

# **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12137 Entry Year: 2027 Acreage: 816 County: Iron

Management Area: Way Dam Complex

Stand Examiner: Tyler Ritchie

**Legal Description:** 

T43N,R32W, sec. 19, 21 & 30

#### **Identified Planning Goals:**

Most of this compartment is undivided interest except for a few parcels. We will manage what is our ownership and try to resolve or co-manage the rest. We will keep the hardwood diverse and moving toward log status and manage for pine where those stands are ready.

#### Soil and topography:

This compartment transitions from poor, dry and barrens pine soil to medium mesic soil. There are some low areas and some has been mined and can be steep and hilly.

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

This compartment is mostly undivided interest parcels with a few others mixed in. There seems to be many owners to the undivided interest which makes it extremely difficult to obtain permissions to proceed with management.

#### **Unique Natural Features:**

There are numerous drainages and Peanut Pond in this compartment. The snowmobile trail also goes through this compartment.

#### Archeological, Historical, and Cultural Features:

There is a historical site in this compartment. Also, there are some mine areas that have caving ground fences, Peanut Pit, and other sites in this compartment.

#### **Special Management Designations or Considerations:**

This is a Obligate Deer Wintering Area.

#### **Watershed and Fisheries Considerations:**

Briar Hill Creek flows through this compartment, eventually draining into the Paint River, Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

#### Wildlife Habitat Considerations:

#### Mineral Resource and Development Concerns and/or Restrictions

Compartment 137: Section 27, T46N-R37W, Iron County

Surface sediments consist of an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is no current economic use for these rocks. The abandoned Iron River iron mines are located eighteen miles to the southeast. Land near this Compartment has not been previously leased for metallic exploration. Gravel pits are located in the area and there should be some potential. There is no economic oil and gas production in the UP, currently.

Compartment 137: Section 27, T44N-R36W, Iron County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is no current economic use for these rocks. The abandoned Iron River iron mines are located eight miles to the southeast. Land near this Compartment has not been previously leased for metallic exploration. Gravel pits are located in the area and

there maybe some potential. There is no economic oil and gas production in the UP, currently.

Compartment 137: Section 22 & 34, T44N-R35W, Iron County

Surface sediments consist of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Badwater Greenstone and Michigamme Formation subcrops below the glacial drift. There is no current economic use for these rocks. The abandoned Iron River iron mines are located three miles to the south. Land near this Compartment was previously leased for metallic exploration. Gravel pits are located in the area and there should be potential. There is no economic oil and gas production in the UP, currently.

Compartment 137: Section 19 & 30, T43N-R32W, & Section 36, T43N-R33W, Iron County Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured till. The glacial drift thickness varies between 100 and 200 feet. The Precambrian Paint River Group and Riverton Iron Formation subcrop below the glacial drift. The Riverton was previously mined for iron in the Crystal Falls area. Gravel pits are located in the area and there should be some potential. There is no economic oil and gas production in the UP, currently.

#### **Vehicle Access:**

The vehicle access to most of these parcels is very good.

#### **Survey Needs:**

There are a lack of corners in this compartment and some will be needed to harvest what is prescribed.

#### **Recreational Facilities and Opportunities:**

Snowmobile trail UP16 runs through the compartment.

#### **Fire Protection:**

This area is has pine dominated forest types which are fire prone. The access to the area is very good for fire protection.

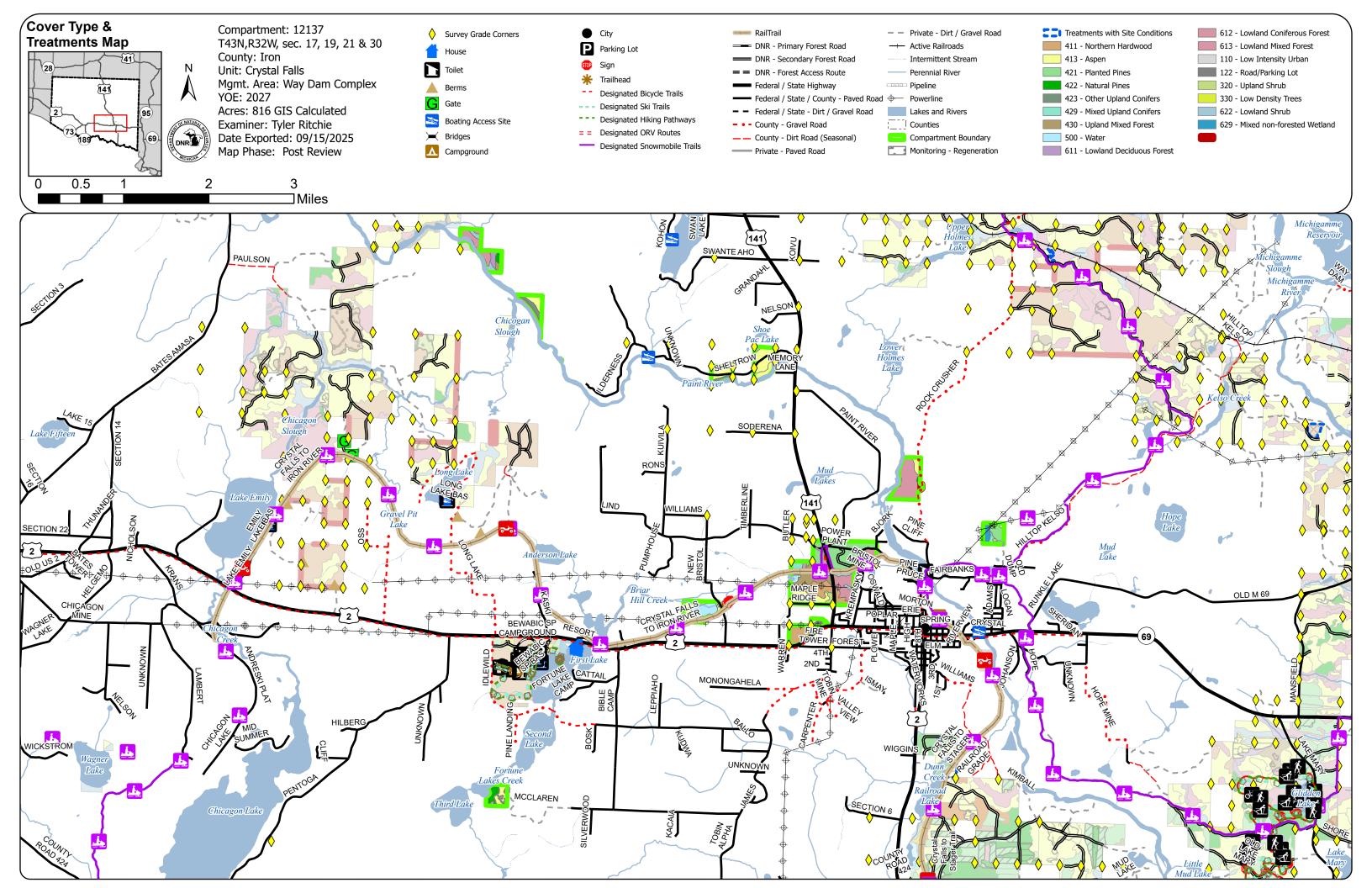
#### **Additional Compartment Information:**

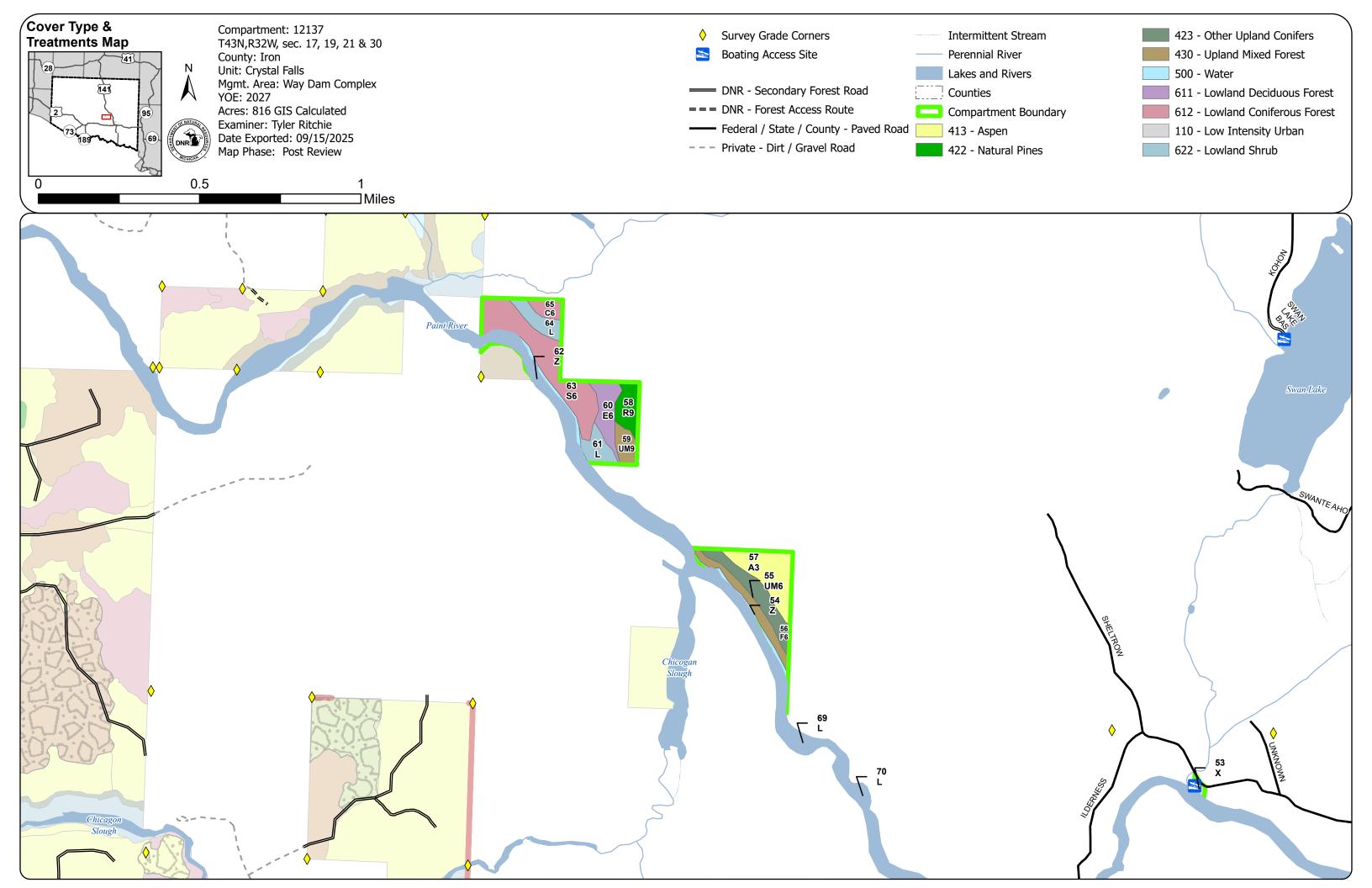
The following reports from the Inventory are attached:

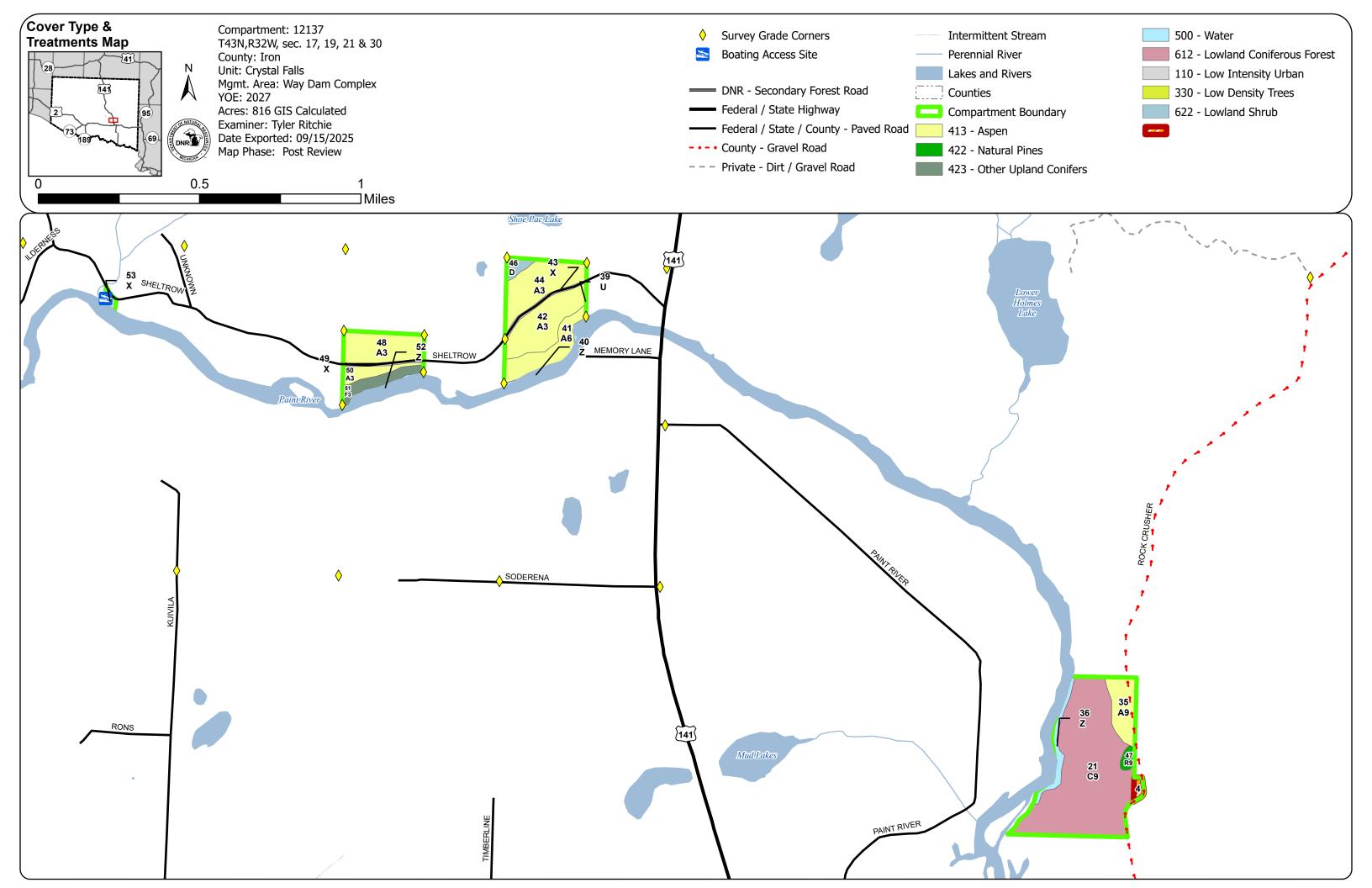
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

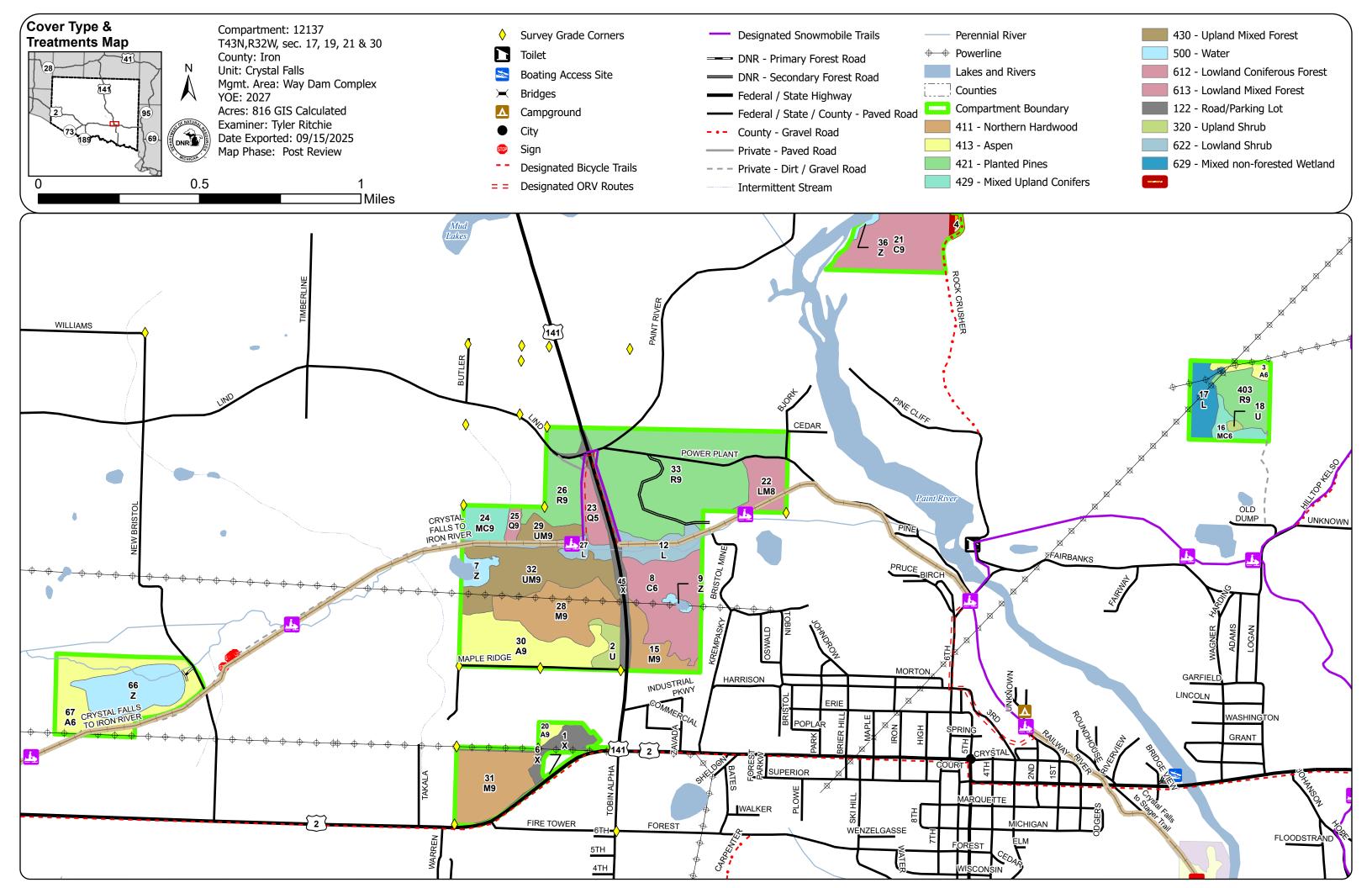
The following information is displayed, where pertinent, on the attached compartment maps:

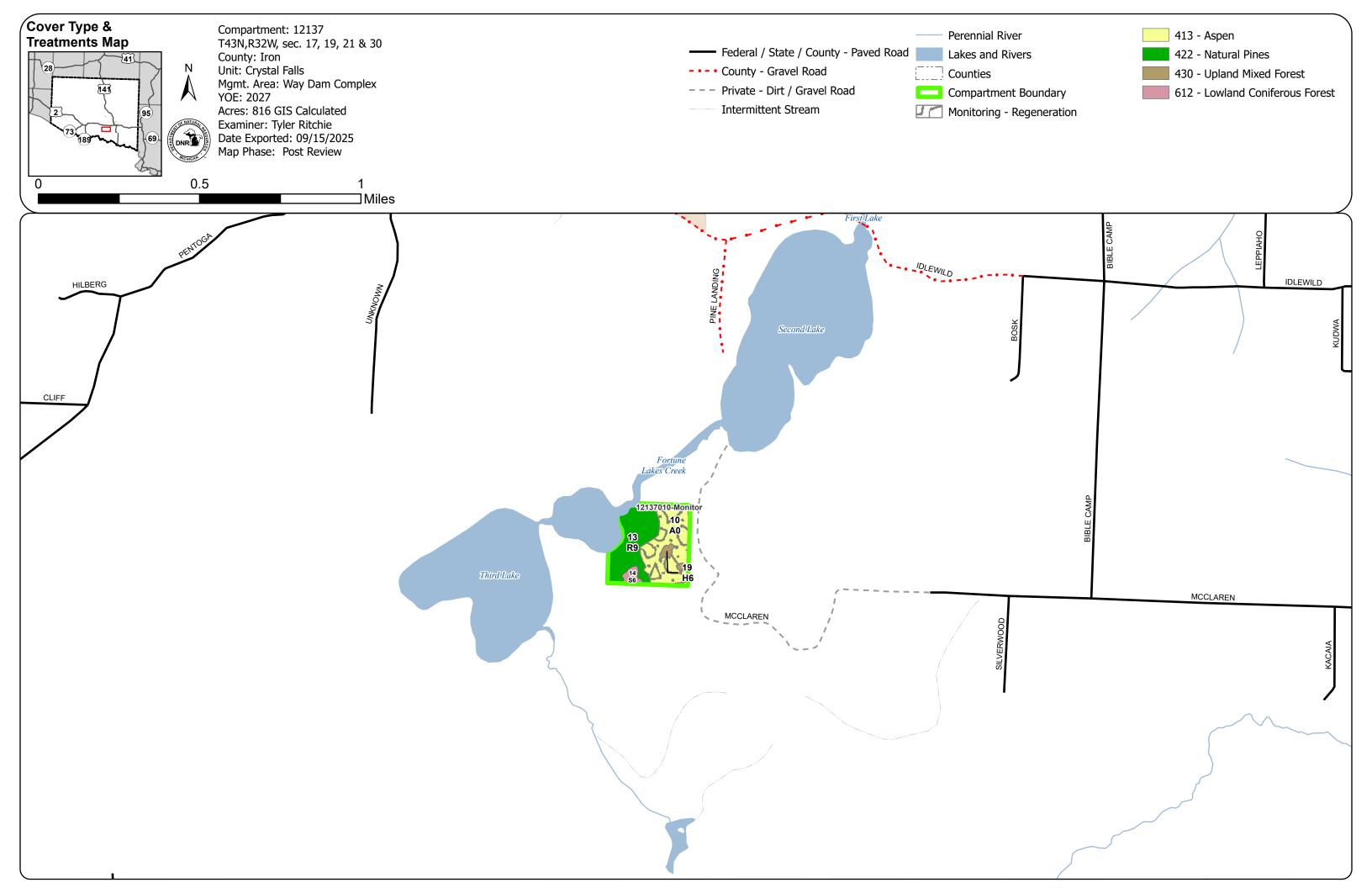
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

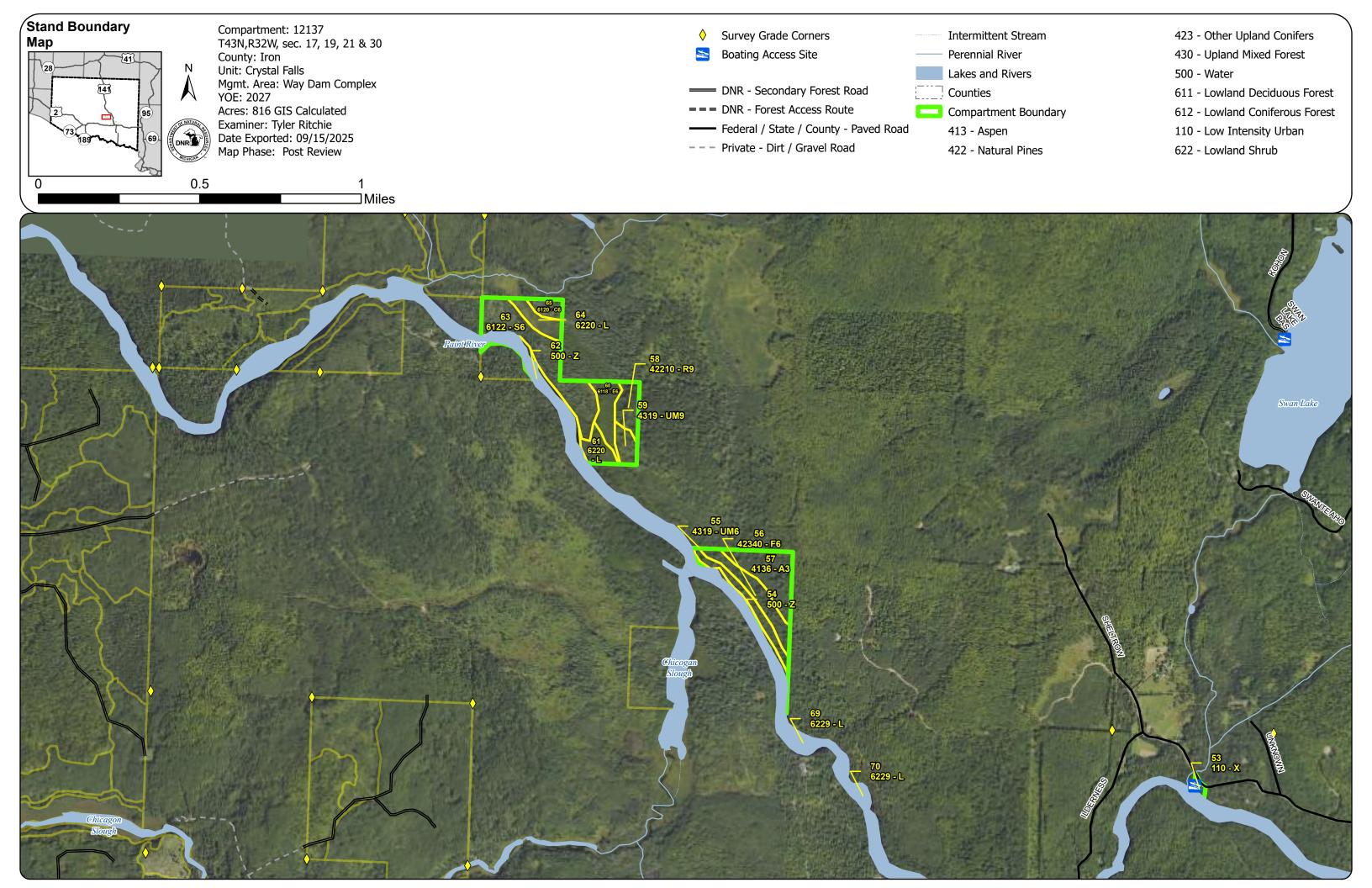


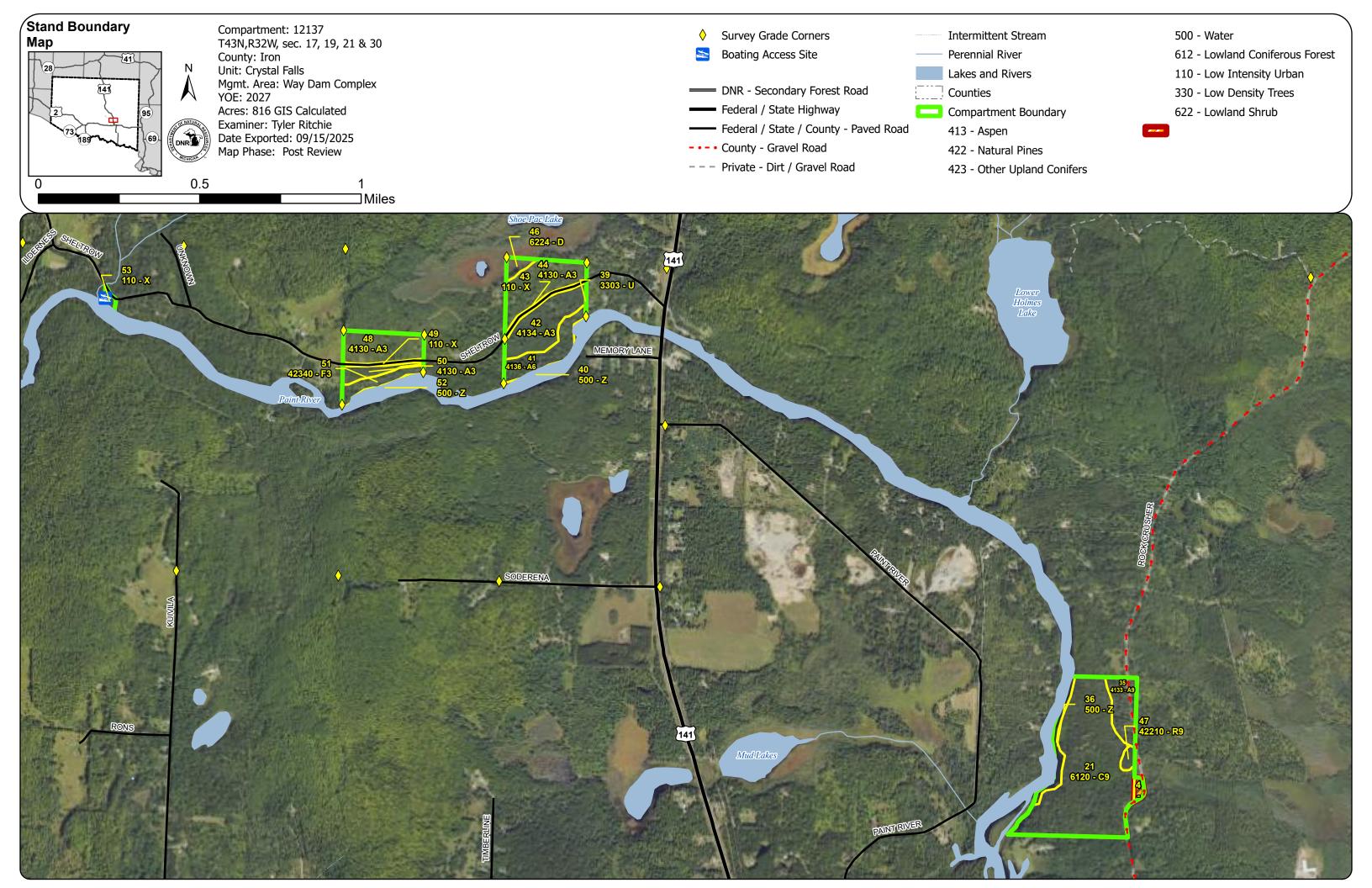


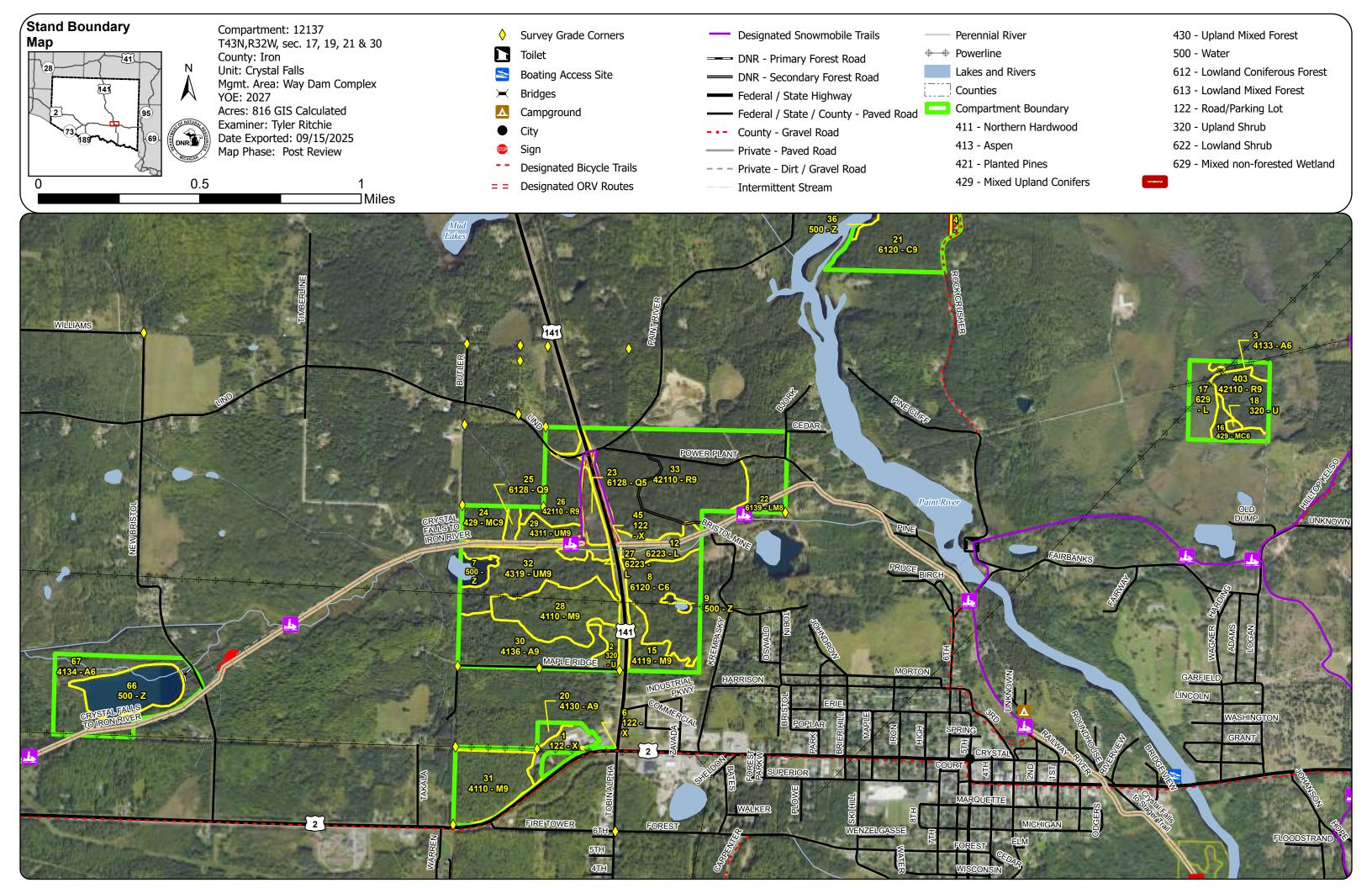


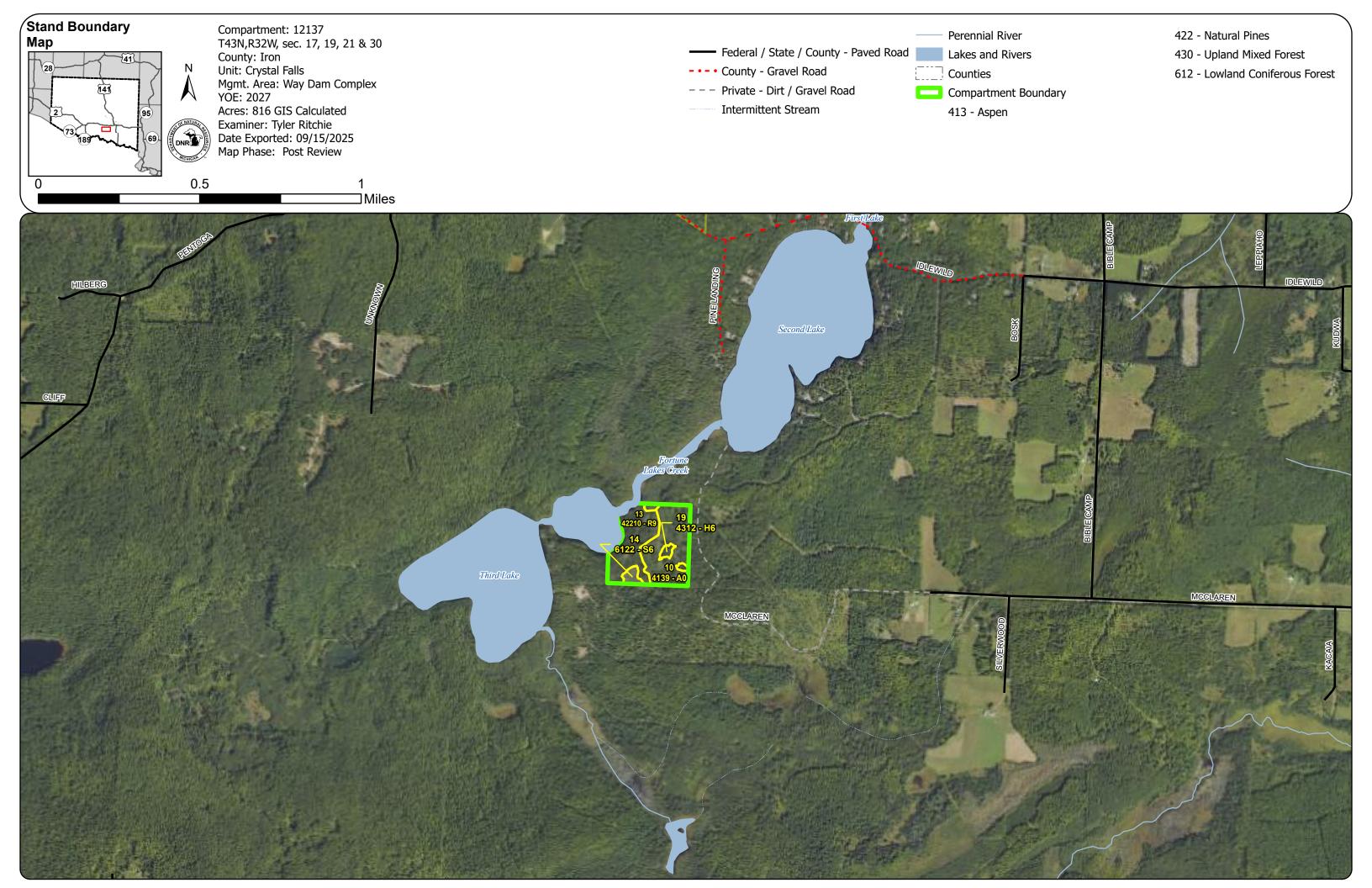


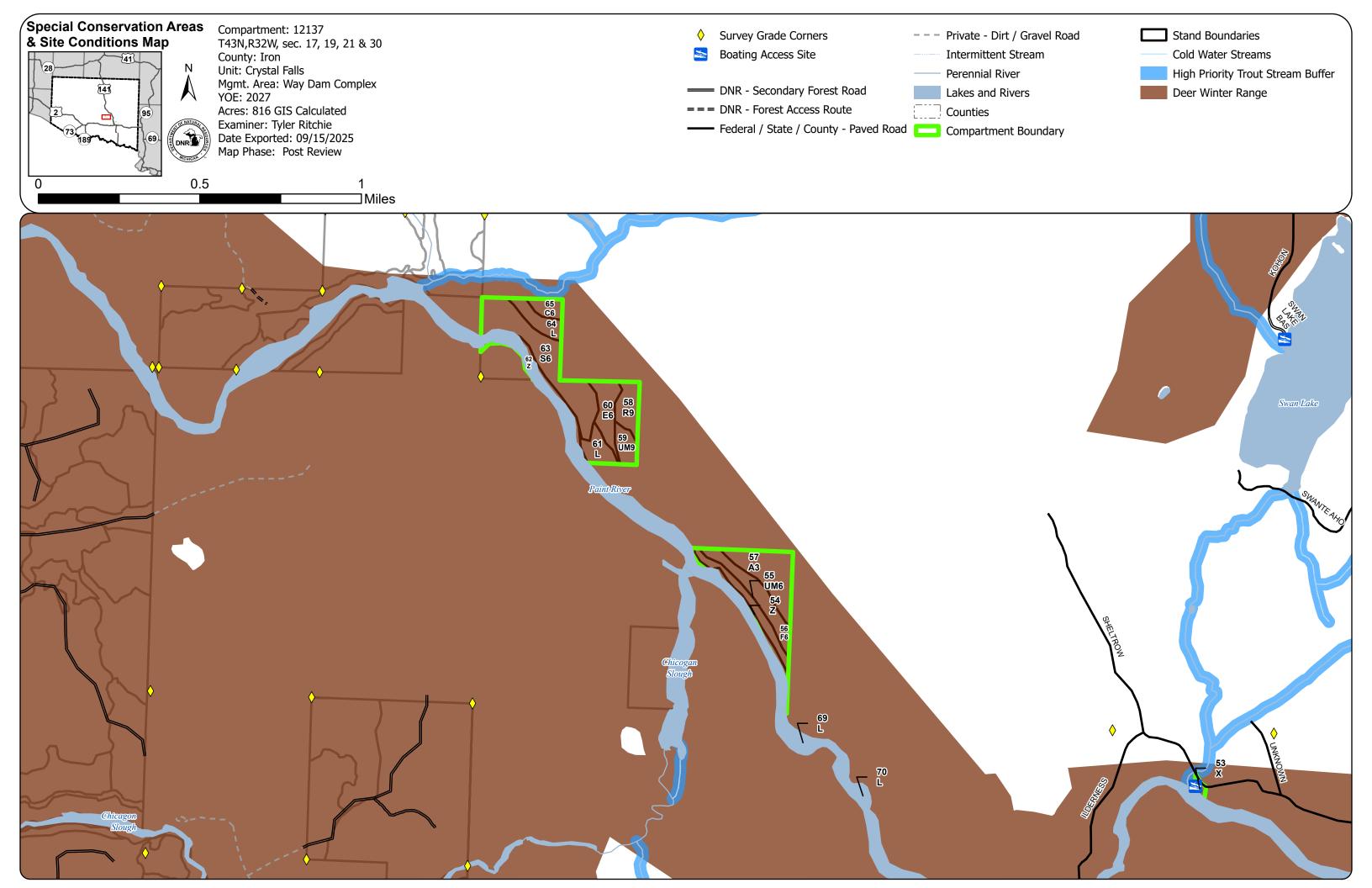


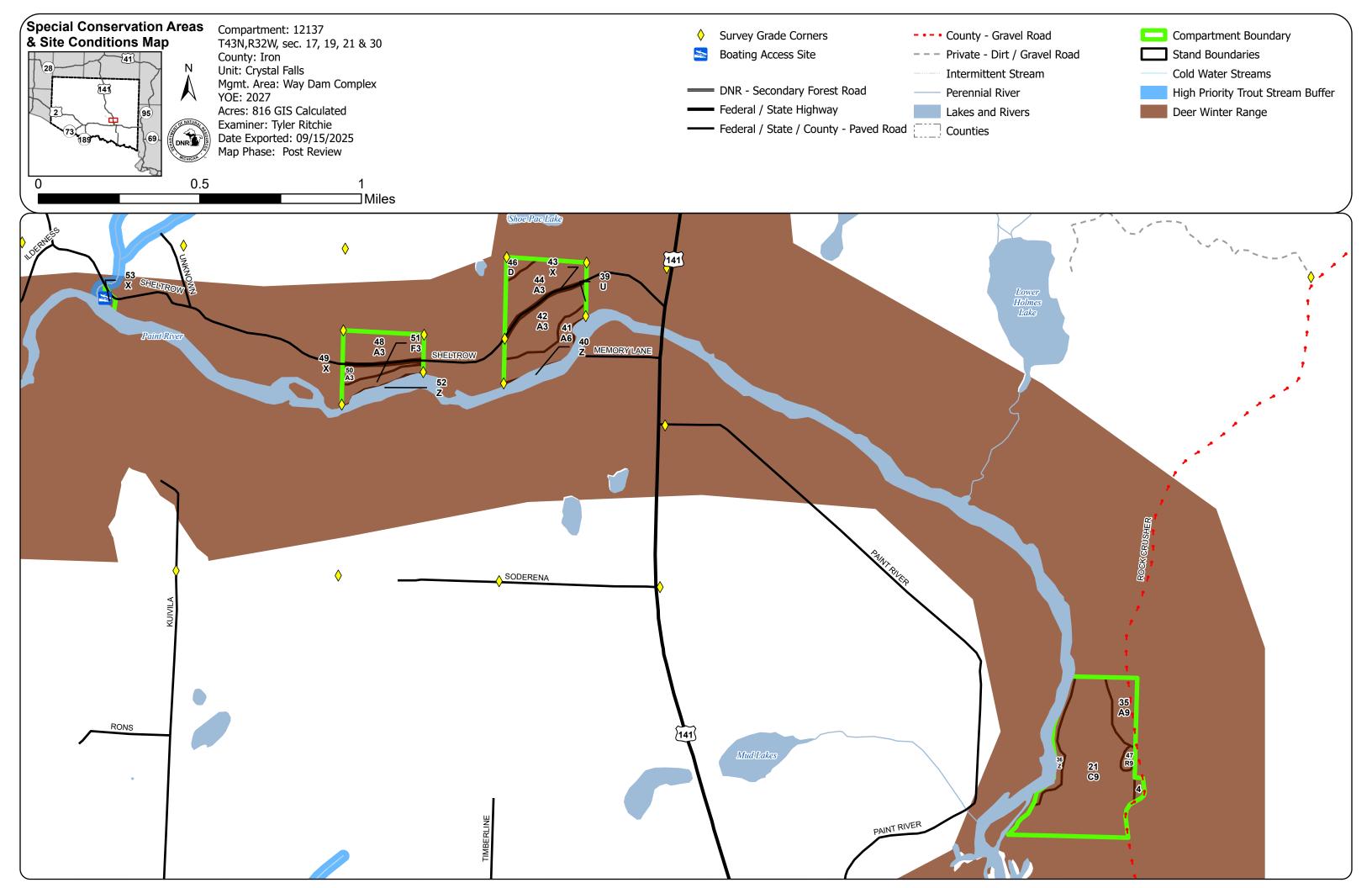


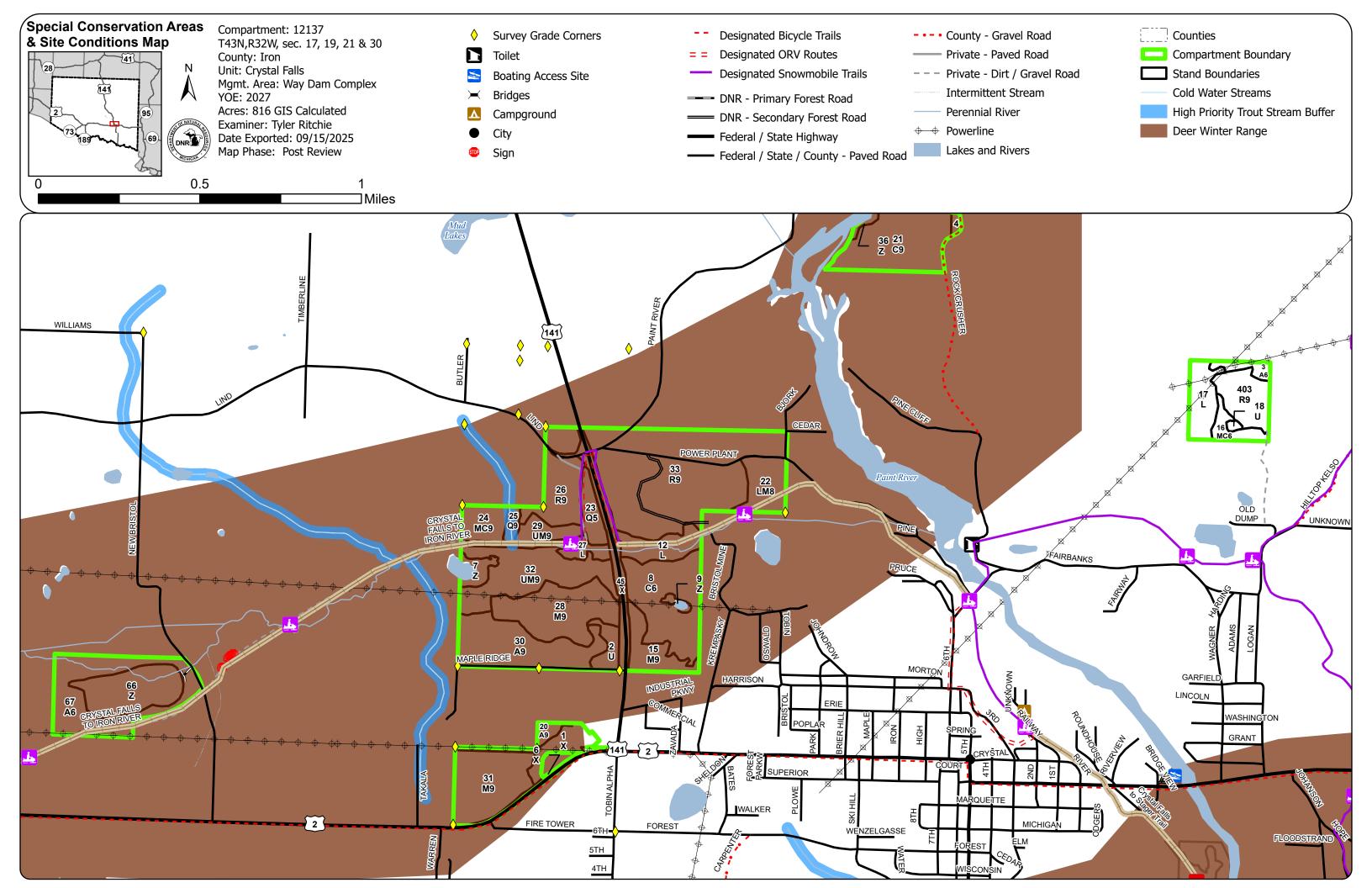


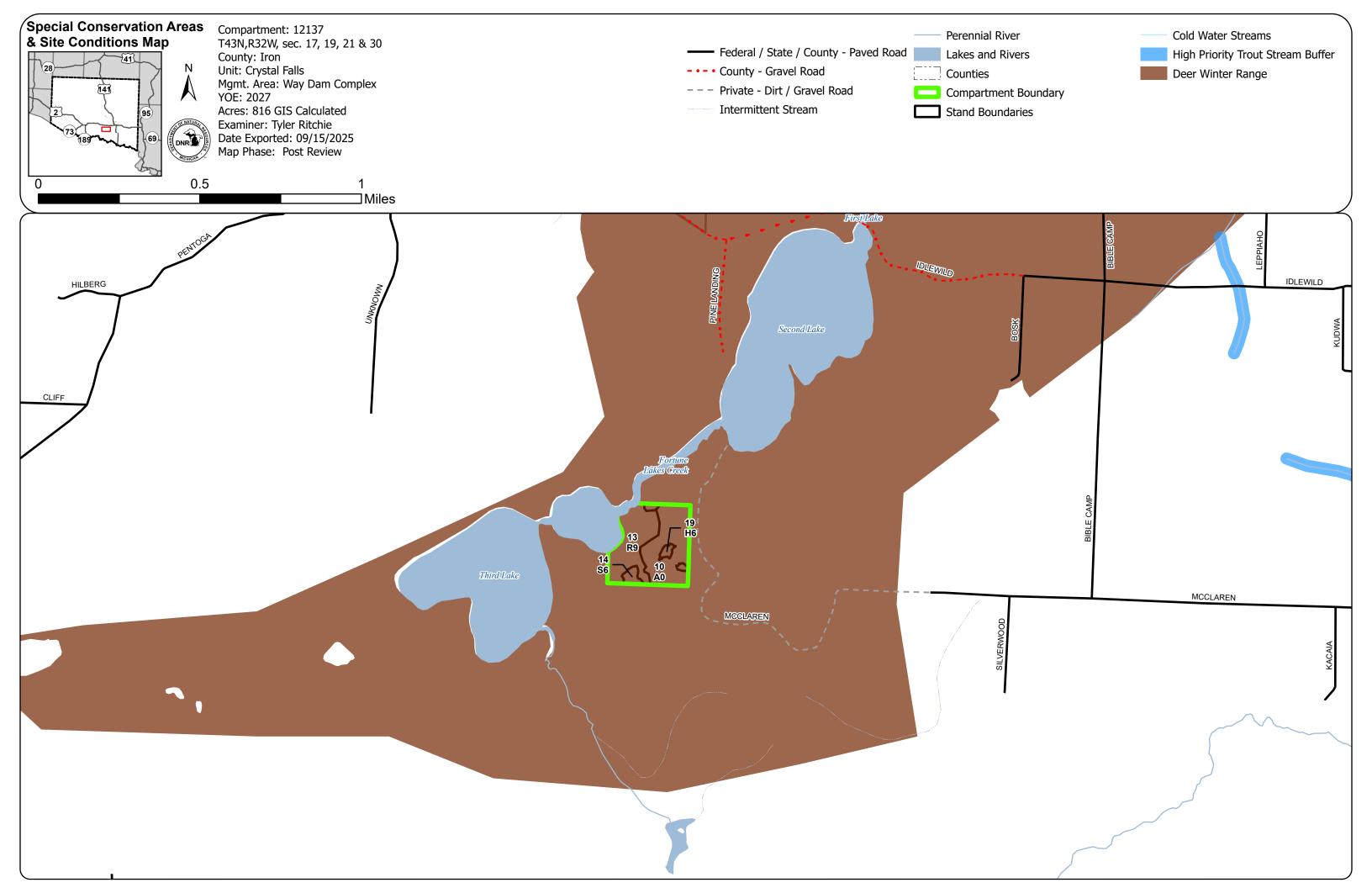












Tyler Ritchie: Examiner

Crystal Falls Mgt. Unit

Compartment 137 Year of Entry 2027



### Age Class

	* Age	KO KO	3 / 2	2 / E	A A	3 / 12	& R	3/8	\$ / R	R &	* &	S G	"a",	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		LEP A	J. J. J. G. S.	N. N
Aspen	18	0	32	37	0	0	11	82	0	4	0	0	0	0	0	0	0	0	184
Cedar	0	0	0	0	0	0	0	0	0	36	0	0	70	0	0	0	0	0	106
Hemlock	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lowland Conifers	0	0	0	0	0	0	0	0	8	0	3	0	0	0	0	0	0	0	11
Lowland Deciduous	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Lowland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	2	26	0	0	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	0	0	0	0	33	13	0	0	0	0	0	0	29	75
Red Pine	0	0	0	0	0	0	0	0	132	16	0	0	8	0	0	0	0	0	156
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Upland Mixed Forest	0	0	0	0	0	0	0	0	43	0	12	0	0	0	0	0	0	0	55
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Spruce/Fir	0	0	0	0	6	0	0	0	0	0	10	0	0	0	0	0	0	0	16
Urban	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Water	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
<b>Total</b>	168	0	32	37	6	0	11	91	213	91	64	0	78	0	0	0	0	29	818



# **Report 2 – Treatment Summary**

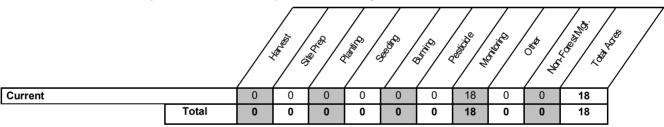
Crystal Falls Mgt. Unit Year of Entry: 2027

# **Acres of Harvest**

Compartment 137
Total Compartment Acres: 816

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

## **Proposed and Next Step Treatments by Method**



Crystal Falls Mgt. Unit

Report 3 -- Treatments

Compartment: 12137

Year of Entry: 2027

Treatment Acres Stand Size Stand BA Treatment Treatment Cover Type Age Habitat

Type

Method

Objective

Structure

Cut

Name

CoverType

Density

Age

Range

s

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n

d

10	12137010- Monitor	17.8 4139 - Aspen, Mixed Deciduous	0	1	Monitoring	Monitoring - Regeneration	4221 - Natural Red Pine	Planting Record	No
Preso Spec	<u>ription</u> s:								
Next :	Step ments:								
Acce <sub>l</sub> Rege		ine, fir and aspen.							
Other Comr		to Treat = 100%							
Site C	Condition:								
Propo	sed Start Date:	10/11/2019							

Total Treatment Acreage Proposed: 17.8

Crystal Falls Mgt. Unit

Tyler Ritchie: Examiner

Compartment: 137
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#### **Availability for Management** Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available 3E Acres 2A 2H Aspen Cedar Hemlock **Low-Density Trees Lowland Conifers** Lowland Deciduous Lowland Mixed Forest Lowland Shrub Lowland Spruce/Fir Northern Hardwood Red Pine Treed Bog **Upland Conifers Upland Mixed Forest Upland Shrub** Upland Spruce/Fir Urban Water Total Forested Acres 45% 55% 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.

1 Unavailable 2A: Adjacent landowner 15 Unspecified Unspecified Unspecified Unspecified Unspecified Comments:	denied access	Site No.		<b>Dominant Site Condition</b>	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
Comments:	Comments:	1	Unavailable		15	Unspecified	Unspecified	Unspecified	Unspecified
		C	Comments:						

Crystal Falls Mgt. Unit
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3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	2A: Adjacent landowner denied access	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	5F: Evaluated for Forest Health Considerations	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified
	Comments:						
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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9	Unavailable	2A: Adjacent landowner denied access	16	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
10	Unavailable	2A: Adjacent landowner denied access	7	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	29	Unspecified	Unspecified	Unspecified	Unspecified
r		sues: no room for decking and h trail is throughout the stand	nauling (	due to DNR parking lot, lov	พ overhead powerlines, aเ	nd sewer line. Any spur to l	JS2 is dangerously on a
13	Unavailable	2A: Adjacent landowner denied access	6	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
14	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	23	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
15	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	87	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						

**Crystal Falls Mgt. Unit** 

Compartment: 137 Year of Entry: 2027 Tyler Ritchie: Examiner



16	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	18	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
17	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	10	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
18	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
19	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	7	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
20	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	20	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
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Crystal Falls Mgt. Unit Tyler Ritchie: Examiner

Compartment: 137
Year of Entry: 2027



21 Unspecified Unspecified Unspecified Unspecified Unavailable 3E: Easement/lease, non-57 military (e.g. Consumers Power red pine, etc.) Comments: Unspecified Unspecified Unspecified 22 3E: Easement/lease, non-Unspecified Unavailable 25 military (e.g. Consumers Power red pine, etc.) Comments: Unspecified Unspecified Unspecified Unspecified 23 Unavailable 3E: Easement/lease, non-6 military (e.g. Consumers Power red pine, etc.) **Comments:** 3E: Easement/lease, non-Unspecified Unspecified Unspecified Unspecified 24 Unavailable 13 military (e.g. Consumers Power red pine, etc.) Comments: 25 3E: Easement/lease, non-Unspecified Unspecified Unspecified Unspecified Unavailable 36 military (e.g. Consumers Power red pine, etc.) Comments:

Crystal Falls Mgt. Unit
Tyler Ritchie: Examiner



26	Unavailable	3E: Easement/lease, non- military (e.g. Consumers Power red pine, etc.)	8	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						

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
Comments				



Stand	Level 4 Cover Type Size Density		nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments	MICHIGAN		
1	122 - Road	d/Parking L	ot	Nor	ne	10.8			No	)	DNR office and garages and parking areas	
2	320 - Up	land Shrub		Nor	ne	5.8			No	)		
						Sub-Ca	nopy Species	Density	Avg. Height	Size		
					-		hite Pine	Low	5 - 10 feet	5 - 10 feet		
					•	Ві	uckthorn	High	5 - 10 feet	5 - 10 feet		
						Wh	ite Spruce	Low	10 - 20 feet	10 - 20 feet		
						Qual	king Aspen	Medium	10 - 20 feet	10 - 20 feet		
						В	Barberry	Low	5 - 10 feet	5 - 10 feet		
						Honey	suckle (spp.)	Low	5 - 10 feet	5 - 10 feet		
							ple (spp.)	Low	10 - 20 feet	10 - 20 feet		
							ed Maple	Low	5 - 10 feet	5 - 10 feet		
							ag Alder	Low	5 - 10 feet	5 - 10 feet		
	4133 - Aspe	n Miyod D	lino I	Poletimb	or Wall	4.0	86	81-110	N/A			
3						4.0	00	01-110	14/2	`		
	Canopy Species  Balsam Fir	% Cover	Size Class	10	Age							
	Red Pine	15		10								
	White Pine	5		10								
	Quaking Aspen	55		10	86							
	White Spruce	5		10	00							
	hern White Cedar	5		10								
	Paper Birch	5	Sapling	6								
		,	9									
4						1.2						
6	122 - Road	d/Parking L	ot	Nor	ne	3.1			No	)		
7	500 -	· Water		Nor	ne	5.4			No	)		
8	6120 - Lov	wland Ceda	ar (	Poletimb	er Well	36.1	85	111-140	N/A	4		
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
;	Sugar Maple	5	Seedling	6		Ві	uckthorn	Medium	5 - 10 feet	5 - 10 feet		
	Red Maple	5	Seedling	6		<del>.</del>						
	Paper Birch	5	Seedling	8								
В	ligtooth Aspen	5		12	85							
Q	uaking Aspen	5		10	85							
	Black Cherry	5	Seedling	8								
North	hern White Cedar	70	Seedling	8	85							



Stand	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments	MICHIGAN S
9	500 -	- Water		Nor	ne	1.5			No			
10	4139 - Aspen,	Mixed Deci	iduous	Unspe	cifed	17.8	1				No legal access.	
12	6223 - Inundate	ed Shrub S	wamp	Nor	ne	12.4			No		Brier Hill Creek and surrounding wetland	
						Sub-Ca	nopy Species	s Density	Avg. Height	Size		
							ımarack	Low	5 - 10 feet	5 - 10 feet		
						Northerr	n White Cedar	Low	5 - 10 feet	5 - 10 feet		
13	42210 - Nat	tural Red P	ine	Sawtimb	er Well	15.6	86	111-140	N/A		No legal access.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size		
	Red Pine	100		10	86		lsam Fir	High	Variable	Variable		
14	6122 - BI	lack Spruce	•	Poletimb	er Well	2.1	86	51-80	N/A		No legal access	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size		
	Black Spruce	100	Sapling	6	86	Blad	ck Spruce	Medium	Variable	Variable		
15	4119 - Mixed No	orthern Har	dwoods	Sawtimb	er Well	12.7	95	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size		
	Balsam Fir	5		10		Iro	onwood	Low	5 - 10 feet	5 - 10 feet		
	Basswood	10		10		Sug	jar Maple	Low	5 - 10 feet	5 - 10 feet		
	Yellow Birch	5		10								
	Sugar Maple	50		12	95							
	Red Maple	10		10								
	Paper Birch	5		10								
	White Spruce	5		10								
No	orthern White Cedar	5		10								
	Hemlock	5		10								
16	429 - Mixed U		Size Class	Poletimb	er Well Age	6.1 Sub-Ca	71 nopy Species	81-110 <b>Density</b>	N/A Avg. Height	Size		
	Red Pine	50	0120 01400	10	71		ck Spruce	Low	< 5 feet	< 5 feet		
	Black Cherry	5	Seedling	8						· · · · · · · · · · · · · · · · · · ·	1	
	Black Spruce	10	Seedling	8								
	Quaking Aspen	25		10								
	Sugar Maple	5		8								
	Paper Birch	5	Seedling	8								
17	629 - Mixed non	n-forested V	Vetland	Nor	ne .	12.5			No			
						Sub-Ca	nopy Species	Density	Avg. Height	Size		
							ımarack	Low	5 - 10 feet	5 - 10 feet		



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age I	BA Range	Managed Sit	te	General Comments
18	320 - Up	land Shrub		Nor	ne	0.8			No		
19	4312 - Hemlock	, Mixed Dec	ciduous	Poletimb	er Wel	l 1.2	66	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	5		6		Ва	alsam Fir	Medium	Variable	Variable	
	Red Pine	5		10					<u>'</u>		
(	Quaking Aspen	5		10	66						
	Red Maple	10		6	66						
	Paper Birch	10		8							
	Red Oak	20		8	66						
	Hemlock	45		8	66						
20	4130	- Aspen		Sawtimb	er Wel	1 2.7	61	111-140	N/A		
	Canopy Species	% Cover		DBH	Age		nopy Species	Density	Avg. Height	Size	
	White Spruce	10	Seedling	8		Suç	gar Maple	Medium	>20 feet	>20 feet	
	Sugar Maple	10		10							
(	Quaking Aspen	80		12	61						
21		wland Ceda		Sawtimb			115	201+	N/A		T
	Canopy Species		Size Class		Age		nopy Species		Avg. Height	Size	
	Black Ash	10	Seedling	8		Norther	n White Cedar	Low	< 5 feet	< 5 feet	
	Red Pine	3	0 11:	18							
	Paper Birch	8	Seedling								
	White Pine	2	0 11:	18							
	Yellow Birch	2	Seedling	8							
	Quaking Aspen	20	0 115	10							
	Black Spruce thern White Cedar	53	Seedling	8	115						
22	6139 - Mixed		Seedling prest S	Sawtimber		ım 14.0	71	81-110	N/A		OPIC - FMD: This land is undivided interest and the Bristol mine is to the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	south. this area of the stand has some smaller diameter trees.
	White Spruce	5		10	- 3-		hite Pine	Medium	10 - 20 feet	10 - 20 feet	
	Black Spruce	20	Seedling						-		
	Red Maple	5	Seedling	8							
	Black Cherry	10	Pole	4							
	Quaking Aspen	40		10	71						
	Balsam Fir	10		10							
	Tamarack	10	Seedling	8							

Compartment: 137 Year of Entry: 2027 DNR MICHIGAN

Stand	Level 4 Cover Type			Size Density		Acres Stand Age BA Range			Managed S	ite	General Comments	MICHIGAN .
23	6128 - Lowland Coniferous, Mixed Deciduous		, Mixed P	oletimbe	r Medium	7.5	75	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age							
	Red Pine	10		18								
	Tamarack	45		10	75							
	Red Maple	15	Seedling	8								
	Paper Birch	10		10								
No	orthern White Cedar	20	Sapling	6								
24	429 - Mixed l	Jpland Cor	nifers	Sawtimb	er Well	9.6	75	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size		
	Red Pine	40		10	75	Ва	alsam Fir	Medium	5 - 10 feet	5 - 10 feet		
	Balsam Fir	10		10		F	Red Oak	Low	5 - 10 feet	5 - 10 feet		
	Red Maple	10	Seedling	8		Wh	ite Spruce	Low	5 - 10 feet	5 - 10 feet		
	Paper Birch	10	Seedling	8				1			-	
	Quaking Aspen	20		10								
	White Pine	10		12	81							
	Canopy Species	iduous % Cover	Size Class		I Age							
	Black Ash	5	Sapling	6								
	Tamarack	10		10								
	White Pine	10		16								
	Quaking Aspen	15		8								
	Red Maple	15	Sapling	6								
	White Spruce	5		8								
No	orthern White Cedar	35		8	90							
	Hemlock	5		14								
26	42110 - Pla			Sawtimb		22.9	75	111-140	N/A			
	Canopy Species		Size Class		I Age							
	Red Pine	85		10	75							
	White Pine	5		10								
	Jack Pine	3	0 - 111	10								
	Red Maple	5	Seedling	8								
	Paper Birch	2	Seedling	8								
27	6223 - Inundate			No		8.7			No		This is the wetland along Brier Hill Creek	
	Canopy Species		Size Class		l Age		nopy Species		Avg. Height	Size		
	Tamarack	50	Log	4		Т	ag Alder	Medium	5 - 10 feet	5 - 10 feet		
	Black Spruce	50	Log	4	30							

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Stand	l Level 4 Co	over Type		Size Density		Acres	Stand Age BA	A Range	Managed S	ite	General Comments
28	4110 - Sugar N	1aple Asso	ciation	Sawtimber Well		l 32.7	85	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Cherry	1		10		Sug	ar Maple	Low	5 - 10 feet	5 - 10 feet	
	American Elm	1		12							
	Hemlock	5		14							
	Basswood	5		14							
	White Ash	15		14							
	Sugar Maple	60		10	85						
	Paper Birch	2		10							
	Green Ash	6		14							
	Yellow Birch	5		10							
29	4311 - Pin	e, Aspen M	lix	Sawtimb	er Wel	l 7.1	75 1	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	30		10		Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	Red Maple	15	Seedling	8							-
	Red Pine	10		10	75						
No	orthern White Cedar	5	Sapling	6							
	Quaking Aspen	40		10	75						
30	4136 - Aspen	, Mixed Co	nifer	Sawtimb	er Wel	I 34.3	61	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Yellow Birch	5	Seedling	8		Арр	ole (spp.)	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	40		12	61	Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10		10		Sug	ar Maple	Medium	5 - 10 feet	5 - 10 feet	
	Sugar Maple	5	Seedling	6		Re	d Maple	Medium	< 5 feet	< 5 feet	
	Red Maple	10	Sapling	6		American I	Fly Honeysuckle	High	5 - 10 feet	5 - 10 feet	
	Paper Birch	10		10		1		,			4
	White Spruce	5		12							
No	orthern White Cedar	15		10							
31	4110 - Sugar N	laple Asso	ciation	Sawtimb	er Wel	l 29.2	111 1	111-140	N/A		This stand has much regeneration and the basal area averages 110 but
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	could have a light thinning because of all the large size logs in the stand.  There will be some damage of the understory because it is so
	Basswood	2		14		Sug	ar Maple	Medium	10 - 20 feet	10 - 20 feet	pronounced in the stand
	Sugar Maple	66		14	111	,		1			-
	Sugar Maple	30	Seedling	8	51						

Black Cherry

2

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Stan	d Level 4 C	over Type		Size Density	Acres	Stand Age	BA Range	Managed Sit	te		General Comments	MICHIGAN
32	4319 - Mixed	d Upland Fo	rest	Sawtimber Well	35.8	71	81-110	N/A				
	Canopy Species	% Cover	Size Class	DBH Age								
	Quaking Aspen	50		14 71								
	Sugar Maple	5		12								
	Balsam Fir	10	Sapling	6								
	Black Spruce	10	Sapling	6								
N	orthern White Cedar	25		10								
33	42110 - Pla	nted Red P	ine	Sawtimber Well	93.2	71	111-140	N/A				
	Canopy Species	% Cover	Size Class	DBH Age								
	Red Pine	95		14 71								
	Quaking Aspen	2		10								
	Paper Birch	3		10								
35	4133 - Aspe	en, Mixed P	ine	Sawtimber Well	9.8	66	141-170	N/A				
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size			
	Balsam Fir	10	Sapling	6	Norther	n White Ceda	r Low	< 5 feet	< 5 feet			
	Red Pine	18		18	Ва	alsam Fir	Low	< 5 feet	< 5 feet			
	Red Maple	3		8			1			_		
	White Pine	2		14								
	Quaking Aspen	60		10 66								
	Black Spruce	2	Seedling	6								
N	orthern White Cedar	5		10								
36	500 -	- Water		None	5.6			No		The Paint River		
39	3303 - Mixed L	ow Density	Trees	None	0.5			No				
40	500 -	- Water		None	4.0			No		The Paint River		
41	4136 - Asper	n, Mixed Co	nifer	Poletimber Well	11.4	51	81-110	N/A				
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size			
	Quaking Aspen	65		8 51	Ва	alsam Fir	Low	< 5 feet	< 5 feet			
	White Pine	15		16	Wh	ite Spruce	Low	< 5 feet	< 5 feet			
	White Spruce	10		10	Bla	ck Spruce	Low	< 5 feet	< 5 feet			
	Hemlock	5		10			*			_		
	Balsam Fir	5	Sapling	6								

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Stand	d Level 4 Co	Level 4 Cover Type			nsity	Acres	Stand Age B	A Range	Managed S	ite		MICHIGAN C	
42	4134 - Aspe	en, Spruce/	Fir	Sapling	Well	17.7	26	1-50	N/A				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	1		
	Quaking Aspen	70		2	26	Ва	alsam Fir	Low	< 5 feet	< 5 feet			
	White Pine	5		16							_		
	Balsam Fir	10		2									
	White Spruce	10		2									
	Hemlock	5		8									
43	110 - Low li	ntensity Urb	oan	Non	е	2.1			No		Sheltrow Rd		
44	4130	- Aspen		Sapling	Well	17.0	16	1-50	N/A				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	1		
	Hemlock	2		12		R	led Pine	Low	< 5 feet	< 5 feet			
	Red Pine	8		16		Ва	alsam Fir	Low	5 - 10 feet	5 - 10 feet			
	White Pine	5		18		W	hite Pine	Low	< 5 feet	< 5 feet			
	Quaking Aspen	85	Log	1	16			-	1		1		
45	122 - Road	d/Parking L	ot	Non	е	15.7			No		Hwy 141		
46	6224 - 7	Treed Bog		Non	e	2.5			No				
47	42210 - Nat	tural Red Pi	ine	Sawtimbe	er Well	1.7	111	171-200	N/A				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	7		
	Red Pine	100			111		alsam Fir	Low	< 5 feet	< 5 feet			
						Norther	n White Cedar	High	>20 feet	>20 feet			
48	4130	- Aspen		Sapling	Well	14.6	16	1-50	N/A				
	Canopy Species		Size Class	DBH	Age								
	Balsam Fir	2	Log	2									
	White Pine	8		18	81								
	Quaking Aspen	90	Log	1	16								
49	110 - Low li	ntensity Urb	oan	Non	е	1.5			No				
50		- Aspen		Sapling		4.4	26	1-50	N/A				
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Species	Density	Avg. Height	Size			
	White Spruce	5	Log	4		W	hite Pine	Low	5 - 10 feet	5 - 10 feet			
	Quaking Aspen	90	Log	3	26	Ва	alsam Fir	Low	5 - 10 feet	5 - 10 feet			
	Balsam Fir	5	Log	2							=		



Stand	Level 4 C	ver Type		Size Density		Acres	Stand Age BA Range		Managed S	ite	General Comments	MICHIGAN .
51	42340 - Upl	and Spruce	/Fir	Sapling	y Well	6.0	36	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Balsam Fir	10	Log	4		Ва	ılsam Fir	High	5 - 10 feet	5 - 10 feet		
	Quaking Aspen	35		8							_	
	White Spruce	50	Seedling	6	36							
	Hemlock	3		10								
	White Pine	2		16								
52	500	- Water		Noi	ne	2.9			No		The Paint river	
53	110 - Low Intensity Urban Nor				ne	1.1			No		Access to the Paint river. Ericksons landing	
54	500	- Water		No	ne	5.6			No		The Paint river	
55	4319 - Mixed	l Upland Fo	rest	Poletimb	er Wel	I 7.1	95	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Quaking Aspen	36		10	95	Ва	ılsam Fir	Low	< 5 feet	< 5 feet		
	White Spruce	25		10	95	Whi	te Spruce	Low	< 5 feet	< 5 feet		
	Red Maple	2	Seedling	6	95	Blad	ck Spruce	Low	< 5 feet	< 5 feet		
	Paper Birch	10		10	95							
	Red Pine	2		14	115							
	Balsam Fir	20		10	95							
	White Pine	5		14	115							
56	42340 - Upl	and Spruce	/Fir	Poletimb	er Wel	I 10.3	95	81-110	N/A		This is the buffer for the Paint River	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	White Spruce	20		10	95	Ва	ılsam Fir	Low	< 5 feet	< 5 feet		
	Black Spruce	20		8			te Spruce	Low	< 5 feet	< 5 feet		
	Quaking Aspen	20		10	95	Blad	ck Spruce	Low	< 5 feet	< 5 feet		
	Balsam Fir	20		10								
	Red Maple	10	Seedling	6								
	Paper Birch	10		10								



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed	Site	General Comments	MICHIGAN
57	4136 - Aspen	, Mixed Co	nifer	Sapling	Well	14.6	25	Unspecifie	d N	/A		
	Canopy Species	% Cover	Size Class	DBH	Age							
	White Pine	9		14	115							
	Red Pine	2		14	115							
	Red Oak	2		10	100							
	White Spruce	10	Log	1	25							
	Balsam Fir	2	Log	1	25							
	Quaking Aspen	75	Log	1	25							
58	42210 - Nat	ural Red Pi	ine	Sawtimb	er Well	6.5	115	111-140	N	/A		
	Canopy Species	% Cover	Size Class		Age		nopy Specie	es Densi	ty Avg. Height	Size		
	White Pine	5		14	115		ılsam Fir	Low	<pre>&lt; 5 feet</pre>	< 5 feet		
	Red Pine	87		14	115	Whi	te Spruce	Low	< 5 feet	< 5 feet		
	Black Spruce	3	Seedling	6	65	Blad	ck Spruce	Low	< 5 feet	< 5 feet		
	Paper Birch	3	Seedling	8	65							
	Quaking Aspen	2		10	85							
59	4319 - Mixed	Upland Fo	rest	Sawtimb	er Well	4.4	95	51-80	N	/A	This could be cut but would not be worth the long distance in	and the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Densi	ty Avg. Height	Size	trouble going through so much private land.	
	Balsam Fir	10		10		Ва	ılsam Fir	Low	< 5 feet	< 5 feet		
	White Pine	10		12		Whi	te Spruce	Low	< 5 feet	< 5 feet		
	Paper Birch	10		10		Blad	ck Spruce	Low	< 5 feet	< 5 feet		
	White Spruce	20		10								
	Black Spruce	10		8								
	Quaking Aspen	40		12	95							
60	6118 - Lowland De	eciduous wi	ith Cedar	Poletimb	er Well	7.7	65	81-110	N	/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Densi	ty Avg. Height	Size		
	Black Ash	65	Seedling	6	65	Ва	ılsam Fir	Low	< 5 feet	< 5 feet		
	Red Maple	2	Seedling	6	65	Blad	ck Spruce	Low	< 5 feet	< 5 feet		
No	orthern White Cedar	20	Seedling	8	95			,	,		<del>-</del>	
	Balsam Fir	3	Seedling	8	65							
	Tamarack	10	Seedling	8	65							
61	6220 - Al	der/Willow		Nor	ne	5.2			N	lo		



Stand	d Level 4 C	4 Cover Type		Size Density		s Stand Age E	Managed S	ite	General Comments	Michigan .	
63	6122 - Bl	•	Poletimber W	ell 25.	5 95	81-110	N/A		Buffer along the Paint.		
	Canopy Species	% Cover	Size Class		Sub-	Canopy Species	Density	Avg. Height	Size		
	Black Spruce	50	Seedling	8 95		Balsam Fir	Low	< 5 feet	< 5 feet		
	Black Ash	20	Seedling	6	Е	lack Spruce	Low	< 5 feet	< 5 feet		
	Balsam Poplar	5		10							
	White Pine	5		10							
	Paper Birch	5	Seedling	8							
	Balsam Fir	15	Seedling	8							
64	6220 - A	lder/Willow		None	5.4			No			
65	6120 - Lo	wland Ceda	ar	Poletimber W	ell 3.4	115	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-	Canopy Species	Density	Avg. Height	Size		
	Balsam Fir	10	Seedling	8 55		Balsam Fir	Low	< 5 feet	< 5 feet		
No	orthern White Cedar	70		10 115	Е	lack Spruce	Low	< 5 feet	< 5 feet		
	Black Ash	20	Seedling	6 65						_	
66	500 -	- Water		None	25.	1		No		Fortune pond	
67	4134 - Asp			Poletimber W			51-80	N/A		7	
	Canopy Species		Size Class			Canopy Species		Avg. Height	Size		
	Quaking Aspen	75		8 61		White Pine	Medium	10 - 20 feet	10 - 20 feet		
	Balsam Fir	17	Sapling	6		Balsam Fir	High	10 - 20 feet	10 - 20 feet		
	Paper Birch	3	Log	4							
	White Spruce	5	Seedling	6							
69	6229 - Mixed	Lowland S	hrub	None	0.5			No			
70	6229 - Mixed	Lowland S	hrub	None	0.4			No			
403				Sawtimber W			141-170	N/A		-	
	Canopy Species	% Cover	Size Class			Canopy Species	Density	Avg. Height	Size		
	Quaking Aspen	5		10	Е	Black Cherry	Low	5 - 10 feet	5 - 10 feet		
	White Pine	5		10		Red Oak	Low	5 - 10 feet	5 - 10 feet		
	Black Spruce	5	Seedling	8							
	Red Pine	85		16 71							