



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53060

Entry Year 2022

Acreage: 435

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 2020-07-16

Stand Examiner: Richard McDonald

Legal Description:

T34N R01E, Sections: 13,14,22,26,27,36

Identified Planning Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and topography:

Terrain is flat to gently rolling with the uplands comprised of primarily Cheboygan-Blue Lakes Assoc. Tawas-Lupton make up the majority of the lowland areas.

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

This compartment is comprised of scattered parcels of state land amongst mostly private land. A few isolated pieces have already been disposed of through a land exchange or sale.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

None identified

Watershed and Fisheries Considerations:

The Black River runs through the compartment. Sturgis and Lyons Creeks flow through and eventually into the Black River.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse textured glacial till. The glacial drift thickness varies between 50 and 200 feet, thickening to the south. Beneath the glacial drift is the Devonian Traverse Group, quarried for limestone elsewhere in the state. The nearest gravel pit is located two miles to the south and potential should be good in this area. There are no current oil and gas leases in this compartment. This area appears to be out of the Niagaran reef trend and has no Antrim Shale potential.

Vehicle Access:

Access to most of these parcels is good, falling along county roads.

Survey Needs:

None required

Recreational Facilities and Opportunities:

No developed recreational facilities exist in this compartment and none are needed.

Fire Protection:

Access is generally good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential. Most interior road systems are closed with berms.

Additional Compartment Information:

Additional forest/compartment boundary adjustments will be made with the Atlanta FMU along the Black River at

Compartment Review.

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**

Report 1 – Total Acres by Cover Type and Age Class

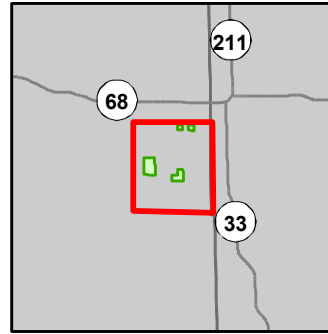


Age Class

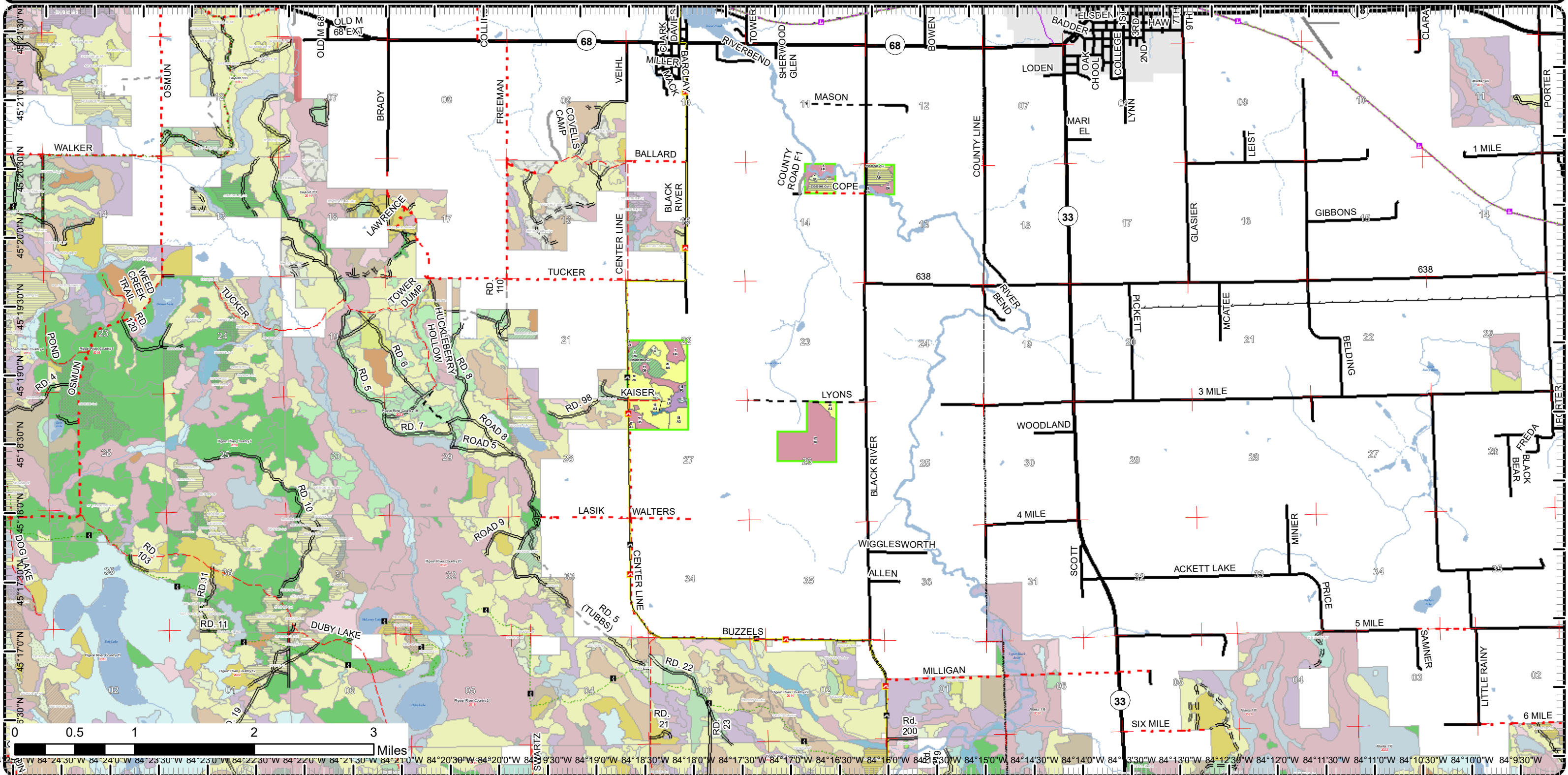
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	46	0	26	29	43	3	0	23	0	0	0	0	0	0	0	0	18	187
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	3	0	0	0	0	0	43	15	0	19	0	0	0	0	0	80
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	29
Tamarack	0	0	0	0	0	0	0	0	0	0	111	0	0	0	0	0	0	0	110
Total	11	46	0	29	44	43	32	0	23	43	126	0	22	0	0	0	0	18	435

Overview Map

Compartment: 60
 T34N,R01E, Sec. 13, 14, 22, 23
 ,26, 27,36
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2022
 Acres: 435.4 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 3/1/2021
 Map Phase: Post-Review



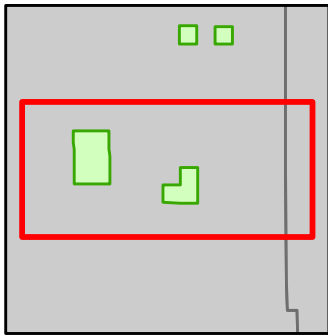
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
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- MCCCT Trails
- ORV License
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 413 - Aspen
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland



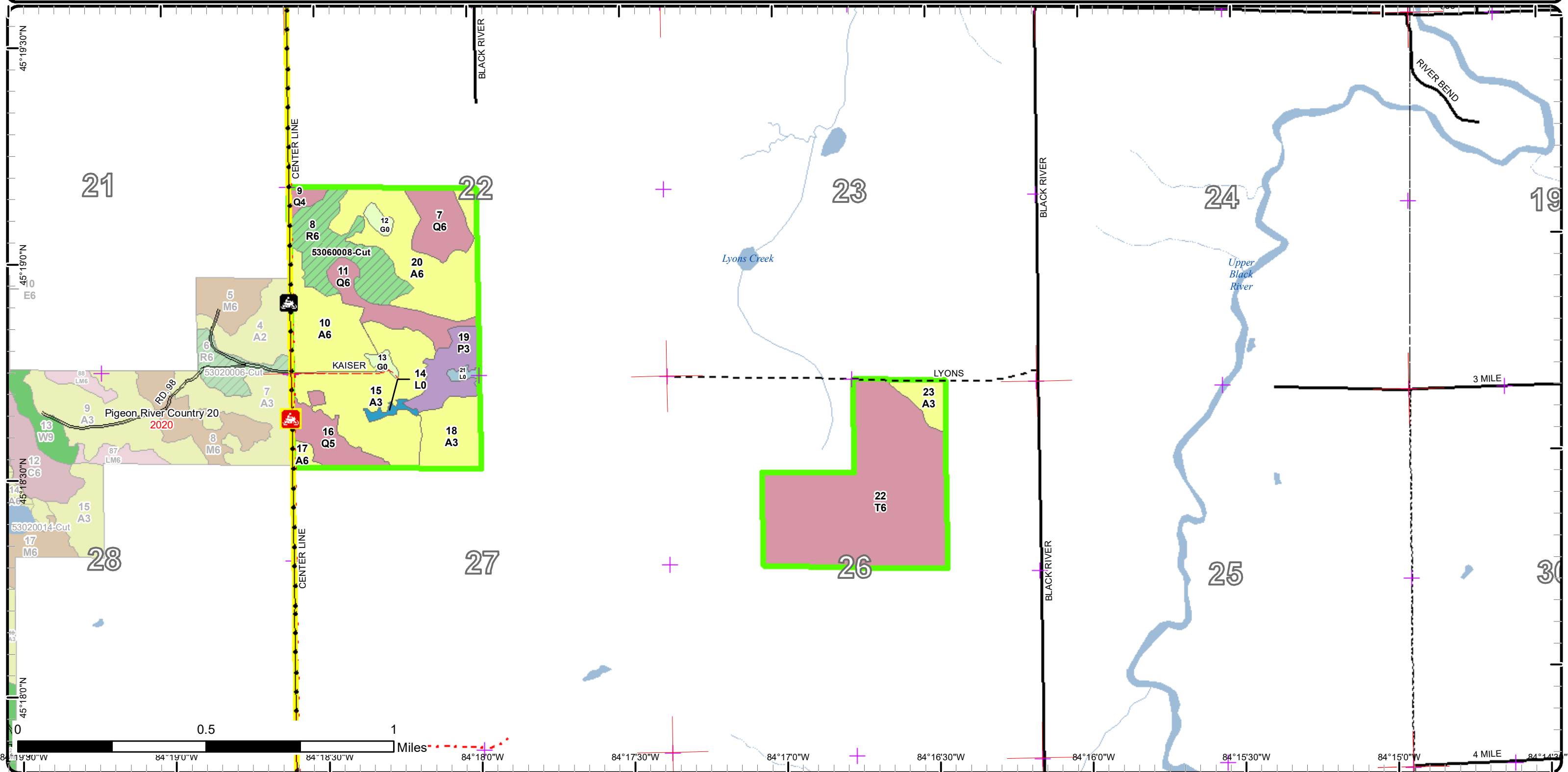
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Cover Type & Treatments Map

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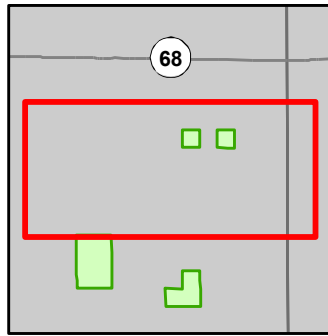


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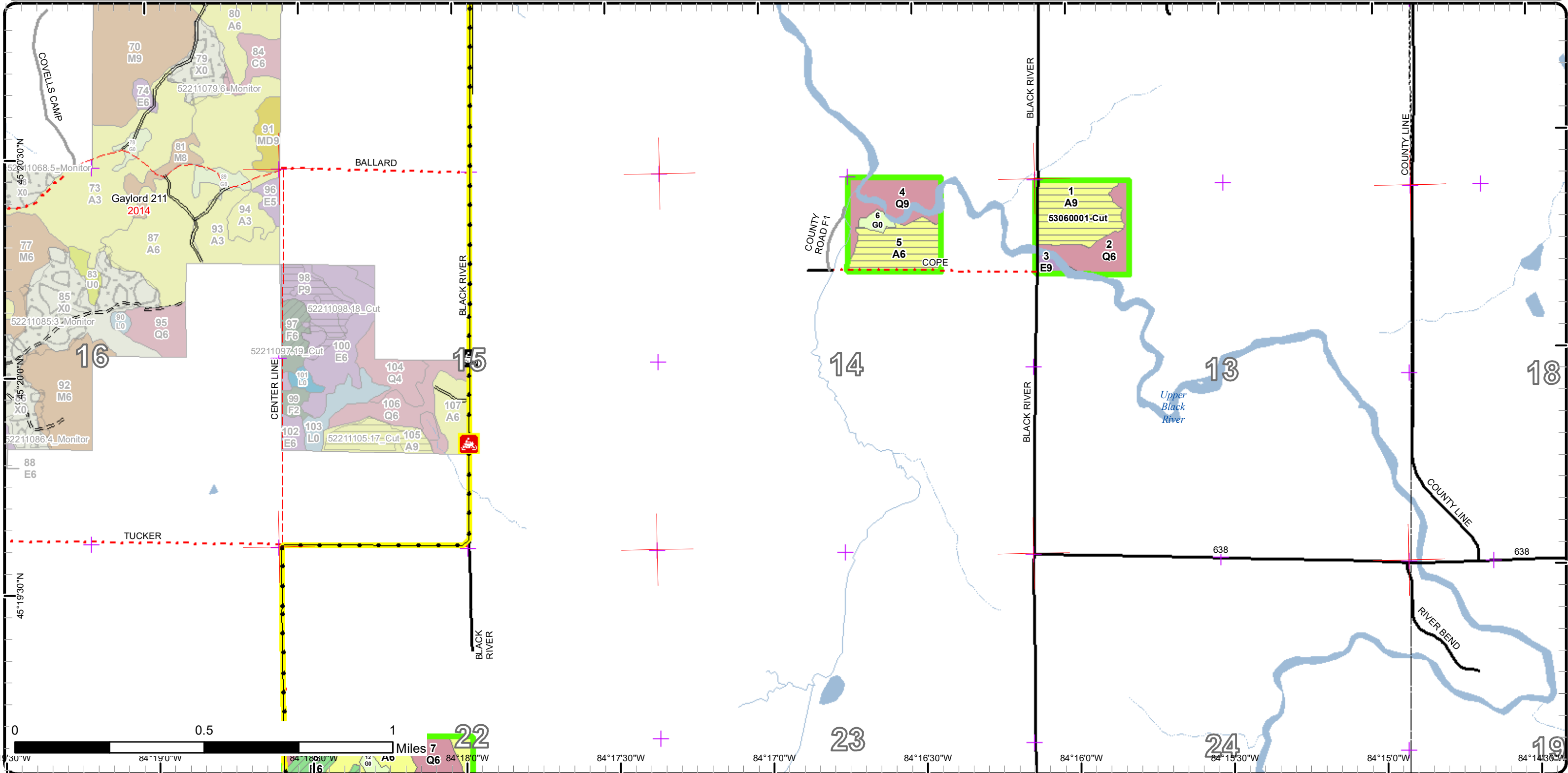


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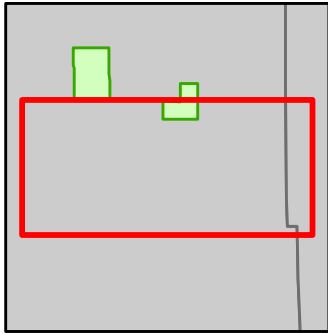


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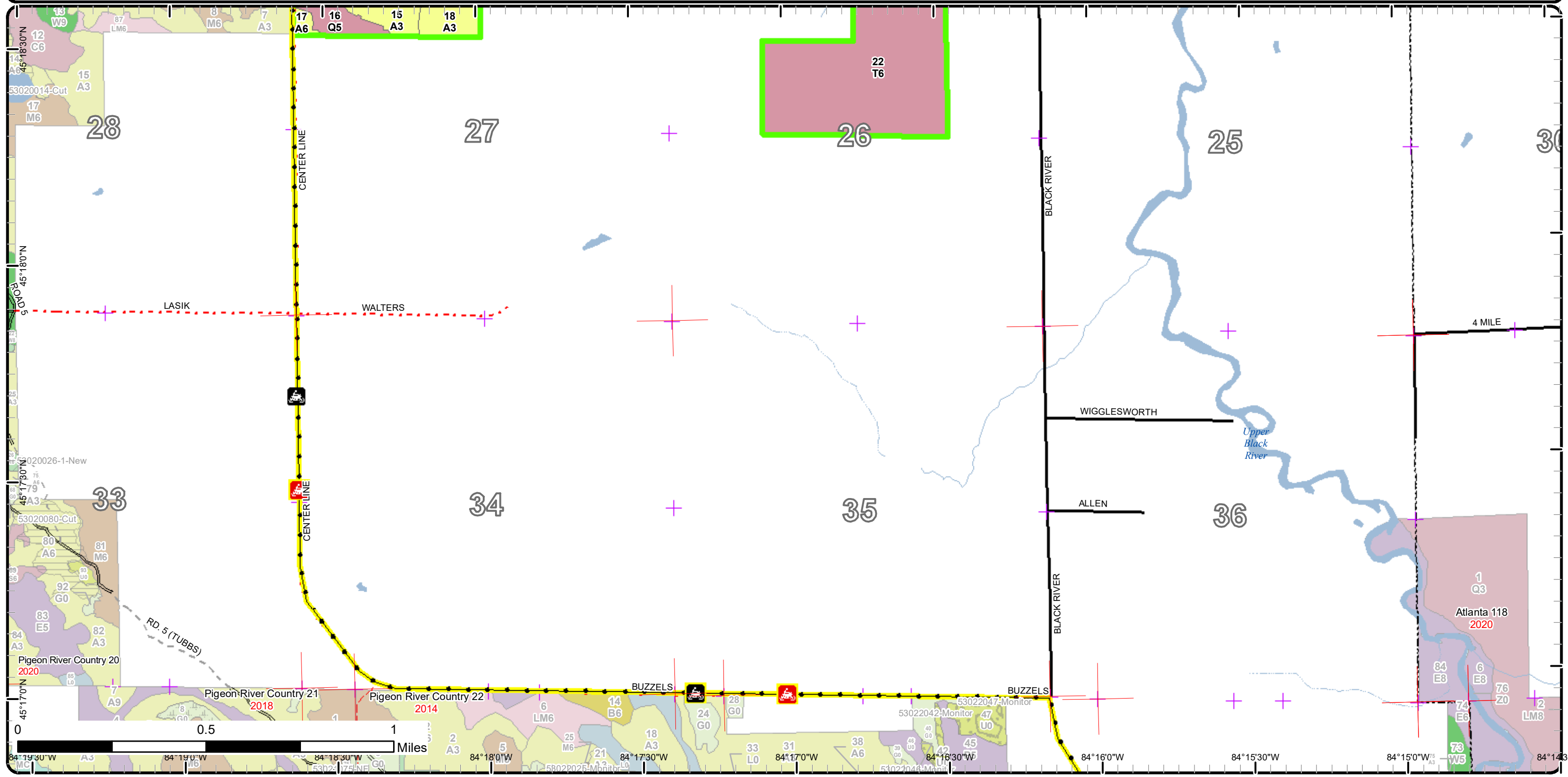


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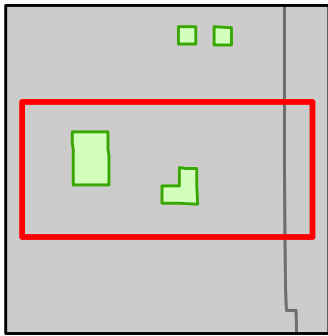


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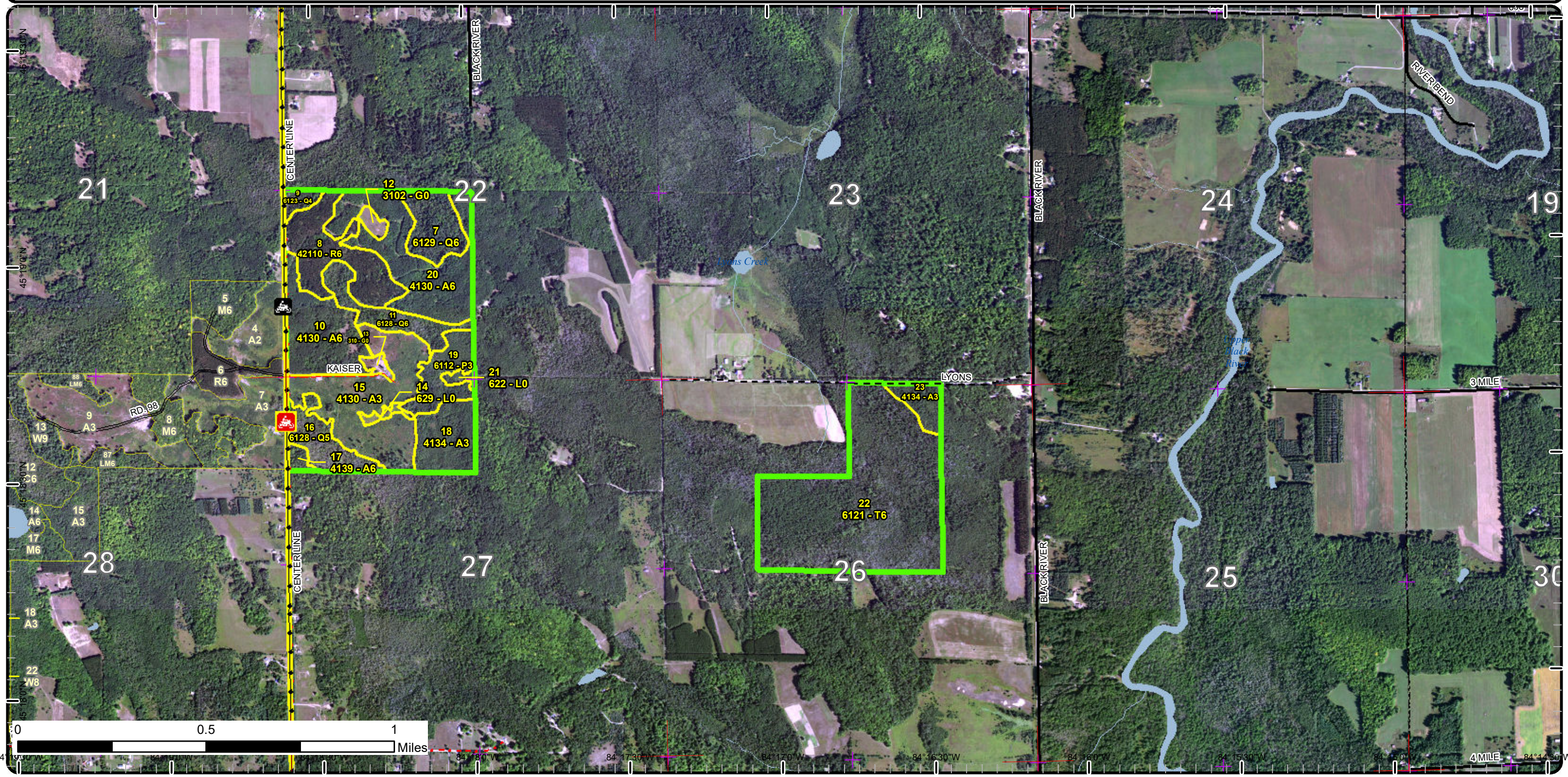


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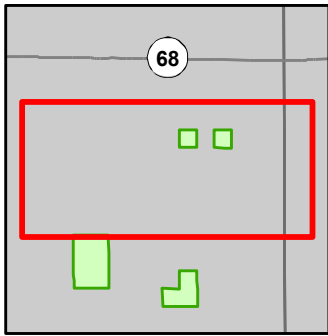


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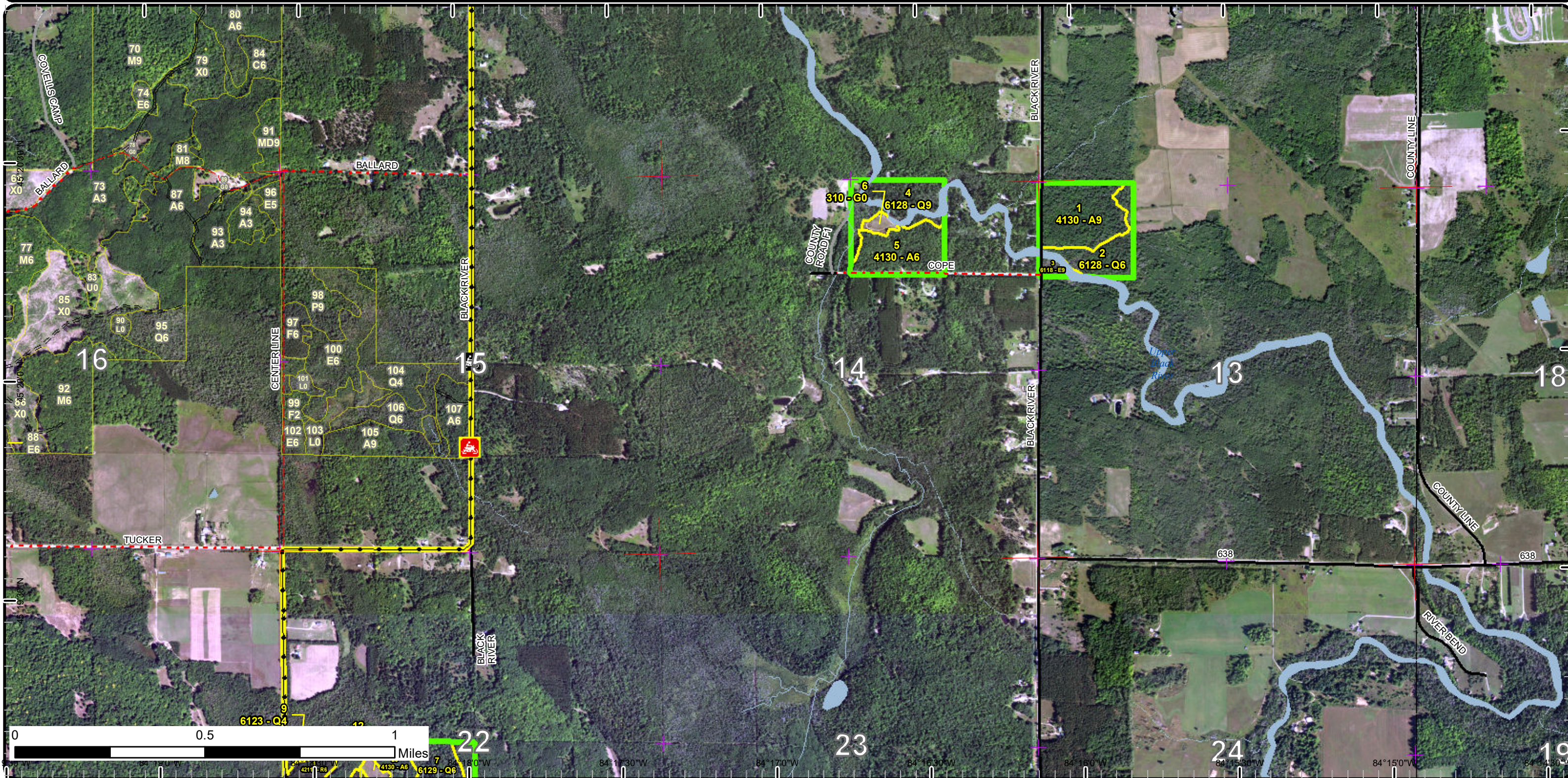


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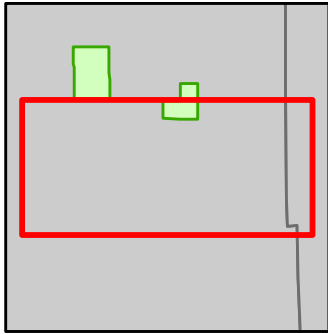


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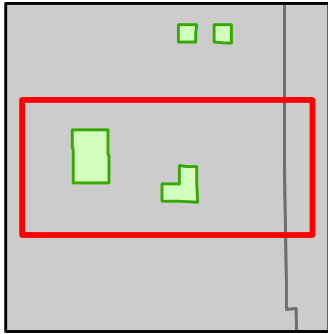


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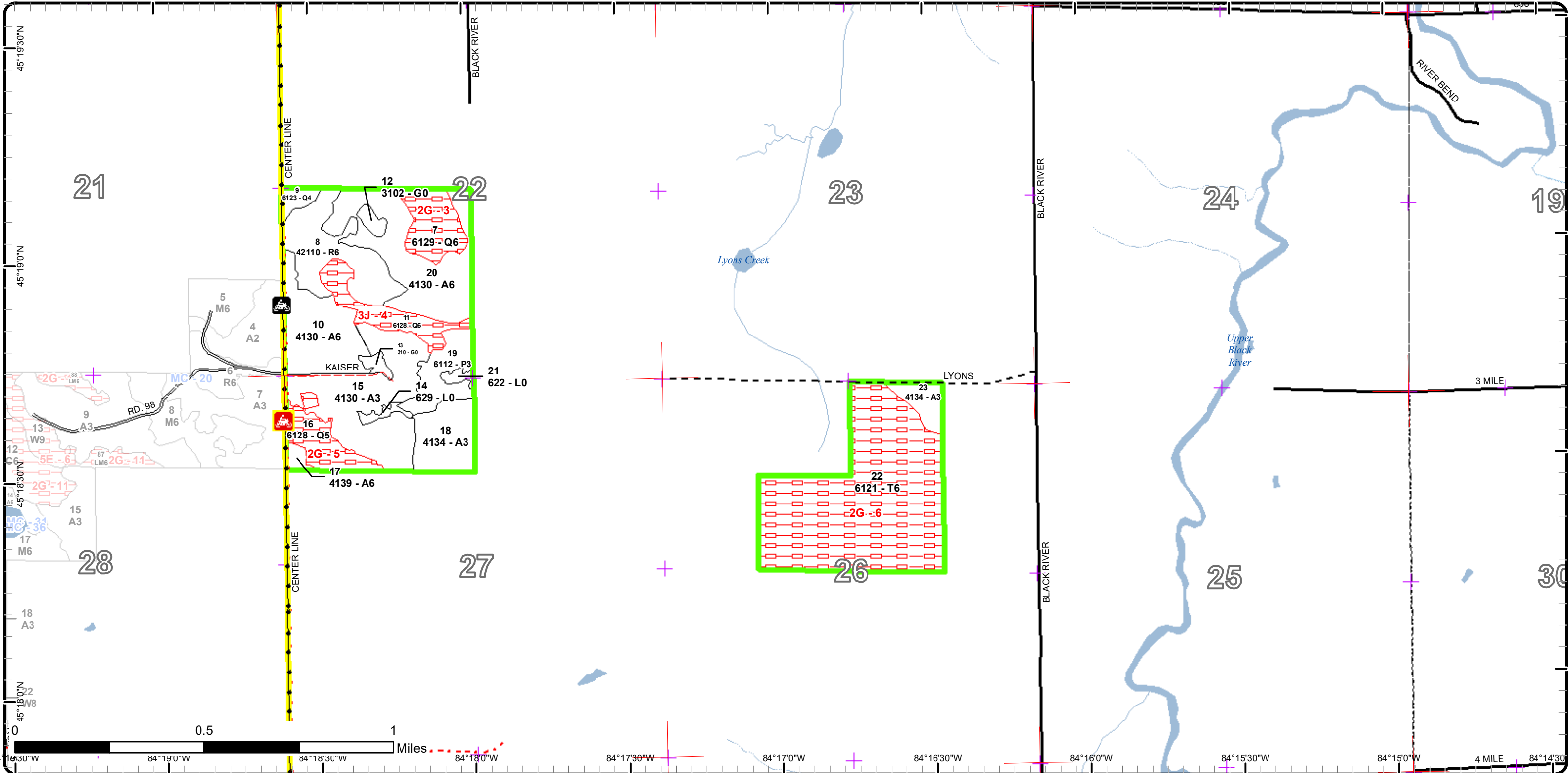


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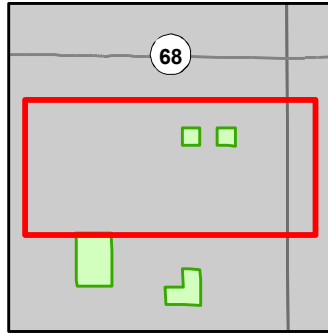


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- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes

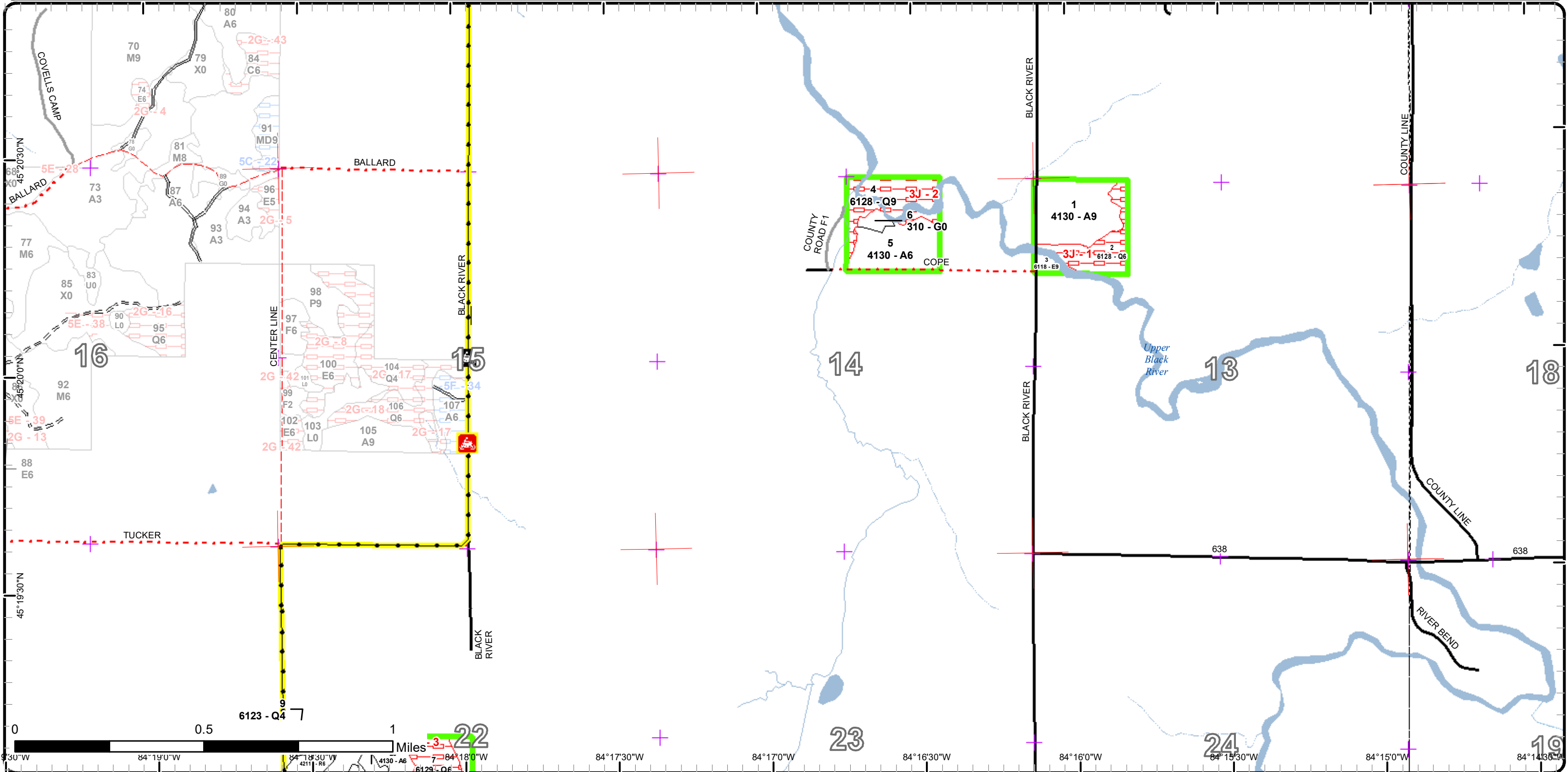


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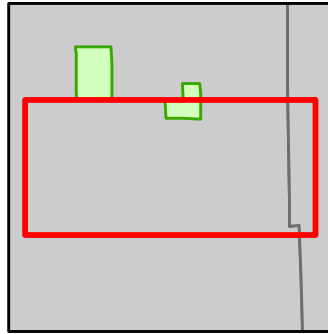


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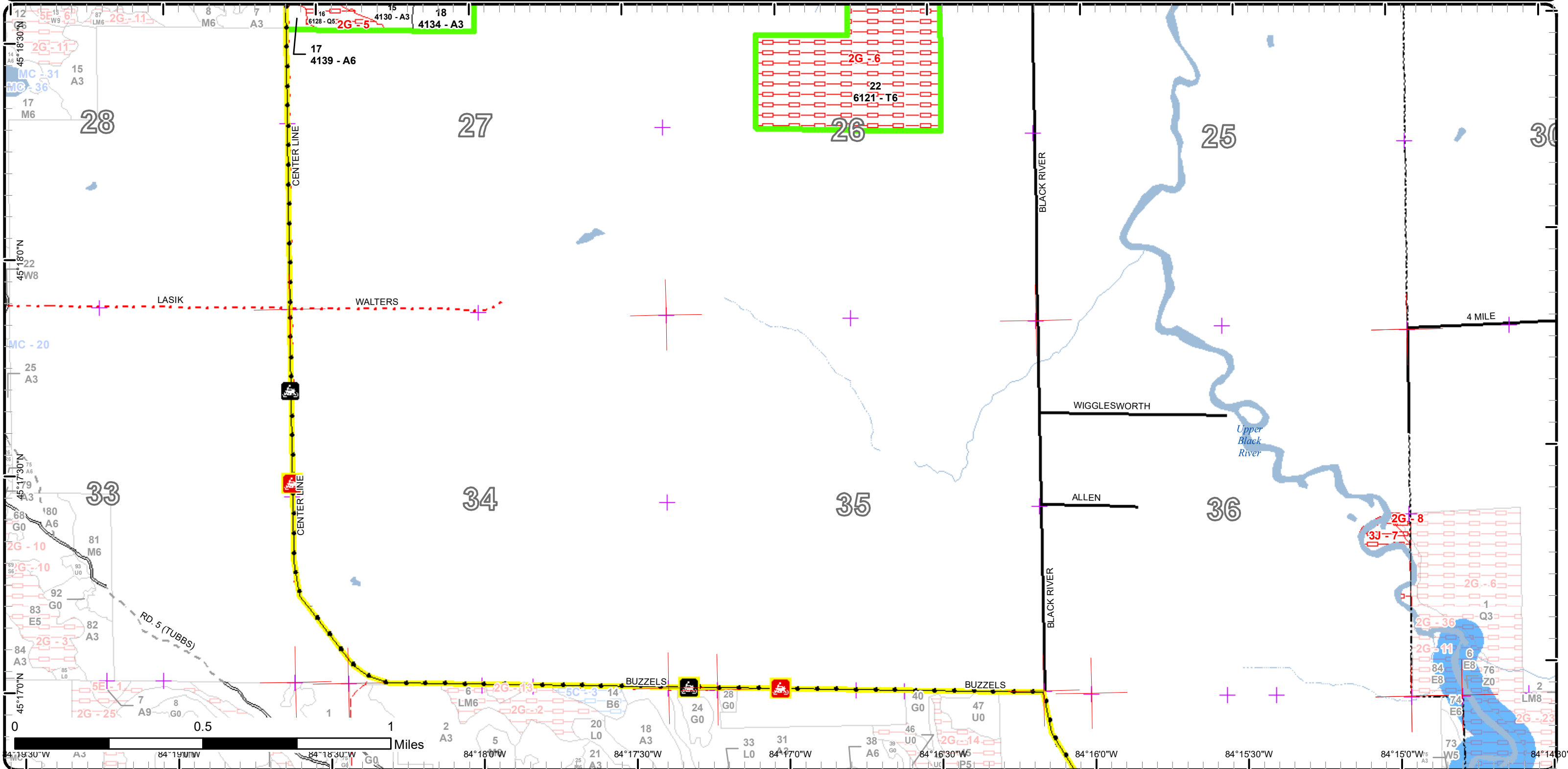


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- 3J: Water quality / BMPs (stream, river, or lake)
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- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 70
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	41	0	0	0	0	0	0	0	0	41
Red Pine	0	0	0	0	29	0	0	0	0	29
Total	41	0	0	0	29	0	0	0	0	70

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	70	0	0	0	0	0	0	0	0	70
Next Step	0	0	0	0	0	41	0	0	0	41
Total	70	0	0	0	0	41	0	0	0	111



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

1	53060001-Cut	23.1	4130 - Aspen	Sawtimber Well	72	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 2-3 retention pockets along the boundary of the sale. Leave conifer screen along roadway along the top of the bank.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen should regenerate well, but Aspen with a mix of other species meeting a moderate stocking level will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
5	53060005-Cut	18.2	4130 - Aspen	Poletimber Well	71	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with 2-3 retention islands along the perimeter of the stand. Leave any Oak and mark a mix of larger red pine and white pine for single tree retention and a future seed source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a mix of species meeting a moderate stocking level will be acceptable for regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
8	53060008-Cut	28.6	42110 - Planted Red Pine	Poletimber Well	58	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark to cut Red Pine to about 100-120 sq. ft. Mark to encourage crown release by taking out undesirable and smaller competitors.</p> <p><u>Specs:</u> Remove any other species competitors, such as Red Maple clumps. Most, if not all, should have been removed in the first thinning. Leave any Oak that may be in the stand.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 69.9
Acres Proposed:

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	2G	3J	
188	188	0	0	Aspen		
7	7	0	0	Herbaceous Openland		
15	15	0	0	Lowland Aspen/Balsam Poplar		
80	3	0	77	30	47	Lowland Conifers
3	3	0	0	Lowland Deciduous		
4	4	0	0	Lowland Shrub		
29	29	0	0	Red Pine		
111	0	0	111	111		Tamarack
435	248		188	141	47	Total Forested Acres
	57%		43%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 60

Richard McDonald : Examiner

Year of Entry: 2022

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	111	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4130 - Aspen	Sawtimber Well	23.1	72	111-140	N/A	Mature aspen starting to decline. Needs to be cut asap.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Log/Pole	12	72	Balsam Fir	
Balsam Fir		10	Log/Pole	10	72	Medium	
Red Maple		3	Pole	8		10 - 20 feet	
White Spruce		2	Log/Pole	10		Sapling	
2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.1	87	81-110	N/A	Wet drainage divides stands 1 and 2
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		45	Log/Pole	12	87	Balsam Fir	
Red Maple		20	Log/Pole	12	87	Medium	
Balsam Fir		15	Log/Pole	10		10 - 20 feet	
Quaking Aspen		15	Log/Pole	12		Sapling	
White Spruce		2	Log/Pole	12		Black Ash	
Paper Birch		3	Log/Pole	10		Low	
						< 5 feet	
						Sapling	
3	6118 - Lowland Deciduous with Cedar	Sawtimber Well	3.2	111	51-80	N/A	River influence zone. Black River flows along the north edge of the stand. Part of stand south of the river is more lowland hardwood floodplain.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		20	Log/Pole	12	111	Balsam Fir	
Red Maple		45	Log/Pole	12	111	Medium	
Balsam Fir		15	Log/Pole	10		10 - 20 feet	
Quaking Aspen		15	Log/Pole	12		Sapling	
White Spruce		2	Log/Pole	12		Black Ash	
Paper Birch		3	Log/Pole	10		Low	
						< 5 feet	
						Sapling	
4	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	18.9	111	81-110	N/A	River bottom along Black River and Sturgis Creek entering the Black. North side of river has no access. There had previously been a cedar left along Sturgis Creek about 10-15 years ago.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Log/Pole	10	111	Balsam Fir	
Northern White Cedar		30	Log/Pole	10	111	Low	
Balsam Fir		20	Pole	9		10 - 20 feet	
White Spruce		10	Log/Pole	12	111	Sapling	
Paper Birch		5	Log/Pole	12		Northern White Cedar	
Quaking Aspen		15	Log/Pole	12		Low	
						10 - 20 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
5	4130 - Aspen	Poletimber Well	18.2	71	51-80	N/A	Mixed aged stand with the more mature aspen in the western part of the stand along the creek. The east 2/3 of the stand is generally of much younger character. Allow to mature another entry period and then it should be ready for harvest.																																															
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8	42110 - Planted Red Pine	Poletimber Well	28.6	58	141-170	N/A	Stand was thinned in 2002. Not a great Red Pine site.																																															
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9	6123 - Lowland Fir	Poletimber Poor	3.4	21	1-50	N/A	Small piece along road and bordering private. Poor swamp.																																															
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12	3102 - Grass	Nonstocked	2.4		Unspecified	Managed Opening	Wildlife created opening but has not been maintained in several years.																																															
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13	310 - Herbaceous Openland	Nonstocked	2.0	0	Unspecified	No	Natural opening. Probably somewhat of a frost pocket.																																															
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14	629 - Mixed non-forested wetland	Nonstocked	1.9	0	Unspecified	No	Low area of spring activity that flows east. Surrounding trees were cut in 2014 with Kaiser Road Aspen sale.																																															
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15	4130 - Aspen	Sapling Well	46.1	7	Immature	N/A	Kaiser Road Aspen sale cut in 2014. Regeneration is coming along fine.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	14.6	89	1-50	N/A	OPIC - FMD: Small aspen mixed throughout. Intermittent stream flows through stand.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Northern White Cedar					45	Pole	8	89	Balsam Fir				Medium	5 - 10 feet	Sapling
Balsam Fir					25	Pole/Sapling	8	89	Tag Alder				Medium	5 - 10 feet	Tall Shrub
Tamarack					10	Pole/Sapling	8		Willow spp.				Low	5 - 10 feet	Tall Shrub
Quaking Aspen					7	Pole	9								
Red Maple					10	Pole	8								
Balsam Poplar					3	Log/Pole	10								

17	4139 - Aspen, Mixed Deciduous	Poletimber Well	2.5	55	81-110	N/A	Small wedge-shaped stand along road used as retention.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Quaking Aspen					50	Log/Pole	10	55	Balsam Fir				Low	10 - 20 feet	Sapling
Red Maple					20	Log/Pole	10		Red Maple				Low	10 - 20 feet	Sapling
Sugar Maple					10	Pole	8								
Basswood					5	Log/Pole	10								
Balsam Fir					10	Pole	8								
Beech					5	Log/Pole	10								

18	4134 - Aspen, Spruce/Fir	Sapling Well	18.4	28	Immature	N/A	Stand Year Origin was 1993. Center area of stand is converting to Q type.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Quaking Aspen					50	Sapling	3	28	Balsam Fir				Medium	5 - 10 feet	Sapling
Balsam Poplar					10	Sapling	3	28	Red Maple				Medium	5 - 10 feet	Sapling
Red Maple					12	Sapling	2	28	Northern White Cedar				Low	< 5 feet	Sapling
Balsam Fir					15	Sapling	2		Tag Alder				Medium	5 - 10 feet	Tall Shrub
White Spruce					5	Sapling	2		Willow spp.				Low	< 5 feet	Tall Shrub
Paper Birch					5	Sapling	2								
Tamarack					3	Sapling	2								

19	6112 - Lowland Aspen	Sapling Well	14.9	36	1-50	N/A	Wet stand with the north half converting to Q type.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Quaking Aspen					35	Sapling	3	36	Red Maple				Medium	10 - 20 feet	Sapling
Balsam Poplar					12	Sapling	3	36	Balsam Fir				Medium	10 - 20 feet	Sapling
Red Maple					15	Sapling	3	36	Northern White Cedar				Low	5 - 10 feet	Sapling
Paper Birch					15	Sapling	2		Tag Alder				Low	5 - 10 feet	Tall Shrub
Balsam Fir					15	Sapling	2								
White Spruce					3	Sapling	2								
Northern White Cedar					5	Sapling	2								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
20	4130 - Aspen	Poletimber Well	42.8	40	1-50	N/A	Stand has hunter walking trail through it that is planted by wildlife periodically, but has not been in a number of years.																																				
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21	622 - Lowland Shrub	Nonstocked	1.7		Unspecified	No	Old beaver pond																																				
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22	6121 - Tamarack	Poletimber Well	110.5	94	111-140	N/A	Wet swamp. Species composition and quality is quite variable throughout the stand.																																				
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