vent pipes in ground. OPIC - FMD: THIS IS THE OLD TOWNSHIP LANDFILL SITE. IT IS PROTECTED FROM ANY DISTURBANCE BY A LEGALLY RECORDED MANDATE, SEE THE COMPARTMENT FILE FOR A COPY OF THE RESTRICTIONS.