



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54146

Entry Year 2025

Acreage: 1,626

County Presque Isle

Management Area: Presque Isle Lake and Till Plains

Stand Examiner: Trevor Kubitskey

Legal Description:

T34N R2E Sec. 1, 11-13, & 23. T34N R3E Sec. 6. T35N R2E Sec. 19, 22, 23, & 36. T35N R3E Sec. 31

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.

Soil and topography:

Poorly drained organic soils, outwash sands, poorly drained sands. Topography is flat, lowland with some uplands mixed in.

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

Very broken state ownership. This compartment is made up of small blocks of state land surrounded by private.

Unique Natural Features:

The Rainy River, Little Rainy River and Stony Creek traverses through portions of the compartment. All are designated Cold Water Streams.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment is within the Rainey River watershed with the river and its tributaries passing through the compartment. Appropriate buffers will be applied to protect the associated RMZ's.

Wildlife Habitat Considerations:

This compartment consists of scattered parcels with good habitat for white-tailed deer, ruffed grouse, and snowshoe hare. Openings are mostly inaccessible but those reachable should be managed. Timber harvests should take into account potential for raptor nests. If clearcutting, leave large down woody debris for ruffed grouse and create brush piles where possible to produce habitat for hare.

Mineral Resource and Development Concerns and/or Restrictions

Some active aggregate mining operations exist in the area, and there is generally potential for both sand & gravel and bedrock limestone within the compartment. However, most of the compartment is low and wet, which would inhibit surface mining. The very southern end of the compartment borders the northern edge of the Silurian reef trend, and oil & gas production has occurred to the east and south of Sec 23, T34N-R2E. There is low probability of discovering new reef reservoirs in the compartment, and no known potential exists for oil & gas from other known producing formations. There is no known metallic mineral potential in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Limited to some areas of higher ground. Most of compartment is accessible only by foot.

Survey Needs:

A survey may be needed in 35N, 02E Section 22 for future management.

Recreational Facilities and Opportunities:

No recreational facilities are present within the compartment. Most recreational opportunities are limited to hiking, hunting, and/or fishing.

Fire Protection:

Access would be limited. On the upland portions of the compartment, good roads would provide good access for fire fighters.

Additional Compartment Information:

The following reports from the Inventory are attached:

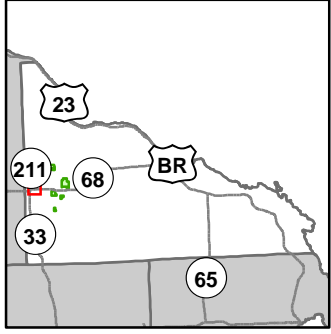
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

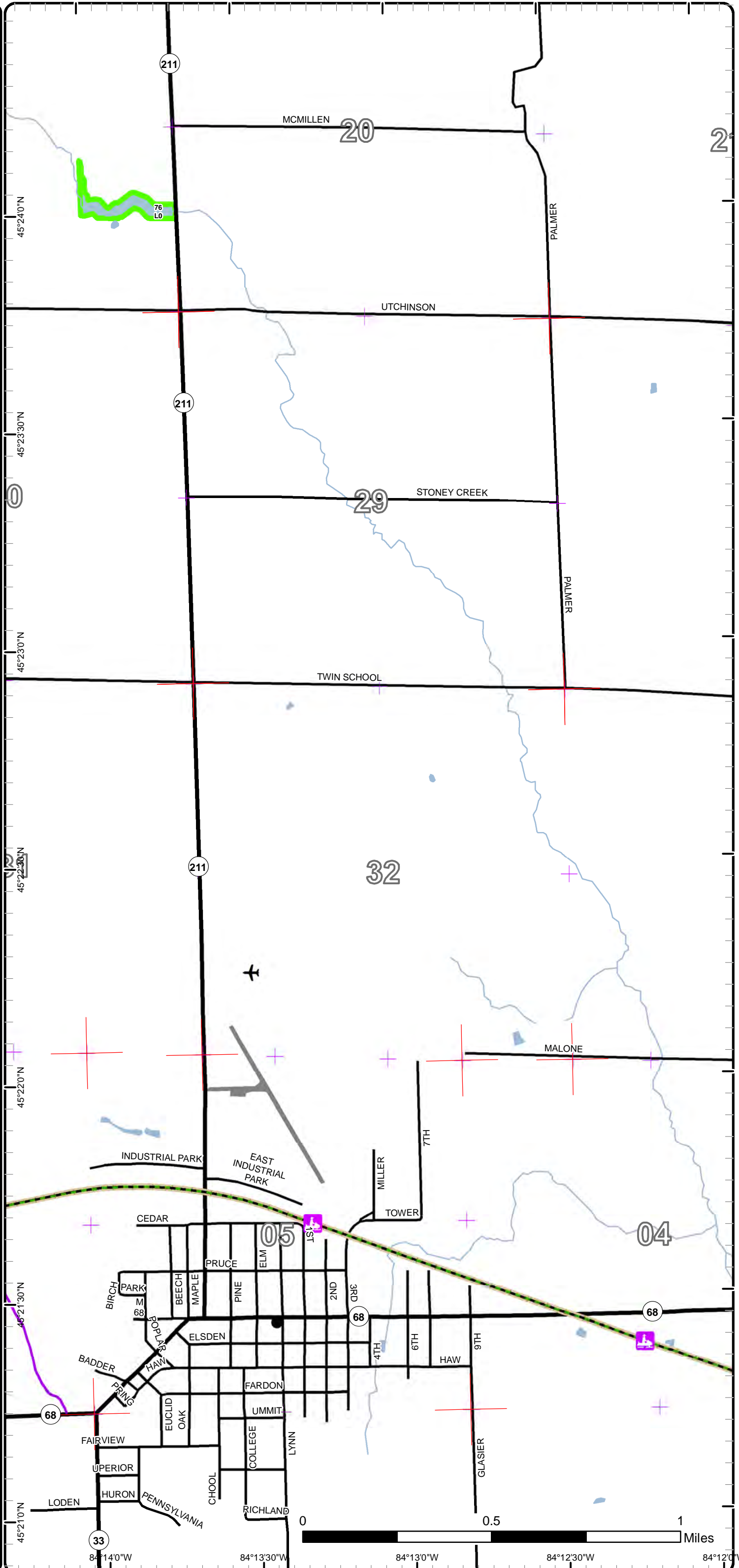
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 146
 T34N, R02E, Sec. 11-13, 23
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 Mgmt Area: Presque Isle Lake
 and Till Plains
 YOE: 2025
 Acres: 1625.9 GIS Calculated
 Examiner: Trevor Kubitskey

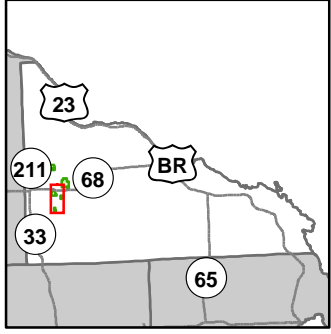


- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State Highway
- Federal / State / County - Paved Road
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ✈ Airport
- City
- Airports
- Compartment Boundary
- 622 - Lowland Shrub

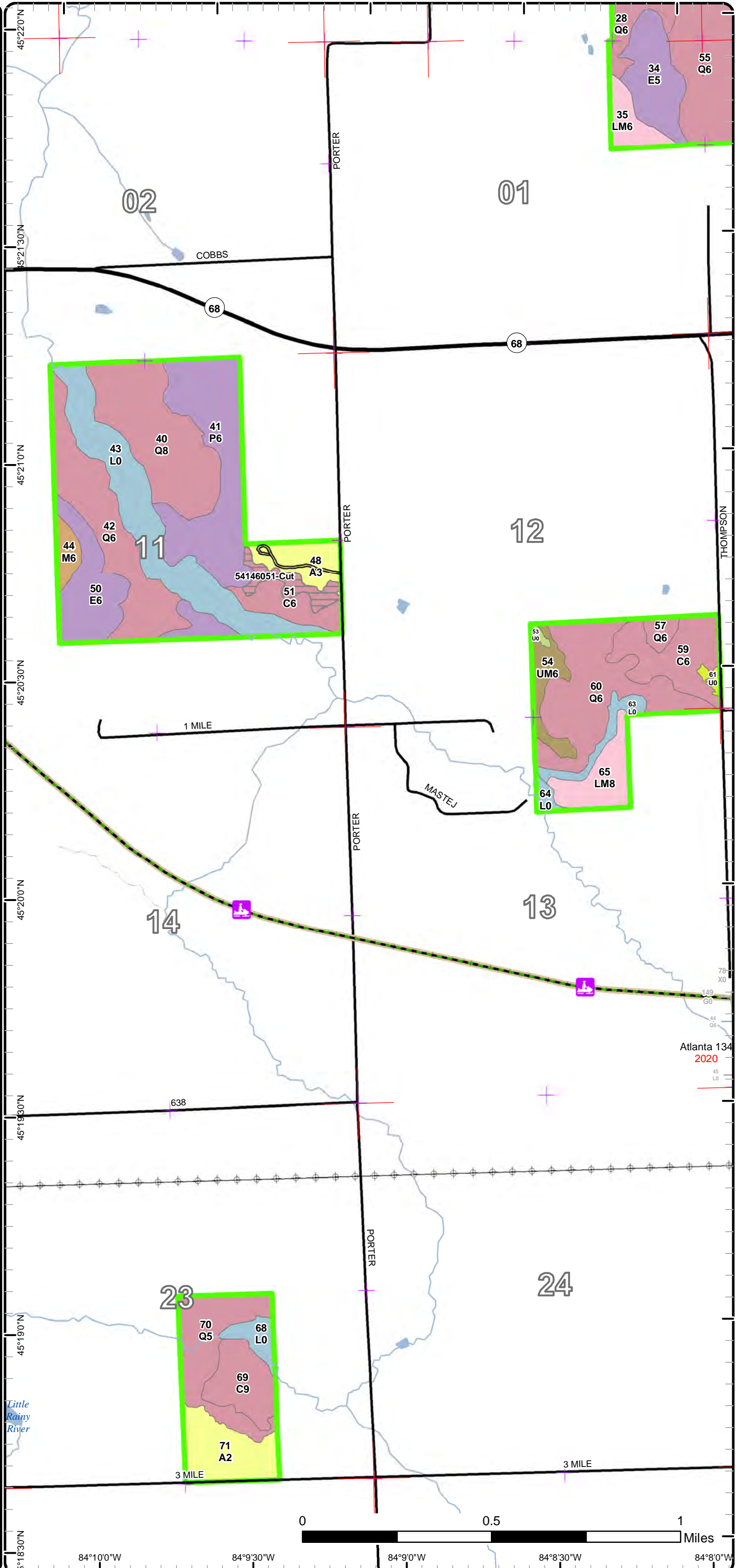


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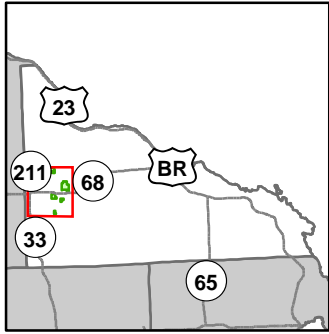
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- 413 - Aspen
- 430 - Upland Mixed Forest
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- 330 - Low Density Trees
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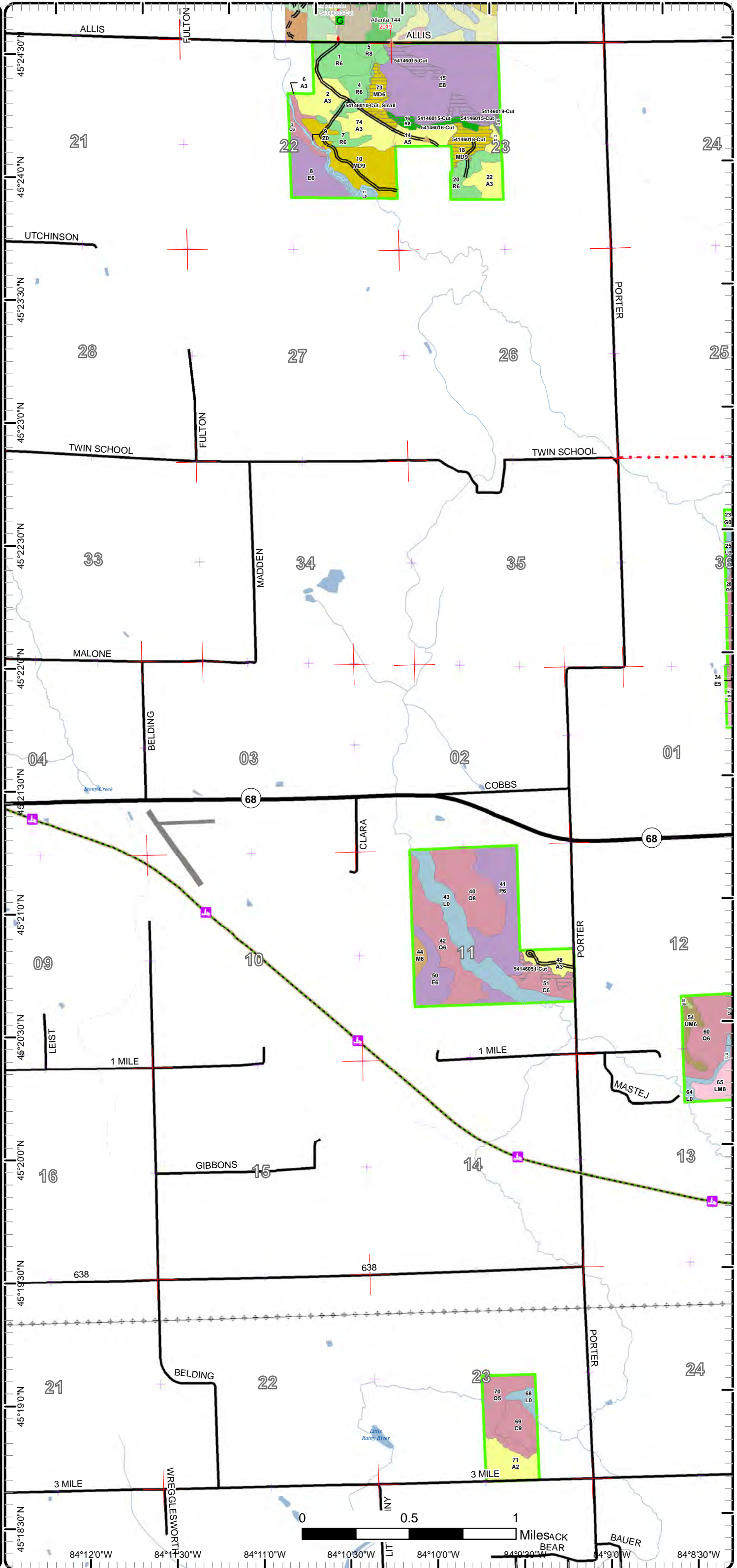
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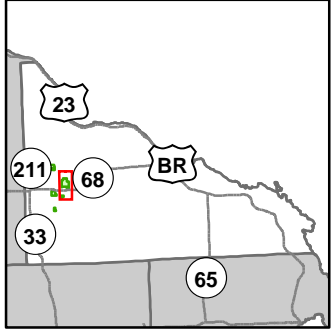


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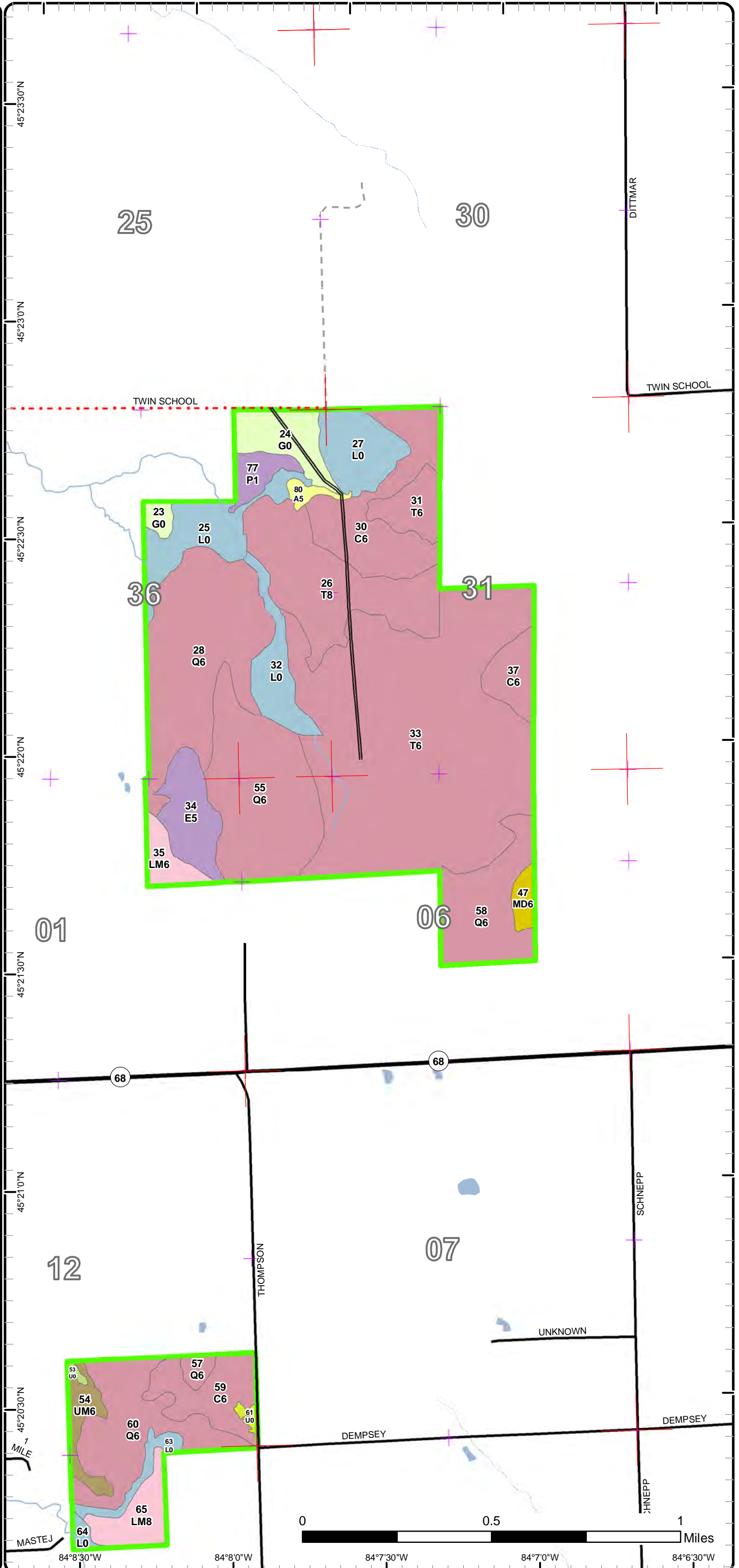


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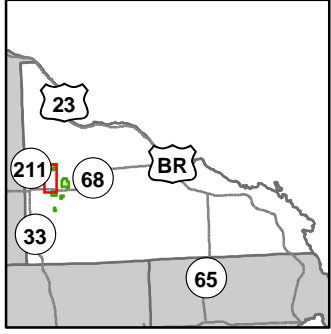


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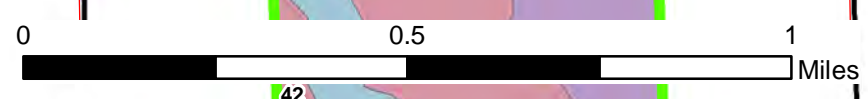
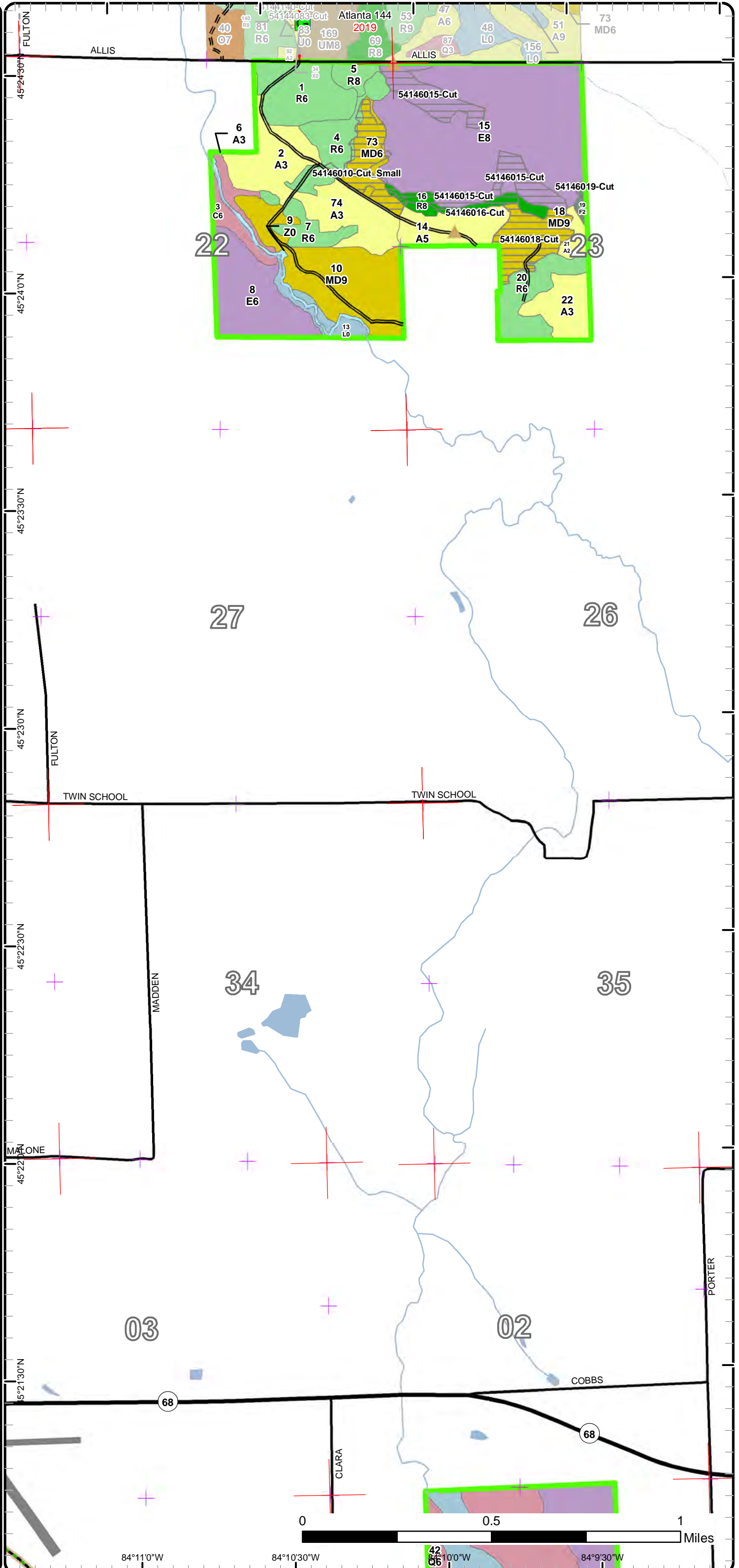


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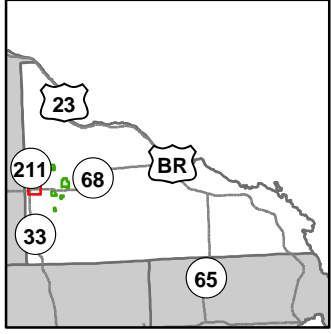
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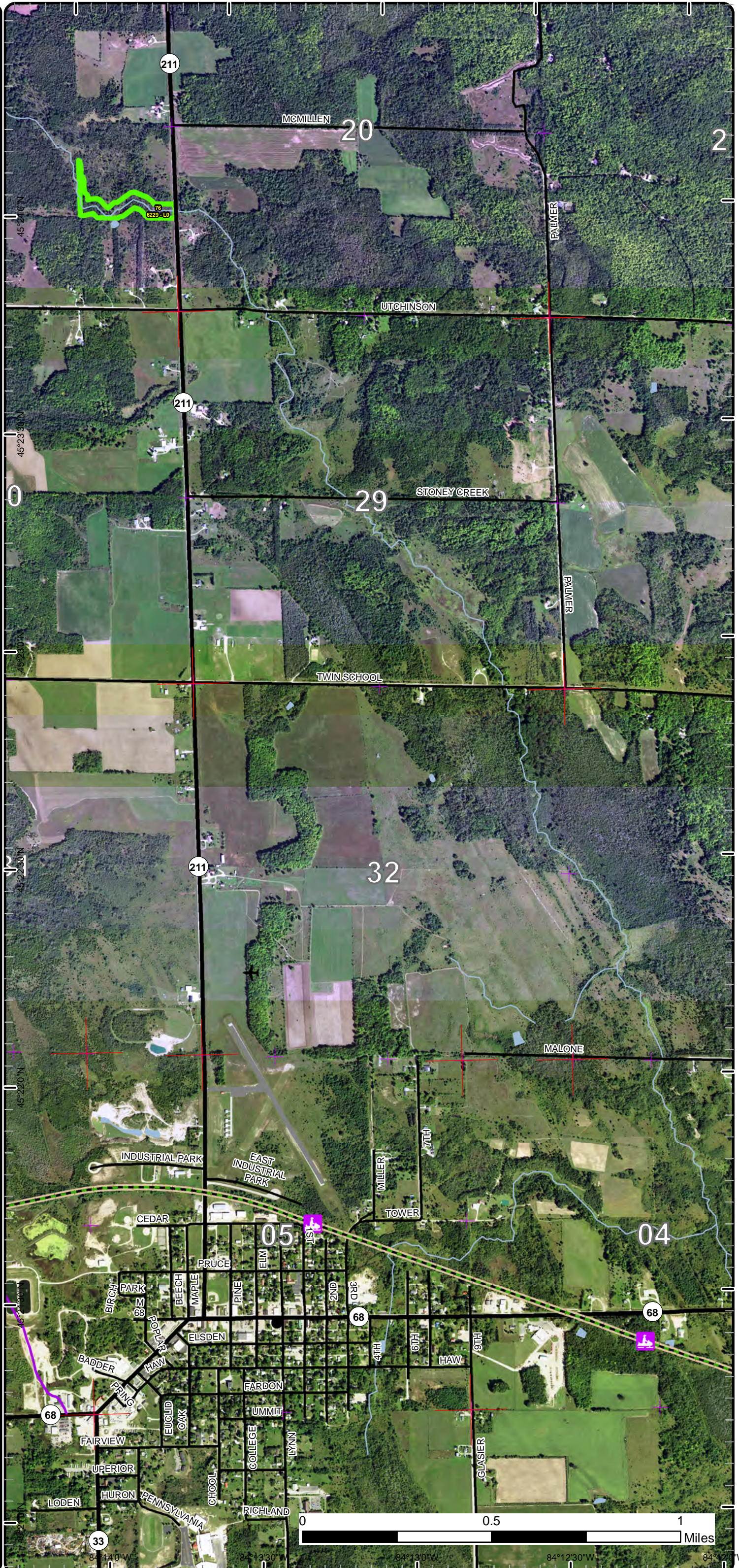
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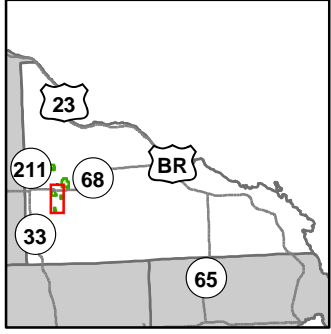


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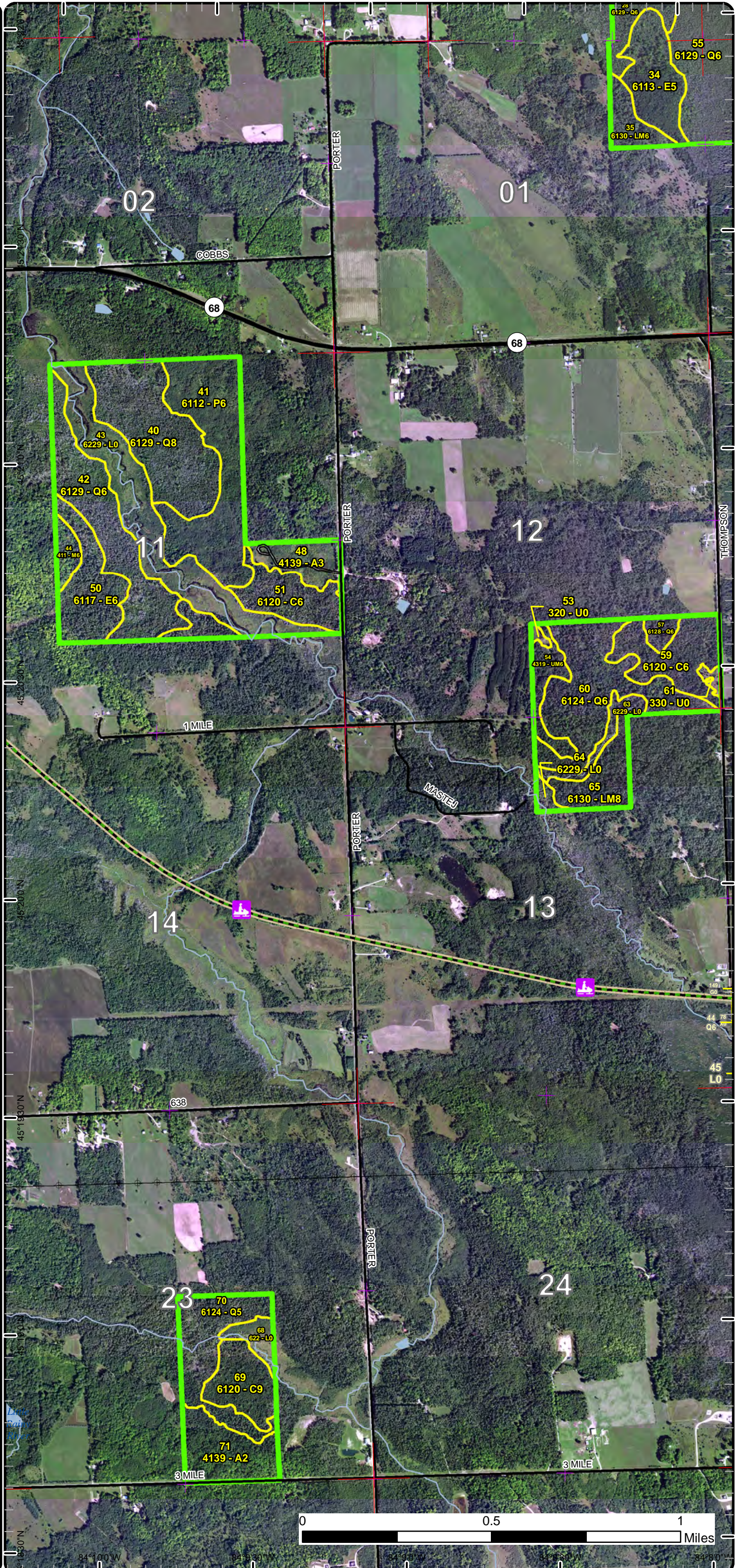


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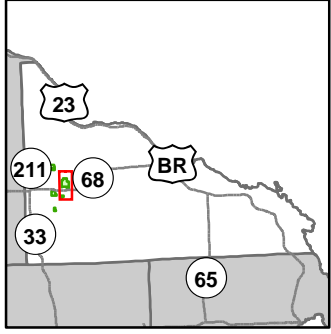
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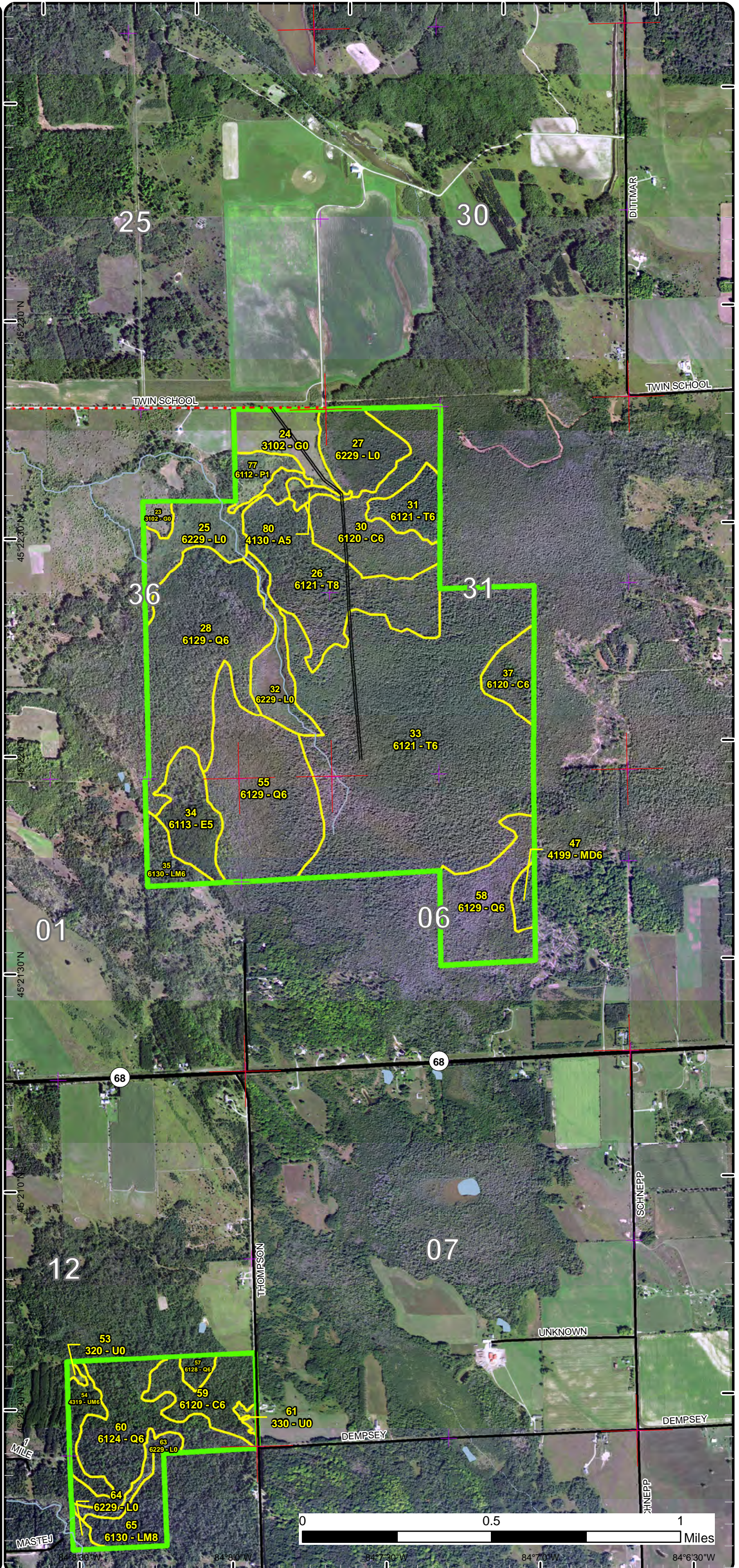
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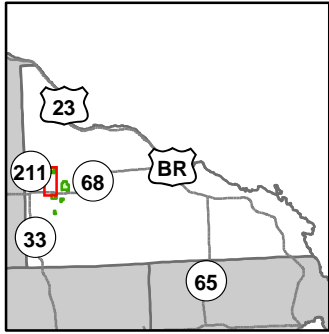


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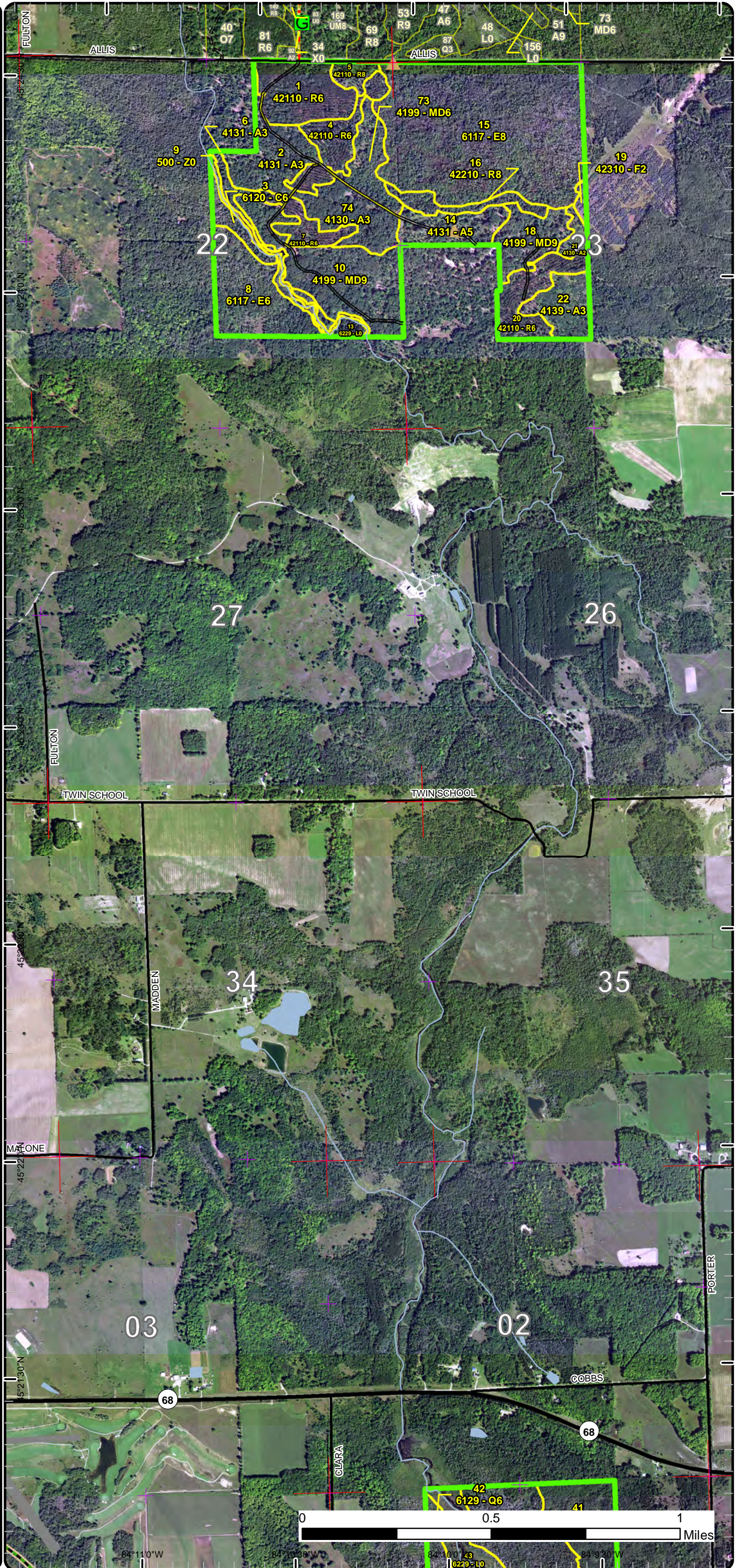


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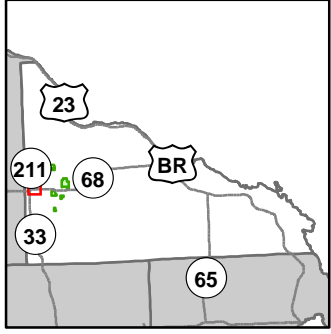


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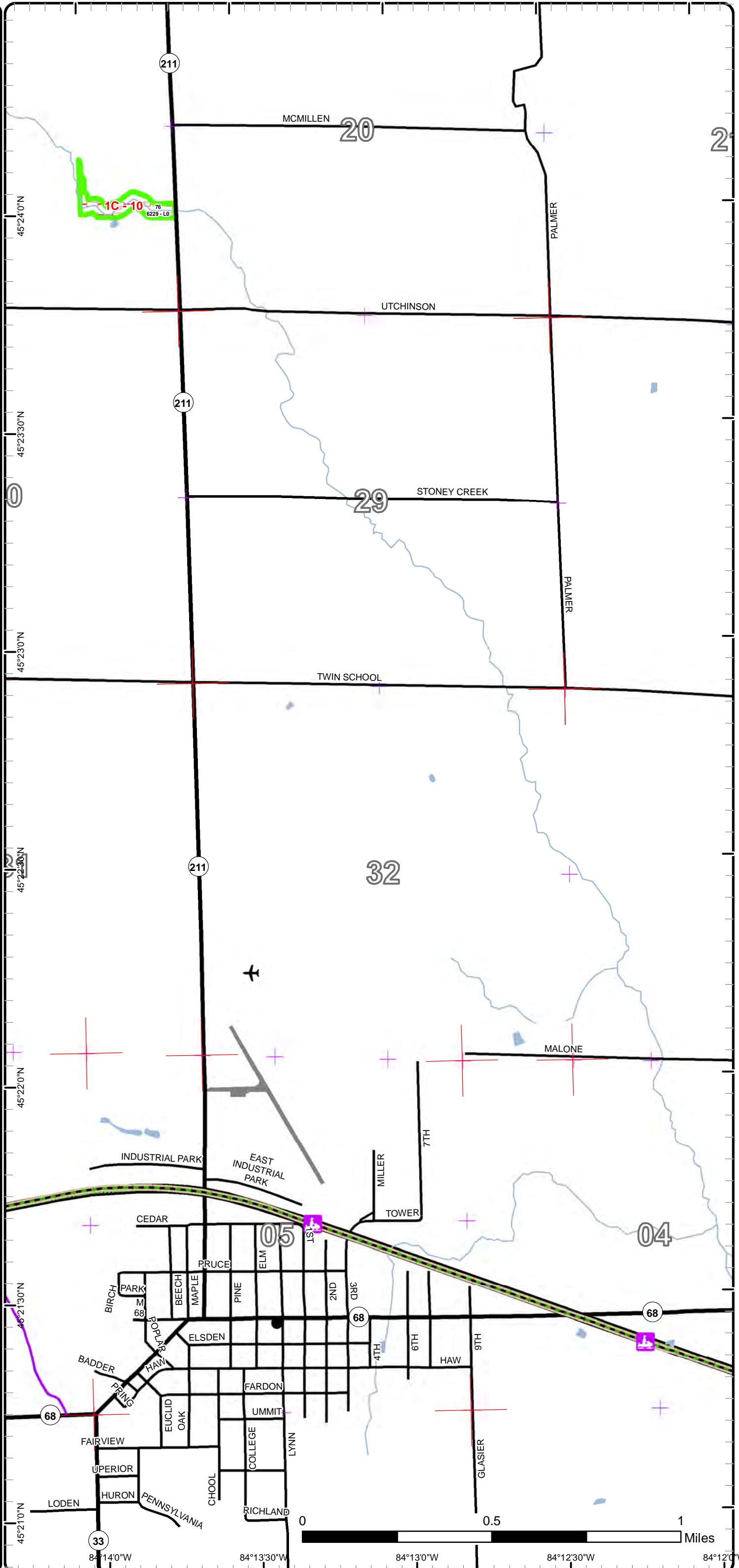


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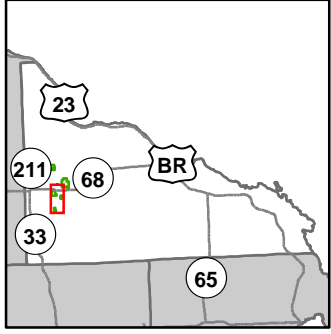


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- Compartment Boundary
- Unavailable
- 1C: Other dept or div proc/practices
- Stand Boundaries
- SCA
- Trail - Trail Corridor

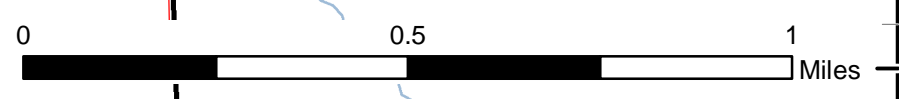
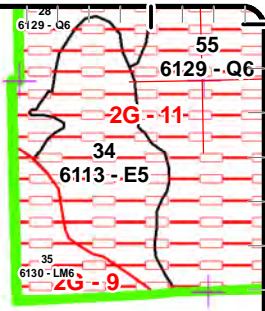
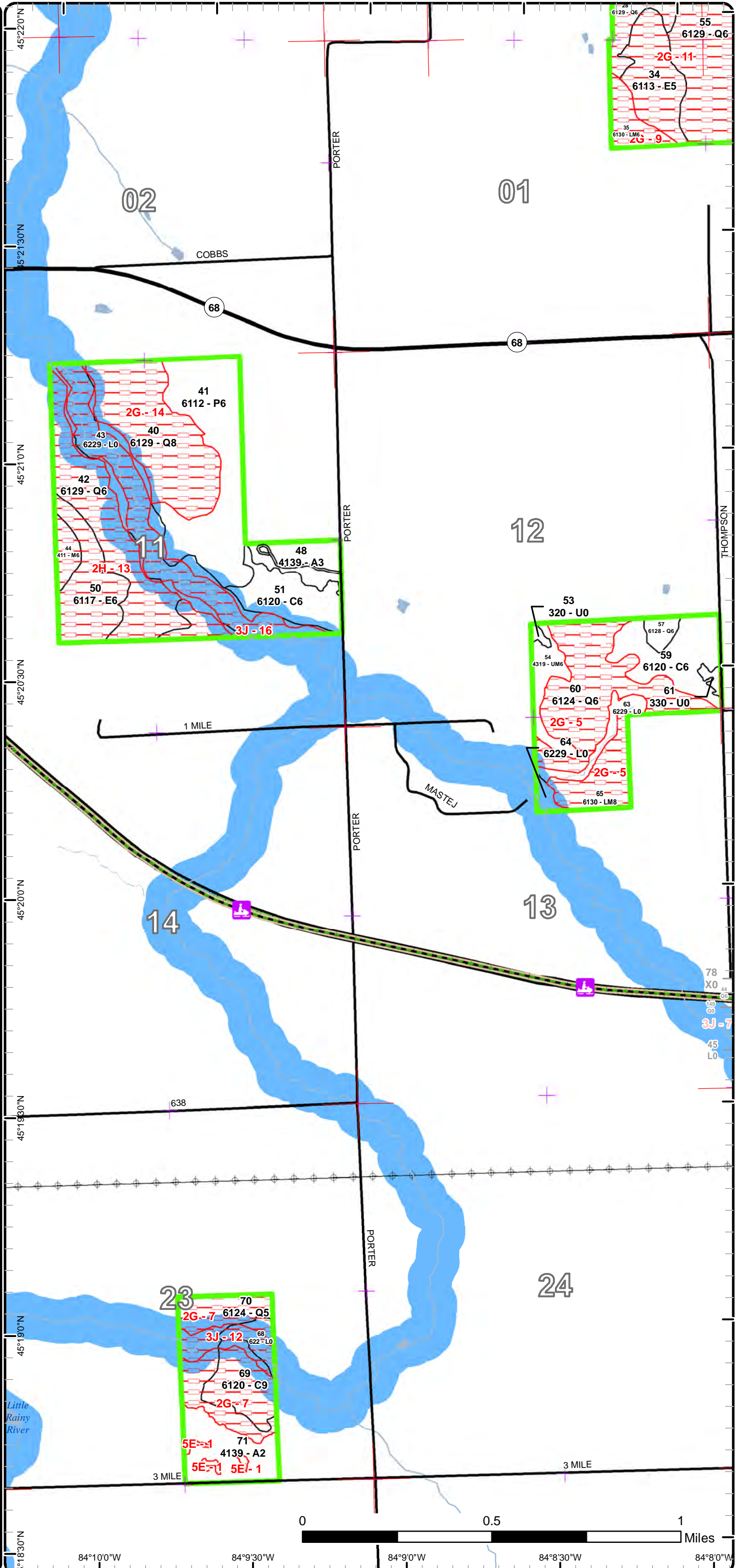


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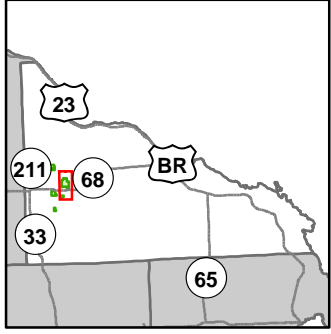
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- Unavailable
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 - 3J: Water quality / BMPs (stream, river, or lake)
 - 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Trail - Trail Corridor



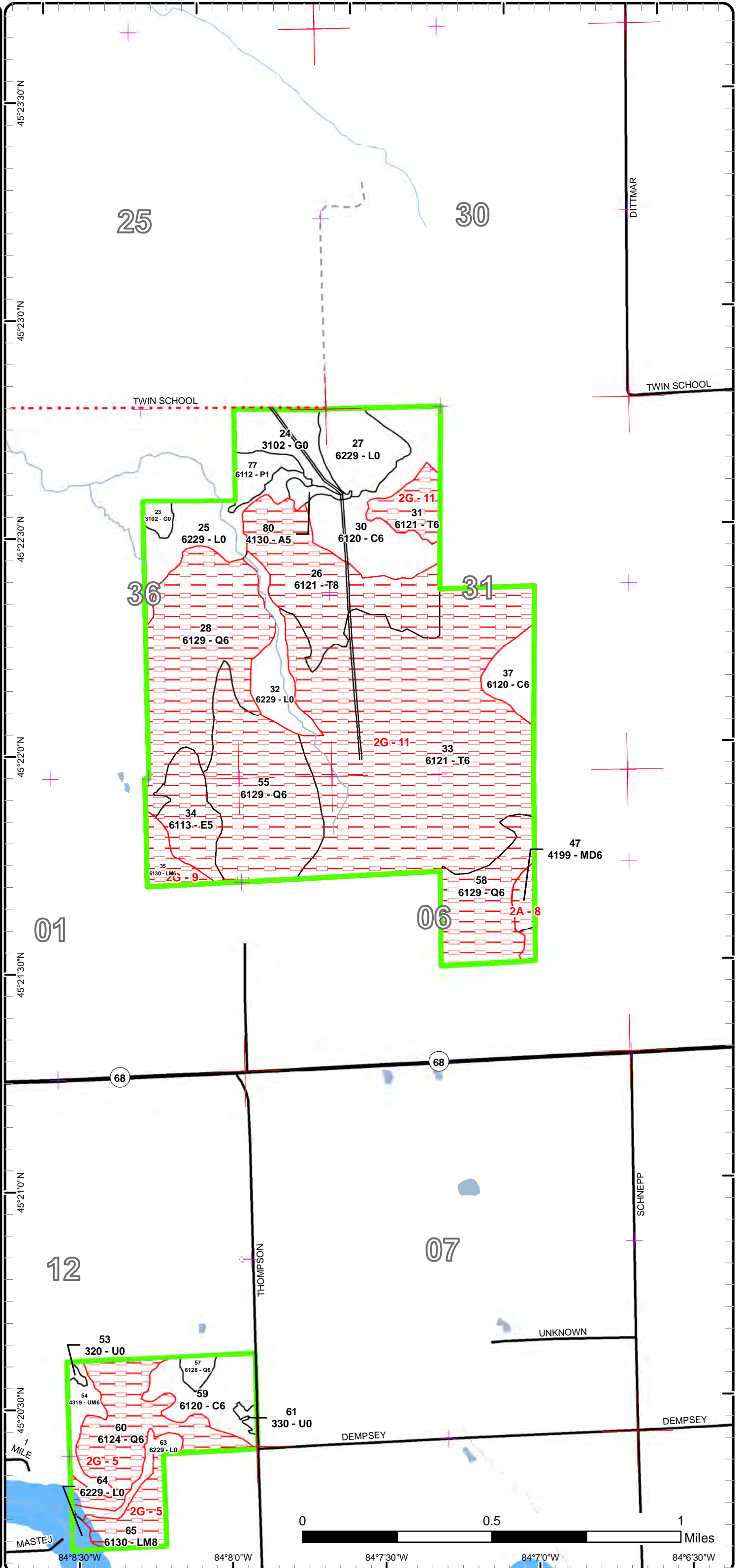
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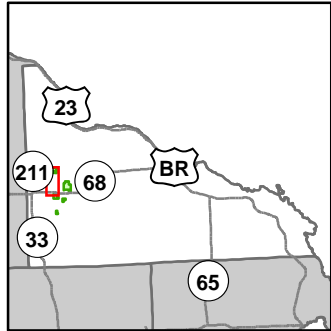


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- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

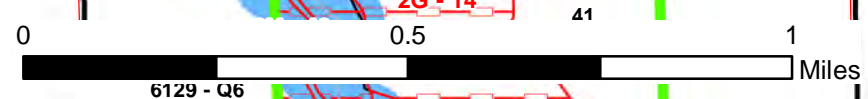
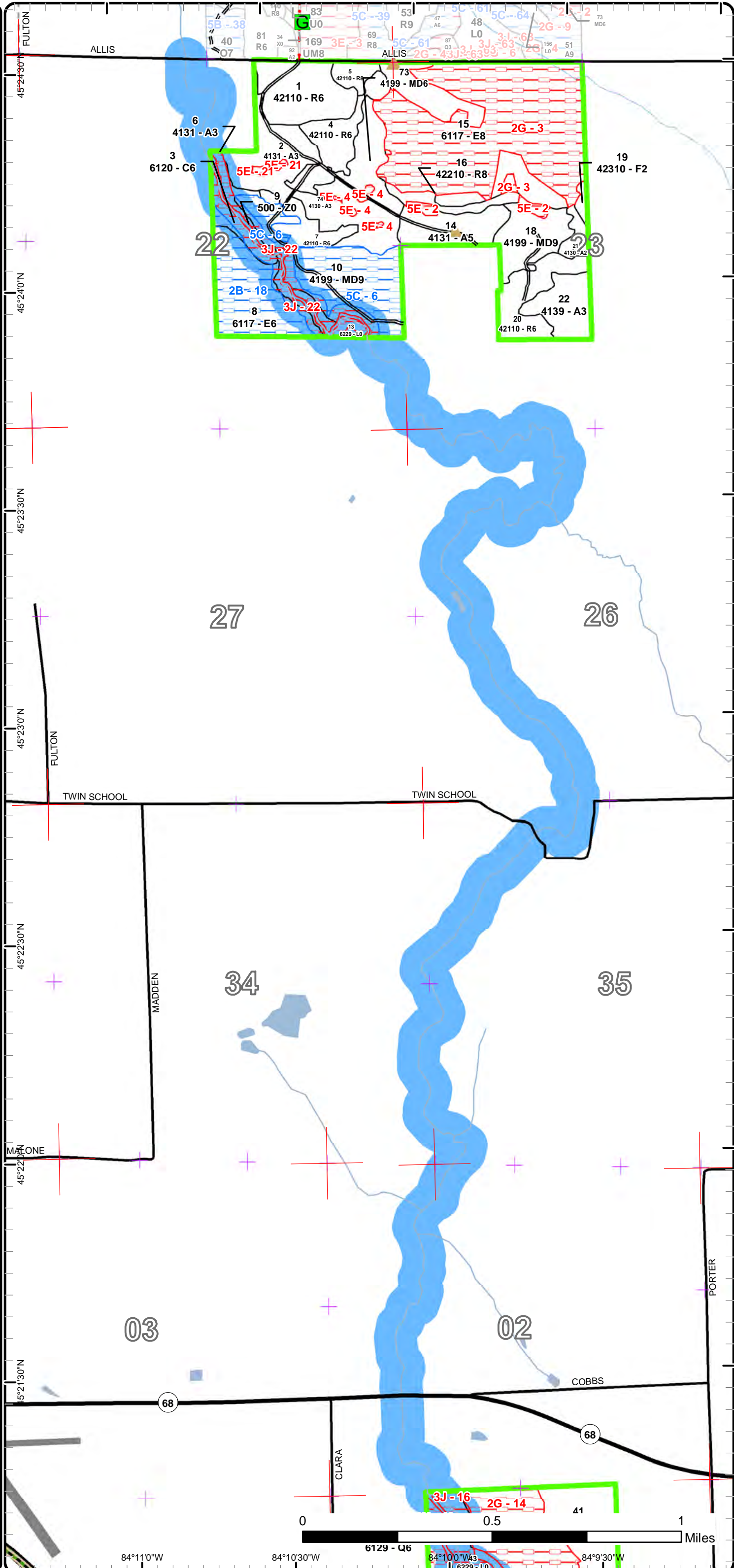


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- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Trail - Trail Corridor



84°11'0"W 84°10'30"W 84°10'0"W 84°9'30"W

Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 146 Year of Entry 2025

Trevor Kubitskey : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	65	48	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	117
Cedar	0	0	0	0	0	0	0	0	0	0	47	35	36	19	0	0	0	0	137
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	9	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Lowland Conifers	0	0	0	0	0	0	0	0	53	115	215	0	0	0	0	0	0	0	383
Lowland Deciduous	0	0	0	0	0	0	0	31	123	56	0	0	0	0	0	0	0	0	210
Lowland Mixed Forest	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	27
Lowland Shrub	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	73	0	6	0	0	0	0	0	0	79
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	0	71	0	0	8	0	0	0	0	0	0	0	0	79
Tamarack	0	0	0	0	0	0	0	0	0	258	65	0	0	0	0	0	0	0	323
Upland Mixed Forest	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Spruce/Fir	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	188	65	57	0	57	4	0	71	42	203	563	315	42	19	0	0	0	0	1626



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 146
Total Compartment Acres: 1,626

Commercial Harvest - 46
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 23

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Cedar	8	0	0	0	0	0	0	0	0	8
Lowland Deciduous	23	0	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	31	0	0	0	0	0	0	0	0	31
Red Pine	5	0	0	0	0	0	0	0	0	5
Upland Spruce/Fir	2	0	0	0	0	0	0	0	0	2
Total	69	0	0	0	0	0	0	0	0	69

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	69	0	0	0	0	0	0	0	0	69
Next Step	0	0	0	0	0	0	69	0	0	69
Total	69	0	0	0	0	0	69	0	0	137



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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
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Proposed Treatments:

15	54146015-Cut	22.8	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	88	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Yes
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Prescription Final harvest all trees 2" and up. Mark to leave scattered Oak though not to exceed 5 BA for the entire stand. Do not cut any Cedar or Red/White Pine over 20" . Retention can be placed within the parent stand or in areas deemed too wet during sale prep. Winter cut only. Utilize tops/slash to help reduce issues with equipment on soft ground. No chipping. Where possible, run red line to grab more timber if accessible .

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

Acceptable Regen: Any combination of aspen, red maple, birch, mixed pine, balsam fir, black spruce that meet minimum stocking criteria.

Other Comment: Rabbit brush pile specs.

Site Condition

Proposed Start Date: 10/1 /2024

16	54146016-Cut	5.3	42210 - Natural Red Pine	Sawtimber Medium	91	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Final harvest all trees 2" DBH and up. Do NOT cut any Pine over 20". Retention is already identified.
Specs:

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

Acceptable Regen: Any combination of Aspen, Oak, red maple, cherry, birch, mixed pine/conifer that meet minimum stocking criteria.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

18	54146018-Cut	16.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	91	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Final Harvest all trees 2" and up. Do not cut Red/White Pine or Fir. Standard retention placed around pockets of healthy mast producing Oak. Do NOT place retention ON the property line. Oak wilt specs.

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

Acceptable Regen: Any combination of Aspen, Maple, Cherry, Oak, birch or mixed pines/conifers that meet minimum stocking criteria. Expect areas of lower stocking levels especially in southern portions.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
19 54146019-Cut	1.7	42310 - Planted Spruce	Sapling Medium	30	1-50	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Final Harvest all trees 1" DBH and up. Utilize the Arrow antenna for the private line. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> This treatment is to re-establish the property line and resolve a Trespass. Any stocking of mixed upland conifers or upland deciduous species that meet minimum stocking criteria.</p> <p><u>Other Comment:</u> The stand is very thick due to being a Christmas tree plantation. Would recommend using a saw to cut a line through while running the blue line.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
51 54146051-Cut	8.2	6120 - Lowland Cedar	Poletimber Well	109	171-200	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Final Harvest all stems 2" DBH and up. Protect as much sub-merch balsam fir regeneration as possible. Do not cut white pine or hemlock. <u>Specs:</u> Mark to leave 2 trees per acre (preferably birch or fir) to be cut and left for seed beds. Utilize slash and brush to reduce rutting.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A mix of lowland conifers such as fir, spruce, cedar, tamarack that meet minimum stocking criteria. A minor component of aspen, red maple, birch or white pine is also acceptable.</p> <p><u>Other Comment:</u> Treatment is delineated to reflect the most realistic boundary. Extend treatment further into stand if possible.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Approved Treatments:

73 54146010-Cut_Small	14.4	4199 - Other Mixed Upland Deciduous	Poletimber Well	91	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave 1-3 Oak per acre. Do not cut any white pine. Leave 3-10% retention. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen can be of medium to well stocked aspen, oak, maple, or pine.</p> <p><u>Other Comment:</u> This unit was part of Fire Run Aspen and Oak but was never cut. This treatment had to be re-added for Compartment Review for tracking purposes.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>										

Total Treatment Acreage Proposed: 68.7

Report 4 – Site Conditions

Atlanta Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 146

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		2B	5C	1C	2A	2G	2H	3J	5E		
117	113	0	3	Aspen										3
137	108	1	27	Cedar	1				17			10		
25	25	0	0	Herbaceous Openland										
2	2	0	0	Low-Density Trees										
64	64	0	1	Lowland Aspen/Balsam Poplar								1		
339	4	0	334	Lowland Conifers				2	328			5		
210	23	29	158	Lowland Deciduous	29				124	32		2		
28	0	0	28	Lowland Mixed Forest					28					
156	97	0	59	Lowland Shrub			7		2	0		49		
79	30	36	13	Mixed Upland Deciduous		36		6				7	0	
6	0	0	6	Northern Hardwood						6				
79	76	0	3	Red Pine										3
323	0	0	323	Tamarack					323					
11	11	0	0	Upland Mixed Forest										
1	1	0	0	Upland Shrub										
2	2	0	0	Upland Spruce/Fir										
4	4	0	0	Water										
1,581	561	66	954	Total Forested Acres	30	36	7	7	821	38		75	7	
	35%	4%	60%	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	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale No. 54-011-15-01							
2	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 16. Maintain a soft edge/transition zone for the lowland/upland interface as well as maintaining vertical/horizontal diversity within the area.							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 146

Trevor Kubitskey : Examiner

Year of Entry: 2025

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	100	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale Number 540021501							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2A: Adjacent landowner denied access	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Landowner previously denied access, no response this entry. Too wet to access from state land.							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 146

Trevor Kubitskey : Examiner

Year of Entry: 2025

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Most likely contains saturated soils. If harvestable, unsure on access since it is too wet to access from the north and unsure on access from private property.							
10	Unavailable	1C: Other dept or div proc/practices	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed for disposal.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	550	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very Wet. Areas may be operable depending on weather but access is also a huge issue.							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Little Rainy River. Cold Water stream with a High priority trout stream buffer.							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	82	2B: Unknown if access through adjacent landowner(s) is possible	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Too wet in areas. But overall no access. Some areas would be operable.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Trevor Kubitskey : Examiner

Compartment: 146

Year of Entry: 2025

16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Rainy River. 150 ft buffer.							
18	Available	2B: Unknown if access through adjacent landowner(s) is possible	30	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Sale Number 540021501							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 150 ft RMZ Buffer. Cold Water Stream.							

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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
1	42110 - Planted Red Pine	Poletimber Well	23.5	61	111-140	N/A	Planted in 1962. 3-0 stock from Higgins Nursery at 700 tpa. Thinned 2010 under contract 54-004-06 Rainy River Mix removing every third row along with any jack pine, red maple or aspen. 7.5x7.5 spacing. Fairly variable diameters and quality. Overall smaller diameters to the west, especially the south west (~4 stick trees) with larger diameters in the east (6-7 sticks). This could be to blame due to the heavier Oak densities in west.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		98	Pole/Log	8	61	Red Maple		Low	5 - 10 feet	Sapling	
White Oak		1	Log	14		White Oak		Low	< 5 feet	Sapling	
Black/Red (Hybrid) Oak		1	Log	14		Black/Red (Hybrid) Oak		Low	< 5 feet	Sapling	
2	4131 - Aspen, Oak	Sapling Well	21.9	6	1-50	N/A	Harvested in 2019 under contract Fire Run Aspen and Oak 54-002-15. Leave all Red/White Pine and White Oak. Heavier residual in the east and better regeneration in the west. Red/Black Oak is establishing ok, the white oak is recruiting nicely. Heavy browse on stems under 6 feet. No concerns with regeneration.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		45	Sapling	1	6	White Pine		Low	< 5 feet	Seeding	
Red Maple		20	Sapling	1							
Red Oak		10	Sapling	1							
White Oak		15	Sapling/Pole/Log	4							
3	6120 - Lowland Cedar	Poletimber Well	10.2	115	141-170	N/A	Stand is a good example of a Riparian Zone. Cedar on edges growing out over the Rainy River, maintaining good closed canopy cover. Some steep slopes on the edges, with upland portions extending out in the central finger on the east side of the river. Was not able to cross the river but based on imagery and looking at the edges, the west side of the river contains similar composition as the east. Drier as you move south.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		3	Log/Pole	12		Balsam Fir		Medium	Variable	Sapling	
Hemlock		5	Log	11		Ash (spp.)		Medium	5 - 10 feet	Sapling	
Balsam Fir		15	Pole/Log	9		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		10	Log/Pole	11		Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub	
Red Oak		5	Log	16							
Red Maple		5	Pole/Log	9							
Northern White Cedar		50	Log/Pole	11	115						
Yellow Birch		2	Log	10							
4	42110 - Planted Red Pine	Poletimber Well	16.5	61	111-140	N/A	Planted in 1962 at 700 TPA 7.5 x 7.5 ' spacing. Want to wait to merge with stand 1 until another thinning for consistency. Not as variable as stand 1, rows are slightly more squirrely with some going north/south and some east/west. Overall average diameters are larger than stand 1.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		100	Pole/Log	9	61	Red Pine		Trace	< 5 feet	Sapling	
						Black/Red (Hybrid) Oak		Low	Variable	Sapling	
5	42110 - Planted Red Pine	Sawtimber Medium	4.8	61	81-110	N/A	Stand that was thinned under the same contract in 2008 as the other pine stands 54-002-15 Fire Run Aspen and Oak. Contract says that this was third row thinned as well, but on the ground appears more like a marked thinning. Scattered Legacy White Pines present. Pocket of dense jack pine regen . Planting notes indicate this stand was planted at the same time as stands 1, 4 and 7. T Sale notes do not clarify why this seems to have been managed differently from the rest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		5	Pole	7		White Oak		Low	5 - 10 feet	Sapling	
White Pine		25	Log/XLog/Pole	15		Bigtooth Aspen		Low	5 - 10 feet	Sapling	
Red Pine		65	Log	14	61	Red Maple		High	Variable	Sapling	
Black/Red (Hybrid) Oak		3	Log	12		Jack Pine		Medium	5 - 10 feet	Sapling	
White Oak		2	Pole	7		Balsam Fir		Low	< 5 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	4131 - Aspen, Oak	Sapling Well	0.0	6	1-50	N/A	Harvested in 2019 under contract Fire Run Aspen and Oak 54-002-15. Leave all Red/White Pine and White Oak. Heavier residual in the east and better regeneration in the west. Red/Black Oak is establishing ok, the white oak is recruiting nicely. Heavy browse on stems under 6 feet. No concerns with regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Sapling	1		White Pine		
White Oak		15	Sapling/Pole/Log	4		Low		
Red Pine		10	Pole/Sap/Log	6		Avg. Height		
Bigtooth Aspen		45	Sapling	1	6	< 5 feet		
Red Oak		10	Sapling	1		Size		
						Seeding		
7	42110 - Planted Red Pine	Poletimber Well	9.0	61	111-140	N/A	Thinned in 2008 under contract 54-002-15 Fire Run Aspen and Oak. Third row thinned removing all jack pine, aspen and red maple. Doesn't appear that they removed all aspen. Fairly heavier deciduous component to this stand particularly in the west.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		90	Pole/Log	8	61	Black/Red (Hybrid) Oak		
Bigtooth Aspen		5	Log/Pole	12		Low		
White Oak		2	Log/Pole	10		Variable		
Black/Red (Hybrid) Oak		3	Log/Pole	13		10 - 20 feet		
						Sapling		
						Sapling		
						Sapling		
8	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	31.0	71	81-110	N/A	Unable to access stand from Private and was not able cross the Rainy River; did not have my waders with me. Walked the river corridor and observed from the east side. Stand has some mixed hardwood islands based on tree canopy form, with the remaining portions lower ground with mixed aspen/fir/spruce. Scattered Cedar. Imagery seems to indicate that there are some canopy gaps that have similar texture and colors as lowland shrub/lowland hardwood. Stand gradually slopes down from west to east with multiple seeps observed.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		5	Log	14		Balsam Fir		
Balsam Fir		25	Pole/Log	9	71	Medium		
Quaking Aspen		25	Pole/Log	9		Variable		
Basswood		5	Log/Pole	10		5 - 10 feet		
Red Maple		25	Log/Pole	10		Tall Shrub		
Black Spruce		10	Pole	8				
9	500 - Water	Nonstocked	4.2		Unspecified	No	Rainy River	
10	4199 - Other Mixed Upland Deciduous	Sawtimber Well	43.0	91	111-140	N/A	Variable aspen sizes. Mostly larger poles and logs, but some smaller diameters present in pockets in the NE/East. Oak quality drops as you move east. Some scattered Red/White Pine as well as some open grown, limby oak. A lot of aspen is larger log and is overmature. Brushy Oak regen pockets throughout. Stand is very open.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		34	Log/Pole	10		Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		34	Log/Pole/XLog	14	91	Medium		
White Pine		5	Pole/Log	8		10 - 20 feet		
Red Pine		5	Log/Pole/XLog	10		Sapling		
Paper Birch		2	Pole	9		Variable		
Red Maple		20	Pole	8		10 - 20 feet		
						Sapling		
						Sapling		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
13	6229 - Mixed lowland shrub	Nonstocked	6.1		Unspecified	No	A floodplain. The only forested portion is in the far south. Mostly Basswood, some Oak, Red Maple and dead ash. Scattered Elm present. The majority of the stand is mixed willow, alder, honeysuckle, dogwood, scattered paper birch saps.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Tag Alder	Medium	5 - 10 feet	Tall Shrub					
								Multiflora Rose	Medium	5 - 10 feet	Tall Shrub					
								Willow spp.	Low	10 - 20 feet	Sapling					
								Honeylocust	Medium	< 5 feet	Tall Shrub					
Rock Elm	Low	10 - 20 feet	Sapling													
14	4131 - Aspen, Oak	Poletimber Medium	15.6	15	1-50	N/A	Stand harvested in 2008 under contract 54-004-06 Rainy River Mix. All Oak was left which explains the high variability in oak diameters as well as the patchy regeneration. Stand contains a mix of O2,O4,O7 with an A5. Scattered Xlog/Log Oak with pockets of well established Oak saplings and areas of true Oak poles. Aspen is present throughout but stem densities are higher in the central portion.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	2	Log/Pole/Sap	12		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
								Red Pine	3	Pole/Log/Sap	8		Bigtooth Aspen	Low	5 - 10 feet	Sapling
								Red Maple	10	Sapling/Pole	3		Red Pine	Low	Variable	Sapling
								Bigtooth Aspen	45	Sapling/Pole	3	15	White Pine	Trace	5 - 10 feet	Sapling
								Black/Red (Hybrid) Oak	40	Pole/Log/Sap	8		Black Cherry	Low	5 - 10 feet	Sapling
													Red Maple	Medium	5 - 10 feet	Sapling
15	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	122.9	88	81-110	N/A	Large lowland complex with upland ridges, and drier islands throughout. Overmature aspen are declining giving way to a subcanopy of thick balsam fir. Scattered cedar groves throughout. Transitions in and out of forested, with areas of aspen/red maple, cedar pockets, then to tag alder/black spruce/red maple/birch/ash saps then to the 'drier' portions that contain Oak/pine/balsam/maple. Central and the NE portions seems to contain seeps/springs with running water that flows down into the drainage ditch along Allis hwy.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	2	Log/Pole/XLog	14		Balsam Fir	Full	Variable	Sapling
								Balsam Poplar	4	Log/Pole	12		Paper Birch	Medium	10 - 20 feet	Sapling
								Northern White Cedar	6	Log/Pole	11		Tag Alder	Medium	< 5 feet	Tall Shrub
								Red Oak	2	Log	13		Black Spruce	Medium	5 - 10 feet	Sapling
								Balsam Fir	15	Pole	7		Red Maple	Low	Variable	Sapling
								Paper Birch	7	Pole	7					
								Quaking Aspen	35	Log/Pole	12	88				
								Black Spruce	8	Pole/Log	9					
								White Pine	5	Log/Pole/XLog	14					
								Red Maple	15	Log/Pole	10					
								16	42210 - Natural Red Pine	Sawtimber Medium	8.4	91	51-80	N/A	Excluded from past harvests in the area. No history on treatments but definitely seems as if the pine was thinned at some point. Stand is a natural grove of Red Pine that sits on transitional ground between the upland aspen and the lowland aspen. Scattered pockets of aspen, red maple and oak throughout.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height									Size
Red Pine	60	Log/XLog/Pole	15	91	Red Maple	Medium	Variable									Sapling
White Pine	15	Log	13		Black/Red (Hybrid) Oak	Low	5 - 10 feet									Sapling
Red Maple	5	Pole/Log	9		Bigtooth Aspen	Low	Variable									Sapling
Black/Red (Hybrid) Oak	15	Log/Pole	13		Balsam Fir	Medium	Variable									Sapling
Bigtooth Aspen	5	Log/Pole	12													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
18	4199 - Other Mixed Upland Deciduous	Sawtimber Well	16.3	91	111-140	N/A	Stand contains various changes in soil gradient. North central contains the majority of the aspen which is becoming over mature. Areas south of the two-track are dominated by Oak, and areas in the far east end transition to slightly better soil giving way to more mixed hardwood with sugar maple, birch, ironwood, and better quality oak. Scattered conifer, pine influence throughout.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	Log/Pole	11		Black/Red (Hybrid) Oak		
Red Pine		5	Log/Pole/XLog	12		White Pine		
Black/Red (Hybrid) Oak		40	Log/Pole/XLog	13	91	Red Pine		
Bigtooth Aspen		25	Log	11		Balsam Fir		
Sugar Maple		1	Pole	9		Black/Red (Hybrid) Oak		
Ironwood		1	Pole	7		Red Maple		
Red Maple		20	Pole	7				
Balsam Fir		2	Pole	7				
Paper Birch		1	Log/Pole	10				
19	42310 - Planted Spruce	Sapling Medium	1.7	30	1-50	N/A	Historical Trespass of a Christmas tree plantation. Very thick and dense.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		10	Pole/Sapling	5				
Balsam Fir		25	Pole/Sapling	5				
Douglas Fir		5	Pole/Sapling	5				
White Spruce		55	Pole/Sapling	5	30			
Black Spruce		5	Sapling/Pole	4				
20	42110 - Planted Red Pine	Poletimber Well	17.0	61	141-170	N/A	Third row thinned 2008 under contract 54-004-06 Rainy River Mix. Diameters are variable with the largest diameters in the south and in the far NE. Edges are pretty scrubby with Oak brush and honey suckle. Overall still pole. Planted in 1962.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		95	Pole/Log	9	61	Black Cherry		
Black/Red (Hybrid) Oak		3	Log	16		Honeysuckle (spp.)		
White Pine		2	Log	15		Red Maple		
						Black/Red (Hybrid) Oak		
						Hawthorn (spp.)		
21	4130 - Aspen	Sapling Medium	4.0	15	1-50	N/A	Harvested in 2008 along with stand 22 to the south. Rainey River Mix 54-004-06. All Oak were left resulting in scattered supercanopy log Oak and the occasional Sugar maple. The stand transitions from aspen in the south to more hardwood to the north on the ridge. Sugar maple is present but not very significant. Stand isn't growing much besides raspberry up on the hardwood ridge resulting in a 50-75% canopy.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling	3		Serviceberry (Juneberry)		
Ironwood		3	Sapling	3		Balsam Fir		
Bigtooth Aspen		60	Sapling/Pole	3	15	White Pine		
Black Cherry		2	Sapling/Pole	4		Sugar Maple		
Black/Red (Hybrid) Oak		10	Pole/Sap/Log	5		Beech		
Sugar Maple		5	Sapling/Pole	4		Black/Red (Hybrid) Oak		
Balsam Fir		5	Sapling	2		Blackberry/Raspberry		
						Ironwood		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
22	4139 - Aspen, Mixed Deciduous	Sapling Well	14.3	13	1-50	N/A	Variable upland/lowland stand. Lots of ridges, swales and kettle holes. Upland portions are mixed aspen, conifer and scattered Oak. Areas in the SE and central/NE are lower swales containing tag, elm, and balsam poplar. Regenerating well.																																																																					
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23	3102 - Grass	Nonstocked	4.1		Unspecified	No	Upland opening. Mixed honeysuckle and conifers.																																																																					
24	3102 - Grass	Nonstocked	20.8		Unspecified	Managed Opening	Heavy knapweed presence. Scattered Honeysuckle with scattered pines.																																																																					
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25	6229 - Mixed lowland shrub	Nonstocked	28.5		Unspecified	No	Alder with scattered trees, mostly red maple, paper birch, and elm. Scattered forested islands here and there. Small creek runs through the stand.																																																																					
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26	6121 - Tamarack	Sawtimber Medium	64.9	102	141-170	N/A	Dominant Tamarack stand with scattered fir, spruce, red maple and aspen. Transitions in and out of Cedar groves and then contains more consistent stocking of cedar as you move south and east. Wet ground, with tip and mound topography present. Has the appearance of a two aged stand, but based on cores, the majority of the smaller pole size trees (5/6" DBH) are of similar age (~91 years old) to that of the overstory cedar. Very tight growth rings and have been stunted in the sub-canopy for sometime. Some areas of smaller cedar are quite dense.																																																																					
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27	6229 - Mixed lowland shrub	Nonstocked	24.7		Unspecified	No	Wet. Dense stand of tag alder, willow, and other lowland shrubs. Scattered dead Elm, and Ash. Edges near the upland contain some quaking aspen. Far East contain Tamarack.																																		
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28	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	88.5	106	141-170	N/A	Was not able to see the entire stand. Tough walking and extremely difficult access. Tamarack dominates in the north and seems to fizzle out moving south. Fir and Spruce are scattered with the occasional cedar pockets.																																		
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30	6120 - Lowland Cedar	Poletimber Well	47.1	95	111-140	N/A	Wet, awful to walk through. Lots of dieback in the tops of the cedar. Appears to have been dominated by more lowland deciduous species at some point; i.e standing dead, heavy black ash pockets. Lots of crooked cedar, heavy sweeps. Lots of broken areas in the canopy most likely resulting in the heavy influence of sub-canopy development. Did not see portions of the stand to the far east.																																		
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31	6121 - Tamarack	Poletimber Well	14.9	91	111-140	N/A	Very similar to stand 33 to the south. Tamarack with a mixed lowland conifer influence. Wet.																																		
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32	6229 - Mixed lowland shrub	Nonstocked	20.0		Unspecified	No	Stream corridor. Scattered Tamarack, alder, and other mixed conifers.																																		



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33	6121 - Tamarack	Poletimber Well	243.0	92	111-140	N/A	<p>Old Railroad grade cuts through east/central portions of this stand. Very nice Tamarack stand. Areas in the north, NE and East contain nice consistent stocking of tamarack almost with a planted like appearance. Small drainage/creek in the far west. Moving south, the tamarack canopy begins to break up giving way to more mixed species. Cedar is present throughout the sub-canopy ranging from seedlings, to saplings to small poles. Did observe two White Pines in the east portion near stand 37. **Was not able to make it up to the far NE and some areas near the private line on the east edge**. But based on IR imagery, the textures and tones were consistent with what I was observing so it appears that the species composition and stocking stay consistent in these areas. There is a small upland island in the far SE.</p>																																																									
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34	6113 - Lowland Maple	Poletimber Medium	24.0	98	81-110	N/A	<p>Was not able to gain access into this stand. Access is extremely difficult coming in from the north and wasn't able to obtain access across private property. Last entry year's data indicated that access was obtained from private and based on that data Red Maple was the dominant species, with scattered dead ash and some elm. Estimated age of the stand is based on previous inventory was 98. Imagery indicates that the stand is wetter in the north possibly containing heavier amounts of tag and more of a lowland shrub influence. Based on IR imagery, the color of the canopy indicates red maple is still a dominant species.</p>																																																									
35	6130 - Fir, Aspen, Maple	Poletimber Well	10.4	89	81-110	N/A	<p>Was not able to get to the stand. Very tough access from the north and no access across private property. I did not want to put remote survey type due to it removing the species data. Appears that last entry they were able to gain permission to cross private. With imagery it looks slightly more upland, but still contains some lower pockets due to the darker color in the IR imagery.</p>																																																									
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37	6120 - Lowland Cedar	Poletimber Well	14.4	102	141-170	N/A	<p>Similar to stand 30. Dense stand of cedar with intermixed fir, spruce and tamarack. Contains a small upland island in the east with aspen and mixed deciduous.</p>																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
40	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	51.3	105	111-140	N/A	Stand has a 3-aged appearance. Stand contains dense groves of cedar logs then transitions into a broken canopy of spruce, fir, scattered red maple and aspen. The subcanopy outside of the cedar groves are very dense with balsam fir saplings and smaller poles. Estimated age of the saplings are 20, with an age on a 5 inch balsam of 42 from a core. VERY tough walking due to blowdown and the high stocking levels of sub-canopy conifers. Lots of sweeps and twists in the larger log cedar.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		2	Pole/Log	9		Balsam Fir		High	Variable	Sapling	
Paper Birch		5	Log/Pole	10		Balsam Fir		Medium	>20 feet	Pole	
Balsam Fir		18	Pole/Log	8		Black Spruce		Low	10 - 20 feet	Sapling	
White Pine		5	Log	13		Black Ash		Low	< 5 feet	Sapling	
Red Maple		5	Log/Pole	10		Paper Birch		Low	10 - 20 feet	Sapling	
Black Spruce		18	Log/Pole	10							
Quaking Aspen		5	Log	14							
Northern White Cedar		42	Log/Pole	11	105						
41	6112 - Lowland Aspen	Poletimber Well	54.7	34	51-80	N/A	Harvested in winter of 1989, cutting all merchantable stems. Pockets of advanced regen of mostly mixed conifers (fir/spruce). Majority of the old skid trails are very wet and contain mostly tag alder and cattails. Overall stand sits on a west aspect, with upland portions containing bigtooth along the property line as well as an upland mixed conifer pocket in the southwest along the river corridor. Small seeps/drainages observed flowing from east to west. Far south, central and far north contain more wet areas, lots of blowdown, thick tag alder, and more of a floodplain type appearance. Standing water in parts of stand. Rutting still visible from last harvest. Skid trails still visible and provide walking access through most of stand. Some beaver activity along river.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		30	Pole	6	34	Red Maple		Low	10 - 20 feet	Sapling	
Paper Birch		5	Pole/Sapling	5		Paper Birch		Low	10 - 20 feet	Sapling	
Balsam Fir		15	Pole/Sapling	6		Serviceberry (Juneberry)		Low	5 - 10 feet	Sapling	
Northern White Cedar		5	Pole	7		Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub	
White Pine		2	Pole/Log/XLog	9		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Balsam Poplar		15	Pole	5		Cattail spp.		Low	Unspecified	Non-Wood	
Black Ash		5	Sapling	5		Black Spruce		Medium	5 - 10 feet	Sapling	
Red Maple		13	Pole	7		Red Osier Dogwood		Medium	< 5 feet	Tall Shrub	
Bigtooth Aspen		5	Pole	6		Balsam Fir		High	Variable	Sapling	
Black Spruce		5	Pole	6							
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	45.0	98	81-110	N/A		Was not able to access stand from Private. Edge call was made from standing at the southwest edge of stand 41. Age estimates were based on similar sized trees from stand 40. Appears to have similar composition and characteristics of stand 40. Imagery shows more of the deciduous component in the south. Leaf off IR shows the cedar groves in better detail as well.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Fir		20	Pole	7		Balsam Fir			High	Variable	Sapling
Northern White Cedar		28	Pole/Log	8	105	Black Ash			Medium	Variable	Sapling
Black Spruce		28	Pole/Log	8	98	Tag Alder			Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		7	Log	10							
Paper Birch		7	Log/Pole	10							
Red Maple		5	Pole/Log	9							
White Pine		5	Log/XLog	16							
43	6229 - Mixed lowland shrub	Nonstocked	52.8		Unspecified	No	Rainy River. Mixed lowland shrub on the edges.				
44	411 - Northern Hardwood	Poletimber Well	5.8	95	81-110	N/A	Remote call due to no access. Was able to see a portion of the stand from across the Rainy River. Stand sits on an upland ridge. Canopy forms and IR imagery seems to indicate Hardwood, mostly likely Sugar Maple, Beech and other hardwood species. Similar to stand 50, age was estimated from a nearby stand with similar species composition.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																									
47	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.6	110	81-110	N/A	No access from Private Property and very difficult access from the north. Based on viewing from M-68 and imagery, it is a mixed upland stand. Tops and crown form appear to be mixed sugar maple, aspen, and some other hardwood species. Imagery also confirms the northern hardwood/mixed deciduous stand. This upland ridge extends into the swamp complex from the private property from the east.																																																																																									
48	4139 - Aspen, Mixed Deciduous	Sapling Well	14.1	13	1-50	N/A	Harvested in 2010 under contract 54-006-06 South Porter Aspen. Mixture of upland ridges and scattered depressions. Upland in the north with transitional ground in the south and far west. Heavy deer presence, lots of browse.																																																																																									
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50	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	32.2	95	Unspecified	N/A	Not able to visit stand due to no access from private and not being able to cross the river. From observations from across the Rainy River, stand is transitional with more aspen and maple than stand 42. Still appears to contain a good amount of fir and cedar based on IR imagery. Small true upland hardwood stand in the far SW. Age was estimated based on the age of an aspen/hardwood stand that was harvested across the river in 2010 (stand 48).																																																																																									
51	6120 - Lowland Cedar	Poletimber Well	20.4	109	171-200	N/A	Scattered seeps. Operable portions along the north edge. Stand is just under the cusp for overall log. Blowdown present in the southern portions, and in the east. There is a large seep/drainage that comes from a culvert along Porter Rd. Canopy gaps are yielding nice fir regen.																																																																																									
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53	320 - Upland Shrub	Nonstocked	1.2		Unspecified	No	Honeysuckle and raspberry. Few scattered white pine, red pine and some fir.																																																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
54	4319 - Mixed Upland Forest	Poletimber Well	10.7	72	81-110	N/A	Majority upland with some areas of slightly lower ground. Stand does contain a small hardwood ridge that extends out into stand 60. Minor component of sugar maple, beech, ironwood and red maple. Far north contains a small lowland hardwood pocket (half acre) with lowland shrubs and red maple on sedge mats. Overall stand transitions in and out of aspen/fir. Pockets of true logs but on the larger side of pole.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	5	Pole/Log	9		Honeysuckle (spp.)	Medium		< 5 feet	Tall Shrub
Balsam Fir	23	Pole/Log	8		Red Maple	Low		5 - 10 feet	Sapling
Red Maple	15	Pole/Log	9		Balsam Fir	Medium		5 - 10 feet	Sapling
Paper Birch	5	Pole	7		Black Spruce	Medium		Variable	Sapling
Quaking Aspen	30	Log/Pole	10	72	Black Ash	Medium		5 - 10 feet	Sapling
Rock Elm	3	Pole	7						
Black Spruce	15	Pole/Log	8						
White Pine	1	XLog	22						
Northern White Cedar	3	Log/Pole/Sap	10						
55	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	75.4	101	141-170	N/A		Was not able to see the whole stand. Appears tamarack is heavier on the edges. Cedar groves with patches of fir/spruce. Scattered supercanopy white pine. Wet, especially in the north.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
White Pine	5	Log	15		Black Spruce	Medium	Variable		Sapling
Northern White Cedar	35	Pole	6	101	Tag Alder	Medium	< 5 feet		Tall Shrub
Red Maple	6	Pole	7		Black Ash	Medium	5 - 10 feet		Sapling
Tamarack	11	Pole/Log	8		Balsam Fir	High	Variable		Sapling
Balsam Fir	20	Pole	6		Northern White Cedar	Low	Variable		Sapling
Black Spruce	20	Pole	7		Paper Birch	Low	10 - 20 feet		Sapling
Paper Birch	3	Pole	6						
57	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.1	87	81-110	N/A	Heavier deciduous component compared to stand 59 to the south. Larger canopy gaps from overmature aspen and spruce blowdown. Tag alder coming in throughout. Wet. Probably could merge with stand 59, but chose to keep separate based on difference in stand characteristics.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	35	Pole/Log	8	87	Paper Birch	Low		5 - 10 feet	Sapling
Black Spruce	10	Pole/Log	8		Balsam Fir	Medium		>20 feet	Pole
Red Maple	17	Pole/Log	8		Ash (spp.)	Medium		5 - 10 feet	Sapling
Northern White Cedar	18	Pole/Log	9	101	Tag Alder	Medium		5 - 10 feet	Tall Shrub
Quaking Aspen	15	Log/Pole	11		Balsam Fir	Medium		10 - 20 feet	Sapling
58	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	41.0	98	111-140	N/A	Only observed this from the northern edge. Was running out of daylight to get back to the truck. Overall stand seems to be a lowland mix. Pockets of Cedar in the NE, west and SE (based on imagery). Scattered supercanopy White Pines. Heavier fir/spruce, some dead ash/elm in portions.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Log/XLog	14		Tag Alder	Medium		< 5 feet	Tall Shrub
Northern White Cedar	35	Pole	7	98	Northern White Cedar	Medium		10 - 20 feet	Sapling
Tamarack	10	Pole/Log	9		Black Ash	Medium		5 - 10 feet	Sapling
Balsam Fir	21	Pole	6		Balsam Fir	High		Variable	Sapling
Black Spruce	21	Pole	7						
Paper Birch	8	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
59	6120 - Lowland Cedar	Poletimber Well	25.7	113	171-200	N/A	Overall nice contiguous stand of cedar. Upland cedar along Thompson Rd drops quickly down into low ground. Occasional blowdown pockets but overall easy walking. Patchy areas of better sub-canopy development where canopy gaps are present. Southern edge contains some seeps from the drainage culvert from Thompson Rd.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		5	Pole	8		Northern White Cedar		
White Pine		5	Log/XLog	14		Balsam Fir		
Paper Birch		3	Pole/Log	8		Black Spruce		
Tamarack		10	Pole	7		Ash (spp.)		
Northern White Cedar		60	Pole/Log	9	113			
Quaking Aspen		2	Log	12				
Red Maple		5	Pole	6				
Balsam Fir		10	Pole/Log	9				
60	6124 - Lowland Spruce-Fir	Poletimber Well	49.1	87	111-140	N/A		Lowland mix. Transitions in and out of Spruce/Fir, Aspen/Red Maple, Cedar with scattered birch and White Pine. Some alder inclusions in the north and in the south east. True cedar grove in the far southwest with seeps running into stand 64. Does have some 'drier' ridges/islands that are harvestable. Easy walking through this stand. Clean sub-canopy
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Rock Elm		5	Pole	8		Balsam Fir		
Northern White Cedar		10	Pole/Log	9	113	Tag Alder		
Paper Birch		5	Pole	7		Black Spruce		
White Pine		2	XLog	23		Ash (spp.)		
Quaking Aspen		8	Log/Pole	12				
Black Spruce		40	Pole/Log	8	87			
Red Maple		10	Pole/Log	8				
Balsam Fir		20	Pole/Log	8				
61	330 - Low-Density Trees	Nonstocked	1.8		Unspecified	No	Unsure on history of the opening. There is an old logging road that comes out from stand 59 into the opening.	
Sub-Canopy Species		Density	Avg. Height	Size				
Hawthorn (spp.)		Trace	< 5 feet	Tall Shrub				
White Pine		Low	Variable	Pole				
Apple (spp.)		Trace	5 - 10 feet	Sapling				
Tamarack		Low	Variable	Pole				
Honeysuckle (spp.)		Medium	< 5 feet	Tall Shrub				
Northern White Cedar		Low	< 5 feet	Seeding				
Serviceberry (Juneberry)		Low	10 - 20 feet	Tall Shrub				
Northern White Cedar		Medium	10 - 20 feet	Sapling				
63	6229 - Mixed lowland shrub	Nonstocked	7.1	0	Unspecified	No	Stand is essentially a large seep containing tag alder, scattered conifer saplings, dead lowland hardwoods and lots of blowdown in areas. There is no flowing water, or defined stream/creek channel but I am guessing most of this water comes from the drainage culvert under the county road at the intersection of Dempsey HWY and Thompson Rd. Has the appearance of a floodplain. There may be some flowing water near the Rainy River but due to snow on conditions I could not tell.	
64	6229 - Mixed lowland shrub	Nonstocked	2.8		Unspecified	No	Contains the Rainy River. Edges are mostly mixed lowland shrub, with dead elm and ash.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65	6130 - Fir, Aspen, Maple	Sawtimber Medium	17.3	84	81-110	N/A	Rough stand. Lots of blowdown throughout with some portions appearing to have had a significant wind even recently. Stand contains some upland ridges but is dominated by lowland swales and pockets. Areas of lowland hardwood mortality. Stand is in a natural transitioning phase; transitioning out of Aspen/Red Maple and into Balsam fir. Gives an appearance of a multi age cohort throughout. A7,Q5/7, E2. Toughest walking out of the whole 120 acres in this block.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		10	Pole/Log	9		Balsam Fir		High	10 - 20 feet	Sapling	
Red Maple		15	Pole/Log	8		Paper Birch		Low	10 - 20 feet	Sapling	
Paper Birch		5	Log/Pole	10		Balsam Poplar		Medium	5 - 10 feet	Sapling	
Balsam Poplar		8	Pole	6		Ash (spp.)		High	5 - 10 feet	Sapling	
Balsam Fir		32	Pole/Log	9	84	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Quaking Aspen		20	Log/Pole	13							
Black Spruce		10	Pole/Log	8							

68	622 - Lowland Shrub	Nonstocked	6.6		Unspecified	No	Stand contains the Little Rainy River as well as some mixed lowland shrubs along the edges. Mostly Tag alder, some willow and cattails/sedges.
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69	6120 - Lowland Cedar	Sawtimber Well	19.0	121	171-200	N/A	Very dense mature cedar stand. Large log cedar present throughout with lots of sweep, cooks, and twisting. Scattered seeps throughout with most of the walking done over mounds. Scattered super canopy white pine. More consistent poles in west. Overall log. Lots of old fire scarred pine stumps observed.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		15	Pole/Log	9		Balsam Fir		Low	5 - 10 feet	Sapling	
Balsam Fir		15	Pole/Log	8		Black Ash		Low	< 5 feet	Sapling	
Red Maple		3	Pole	8							
White Pine		3	XLog	25	133						
Paper Birch		2	Log	10							
Northern White Cedar		60	Log/Pole	12	121						
Balsam Poplar		2	Log	12							

70	6124 - Lowland Spruce-Fir	Poletimber Medium	29.1	94	111-140	N/A	A large mix of lowland species. Somewhat variable due to areas of blowdown. Tough walking due to thick regen and blowdown. Some good mixed conifer, birch regen in canopy gaps. Scattered overmature aspen present throughout. The Little Rainy River splits the stand in half.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		8	Pole	7		Tag Alder		Medium	< 5 feet	Tall Shrub	
Paper Birch		8	Pole	7		Paper Birch		Low	10 - 20 feet	Sapling	
Quaking Aspen		15	Pole/Log	8		Black Ash		Medium	Variable	Sapling	
Northern White Cedar		8	Log/Pole	12		Balsam Fir		Medium	5 - 10 feet	Sapling	
Balsam Poplar		5	Pole	9		Northern White Cedar		Low	10 - 20 feet	Sapling	
Balsam Fir		27	Pole/Log	8	64						
Tamarack		2	Log	12							
Black Spruce		27	Log/Pole	10	94						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
71	4139 - Aspen, Mixed Deciduous	Sapling Medium	23.8	7	Immature	N/A	Stand was harvested in Dec 2016 under contract 3 Mile Aspen Hardwood Twist 54-011-15. Most of the hardwood component is in the SW portion of the stand. Aspen has completely dominated the stand. Oak has been significantly browsed. Heavy raspberry and honeysuckle presence. Lower ground moving north and north east.																																																																							
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73	4199 - Other Mixed Upland Deciduous	Poletimber Well	13.9	91	81-110	N/A	Stand was on contract 54-002-15 Fire Run Aspen and Oak but was never cut. Variable stand with lowland conifer influence, scattered aspen clones, mixed oak/pine and mixed hardwood species. Oak and pine are mostly log, aspen is pole with a few overmature stems here and there.																																																																							
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74	4130 - Aspen	Sapling Well	19.5	6	Immature	N/A	Stand harvested 3/22/2017 under contract Fire Run Aspen and Oak 54-002-15. Scattered Xlog Oak. Some areas slightly less stocked than others but overall meets regeneration objectives.																																																																							
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76	6229 - Mixed lowland shrub	Nonstocked	7.3	0	Unspecified	No	Stand previously not mapped on the last compartment map. Stand is flagged for disposal. Stand contains Stony Creek; a cold water stream. In and out of forested, and a mix of upland and lowland. Near 211 it is a floodplain with mostly lowland shrub and a mix of lowland deciduous (elm, red maple, ash). Moving west, there is a small upland hardwood pocket, then drops back down to lowland and then moves back into an upland pocket of a mix of hardwoods and some aspen. Difficult to map out and categorize due to mapping standards.																																																																							



Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

77 6112 - Lowland Aspen Sapling Poor 9.4 16 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	8	Sapling/Pole	3	
Northern White Cedar	2	Pole	7	
Apple (spp.)	2	Pole	5	
Quaking Aspen	63	Sapling/Pole	4	16
Balsam Poplar	5	Sapling/Pole	4	16
Balsam Fir	10	Sapling/Pole	4	
Paper Birch	5	Sapling/Pole	3	
Rock Elm	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Honeysuckle (spp.)	Low	< 5 feet	Tall Shrub
Quaking Aspen	Low	5 - 10 feet	Sapling
Black Ash	Medium	5 - 10 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Cattail spp.	Low	Unspecified	Non-Wood
Tag Alder	High	5 - 10 feet	Tall Shrub

Harvested in 2007 under contract 54-002-07 'Wet and Small Pilot Sale'. Demonstration of lowland harvesting techniques. Stand contains one small island of true upland ground in the SW. The north edge of the west polygon contains nice Tamarack regeneration. Areas that were too wet to harvest have resulted in declining aspen with heavy tag alder, black ash sub-canopy. Next YOE may recommend delineating out the upland island once the tag alder has completely taken over the lower portions. There was a thin strip harvested along the east side of stand 24 but that has since turned into tag alder with the occasional Aspen on the edge.

80 4130 - Aspen Poletimber Medium 3.6 42 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	5	Pole	6	
Paper Birch	5	Pole	7	
Quaking Aspen	65	Pole/Log	8	42
Northern White Cedar	5	Pole	9	
Balsam Fir	5	Pole	7	
Red Maple	10	Pole	7	
Rock Elm	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Quaking Aspen	Low	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	Low	5 - 10 feet	Sapling
Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub
Red Maple	Low	Variable	Sapling

Small, more upland island than the surrounding stands. Significantly wet on the south and east edges.