



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41149

Entry Year 2020

Acreage: 2,564

County Schoolcraft

Management Area: Bullock Ranch

Revision Date: 2018-07-16

Stand Examiner: Mario Molin

Legal Description:

: T47N R15W Sections 24, 25, 35 & 36

Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest eco-system management, with emphasis on timber production, maintaining & enhancing wildlife habitat, and protection of riparian areas.

Soil and topography:

The topography varies from flat & wet to gently rolling with some relatively steep ridges. In the bottomlands, soil drainage is moderate to slow, but significantly better with slight increases in elevation. The steeper ridges are comprised of sandy, well-drained soils.

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

There are no private lands within this compartment, nor any developments except for roads. Section 23 (adjacent to the west) is comprised of various private ownerships.

Unique Natural Features:

Unknown

Archeological, Historical, and Cultural Features:

Unknown

Special Management Designations or Considerations:

The northeast corner of this compartment is bounded by the Little Fox River, which falls under the Fox River HCVA. Any treatments in this area must comply with provisions of the Fox River Plan.

Watershed and Fisheries Considerations:

The northern region of this compartment contains the Little Fox River, Perch Lake, and an unnamed waterbody located adjacent (northeast) of Perch Lake. 100' plus 5' per 1% increase in slope; buffers are recommended to protect shoreland areas adjacent to these Perch Lake and the unnamed waterbody in accordance with Best Management Practices (specifically stand 11). The Little Fox River is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for the Little Fox River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

The southwest corner of this compartment borders the Driggs River. The Driggs River is a designated 10BKT trout stream less than 50' width. A 300' buffer is recommended for the Driggs River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Unknown

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat & muck, glacial outwash sand and gravel and postglacial alluvium and minor lacustrine (lake) sand & gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subgroups below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits at not found in the general area, but there could be some potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access to many areas of this compartment is limited by the low, wet terrain. All-season roads provide reasonably good access through section 24 and into the east half of section 25 from the Fox River Road, and to much of section 35 from

the Driggs River Road. Access across the marsh in sections 25, 35 and 36 is limited to winter; in many cases it may prove impractical/impossible even during a typical winter.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

There are no developed recreational facilities in the compartment at this time. The area is locally popular for hunting and berry picking, and both the Driggs & Little Fox Rivers are popular fishing destinations.

Fire Protection:

Conifers and non-stocked wetlands are the dominant fuel types in most of this compartment. Access issues may make fire suppression difficult.

Additional Compartment Information:

The following reports from the Inventory are attached:

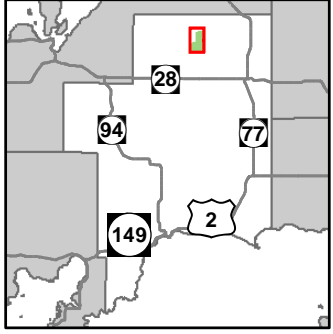
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

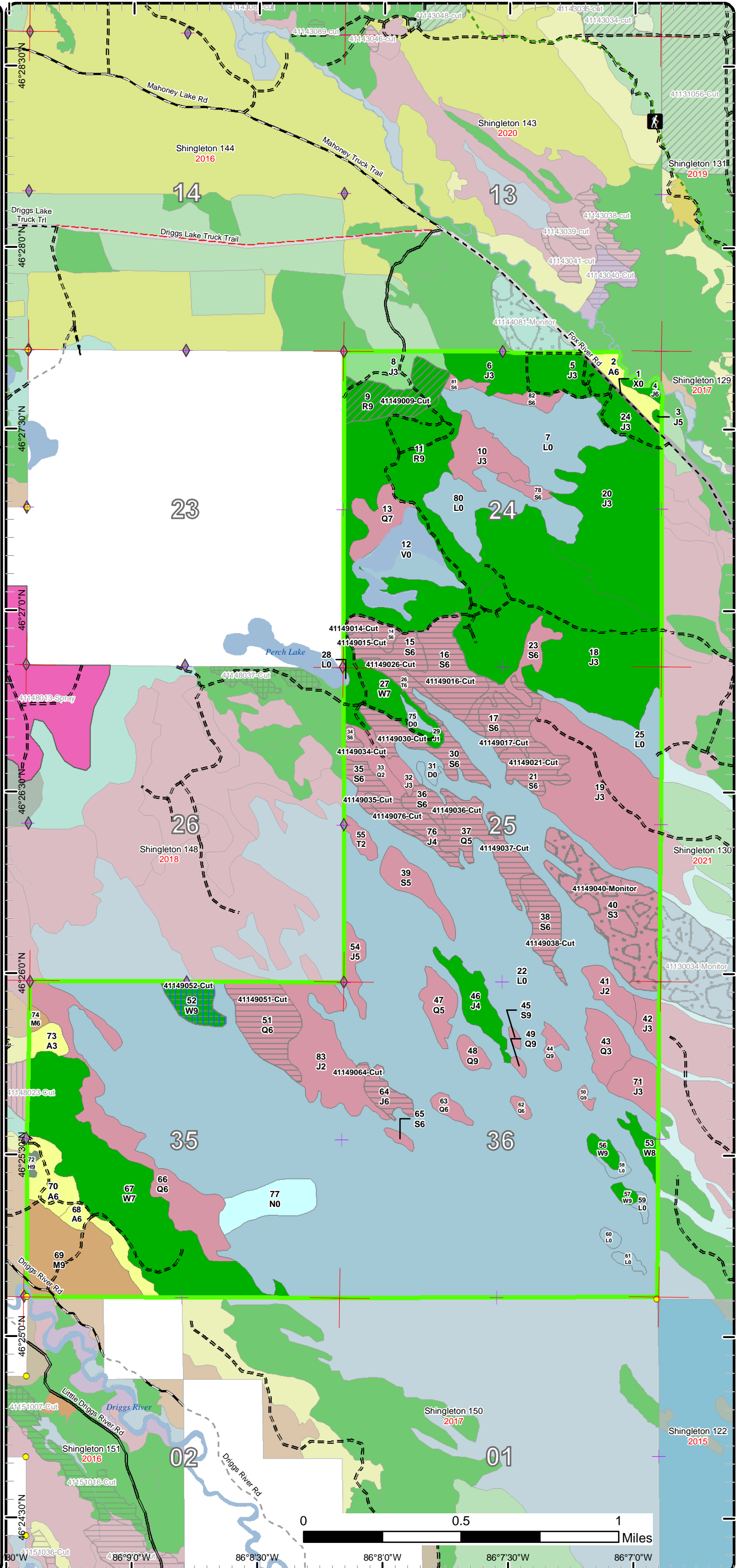
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 149
 T47N,R15W, Sec: 24, 25, 35, 36
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2020
 Acres: 2,564 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 12/17/2018
 Map Phase: Post Review



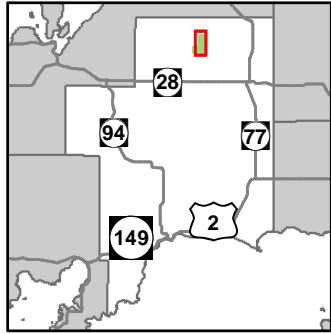
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Designated Hiking Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



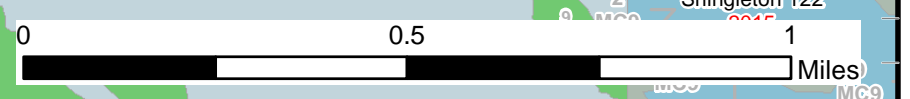
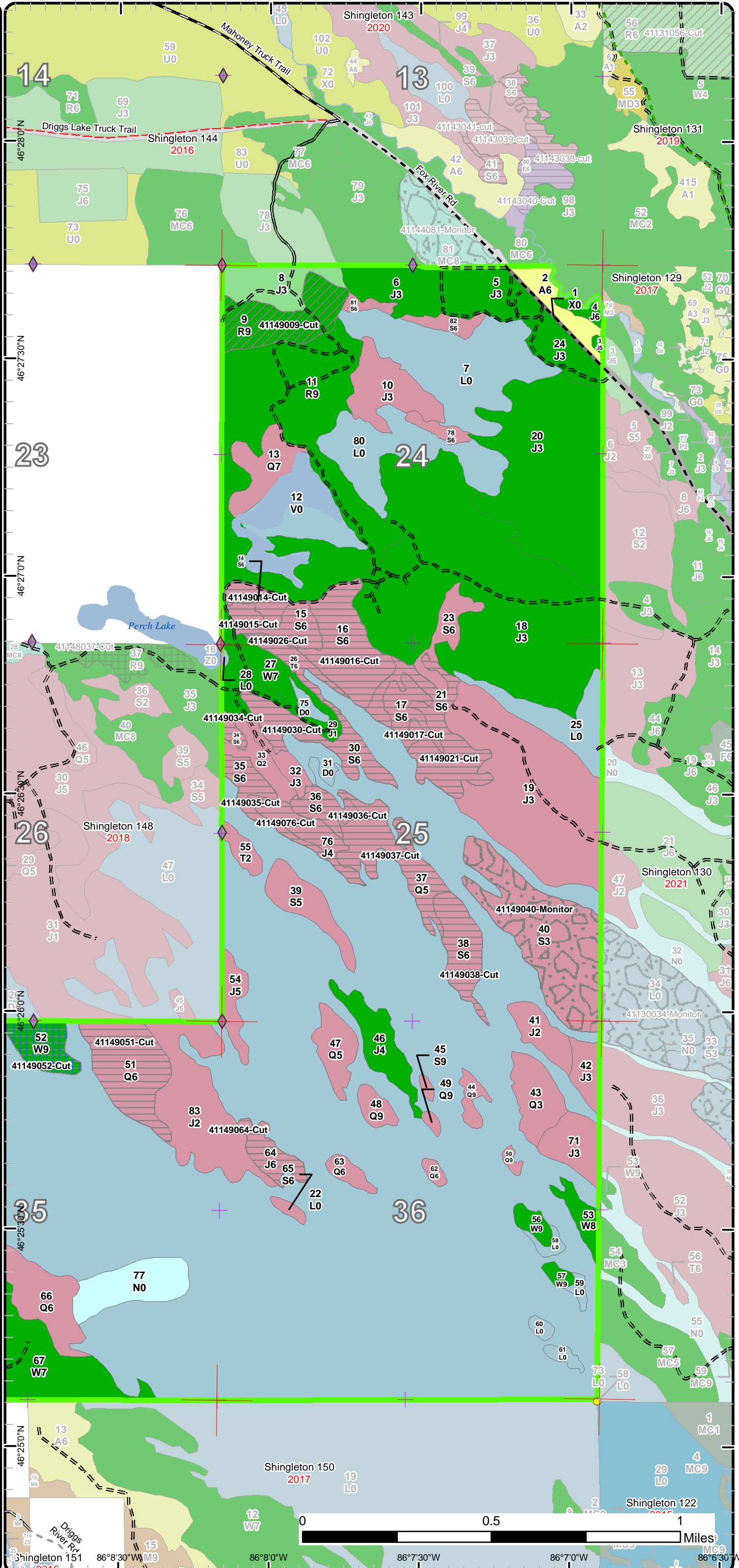
86°8'30"W 86°8'0"W 86°7'30"W 86°7'0"W

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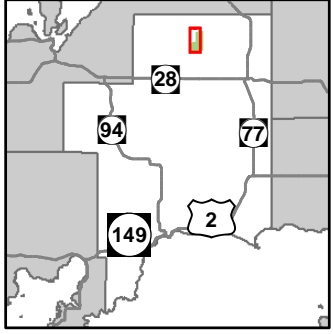
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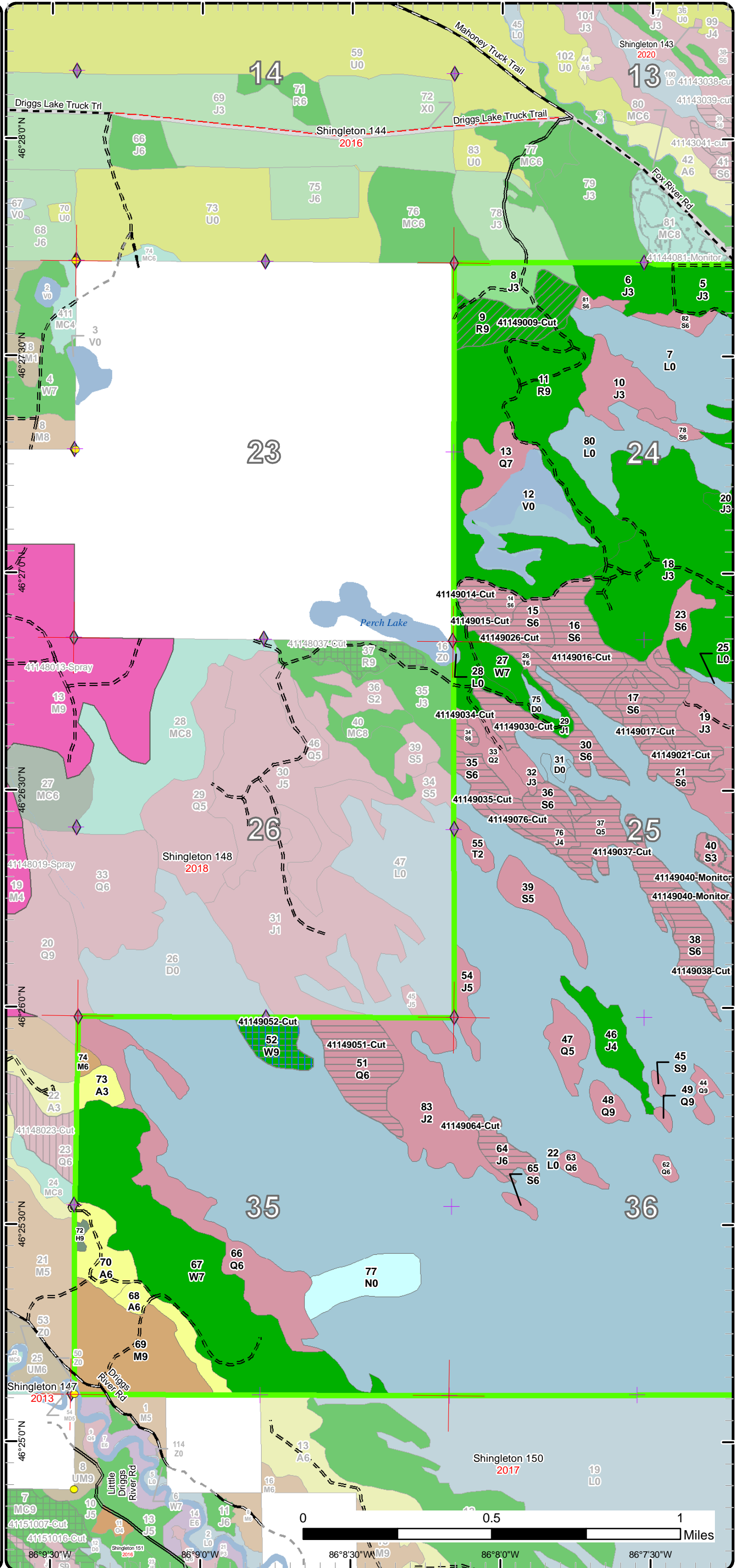
Shingleton 151 86°8'30"W M9 86°8'0"W 86°7'30"W 86°7'0"W 86°6'30"W

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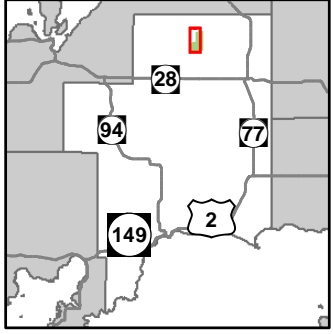


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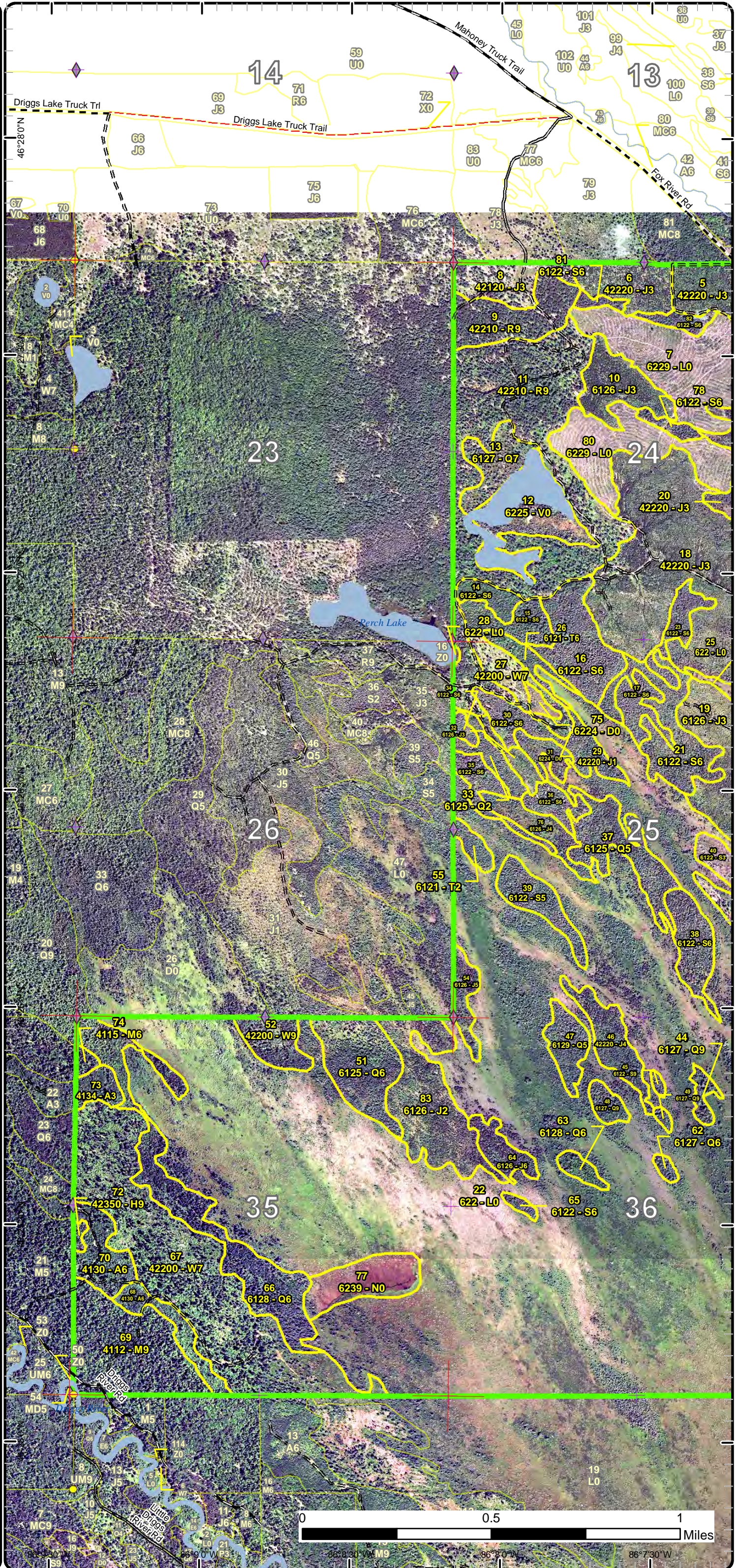


Stand Boundary Map

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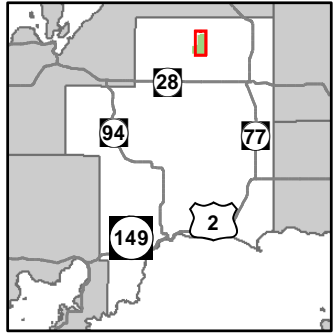
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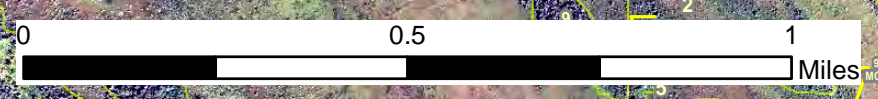
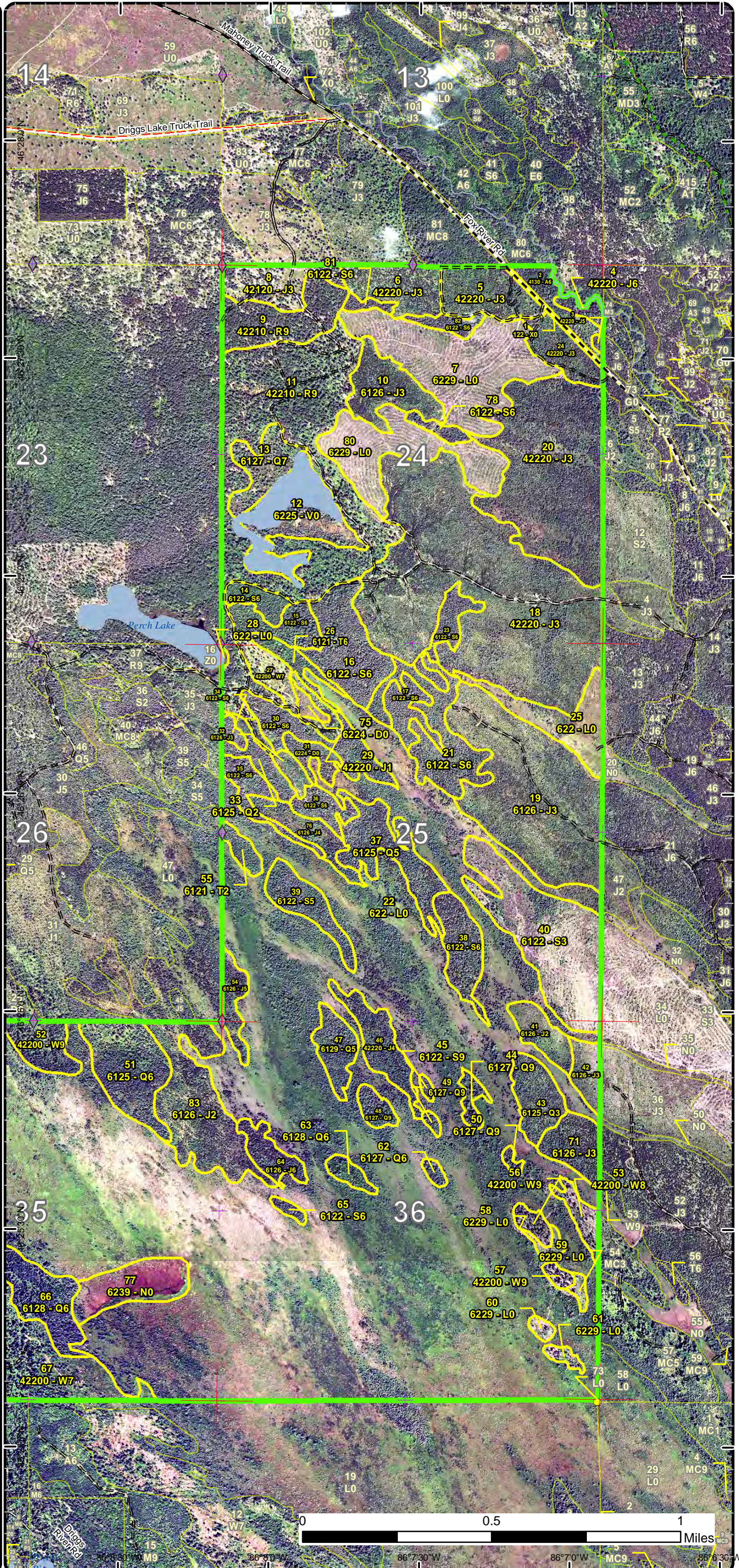
86° 30' W M9 86° 30' W 86° 30' W

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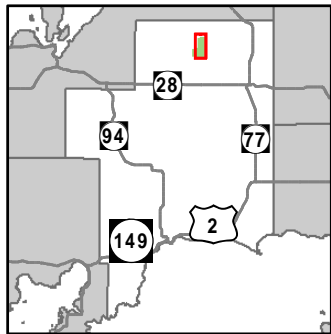
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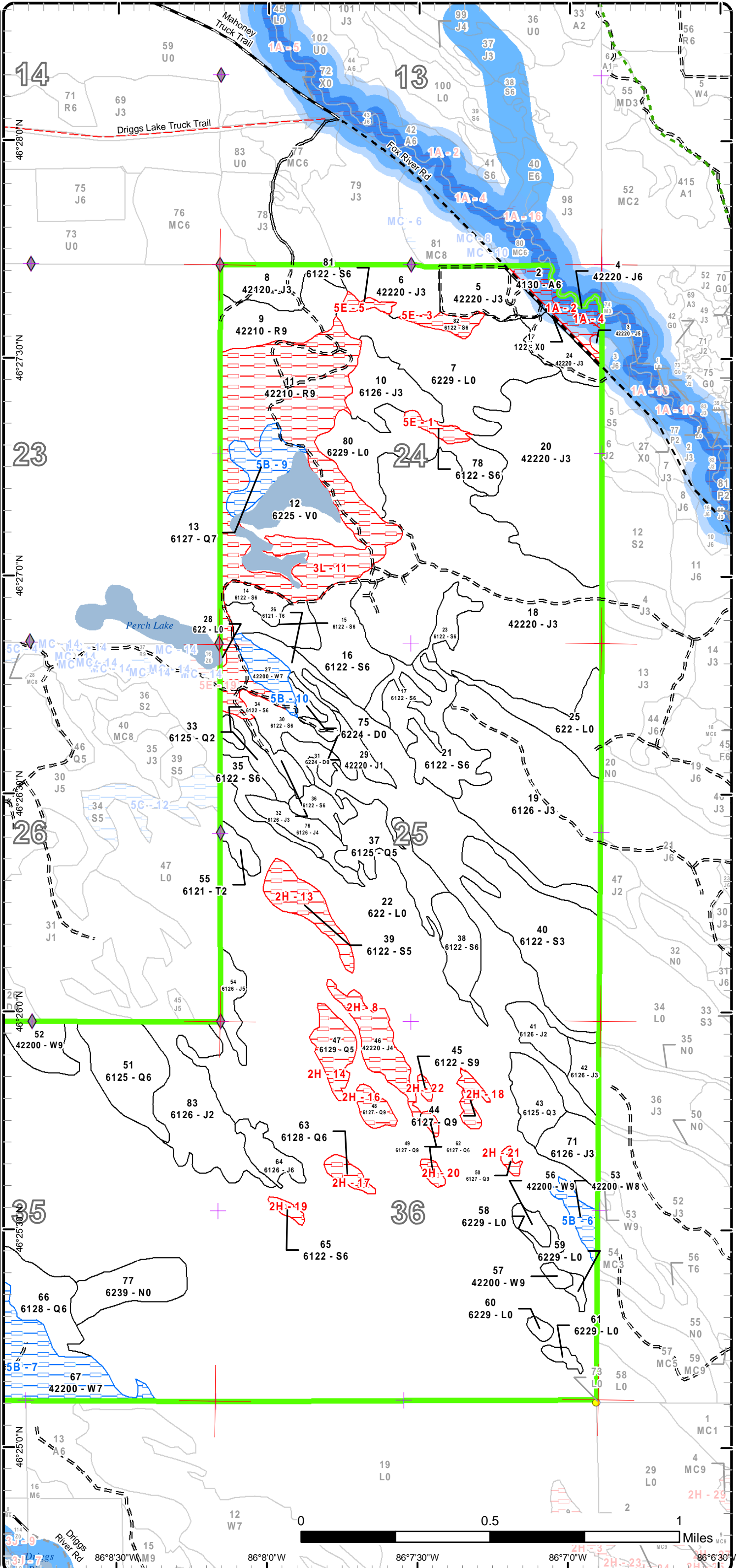
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Special Conservation Areas & Site Conditions Map

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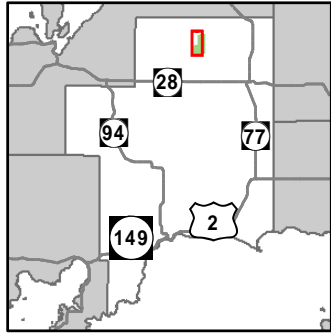


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 1A: Federal/State/Local Law
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer

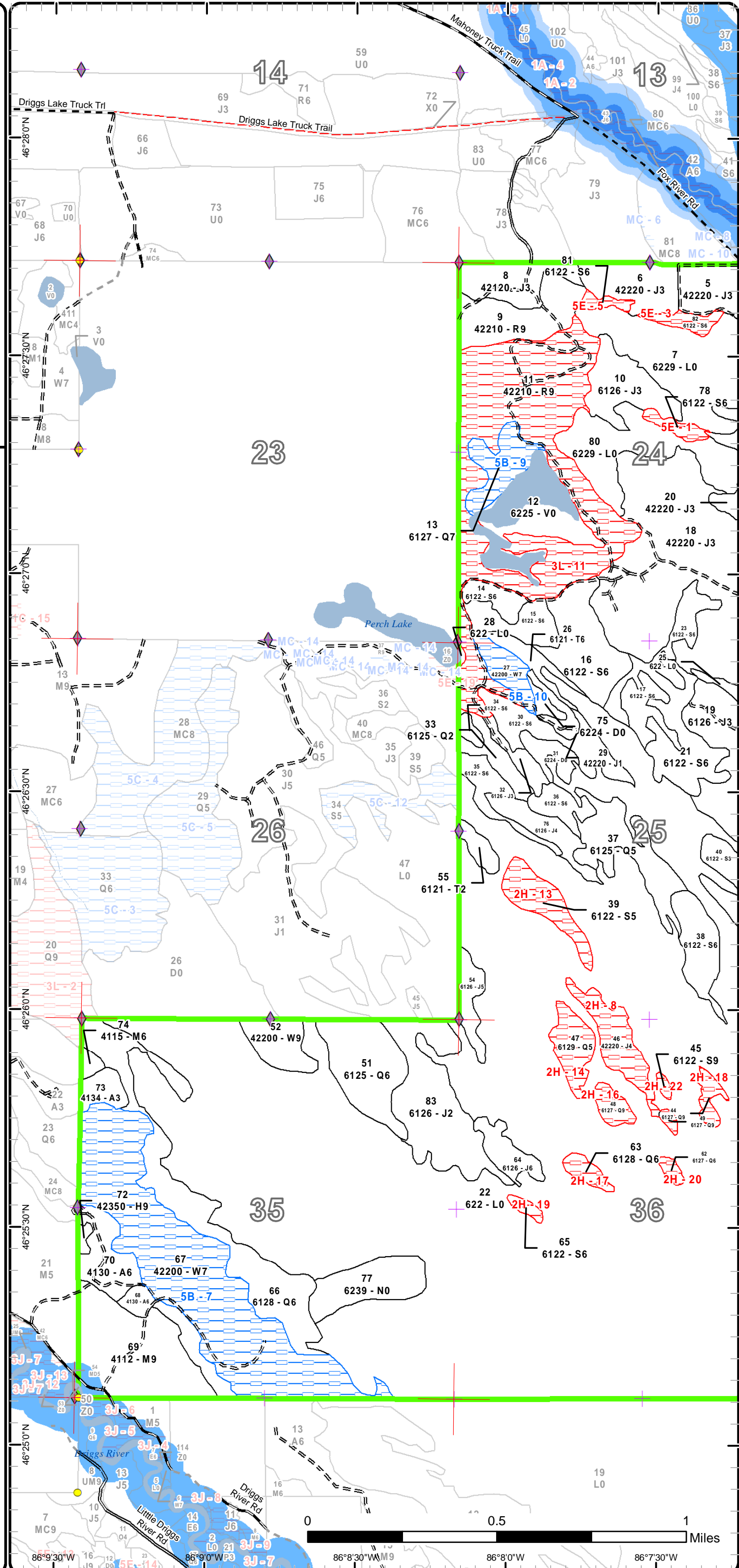


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86°9'30"W 86°8'30"W 86°8'0"W 86°7'30"W

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	23	11	0	10	0	0	0	0	0	0	0	0	0	0	0	44
Bog	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Hemlock	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Jack Pine	0	17	268	89	88	0	0	0	4	0	9	15	0	0	0	0	0	66	555
Lowland Conifers	0	0	0	22	0	0	0	25	0	15	30	13	4	0	6	0	4	53	171
Lowland Shrub	1149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1149
Lowland Spruce/Fir	0	54	0	0	0	0	9	18	0	65	43	38	0	0	0	0	0	0	227
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
Red Pine	0	0	0	0	0	0	0	0	0	141	0	0	0	0	0	0	0	0	141
Tamarack	0	0	0	5	0	0	0	0	0	7	0	0	0	0	0	0	0	0	12
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	0	0	0	0	9	0	128	13	0	0	0	148
Total	1212	71	268	139	99	0	19	43	4	228	82	77	4	128	19	0	4	169	2562



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 149
Total Compartment Acres: 2,564

Commercial Harvest - 254
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
Jack Pine	20	0	0	0	0	0	0	0	0	20
Lowland Conifers	53	0	0	0	0	0	0	0	0	53
Lowland Spruce/Fir	136	0	0	0	0	0	0	0	0	136
Red Pine	0	0	0	0	0	25	0	0	0	25
Tamarack	7	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	13	0	0	0	0	0	13
Total	217	0	0	13	0	25	0	0	0	254

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	254	0	0	0	0	0	54	0	0	308
Next Step	0	0	0	0	0	0	229	0	0	229
Total	254	0	0	0	0	0	283	0	0	537



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
9	41149009-Cut	24.6	42210 - Natural Red Pine	Sawtimber Well	84	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand down 70 BA or remove no more than 1/3 the BA.

Specs:

Stand was thinned before but looks like it was marked more for operability.

Next StepTreatments:

Acceptable Red Pine

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

14	41149014-Cut	6.7	6122 - Black Spruce	Poetimber Well	81	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention, reserve cedar, cut only for operability. Retention will be combined for all the stands. Clumps, small islands in the

Specs: marsh, edge outside redline will be considered retention

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of lowland species.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

15	41149015-Cut	12.1	6122 - Black Spruce	Poetimber Well	81	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention, reserve cedar, cut only for operability (\$50 per cord). Retention will be combined for all the stands. Clumps,

Specs: small islands in the marsh, edge outside redline will be considered retention

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of lowland species.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

16	41149016-Cut	27.0	6122 - Black Spruce	Poetimber Well	105	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention, reserve cedar, cut only for operability (\$50 per cord). Retention will be combined for all the stands. Clumps,

Specs: small islands in the marsh, edge outside redline will be considered retention

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of lowland species.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
17	41149017-Cut	9.3	6122 - Black Spruce	Poletimber Well	100	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention. Retention will be combined for all the stands. Clumps, small islands in the marsh, edge outside redline will be considered retention
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any mix of lowland species
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

21	41149021-Cut	27.9	6122 - Black Spruce	Poletimber Well	92	1-50	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention. Retention will be combined for all the stands. Clumps, small islands in the marsh, edge outside redline will be considered retention
Specs:

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

Acceptable Any mix of species.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

26	41149026-Cut	7.0	6121 - Tamarack	Poletimber Well	89	1-50	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with retention. Retention will be combined for all the stands (14,15,16,17,21). would like to have timber not included in the stands- clumps in the adjacent mash.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any mix of lowland species
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

30	41149030-Cut	17.9	6122 - Black Spruce	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention. Retention will be combined for all the stands. Clumps, small islands in the marsh, edge outside redline will be considered retention
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any mix of lowland species.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
34	41149034-Cut	2.3	6122 - Black Spruce	Poletimber Well	89	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut with no retention due to small size. Line out the red/white pine along the compartment line.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of lowland species

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

35	41149035-Cut	9.6	6122 - Black Spruce	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention. Retention will be combined for all the stands. Clumps, small islands in the marsh, edge outside redline will be

Specs: considered retention

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of lowland species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

36	41149036-Cut	7.6	6122 - Black Spruce	Poletimber Well	89	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention. Retention will be combined for all the stands. Clumps, small islands in the marsh, edge outside redline will be

Specs: considered retention

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of lowland species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

37	41149037-Cut	24.5	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	64	1-50	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention. Retention will be combined for all the stands. Clumps, small islands in the marsh, edge outside redline will be

Specs: considered retention

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of lowland species

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
38	41149038-Cut	15.6	6122 - Black Spruce	Poletimber Well	88	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention. Retention will be combined for all the stands. Clumps, small islands in the marsh, edge outside redline will be considered retention

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Any mix of lowland species.

Other
Comment:

Proposed Start Date: 10/1 /2019

40	41149040-Monitor	54.2	6122 - Black Spruce	Sapling Well	4	Immature	Monitoring	Natural Regen (Re-Inventory)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor for regen.

Next Step
Treatments:

Acceptable Any species on site.

Other Percent to Treat = 100%

Proposed Start Date: 10/1 /2019

51	41149051-Cut	28.8	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription clear cut with island retention, no cut cedar.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Any mix of species

Other
Comment:

Proposed Start Date: 10/1 /2028

52	41149052-Cut	12.5	42200 - Natural White Pine	Sawtimber Well	129	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Green tree 30BA of whit pine and no cut cedar.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Any mix of species.

Other
Comment:

Proposed Start Date: 10/1 /2028



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
64	41149064-Cut	9.0	6126 - Lowland Jack Pine	Poletimber Well	95	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut no retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2028

76	41149076-Cut	11.3	6126 - Lowland Jack Pine	Poletimber Poor	50	1-50	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with no in stand retention. Retention will be combined for all the stands. Clumps, small islands in the marsh, edge outside redline will be

Specs: considered retention

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 307.9**

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 149

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5B	1A	2H	3L	5E
43	34	0	10	Aspen		10			
32	32	0	0	Bog					
1	1	0	0	Hemlock					
554	535	0	19	Jack Pine		4	15		
173	129	15	29	Lowland Conifers	15		29		
1149	1149	0	0	Lowland Shrub					
228	200	0	28	Lowland Spruce/Fir			17		11
20	20	0	0	Marsh					
50	50	0	0	Northern Hardwood					
141	25	0	116	Red Pine				116	
12	12	0	0	Tamarack					
9	9	0	0	Treed Bog					
2	2	0	0	Urban					
149	19	130	0	White Pine	130				
2,564	2,217	145	202	Total Forested Acres	145	13	61	116	11
	86%	6%	8%	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	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: For Stand 7 which is now split into 2 stands because of the retention pocket. This is now for stands 7 and 80.							
2	Unavailable	1A: Federal/State/Local Law	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Majority within Fox River Natural River influence zone							

Report 4 – Site Conditions

Shingleton Mgt. Unit
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3	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention							
4	Unavailable	1A: Federal/State/Local Law	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone							
5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Just cut (2016) and needs time for adequate regeneration.							
7	Available	5B: Maintain for regeneration purposes	115	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Scattered islands in a marsh							
9	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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10	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3L: Other wildlife concerns	116	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Waiting for understory to develop more. WLD does not want to cut at this time. Purchased land.							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Scattered islands in a marsh							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Scattered islands in a marsh							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Scattered islands in a marsh							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Scattered islands in a marsh							

Report 4 – Site Conditions

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Mario Molin : Examiner

Year of Entry: 2020

18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Scattered islands in a marsh</p>							
19	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Scattered islands in a marsh</p>							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Scattered islands in a marsh</p>							
21	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Scattered islands in a marsh</p>							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Scattered islands in a marsh</p>							

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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4130 - Aspen	Poletimber Well	9.7	58	51-80	OPIC - FMD: Stand between the Fox River Road and the Little Fox River - retain for aesthetics. Understory features a mix of species but jack pine is generally dominant.
3	42220 - Natural Jack Pine	Poletimber Medium	0.8	35	51-80	
4	42220 - Natural Jack Pine	Poletimber Well	3.5	73	111-140	
5	42220 - Natural Jack Pine	Sapling Well	19.4	25	Immature	
6	42220 - Natural Jack Pine	Sapling Well	18.1	25	Immature	
8	42120 - Planted Jack Pine	Sapling Well	16.7	7	1-50	OPIC - FMD: [10/08 km] Cut with 41-006-06-01. FTP C41-1277. [5-29-10JB] FTP #41-1277 Received completion report for jack pine replanting on 44 acres for \$114.38 per acre. Need a regen check in 2011. Passed regen checks, stand is fully stocked.
9	42210 - Natural Red Pine	Sawtimber Well	24.6	84	81-110	Thinned 1993
10	6126 - Lowland Jack Pine	Sapling Well	19.9	25	Immature	
11	42210 - Natural Red Pine	Sawtimber Well	116.4	83	81-110	Cut in 1993.
13	6127 - Lowland Pine	Sawtimber Poor	14.6	84	1-50	Cut in 2003.
14	6122 - Black Spruce	Poletimber Well	6.7	81	51-80	
15	6122 - Black Spruce	Poletimber Well	12.1	81	111-140	
16	6122 - Black Spruce	Poletimber Well	27.0	105	81-110	Undersized poles, 1-2 sticks in size.
17	6122 - Black Spruce	Poletimber Well	9.3	100	81-110	Undersized 1-2 stick tall.
18	42220 - Natural Jack Pine	Sapling Well	165.2	18	Immature	Cut in 1997.
19	6126 - Lowland Jack Pine	Sapling Well	84.5	18	Immature	
20	42220 - Natural Jack Pine	Sapling Well	86.5	34	Immature	

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 149
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6122 - Black Spruce	Poletimber Well	27.9	92	1-50	Mainly rat tails, stand flip-flops between jack pine and black spruce.
23	6122 - Black Spruce	Poletimber Well	9.4	59	51-80	OPIC - FMD: Some stems still only 4-5" DBH.
24	42220 - Natural Jack Pine	Sapling Well	13.3	25	Immature	
26	6121 - Tamarack	Poletimber Well	7.0	89	1-50	
27	42200 - Natural White Pine	Sawtimber Poor	8.9	100	1-50	[1/10/14] Sale is now closed TCR dtd 9/24/13. Schedule regen survey in accordance with the work instructions. 2018- Some regen poking up out of snow, will need to see on bare ground and/or wait longer for regeneration to establish.
29	42220 - Natural Jack Pine	Sapling Poor	4.4	25	Immature	Young jack pine/regeneration. Density varies from overall stocking is acceptable and still be filling in.
30	6122 - Black Spruce	Poletimber Well	17.9	66	81-110	
32	6126 - Lowland Jack Pine	Sapling Well	5.6	25	Immature	OPIC - FMD: 1-3" DBH jack pine/black spruce regen
33	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	8.2	25	Immature	1-4" DBH regen
34	6122 - Black Spruce	Poletimber Well	2.3	89	81-110	Rat tail spruce... 1-2 stick material.
35	6122 - Black Spruce	Poletimber Well	9.6	89	81-110	Mixed pine logs includes red & white pine on the compartment line, small bit of high ground.
36	6122 - Black Spruce	Poletimber Well	7.6	89	51-80	
37	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	24.5	64	1-50	
38	6122 - Black Spruce	Poletimber Well	15.6	88	51-80	
39	6122 - Black Spruce	Poletimber Medium	13.9	95	51-80	
40	6122 - Black Spruce	Sapling Well	54.3	4	Immature	Cut with stand 4113034 in Cmp 130 adjacent to the east - due for treatment in YOE 2011.11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 3 and 4. 2018- Scattered large saplings left from harvest.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6126 - Lowland Jack Pine	Sapling Medium	10.0	14	Immature	Some scattered larger saplings left from harvest.
42	6126 - Lowland Jack Pine	Sapling Well	7.8	14	Immature	Some scattered larger saplings left from harvest.
43	6125 - Lowland Black Spruce, Jack Pine	Sapling Well	14.4	25	Immature	Wetter areas feature a mix of jack pine - spruce - tamarack regeneration at slightly lower density, but still fully stocked.
44	6127 - Lowland Pine	Sawtimber Well	4.1	157	81-110	
45	6122 - Black Spruce	Sawtimber Well	1.1	92	51-80	
46	42220 - Natural Jack Pine	Poletimber Poor	15.4	102	1-50	Parent stand is dying off and new all age stand is seeding in.
47	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	11.2	102	51-80	Edges of stand are in decline.
48	6127 - Lowland Pine	Sawtimber Well	4.9	133	81-110	
49	6127 - Lowland Pine	Sawtimber Well	1.2	92	81-110	
50	6127 - Lowland Pine	Sawtimber Well	1.5	133	111-140	No signs of cutting in.
51	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	28.8	95	81-110	OPIC - FMD: [2/21/08] Stand is currently being prepped for sale along with adjacent timber in compartment 148. [3/12/08 jb] retention area was left in the NE corner of the stand, see cmpt map. [11-23-09] Stand is now under contract - TS 41-028-08-01 360 Jack Pine. Residual BA outside of retention area(s) is less than 3 sq.ft./acre. [7-19-11] sale is now complete TCR dtd 6-16-2011. Schedule regen check. 2/7/18- This stand was not cut from the previous contract.
52	42200 - Natural White Pine	Sawtimber Well	12.5	129	81-110	[2/21/08] Stand is currently being prepped for sale along with adjacent timber in compartment 148. [11-23-09] Stand is now under contract - TS 41-028-08-01 360 Jack Pine. Residual BA outside of retention area(s) is less than 3 sq.ft./acre. 3/7/18- Does not look like it was cut.
53	42200 - Natural White Pine	Sawtimber Medium	6.6	133	51-80	11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 1 Residual BA white pine 28', red pine 2'12/3/12 RFT Stand is now under contract 41-007-11-01 Jack and Tammys Softwood.1/4/16 - TCR3-7-18- Adequate regeneration showing.
54	6126 - Lowland Jack Pine	Poletimber Medium	8.2	50	51-80	Natural stand of Jack Pine varying in age and size.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	6121 - Tamarack	Sapling Medium	4.7	20	Immature	Young tamarack seeding in naturally. Age is an estimate because there are so many different sizes.
56	42200 - Natural White Pine	Sawtimber Well	4.1	133	1-50	11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 1 Residual BA white pine 30', red pine 3' 12/3/12 RFT Stand is now under contract 41-007-11-01 Jack and Tammys Softwood. TCR: 1/4/16
57	42200 - Natural White Pine	Sawtimber Well	2.3	133	81-110	11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 1 Residual BA white pine 31', red pine 3' 12/3/12 RFT Stand is now under contract 41-007-11-01 Jack and Tammys Softwood. 1/4/16- TCR
62	6127 - Lowland Pine	Poletimber Well	1.9	100	81-110	
63	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.1	112	51-80	
64	6126 - Lowland Jack Pine	Poletimber Well	9.0	95	81-110	
65	6122 - Black Spruce	Poletimber Well	2.0	100	51-80	
66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	53.0	57	51-80	2018- Stand is all ages and mixes of species..
67	42200 - Natural White Pine	Sawtimber Poor	114.5	125	51-80	OPIC - FMD: Chipped in 2005, leaving 12-26"+ WP. Regen is primarily red maple along with scattered w.pine, balsam fir and aspen.
68	4130 - Aspen	Poletimber Well	11.2	37	1-50	
69	4112 - Maple, Beech, Cherry Association	Sawtimber Well	47.3	83	81-110	OPIC - FMD: [7-27-04 RFT] Oak & WP handplanted by inmates under FTP W41-1003 - work completed 5-21-04. Red maple stand with hemlock and yellow birch scattered throughout. Last selection completed around 2004.
70	4130 - Aspen	Poletimber Well	16.0	24	1-50	
71	6126 - Lowland Jack Pine	Sapling Well	12.9	25	Immature	Wetter areas feature a mix of jack pine - spruce - tamarack regeneration at slightly lower density, but still fully stocked.
72	42350 - Upland Hemlock	Sawtimber Well	1.5	100	51-80	
73	4134 - Aspen, Spruce/Fir	Sapling Well	6.6	24	Immature	OPIC - FMD: OI Stand Year Origin was 1994

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 149
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
74	4115 - Y.Birch, Hemlock NH	Poletimber Well	2.3	65	51-80	
76	6126 - Lowland Jack Pine	Poletimber Poor	11.3	50	1-50	
78	6122 - Black Spruce	Poletimber Well	3.8	89	81-110	[6/9/11 BB] Sale is now on proposal 46-10, Service Spruce. Units 1 and 2, actual acres = 99, retention patch left as corridor as proposed.
81	6122 - Black Spruce	Poletimber Well	2.6	89	81-110	[6/9/11 BB] Sale is now on proposal 46-10, Service Spruce. Units 1 and 2, actual acres = 99, retention patch left as corridor as proposed.
82	6122 - Black Spruce	Poletimber Well	4.8	89	81-110	[6/9/11 BB] Sale is now on proposal 46-10, Service Spruce. Units 1 and 2, actual acres = 99, retention patch left as corridor as proposed.
83	6126 - Lowland Jack Pine	Sapling Medium	41.6	20	Immature	



Stand	Cover Type	Acres	Managed Site	General Comments:
1	122 - Road/Parking Lot	2.2	No	OPIC - FMD: Fox River Road
7	6229 - Mixed lowland shrub	57.2		proposal 46-10, Service Spruce. Cut in 2012
12	6225 - Bog	32.0	No	
22	622 - Lowland Shrub	1026.7	No	Marsh/lowland brush complex. Some small pockets of timber and/or treed bog scattered throughout.
25	622 - Lowland Shrub	20.3	No	OPIC - FMD: Marsh/lowland brush complex.
28	622 - Lowland Shrub	0.5	No	OPIC - FMD: Area surrounding the east edge of Perch Lake
31	6224 - Treed Bog	6.3	No	OPIC - FMD: Treed bog/marsh
58	6229 - Mixed lowland shrub	2.3		11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 1 Residual BA white pine 31', red pine 3' 12/3/12 RFT Stand is now under contract 41-007-11-01 Jack and Tammys Softwood. 1/4/16- TCR 3/7/18-Little evidence of regen some red ample stump sprouts, will need more time to see if natural regen is successful.
59	6229 - Mixed lowland shrub	1.8		11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 1 Residual BA white pine 31', red pine 3' 12/3/12 RFT Stand is now under contract 41-007-11-01 Jack and Tammys Softwood. 1/4/16- TCR 3/7/18-Little evidence of regen some red ample stump sprouts, will need more time to see if natural regen is successful.
60	6229 - Mixed lowland shrub	1.9		11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 1 12/3/12 RFT Stand is now under contract 41-007-11-01 Jack and Tammys Softwood. 1/4/16 - TCR 3/7/18-Little evidence of regen some red ample stump sprouts, will need more time to see if natural regen is successful.
61	6229 - Mixed lowland shrub	2.4		11/1/11 Stand is now on proposal 7-11, Jack N Tammys Softwood, Part of Units 1 12/3/12 RFT Stand is now under contract 41-007-11-01 Jack and Tammys Softwood. 3/7/18-Little evidence of regen some red ample stump sprouts, will need more time to see if natural regen is successful.
75	6224 - Treed Bog	2.6		Young jack pine/black spruce regeneration. Density varies from overall stocking is acceptable and may still be filling in.
77	6239 - Mixed Emergent Wetland	20.1	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
80	6229 - Mixed lowland shrub	36.3		Proposal 46-10, Service Spruce. Cut in 2012. Seems to be seeding in naturally, hard to tell with the amount of snow cover.