



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61001

Entry Year 2025

Acreage: 1,585

County Leelanau

Management Area: Grand Traverse Moraine

Stand Examiner: Patrick Cotant

Legal Description:

T28N R12W Sections 8, 9, 10, 15, 16, 17, 20

Identified Planning Goals:

This compartment falls within the Manistee Plains management area, for which a plan is being developed. The current draft plan projects some harvesting opportunities in lowland forest based on overall acreage and age class distribution of various lowland types present here. Nevertheless, there are many factors which disfavor timber harvesting in this compartment:

- There are no roads within the compartment; county roads abut state land at only 2 short stretches. Management access is mostly limited to private lands with few feasible approaches to state land.
- The compartment is almost entirely covered with muck soils which are highly prone to rutting and disruption of local hydrology.
- Most of the compartment coincides with two MNFI element occurrences for Northern Fen and Rich Conifer Swamp communities.
- Existing conifer forests here serve as important deer winter cover for the surrounding area as well as habitat for many other species.
- The ability to regenerate cedar post-harvest is almost impossible given deer browsing pressure. Past harvests or other disturbances have resulted in regeneration of black ash, balsam fir, tamarack and paper birch, but virtually no cedar.
- The timber is of generally poor quality, with a high amount of blowdown and hummocky terrain.
- Numerous streams pass through the compartment.
- This compartment has a pending nomination as a Biodiversity Stewardship Area.

Given these factors, it is recommended that the majority of the compartment be designated as a Special Conservation Area wherein active management would be limited to fish and wildlife habitat improvement (e.g. small habitat cuts) or exotic species control. A few stands on the compartment margin might remain available for harvest of cedar poles for DNR use, habitat work, or for commercial thinning of upland hardwoods if private land access is feasible and attainable. Otherwise, the most important values to consider in management of this state forest compartment include recreational access for boating, deer hunting, waterfowl hunting, trapping, and fishing.

Soil and topography:

Soils within the compartment are predominantly Lupton-Markey muck and Adrian-Houghton muck. Other than a relatively few acres along the north edge and at the southwest corner, the compartment is entirely flat lowland.

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

This is an isolated compartment of state land, surrounded by private lands, with South Lake Leelanau to the northeast. Private uplands are mainly agricultural and rural residential properties. The village of Cedar is just northwest of the compartment, including a township park property that abuts an isolated 40-acre state parcel. Privately owned lowlands are intermingled with state lands and are primarily used for deer hunting. The Leelanau Conservancy's Cedar River Preserve abuts the compartment on the north.

Unique Natural Features:

The Solon Swamp, much of which is state owned, is the largest and most important deer yard in Leelanau County. Several creeks converge within the compartment to form the Cedar River just before it flows into South Lake Leelanau.

Archeological, Historical, and Cultural Features:

An abandoned railroad grade traverses parts of the compartment.

Special Management Designations or Considerations:

The Michigan Natural Features Inventory has listed two element occurrences which cover most of the compartment. These are a Northern Fen and a Rich Conifer Swamp. As discussed above under "Management Goals", most of the compartment is being proposed as a Special Conservation Area to protect wildlife habitat and other ecological values, and also has a pending nomination as a Biodiversity Stewardship Area.

Watershed and Fisheries Considerations:

This compartment contains the Solon Swamp, which is a large wetland complex adjacent to South Lake Leelanau that provides extensive amphibian habitat as well as ecosystem benefits for the fisheries in the lake. It also contains portions of Cedar Run Creek, Clearbrook Creek, Cedar Creek, and their associated tributaries. All of these streams are naturally reproducing brown trout streams that contribute heavily to the Lake Leelanau fisheries. Though the proposed treatments do not appear as though they will have a significant impact on any of these features, the appropriate BMP's and buffers should be followed.

Wildlife Habitat Considerations:

This compartment is almost entirely within a flat lake plain landscape. The habitat, both historically and currently, is dominated by swamp conifer forest. Natural processes include primarily windthrow, beaver impoundment, and succession. Numerous streams and flowages run throughout. Large open bogs with stunted cedars parallel Victoria and Cedar Run Creeks, with diverse bog vegetation including abundant pitcher plant.

This is the most important deer yarding area in Leelanau County, but very little browse is currently available. Much of the compartment has various sizes and ages of blowdown patches, often downwind of more recent blowdown and older cut patches. These blowdowns and cuts are mostly regenerating to balsam fir and black ash, with varying amounts of black spruce, tamarack, white birch, white pine, and red maple seedlings and saplings. Cedar regeneration is scarce. Some blocks have been cut in the last 3 decades to harvest cedar posts or to improve habitat. These are regenerating fairly well, but not to cedar. Further timber harvest to improve habitat and regenerate forest cover would be of low value and high environmental risk because of wet soils and loss of important existing cover. Some small non-commercial habitat cuts might be desirable to maintain deer food and would likely regenerate, at least to fir, ash, or aspen, though natural blowdown is creating some of this condition anyway. Very little of the cutting prescribed in the 1981 wildlife plan was ever completed.

Lowland conifer cover provides habitat for not only deer, but is also important for bobcat, snowshoe hare, winter wren, red-breasted nuthatch, and brown snake. Red-shouldered hawks are likely nesting on the fringes of the swamp in hardwood stands and using bottomland cover for feeding. Victoria Creek and two unnamed ponds provide important habitat for merganser, black duck, goldeneye and other waterfowl.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and minor end moraine of coarse-textured glacial till. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale. The Antrim is used for cement products. The nearest gravel pit is several miles away but there should be gravel potential along the west border. This area is located northwest of the current Antrim Shale gas play, but there could be some potential. There are currently no oil and gas leases in the Compartment. There is no known metallic mineral potential in this part of the state. The nearest active sand/gravel pit is more than three miles away. Much of the compartment is low and wet with limited potential for development of sand and gravel. There is some potential for Antrim Shale gas production from beneath the compartment, but completing new wells here is unlikely to be economical. The compartment is many miles from any active Antrim production. Several Antrim wells were drilled between 2008 and 2011 just south of the compartment, but pipelines were never extended to the area, and the wells have since been orphaned. There is no other known potential for oil & gas from known hydrocarbon producing formations beneath the compartment. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access is extremely limited, with county roads touching state lands only at the southeast and southwest corners of the compartment. There is potential access to the isolated 40 acre parcel in the northwest corner via adjacent township property. An old railroad grade passing through the swamp is used by locals for hunting access. Adjacent private lands have some poor roads and trails which approach state land in a few spots.

Survey Needs:

Private land survey corners mark a few of the property boundaries. No additional surveying is needed at this time.

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment; however, the Solon Swamp is popular for deer hunting and some trapping. Waterfowl hunters and kayakers access an unnamed pond and the mouth of the Cedar River from the boat launch just north of Cedar. Waterfowl hunting is also popular along the South Lake Leelanau shoreline. Streams running through the compartment provide some walk-in fishing opportunities.

Fire Protection:

Fire protection for this area is provided by the local township fire department and from the Traverse City DNR office. The area is mainly lowland with limited road access for heavy fire equipment but there has been relatively low fire history in the unit. Travel time for DNR suppression equipment from Traverse City is a concern.

Additional Compartment Information:

Some initial discussion has taken place with the Leelanau Conservancy concerning potential land exchanges to consolidate holdings for both parties.

The following reports from the Inventory are attached:

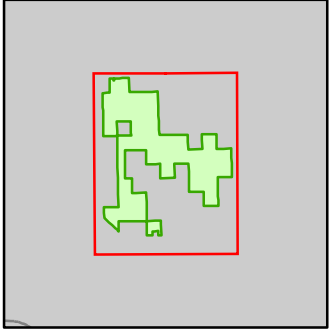
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

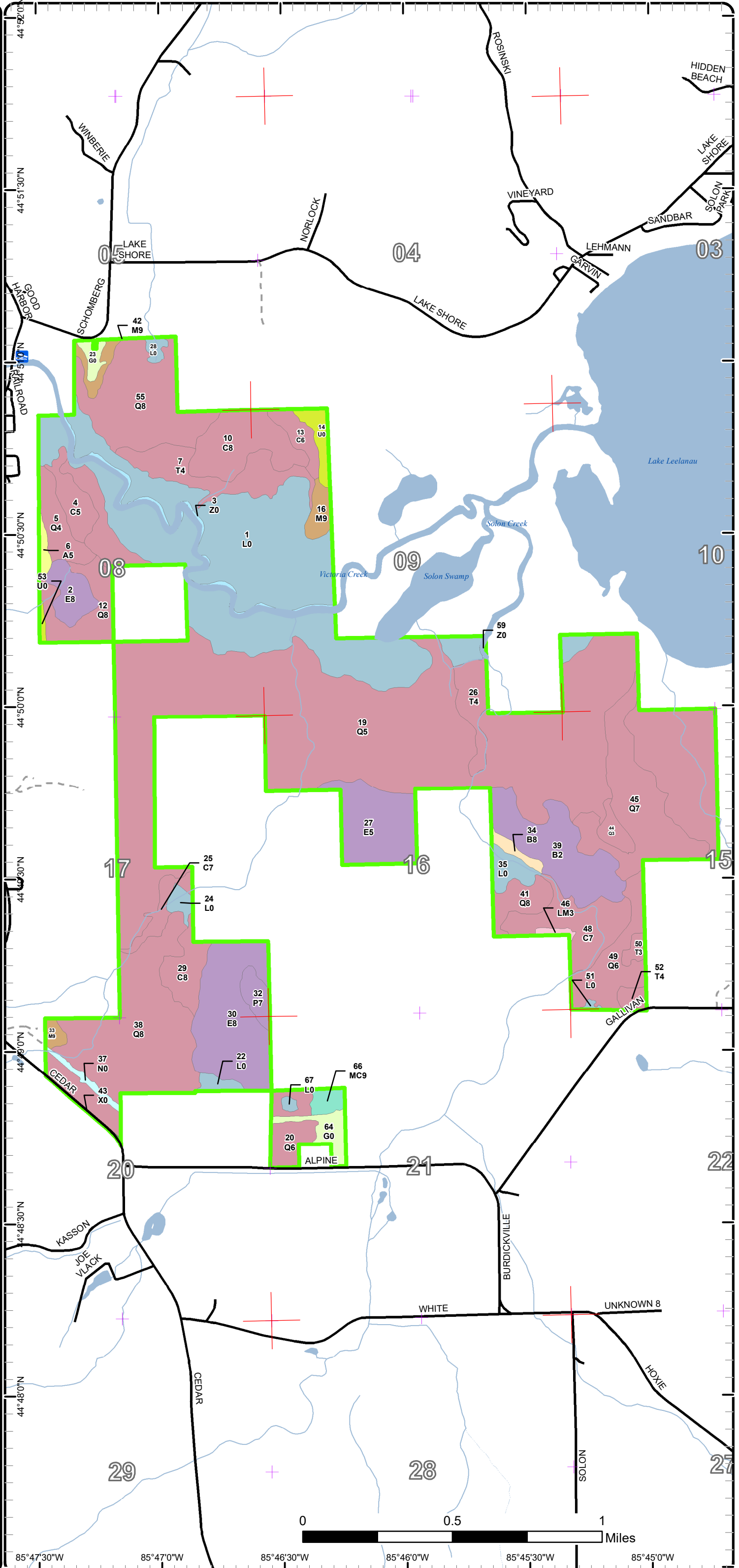
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 1
 T28N-R12W Sec. 8-10 15-17
 T28N-R12W Sec. 20
 County: Leelanau
 Unit: Traverse City
 Mgmt Area: Grand Traverse
 Moraine
 YOE: 2025
 Acres: 1585.2 GIS Calculated
 Examiner: Patrick Cotant
 Map Revised: 5/9/2023
 Map Phase: Web-Post



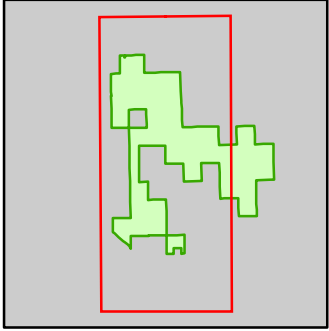
- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Boating Access Site
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



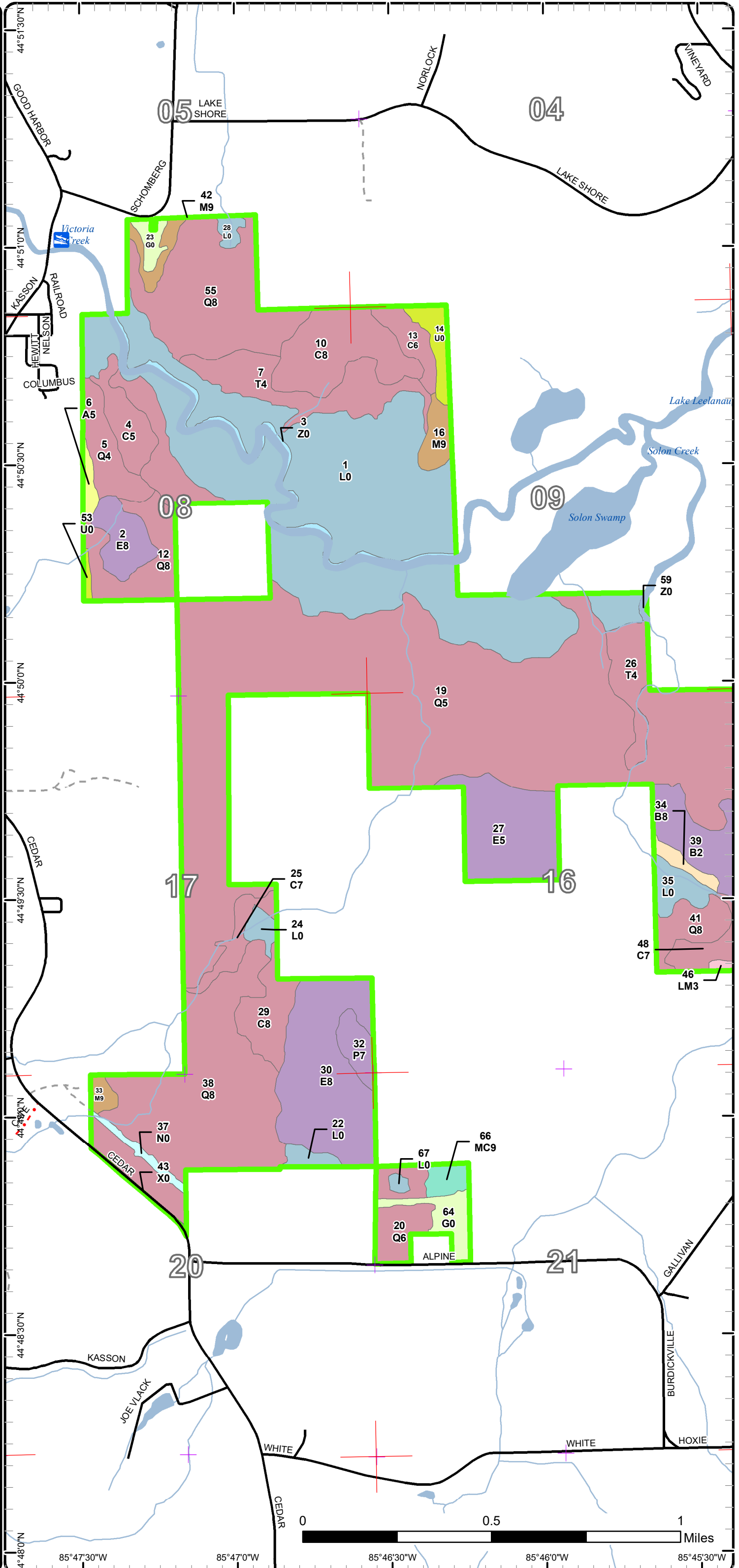
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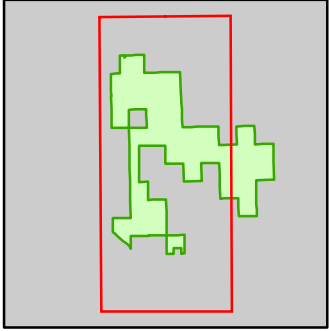


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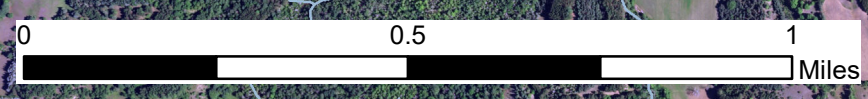
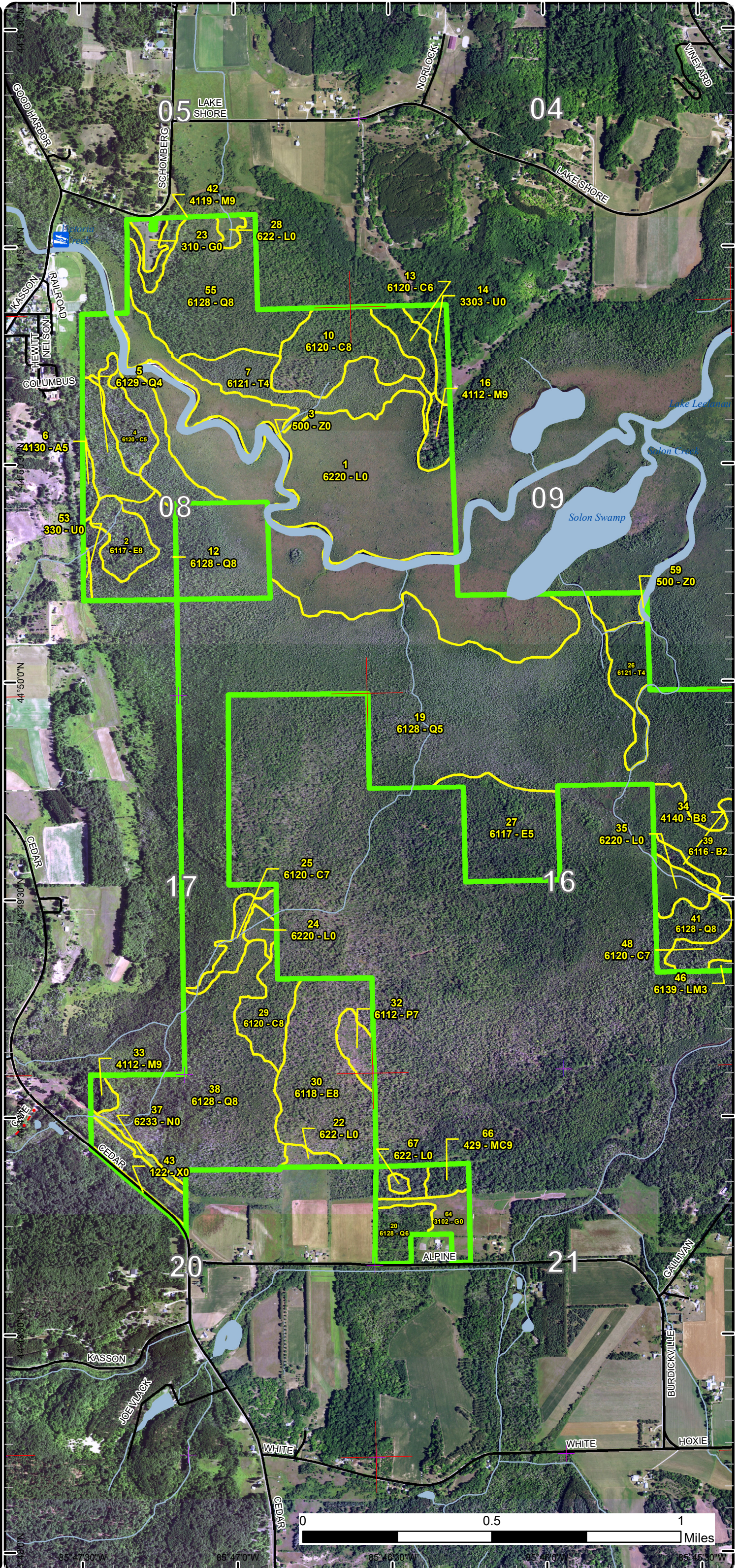


Stand Boundary Map

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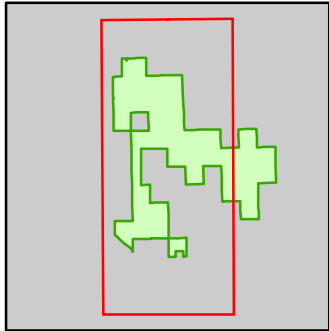
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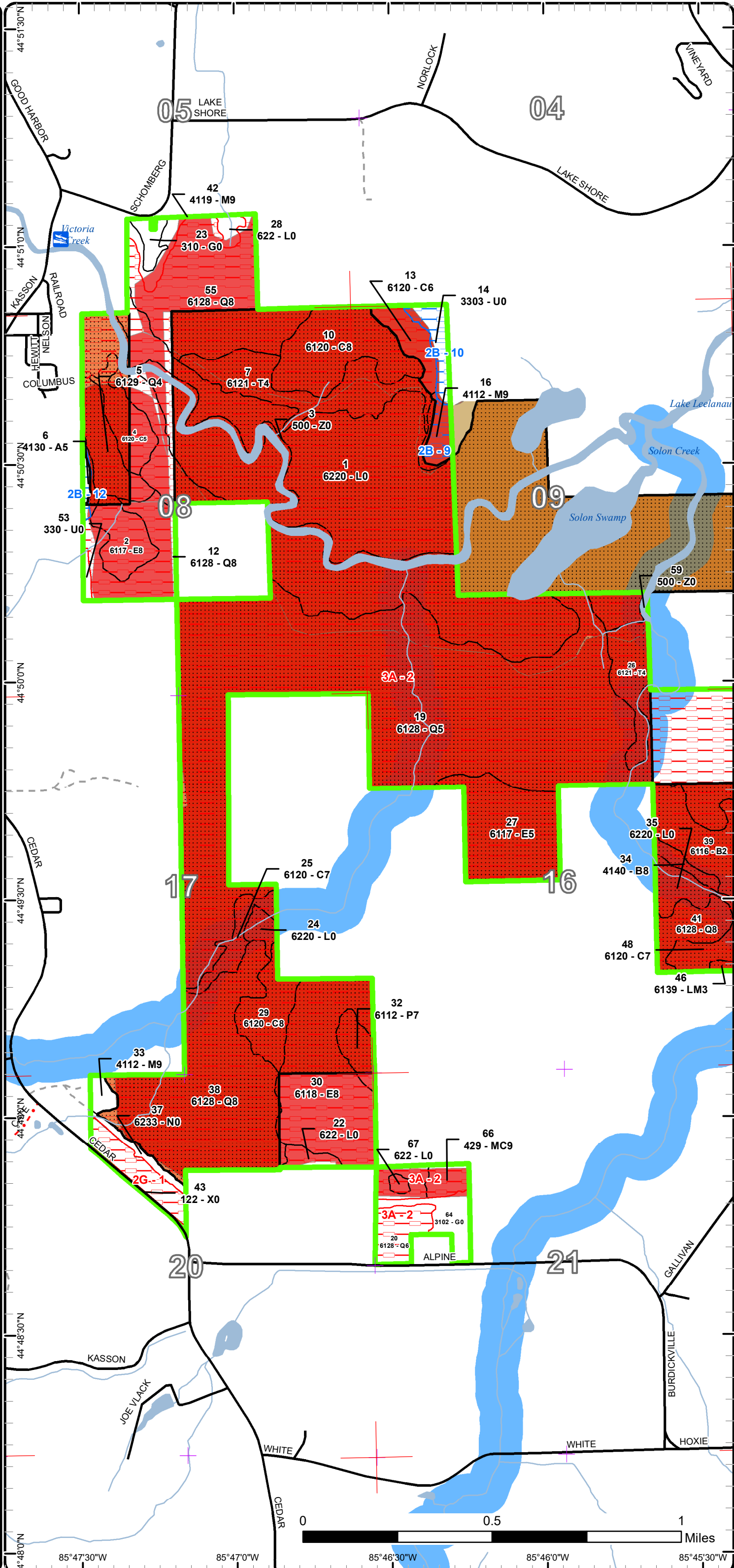
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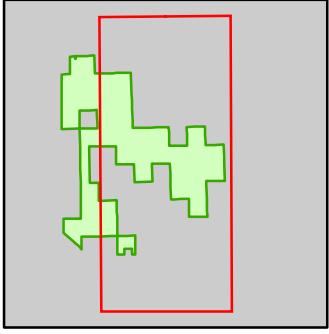


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- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Other Habitat Area

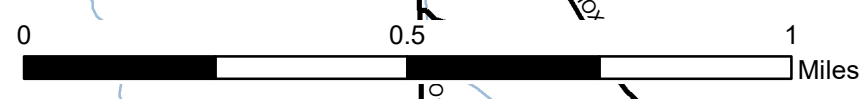
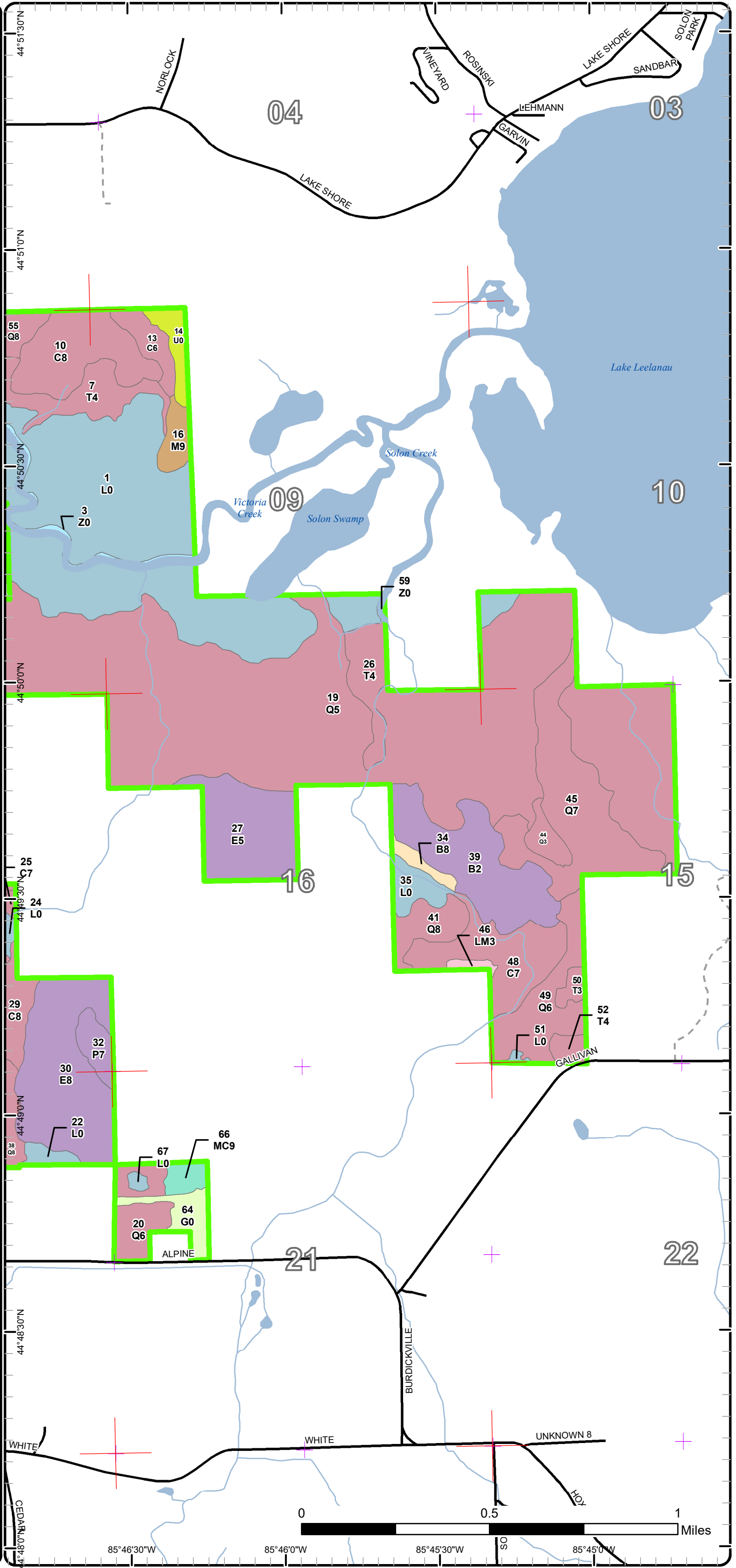


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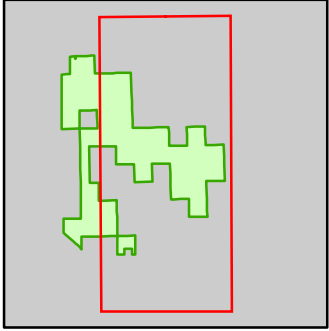
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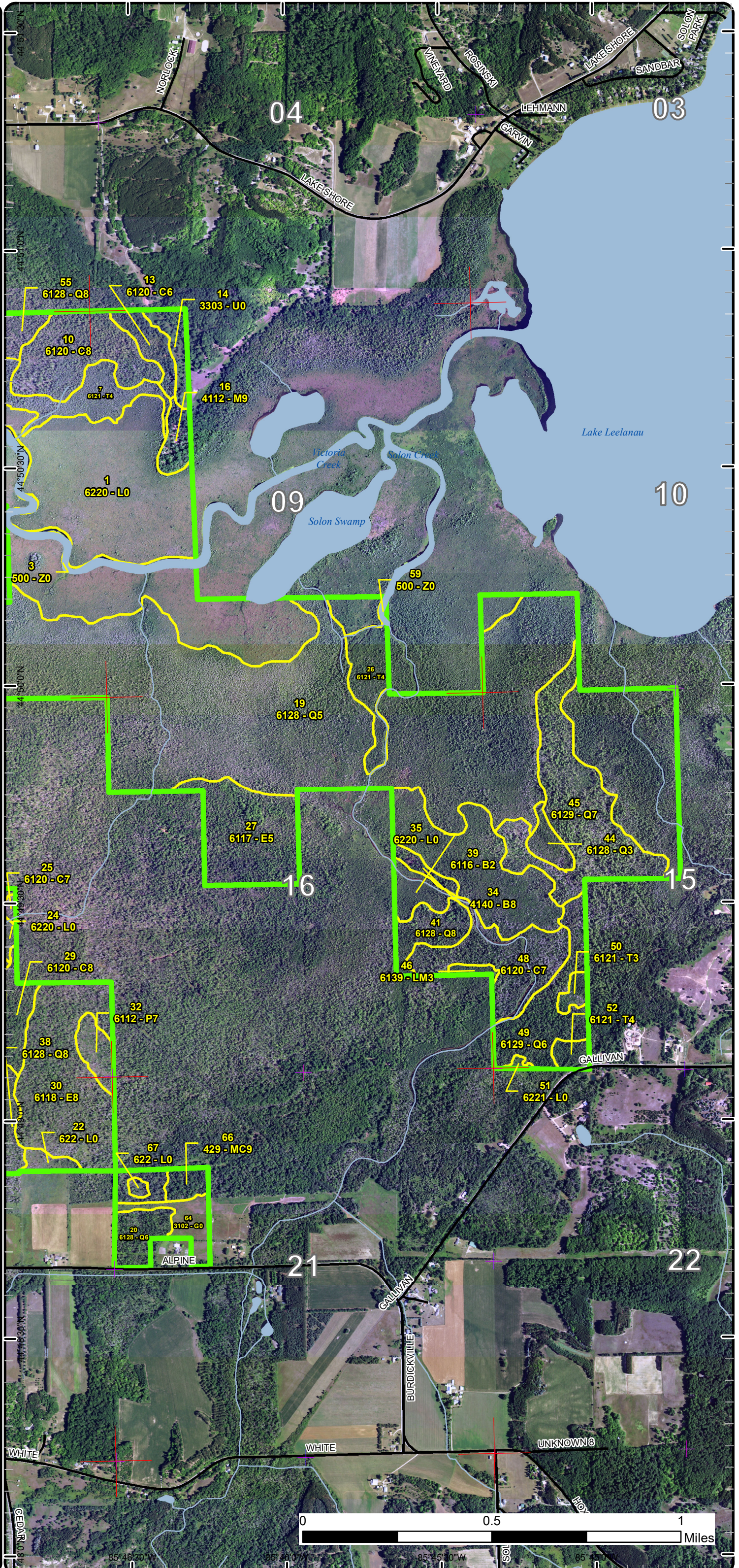
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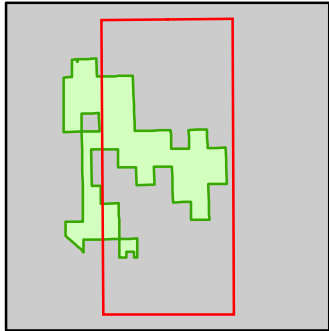


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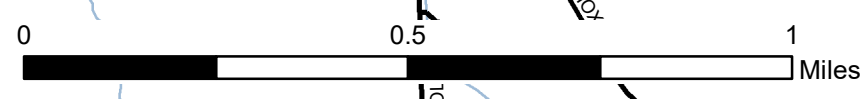
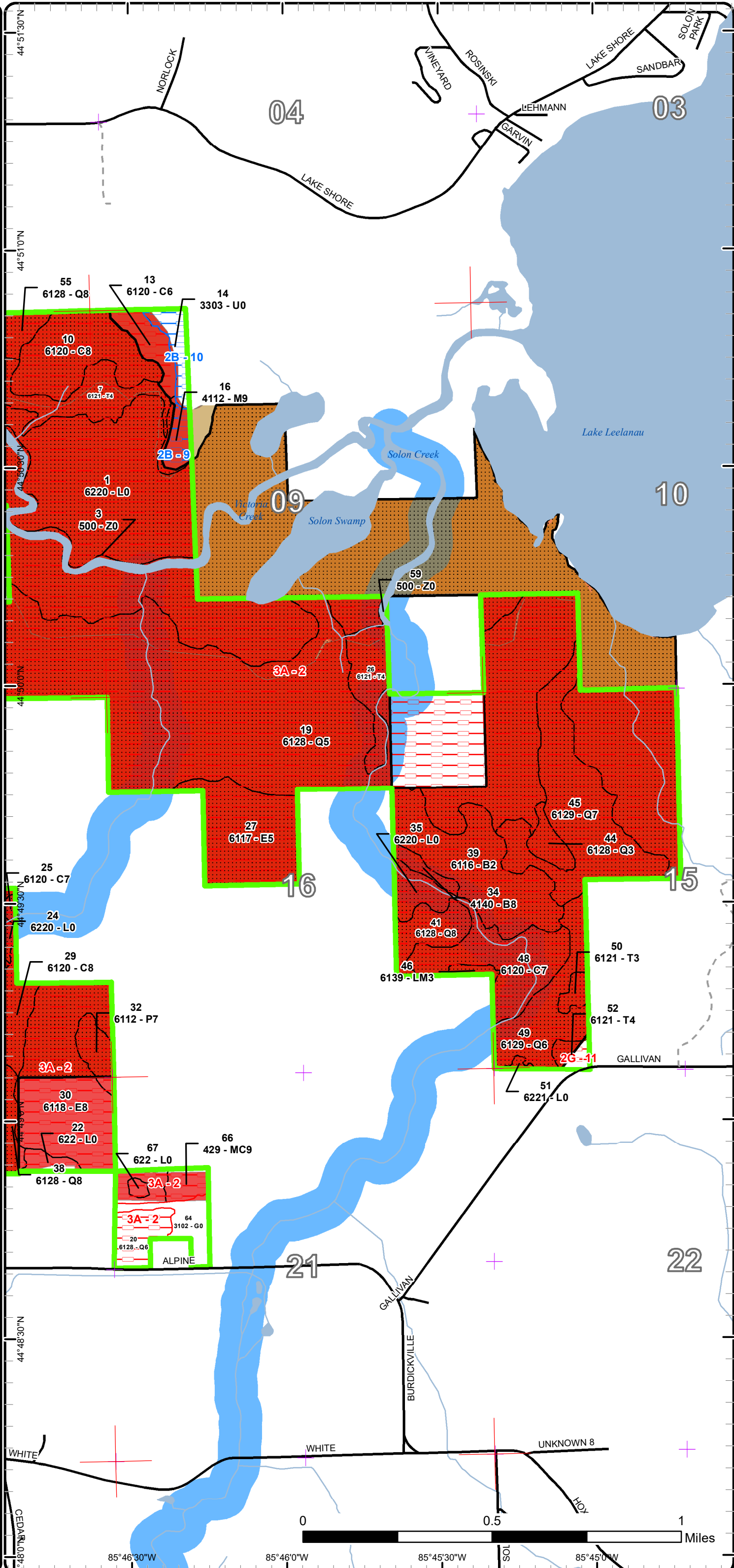


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- Ecological Reference Areas
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Other Habitat Area



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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	45	0	0	18	51	0	0	10	124
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	7	0	0	18	47	76	0	0	0	0	0	699	847
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	120
Lowland Mixed Forest	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	281	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	281
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	8	18
Paper Birch	0	0	0	0	0	51	0	0	0	0	4	0	0	0	0	0	0	0	54
Tamarack	0	0	0	0	4	0	0	0	0	0	17	0	51	0	0	0	0	5	77
Upland Conifers	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Total	328	0	0	0	6	55	7	8	0	18	222	103	0	69	51	0	0	722	1588



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 1
Total Compartment Acres: 1,585

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



S
t
a
n
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Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Habitat
Cut

Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 1

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	2B	2G	3A
4	0	2	1	Aspen	2	1
123	0	0	123	Cedar	0	123
15	15	0	0	Herbaceous Openland		
10	2	9	0	Low-Density Trees	9	0
8	0	0	8	Lowland Aspen/Balsam Poplar		8
847	0	0	846	Lowland Conifers		833
120	0	0	120	Lowland Deciduous		120
2	0	0	2	Lowland Mixed Forest		2
281	3	0	278	Lowland Shrub	0	278
4	4	0	0	Marsh		0
17	10	6	2	Northern Hardwood	6	2
55	0	0	55	Paper Birch		55
76	0	0	76	Tamarack		73
6	0	0	6	Upland Conifers		6
1	1	0	0	Urban		0
16	0	0	16	Water		16
1,585	36	17	1,533	Total Forested Acres	17	1,517
	2%	1%	97%	Relative Percent		

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	3L: Other wildlife concerns	Unspecified	Unspecified
Comments: Harvesting close to the busy county road may create browse attractive to wintering deer, which would elevate the risk of car-deer collisions.							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	1,518	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: This area is listed in the element occurrence database as a Northern Fen community.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 1

Year of Entry: 2025

9	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	2E: Road needed	Unspecified	Unspecified	Unspecified
<p>Comments: Would need to cross multiple ownerships for truck access to this stand.</p>							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<p>Comments: Steep drop from county road to stand prohibits vehicle access.</p>							
12	Available	2B: Unknown if access through adjacent landowner(s) is possible	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							



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
Solon Swamp	Habitat Area	Other Habitat Area	SCA	1515
Comments				
2 MNFI special communities; ruttable muck soils; very limited access; deer yarding. Cedar regen. dubious. Limit mgmt. to fish/wld improvement or exotic spp. control; otherwise leave unmanaged.				



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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1 6220 - Alder/willow Nonstocked 257.8 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Low		Non-Wood
Red Osier Dogwood	Low		Tall Shrub
Black Ash	Low		Log
Tag Alder	Full		Tall Shrub
Northern White Cedar	Low		Pole
Viburnum	Trace		Tall Shrub
Quaking Aspen	Trace		Log

2 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 14.7 93 Unspecified N/A

3 500 - Water Nonstocked 14.9 Unspecified No Victoria Creek

4 6120 - Lowland Cedar Poletimber Medium 14.2 131 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	3	Pole	7	
Northern White Cedar	65	Pole/Log	9	131
White Pine	2	Log/Pole/XLog	16	
Black Spruce	2	Pole	7	
Hemlock	8	Log	12	
Tamarack	15	Pole/Log	9	105
Red Maple	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Conifers	Medium	< 5 feet	Seeding
Tag Alder	Medium	10 - 20 feet	Tall Shrub
Northern White Cedar	Low	>20 feet	Pole
Black Ash	Low	Variable	Sapling

5 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 16.9 94 Unspecified N/A

Stand is more or less 2-storied, with sparse remnant canopy overtopping dense fir and ash saplings.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	10	Pole	8	
Balsam Fir	25	Pole	7	
Tamarack	40	Pole/Log	9	94
White Pine	3	Log	16	
Northern White Cedar	20	Pole/Log	8	131
Red Maple	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Black Ash	Full	Variable	Sapling
Tag Alder	Low	Variable	Tall Shrub

6 4130 - Aspen Poletimber Medium 3.8 40 Unspecified N/A

Stand is a narrow strip of upland at the edge of state land, abutting swamp. Mostly aspen cover, with west edge being a grassy opening which was formerly a township dump site.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Pole	7	40

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Shrubs	Low	< 5 feet	Tall Shrub
White Pine	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
7	6121 - Tamarack	Poletimber Poor	50.9	123	Unspecified	N/A	Lots of blowdown; bent over alder. There is surface water throughout. Multi-part stand on both sides of Victoria creek.																																										
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10	6120 - Lowland Cedar	Sawtimber Medium	36.9	133	Unspecified	N/A	Stand has a fair amount of standing dead/dying cedar. Lots of blowdown especially along eastern edge. Super-canopy white pine.																																										
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12	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	24.5	83	Unspecified	N/A																																											
13	6120 - Lowland Cedar	Poletimber Well	9.8	91	Unspecified	N/A	There is relatively little blowdown in this stand. Good deer cover, but no browse. Many of the cedars are multi-stemmed. White pines are in the super-canopy. Stand has scattered red maple, black ash and balsam fir.																																										
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14	3303 - Mixed Low Density Trees	Nonstocked	8.5		Unspecified	No	Deciduous trees are mostly black cherry and sugar maple; white pines are open grown and bushy.																																										
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16	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.9	113	141-170	N/A	Hemlock is providing good deer winter cover; lots of tracks/beds. No browse. Stand has a few paper birch, yellow birch, cedar, black cherry, white pine.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 495.5 81 Unspecified N/A Shallow standing water, plus sphagnum moss. Dense cover. Much of the cedar has dead tops and is in poor condition.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	XLog	24		Balsam Fir	High	Variable	Sapling
Northern White Cedar	23	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	15	Sapling/Pole	2		Black Ash	Medium	Variable	Sapling
Balsam Fir	45	Pole/Sapling	7	81				
Tamarack	10	Pole/Log	9					
Red Maple	5	Pole	6					

20 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 18.1 82 81-110 N/A Lowland with upland stand, hummocky ground in spots with fair amount of standing water at time of inventory. Black ash is regenerating, some pockets of dead standing black ash pole sized trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	25	Pole/Log	8	82	Black Ash	Low	5 - 10 feet	Sapling
Red Maple	10	Log/Pole	10					
Quaking Aspen	20	Pole	6					
Hemlock	5	Log	12					
White Pine	20	Log/Pole	10					

22 622 - Lowland Shrub Nonstocked 4.1 0 Unspecified No

23 310 - Herbaceous Openland Nonstocked 4.6 Unspecified No

24 6220 - Alder/willow Nonstocked 4.4 Unspecified No Lots of standing, flood-killed ash and cedar likely from old grade running along north edge of stand.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full		Tall Shrub
Balsam Fir	Low		Sapling

25 6120 - Lowland Cedar Sawtimber Poor 9.5 135 Unspecified N/A Fair amount of mortality and dieback in cedar. Lots of blowdown.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Log	8		Balsam Fir	Full	Variable	Sapling
Northern White Cedar	60	Log/Pole	12	135	Northern White Cedar	Low	< 5 feet	Sapling
Balsam Fir	10	Pole	7		Black Ash	High	Variable	Sapling
Hemlock	15	Log/Pole	12					
Black Ash	5	Pole	7					
White Pine	5	XLog	22					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	6121 - Tamarack	Poletimber Poor	16.7	100	Unspecified	N/A	Red-osier dogwood and rose in understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		35	Sapling/Pole	4		Deciduous Shrubs	
Tamarack		60	Sapling/Pole	4	100	Tag Alder	
Paper Birch		5	Pole/Sapling	5		Density	
						Avg. Height	
						Size	
27	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	42.2	96	51-80	N/A	Hemlock is concentrated on a slightly elevated area in the north-central part of the stand; a few large diameter white pine are also there. Mostly a pole-sized stand, but some areas are heavier to saplings in the canopy.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole/Sapling	6		Black Ash	
Black Ash		55	Pole/Sapling	6	96	Balsam Fir	
Northern White Cedar		12	Pole	8	136	Tag Alder	
Hemlock		5	Pole	8		Density	
Paper Birch		8	Pole/Sapling	6		Avg. Height	
Red Maple		10	Pole	7		Size	
28	622 - Lowland Shrub	Nonstocked	3.1		Unspecified	No	
29	6120 - Lowland Cedar	Sawtimber Medium	17.5	124	Unspecified	N/A	Some good quality cedar. Scattered super-canopy white pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Log	16		Balsam Fir	
Paper Birch		5	Log/Pole	10		Northern White Cedar	
White Pine		5	XLog	22		Hemlock	
Northern White Cedar		70	Log/Pole	12	124	Black Ash	
Hemlock		5	Log/XLog	16		Density	
						Avg. Height	
						Size	
30	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	63.4	96	Unspecified	N/A	Lots of blowdown. Scattered quaking aspen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Log/Pole	10		Northern White Cedar	
Northern White Cedar		22	Pole/Log	9	84	Black Ash	
Red Maple		30	Log/Pole	12	59	Deciduous Shrubs	
Balsam Fir		3	Pole	8		Density	
Black Ash		40	Log/Pole	10	96	Avg. Height	
						Size	
32	6112 - Lowland Aspen	Sawtimber Poor	8.4	66	Unspecified	N/A	Scattered elm. Lots of blowdown. low density, in the very low end of the 25-50% canopy closure - with some die off could be classified as non-forested.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		4	Pole	8		Northern White Cedar	
Paper Birch		2	Pole	8		Black Ash	
Quaking Aspen		90	Log/Pole	11	66	Deciduous Shrubs	
Black Ash		4	Pole	7		Balsam Fir	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
33	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.6	105	141-170	N/A	There are a few scattered sugar maple, beech, bigtooth aspen, basswood.																																															
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34	4140 - Other Upland Deciduous	Sawtimber Medium	4.1	95	81-110	N/A	Slightly elevated patch of ground parallel to Cedar Creek. Birch age is based on an iffy ring count.																																															
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35	6220 - Alder/willow	Nonstocked	9.3		Unspecified	No	Stand straddles Cedar Run Creek.																																															
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37	6233 - Wet Meadow	Nonstocked	3.8		Unspecified	Managed Opening	Maintained powerline R.O.W. Northwest end is upland.																																															
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38	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	111.6	133	Unspecified	N/A	Scattered yellow birch, tamarack, paper birch, and red maple. Lots of blowdown and standing dead/dying cedar in places.																																															
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39	6116 - Lowland Birch	Sapling Medium	50.5	45	Unspecified	N/A	Scattered patches of older conifers. Much of the alder is in the canopy. Cedar regeneration is sparse, but viable. More ash to southeast, more birch to northwest.																																																			
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41	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	13.8	106	Unspecified	N/A	Some blowdown.																																																			
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42	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.0	103	51-80	N/A																																																				
43	122 - Road/Parking Lot	Nonstocked	1.5		Unspecified	No	County Rd. 616/651																																																			
44	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	6.7	55	Unspecified	N/A	Well stocked sapling stand; not as much blowdown here.																																																			
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45	6129 - Mixed Coniferous Lowland Forest	Sawtimber Poor	62.3	105	Unspecified	N/A	Sparse, but well distributed super-canopy white pines. Dense, diverse understory of conifer seedlings and saplings: predominantly fir, with fair amounts of hemlock, white pine, black spruce, and cedar. Sphagnum, some Labrador tea.																																																			
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46	6139 - Mixed Lowland Forest	Sapling Well	2.2	32	Unspecified	N/A																																																				



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48	6120 - Lowland Cedar	Sawtimber Poor	35.0	94	Unspecified	N/A	Lots of standing dead and dying cedar. This is a somewhat heterogenous stand, with some saturated mucky spots with cattail cover, other slightly elevated patches with healthier timber. Scattered tamarack, cedar, birch and white pine saplings. Fair amount of blowdown.																																																
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49	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	29.7	94	Unspecified	N/A	Stand has an open understory and relatively low amount of blow down. Small amount of black ash, hemlock, yellow birch, white pine. Occasional regeneration patches.																																																
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50	6121 - Tamarack	Sapling Well	3.6	37	Unspecified	N/A	This stand is the resulting regeneration from 2 small clearcut blocks, plus some blowdown along the edges resulting from wind exposure on adjacent timber after the overstory removal. There is only a small amount of cedar regeneration, mostly under dense blowdown.																																																
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51	6221 - Fen	Nonstocked	1.0		Unspecified	No	Heavily browsed patch of dogwood.																																																
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52	6121 - Tamarack	Poletimber Poor	4.6	56	Unspecified	N/A	Old RR grade traverses the stand. Includes roadbed.																																																
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53	330 - Low-Density Trees	Nonstocked	1.6		Unspecified	No																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
55	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	67.5	103	Unspecified	N/A																																											
59	500 - Water	Nonstocked	0.7		Unspecified	No	Cedar Run Creek																																										
64	3102 - Grass	Nonstocked	10.8	0	Unspecified	No	Fence lines around PVT, standing water throughout much of field at time of inventory.																																										
66	429 - Mixed Upland Conifers	Sawtimber Well	5.7	97	81-110	N/A	Fair amount of decent sized hemlock, standing water in much of stand. Some large white pine scattered throughout, red maple appears to be dominant species in much of stand, growing fairly well. Minimal regeneration throughout stand.																																										
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67	622 - Lowland Shrub	Nonstocked	1.4	0	Unspecified	No																																											