

# **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12171 Entry Year: 2027 Acreage: 945 County: Iron Management Area: Brule River

## Stand Examiner: Eric Brolin

## Legal Description:

T41N-R31W sections 3, 4, 9 and 10

### **Identified Planning Goals:**

Develop age class distribution in aspen type. Develop quality while maintaining diversity in hardwood type. Maintain health of conifer types and increase acreage where possible. Maintain and improve road system.

### Soil and topography:

Sarona fine sandy loam. Rolling areas on ground moraines and end morains. Rolling hills with some swamp and drainages.

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

State lands mixed with company lands and private parcels. Land mainly used for hunting and fishing, but some year round residences and camps are present.

### **Unique Natural Features:**

Michigamme Lake. The Menominee River is just to the south of the compartment..

### Archeological, Historical, and Cultural Features:

None.

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

None.

### Watershed and Fisheries Considerations:

Minimum buffers should be implemented. 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:

The primary featured species managed for in this compartment include bear and deer. This compartment is greater than 90% aspen and northern hardwood. It has 3 small drainages that provide critical habitat for bears, deer, amphibians and reptile and migrating songbirds. This compartment is part of the historical Camp 5 Deer Wintering Complex. The hemlock, cedar, pine and spruce/fire components of the are are critical to provide winter cover and enable deer to travel along transition zones through the uplands to obtain forage.

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

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 50 and 100 feet. The Proterozoic Michigamme Formation and Archean volcanic and sedimentary rocks subcrop below the glacial drift. There is not a current economic use for these rocks. Abandoned iron mines at Crystal Falls are located ten miles to the northwest. Land near this compartment was previously leased for metallic mineral exploration. There are no visibly active gravel pits in the area, but there is potential. There is no economic oil and gas production in the UP.

### Vehicle Access:

Camp 5 Road, Lower Dam Road, Upper Dam Road and woods roads.

#### **Survey Needs:**

None.

**Recreational Facilities and Opportunities:** 

Hunting.

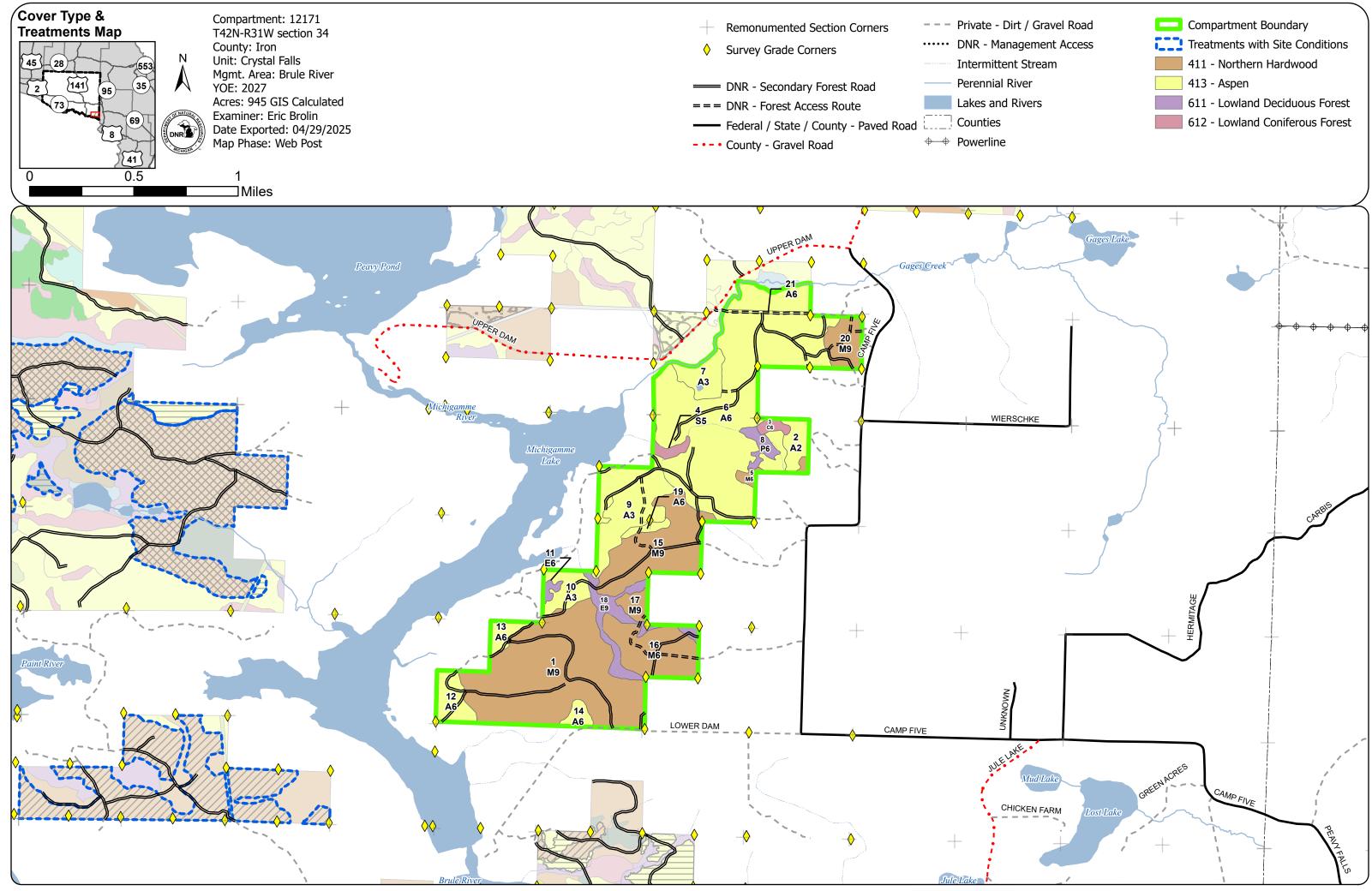
**Fire Protection:** 

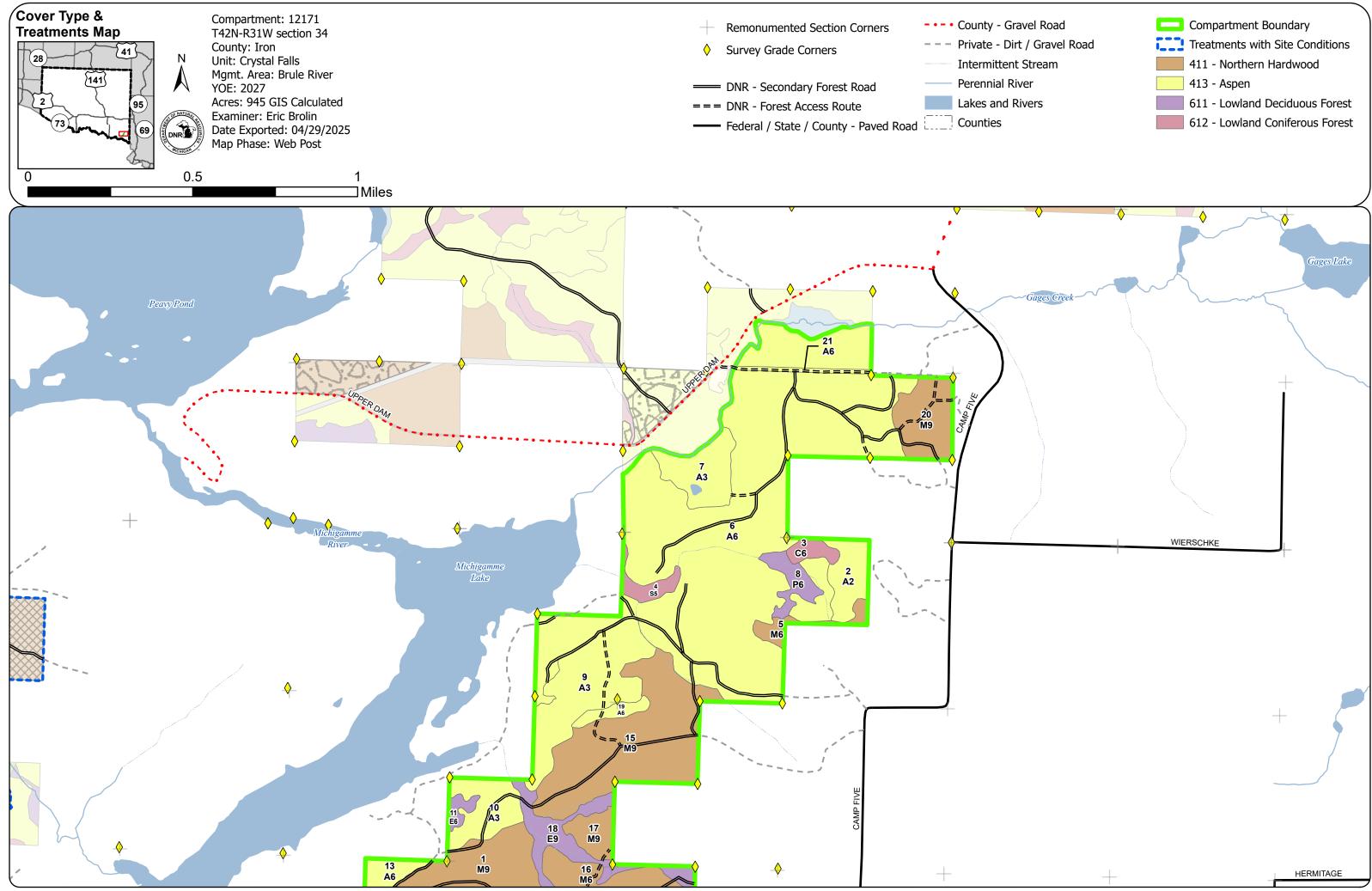
### **Additional Compartment Information:**

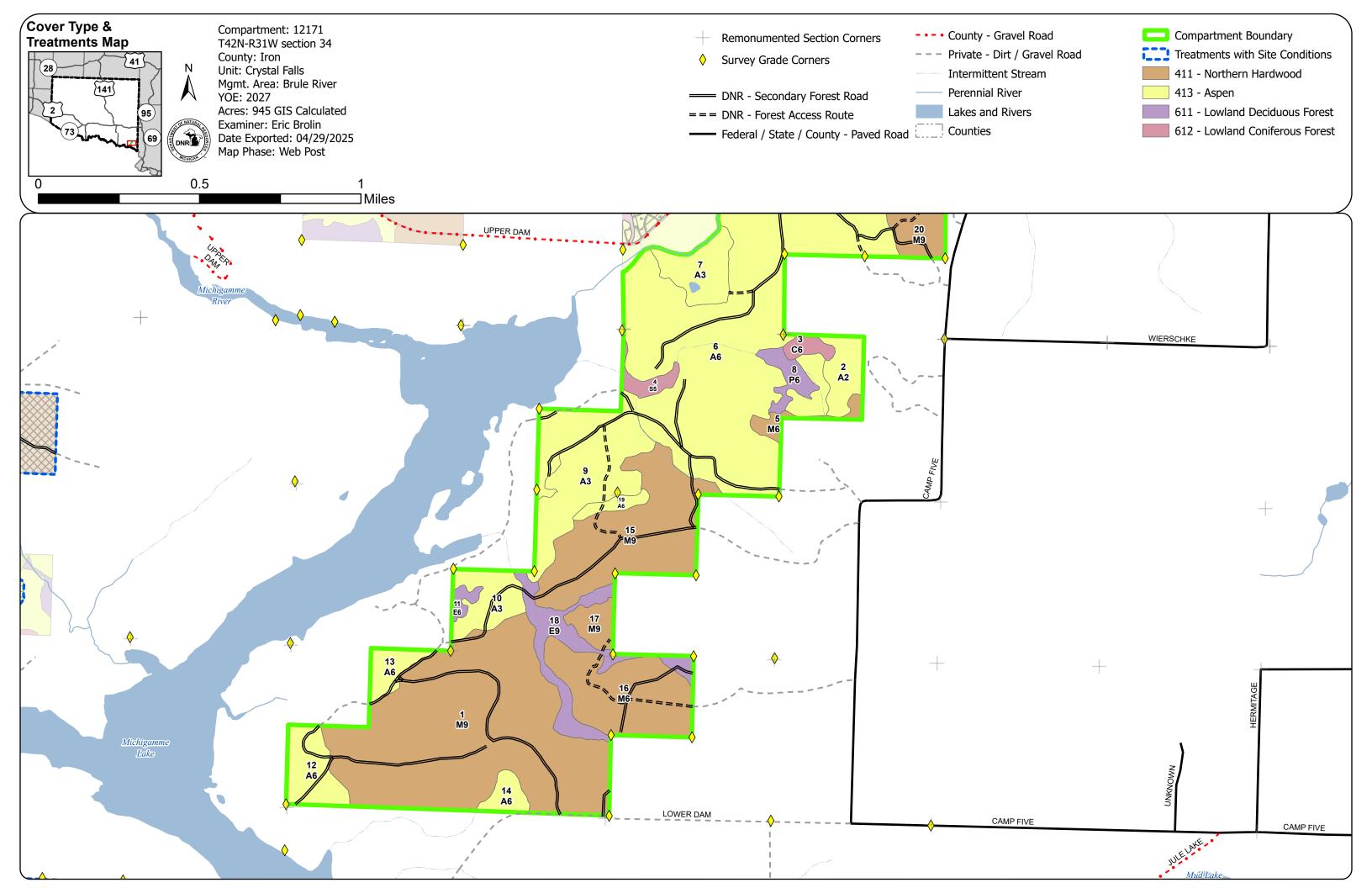
None.

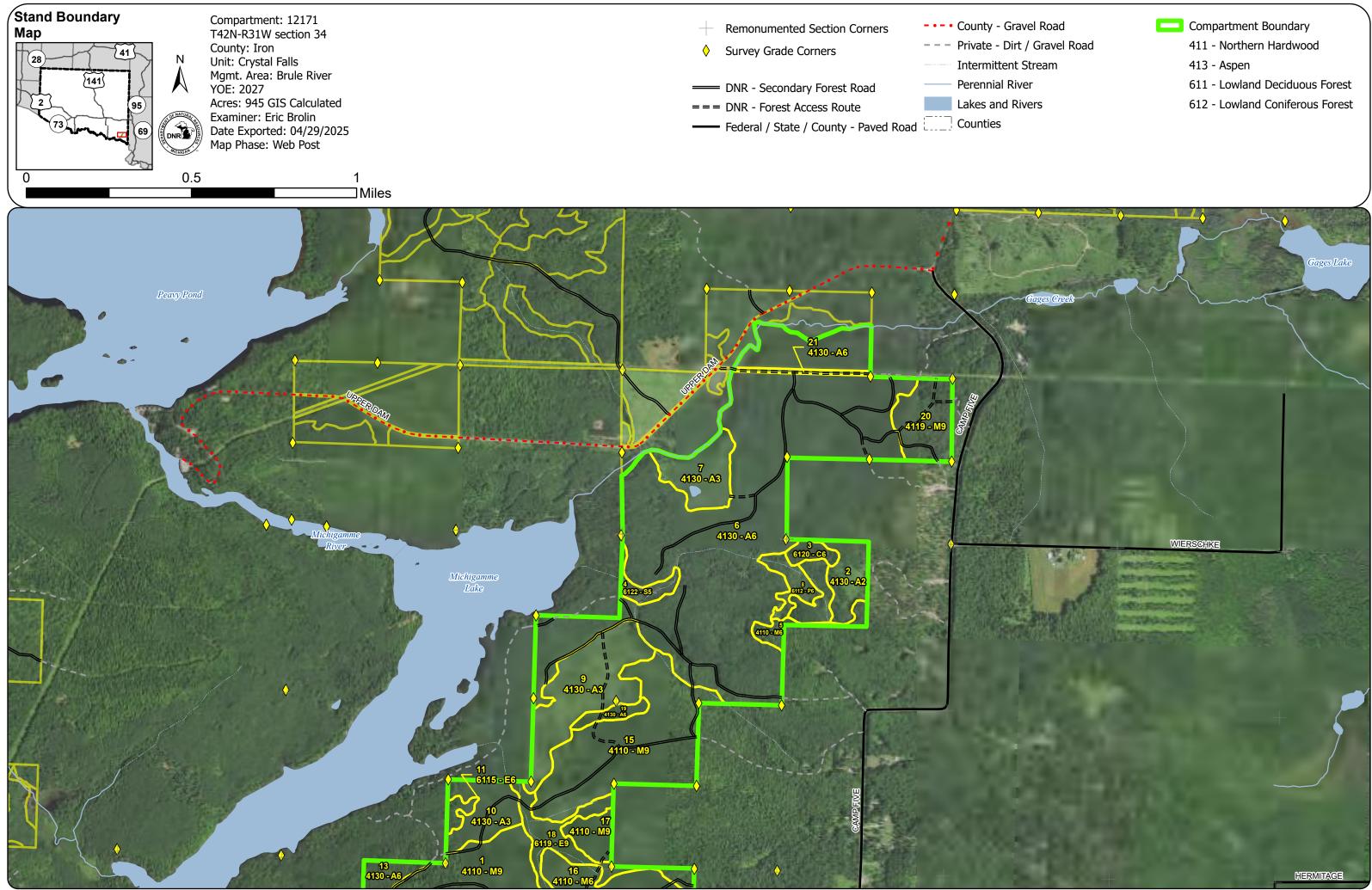
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

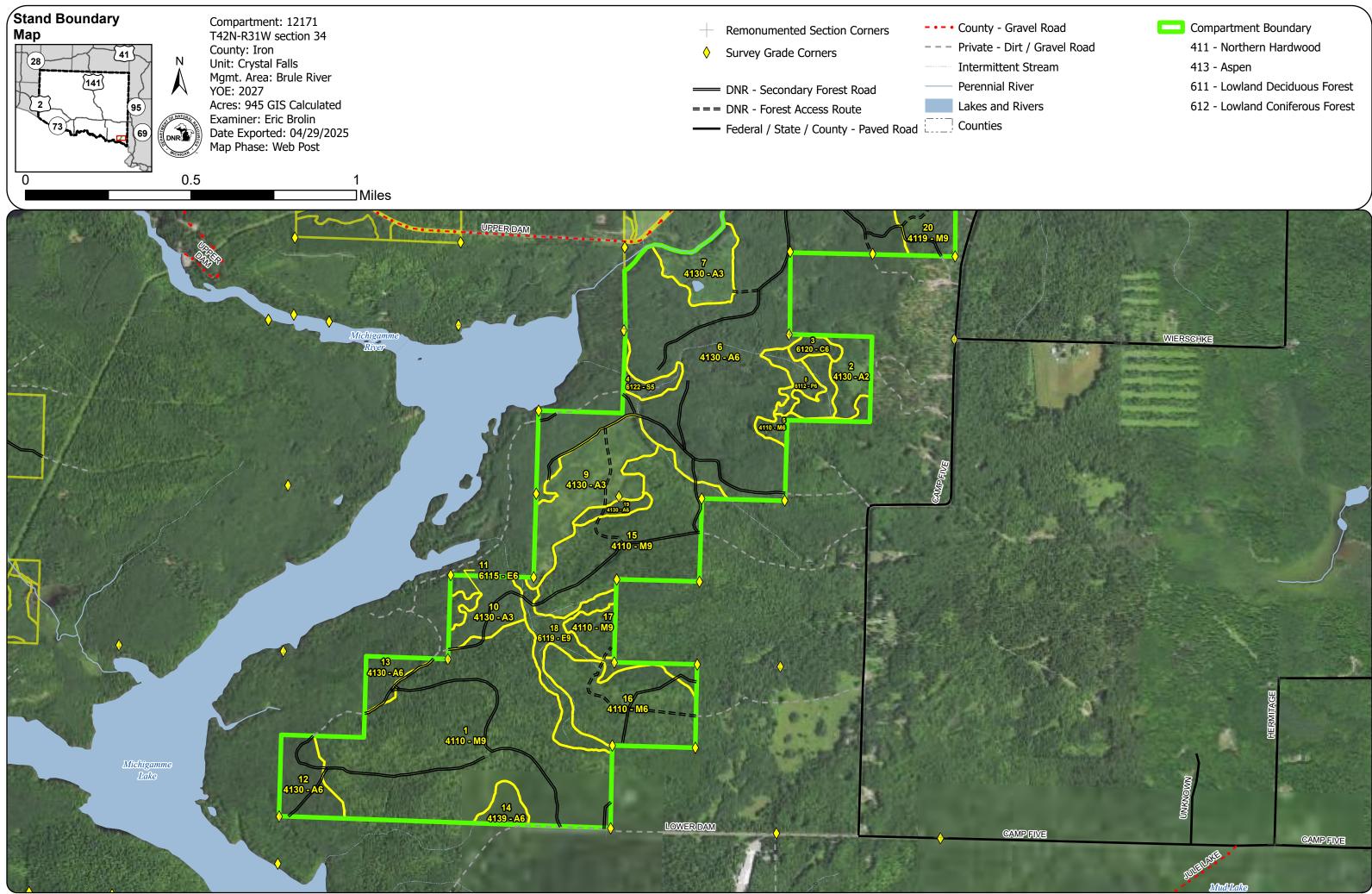
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system

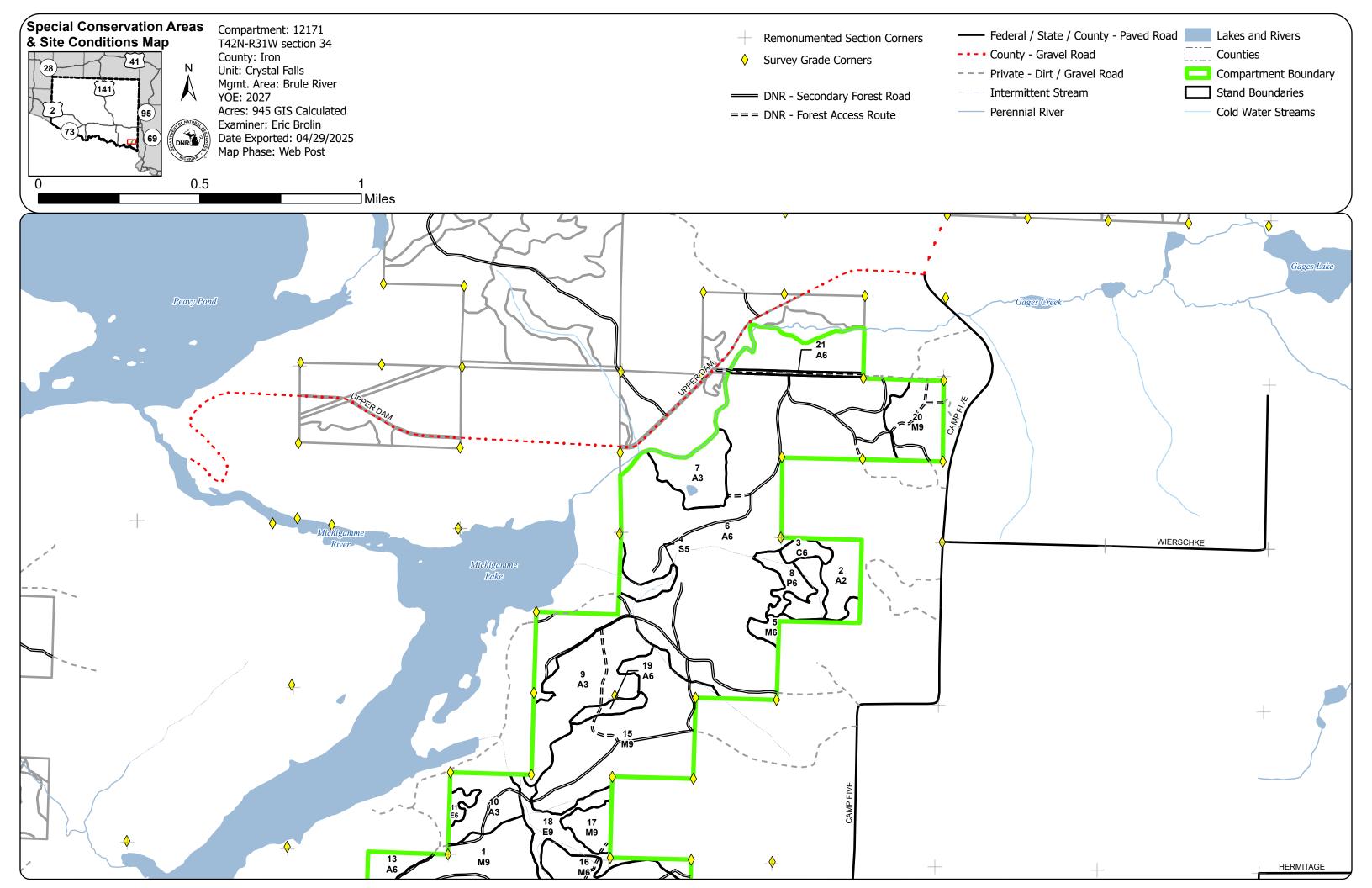


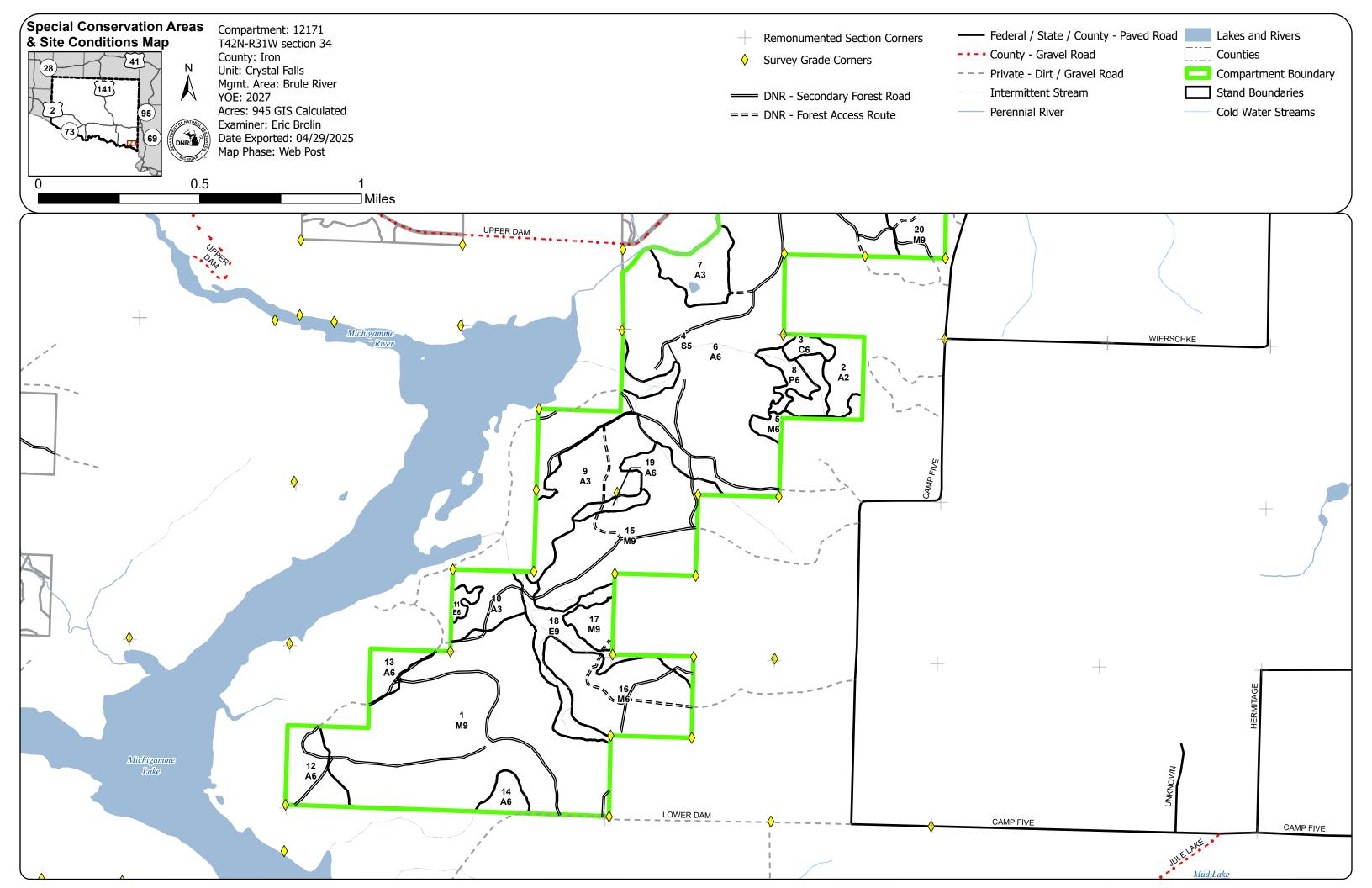












# Report 1 – Total Acres by Cover Type and Age Class

Crystal Falls Mgt. Unit

Eric Brolin: Examiner

Compartment 171 Year of Entry 2027



Age Class

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Aspen	0	50	60	0	333	42	0	0	0	0	0	0	0	0	0	0	0	0	485	
Cedar	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	
Lowland Aspen/Balsam Poplar	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	35	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	403	0	0	0	0	0	0	0	403	
Total	0	50	60	0	342	42	0	0	0	0	450	0	0	0	0	0	0	0	944	

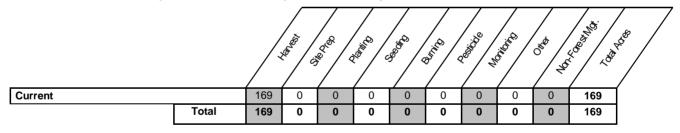


· MICHIGAN S	Crystal Falls Mgt. Unit		Compartment 171	
CHIGH	Year of Entry: 2027	Acres of Harvest	Total Compartment Acres: 945	
		Commercial Harvest - 169		
		Harvests with Site Condition - 0		
		Next Step Harvest - 0		
		Habitat Cut - 0		

## Cover Type by Harvest Method

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Aspen		106	0	0	0	0	0	0	0	0	106	1
Northern Hardwood		0	59	0	0	4	0	0	0	0	63	
	Total	106	59	0	0	4	0	0	0	0	169	

## Proposed and Next Step Treatments by Method



		Crystal Falls	s Mgt. Unit		Repo	rt3 ˈ	Treatments		Compartmen Year of Entry		DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Hab Co
oos	ed Treatme	<u>nts:</u>									
16	12171016- Selection	58.9 4	110 - Sugar Maple Association	6	95	81-110	Harvest	Selection	411 - Northern Hardwood	Current	Ν
Pres Spe									ncourage hardwood es diversity while m		. Remov
	<u>t Step</u> atments:										
<u>Acce</u> Reg		ombination o	f the current overst	ory specie	S.						
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	bosed Start Dat								4400 1		
14	12171014-C	5.94	139 - Aspen, Mixed Deciduous	6	44	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	Ν
<u>Pres</u> Spe		est all mercha	antable trees to pro	mote aspe	n regene	eration an	d diversity. Leave	e all conifer, oak, a	and yellow birch if p	resent.	
	<u>t Step</u> atments:										
Acce	eptable Any c	ombination o	f the current overst	ory specie	S.						
Reg							to a satismatical fam	en enek lite			
Othe Corr	<u>nment:</u>		ide the S/SW area	where the	ground i	Jecomes	too saturated for	operability.			
Site	Condition:										
	Condition: bosed Start Dat	<u>e:</u> 10/01/20	26								
			26 4130 - Aspen	6	44	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	N
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#### **Report 3 -- Treatments**

Compartment: 171



t									Year of Entr	y: 2027	
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habit Cut
6	12171006-CC>	22.9	4130 - Aspen	6	37	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Spec</u> Next			antable aspen to pro rse mix of species.							ameter, forkec	l crown
<u>Acce</u> Rege	,	mbination o	of the current overst	tory species	S.						
Site	<u>ment:</u> E/NE, Condition:	through sta	l drainage along the nd 20, to avoid stre					m retention for the	stand. Best acces	s will be from	the far
Prop 6	osed Start Date	-	4130 - Aspen	6	37	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	N
	greate Step										
<u>Trea</u> <u>Acce</u> <u>Rege</u> <u>Othe</u>	<u>Step</u> tments: eptable Any co en: en: Best a	mbination o	of the current overst s area is from the S			Exclude lo	wland drainages	with a 100' buffer,	these will also sat	tisfy long term	retentior
<u>Trea</u> <u>Acce</u> <u>Rege</u> <u>Othe</u> <u>Com</u>	<u>Step</u> tments: eptable Any co	mbination o				Exclude lo	wland drainages	with a 100' buffer,	these will also sai	tisfy long term	retentior
Trea Acce Rege Othe Com	<u>Step</u> tments: eptable Any co en: Best a ment:	mbination o	s area is from the S			Exclude lo	wland drainages	with a 100' buffer,	these will also sat	tisfy long term	retention
Trea Acce Rege Othe Com	<u>Step</u> tments: eptable Any co en: er Best a iment: Condition:	mbination of the coess to the coess to the coess to the coess to the coest to the coest to the coest to coest t	s area is from the S	E through		Exclude lo 111- 140	wland drainages Harvest	with a 100' buffer,	these will also sai 4199 - Other Mixed Upland Deciduous	tisfy long term Cutting Record	
Trea Acce Rege Com Site Prop 5	Step tments: eptable Any co en: Best a ment: Condition: cosed Start Date 12171005- Shelterwood cription Harves	mbination o ccess to thi <u>: 10/01/20</u> 4.4 4 st to a 2" sp v, wind firm	s area is from the S 026 1110 - Sugar Maple	E through	private. I 95 ation. Le	111- 140 ave all co	Harvest	Shelterwood combination with le	4199 - Other Mixed Upland Deciduous eave species, gree	Cutting Record en mark a dive	N erse mix c
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Total Treatment 0 Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 171 Year of Entry: 2027



## Availability for Management

	Total	Acres	Acres Avail	Acres	De	ominar	nt Site	e Conc	litions
	Acres	Available	With Condition	Not Available		5C	2G	3J	
	374	127	182	66	Aspen	182	2	63	
ſ	5	0	0	5	Cedar		5		
	9	0	0	9	Lowland Aspen/Balsam Poplar		9		
	35	0	0	35	Lowland Deciduous		35		
	7	0	0	7	Lowland Spruce/Fir		7		
	399	396	3	0	Northern Hardwood	3			
	830	522	185	122	Total Forested Acres	185	59	63	
		63%	22%	15%	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	e Dominant Site . Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Narrow, young strip	along the south edge of the	road. Ho	ld and merge with adjacent	harvest north of the road	for future management.	
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Webs of flowing wat	ter across the entire area wit	h mucky	soil which does not freeze	up with constant flowing s	seeps.	
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	28	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Web of lowland drai	inage areas. Mucky soil with	flowing v	vater, both seasonal and se	ep/spring drainage. 100'	buffer for all adjacent asp	en types.

	-	Falls Mgt. Unit Brolin: Examiner		Report 4 – Site Condit	tions	Compartment: 171 Year of Entry: 2027	DR. MCMGAL
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 300' trout stream bu	uffer for all adjacent aspen type	es alor	ng the south edge of Gages Cre	eek.		
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> A few trees along th	ne edge may be managed with	adjace	ent stand in the future. Otherwi	se, too wet with mucky	black ash soils.	
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> 100' buffer for drain	age area. Long term retention	•				
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Lowland flat web wi	th seasonal water flow. This lo	ow flat	should be avoided from any fut	ure operations to avoic	l resource damage and BMP is	sues.
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Area becomes too v	wet for operations. Can be use	ed as lo	ong term retention for Stand 14.			
)	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
	Comments:						

	-	al Falls Mgt. Unit Brolin: Examiner		Report 4 – Site Cond	itions	Compartment: 171 Year of Entry: 2027	AND NATURAL
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
-	Comments: /ery wet, flooded I	owland conifer flat. Sparse stoc	king of	black spruce and tamarack,	declining, with an under	story of alder and mixed saplin	gs.
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
-	Comments:			with adjacent stand due to am			
5	Small patch of har	dwoods will be managed in the	ruture v	with adjacent stand due to sm	all size and access.		
12	Small patch of hard	dwoods will be managed in the f 5C: Delay treatment for age/size class diversity or exceptional site quality	82	Unspecified	Unspecified	Unspecified	Unspecified
12 C	Available Comments:	5C: Delay treatment for age/size class diversity or	82	Unspecified	Unspecified	Unspecified	Unspecified

#### 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

## Report 7 – Stands

#### Compartment: 171 Year of Entry: 2027

DIR MATURET	

Stand	d Level 4 Co	over Type		Size Do	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
1	4110 - Sugar N	laple Asso	ciation	Sawtim	er Well	216.6	95	81-110	N/A	N .	Thinned in 2018. Good quality hardwood stand. Abundant regen across
	Canopy Species	% Cover	Size Class	DBI	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the area with some sugar maple, ironwood, and a heavy mix of ash. SW area has denser canopy with much less regen in the understory.
	Basswood	10		14	95	As	sh (spp.)	Medium	Variable	Variable	
	Hemlock	2		22		Su	gar Maple	Low	Variable	Variable	
	Sugar Maple	80		14	95	Ir	onwood	Low	Variable	Variable	
	Red Maple	3		12	95						_
	Yellow Birch	5		10							
2	4130	- Aspen		Saplin	g Well	16.1	15 li	mmature	N/A	١	Aspen sapling stand. Heavy to bigtooth on any elevation rises. Large
	Canopy Species	% Cover	Size Class	DBI	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	area in the center did not regenerate and is growing in with cherry and conifer saplings. Accessed from the east trough company land.
	Black Cherry	10	Log	2		In	onwood	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	5	Log	1							<u>-</u>
	White Spruce	5	Log	1							
	Red Maple	10	Log	1							
	Bigtooth Aspen	50	Log	3	15						
	Quaking Aspen	20	Log	3	15						
3	6120 - Lov	wland Ceda	ar	Poletim	er Well	5.3	95	111-140	N/A	N	Dense cedar patch transitioning to aspen/black spruce along the edges.
	Canopy Species	% Cover	Size Class	DBI	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	5		10	95	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	5	Sapling	7		Bla	ck Spruce	Low	Variable	Variable	
	Paper Birch	5	Seedling	8						1	-
	Black Spruce	15	Seedling	8	95						
No	orthern White Cedar	70		8	95						
4	6122 - Bl	ack Spruce	e P	oletimbe	r Mediun	n 6.7	95	51-80	N/A	١	Sparsely stocked lowland conifer area. Flooded with open patches and
	Canopy Species	% Cover	Size Class	DBI	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	alder.
	Tamarack	10		10	95	Bla	ck Spruce	Low	Variable	Variable	
	Black Spruce	85	Sapling	7	95	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
No	orthern White Cedar	5	Seedling	8	95						-
5	4110 - Sugar N	Aple Asso	ciation	Poletim	er Well	7.3	95	111-140	N/A	١	Hardwood stand with dense stocking. W/E areas can not be connected
	Canopy Species	% Cover	Size Class	DBI	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	due to different access points and terrain.
	Basswood	30		16	95	Ir	onwood	Low	10 - 20 feet	10 - 20 feet	1
	Red Oak	5		20				1			<u>-</u>
	O	55		11	95						
	Sugar Maple	55		11	35						
	Red Maple	5		12	35						

## Report 7 – Stands

Compartment: 171 Year of Entry: 2027

tand	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age B	A Range	Managed S	lite	General Comments
6	4130	- Aspen		Sapling	g Well	323.8	37	81-110	N/A	A	Very large area of aspen at the same age. Multiple drainageways and
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	road/trail systems across the entire stand. Aspen has good site index guality in most areas with larger than average diameters. Very little
	White Pine	2		22		Re	d Maple	Low	Variable	Variable	conifer component consists of mainly upland black spruce / white spru
	Quaking Aspen	68	Seedling	7	37	Whit	e Spruce	Low	Variable	Variable	mix, sapling to small pole size trees. Management over the next few
	Balsam Fir	1	Sapling	5		Blac	k Spruce	Low	Variable	Variable	YOE's should focus on creating more age class diversity across the a and conifer/diversity retention.
	Red Maple	2	Sapling	6							
	Paper Birch	2	Sapling	7							
	Bigtooth Aspen	17		8							
	Red Oak	1		8							
	White Spruce	4		7							
	Black Spruce	3	Sapling	6							
7	4130	- Aspen		Saplin	g Well	22.6	10 I	mmature	N/A	A	Aspen saplings with some scattered white pine. Small lowland conifer
	Canopy Species	% Cover	Size Class	DBH	I Age						patch excluded form recent harvest located in the SW area.
	White Pine	2		22							
	Red Oak	1		10							
	Black Spruce	3	Sapling	6							
	Red Maple	5	Log	2							
	Paper Birch	5	Log	2							
	Bigtooth Aspen	10	Log	2	10						
	Quaking Aspen	72	Log	2	10						
	Balsam Fir	2	Log	2							
8	6112 - Lo	wland Aspe	'n	Saplin	g Well	9.4	37	1-50	N/A	A	Drainage holding flat from surrounding terrain. Multiple webs of flowin
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	runoff and groundwater seeps. Water drainage areas do not freeze w constant flow and contain very mucky material.
	Balsam Fir	5	Sapling	5		Re	d Maple	Low	Variable	Variable	
	Red Maple	5	Sapling	6		Cat	ttail spp.	Low	Not Applicable	Not Applicabl	¢
	Bigtooth Aspen	10		8		Whit	e Spruce	Low	Variable	Variable	
	Red Oak	1		8		Blac	k Spruce	Low	Variable	Variable	
	White Spruce	5		7			Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Sapling	6							-
	Quaking Aspen	64	Seedling	7	37						
9	4130	- Aspen		Saplinę	g Well	50.1	7		N/A	A	Mix of aspen saplings with some red maple. Some area are patchy b
	Canopy Species	% Cover	Size Class	DBH	l Age						should grow in well with more time. Pockets of saturated ground withi hold alder and/or cattails.Cut in 2018.
	Red Maple	15	Log	1							
	Quaking Aspen	85	Log	1	7						

## Report 7 – Stands

Compartment: 171 Year of Entry: 2027



Stand	Level 4 Co		Size De	ensity	Acres	Acres Stand Age BA		Managed Site		General Comments	
10	4130 - Aspen			Sapling Well		21.0 16 1-50		1-50	N/A		Very dense, nearly pure aspen stand with black ash seedlings present in
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	a lot of the understory. Heavier ground may be poorly drained and soft during non-frozen periods.
	Red Oak	1		18		Sug	ar Maple	Low	Variable	Variable	
	White Spruce	3	Log	3		Irc	onwood	Low	Variable	Variable	
	Hemlock	1		22		Bla	ack Ash	Medium	Variable	Variable	
	Quaking Aspen	90	Log	3	16						_
	Red Maple	5	Log	2							
11	1 6115 - Lowland Ash Poletim			Poletimb	er Well	3.7	3.7 96 81-110		N/A		Flooded lowland flat. Mainly black ash with some conifer and aspen
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	mixed in along the edges.
	Quaking Aspen	10		9		As	h (spp.)	High	Variable	Variable	
	White Pine	5		22		Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
	Black Ash	70		8	96				I		-
	Red Maple	5		8							
	Black Spruce	5	Seedling	7							
No	orthern White Cedar	5		8							
12	<b>2</b> 4130 - Aspen		F	Poletimber Well		22.7 44 111-140		N/A		Nice quality aspen stand. Sugar maple saplings can dominate the $-$ understory in areas, mainly in the south 1/3. More of a hardwood	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	component mixed in the south 1/3 of the stand ranging from large
	White Spruce	3	Sapling	6		Whi	e Spruce	Low	Variable	Variable	sapling to small pole sized maple.
	Sugar Maple	5	Sapling	5		Irc	onwood	Low	Variable	Variable	
	Paper Birch	3	Seedling	7		Sug	ar Maple	Medium	Variable	Variable	
	Bigtooth Aspen	10		10							
	Yellow Birch	1	Seedling	7							
	Quaking Aspen	77		8	44						
	Balsam Fir	1	Sapling	6							
13	4130 - Aspen P			Poletimber Well		11.2 44 111-140		N/A		Good quality aspen. Some lower swales within could contain softer $\neg$ ground with some black ash mixed in which may need to be excluded	
	Canopy Species	% Cover	Size Class		I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	from future management for operability.
	Yellow Birch	1	Sapling	5		Bla	ack Ash	Low	Variable	Variable	
	Quaking Aspen	85		8	44	Ba	lsam Fir	Low	Variable	Variable	
	Sugar Maple	5	Sapling	5		Sug	ar Maple	Medium	Variable	Variable	
	Red Maple	3	Sapling	6							
	Paper Birch	2	Seedling	7							
	White Spruce	3	Sapling	5							
No	orthern White Cedar	1		10							

## Report 7 – Stands



Stand	Level 4 C	over Type		Size De	nsity	Acres Stand Age	BA Range	Managed S	Site	General Comments	
14				Poletimber Well		8.3 44	81-110	N/A		Mainly nice aspen poles in the south half. North half has mixed	
	Canopy Species % Cover Size Cla		Size Class	ss DBH Age		Sub-Canopy Species	s Density	Avg. Height	Size	deciduous trees with some aspen speckled in. The S/SW area become too low and saturated for management and is heavy to black ash with	
	White Spruce	4		12		Balsam Fir	Low	Variable	Variable	some lowland conifers mixed in.	
	Hemlock	1		15		Sugar Maple	Low	Variable	Variable		
	Yellow Birch	10		12	95	Quaking Aspen	Low	Variable	Variable		
	Quaking Aspen	36		8	44	Ash (spp.)	High	Variable	Variable		
	Basswood	5		10					1	-	
	White Ash	5		10							
	Black Ash	20		8	95						
	Red Maple	14		8	95						
	Bigtooth Aspen	5		9							
15	4110 - Sugar M	Maple Assoc	ciation	Sawtimb	er Well	85.1 95	81-110	N/A	Ą	Hardwood log stand thinned recently. Rolling terrain in areas. Thinned	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	s Density	Avg. Height	Size	_ in 2018.	
	Basswood	20		14	95	White Spruce	Trace	Variable	Variable		
	Sugar Maple	65		12	95	Ironwood	Medium	Variable	Variable		
	Red Maple	5		10	95		·			-	
	Paper Birch	2		11							
	Hemlock	3		18							
	Yellow Birch	5		10	95						
16	4110 - Sugar Maple Association Poletimber Well					58.9 95 81-110 N/A			Ą	Moderate quality hardwood stand. A lot of large diameter trees and	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	s Density	Avg. Height	Size	suppressed poles. Understory is dense with saplings, mostly ash, but maple mixed in and more abundant in some areas. Small aspen patches	
	Basswood	12		12	95	Sugar Maple	Medium	Variable	Variable	along the north edge may be managed. 140 140 130 Average of 135	
	White Ash	7		15		Ash (spp.)	High	Variable	Variable	BA.	
	Hemlock	10		20		Ironwood	Medium	Variable	Variable		
	Yellow Birch	3		12	95		1	ł	1	-	
	Sugar Maple	68		12	95						
17	4110 - Sugar Maple Association Sa			Sawtimber Well		10.5 95 81-110		N/A		Harwood log stand. Access would be from the NW or SE, both cross	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	s Density	Avg. Height	Size	narrow lowland drainages.Thinned in 2018.	
	Basswood	15		13	95	Ironwood	Medium	10 - 20 feet	10 - 20 feet		
	Hemlock	2		16		Leatherwood	Low	5 - 10 feet	5 - 10 feet		
	Sugar Maple	80		11	95	White Spruce	Low	5 - 10 feet	5 - 10 feet		
	Yellow Birch	3		11		Red Maple	Low	Variable	Variable		

## Report 7 – Stands

Compartment: 171 Year of Entry: 2027

Stand	Level 4 C	over Type		Size Density	Acres Stand Age B	A Range	Managed Sit	e	Year of Entry: 2027 General Comments
18	6119 - Mixed Lowland Deciduous Forest			Sawtimber Well	31.7 95	111-140	N/A		Diverse mix of species and sizes within a lowland/upland web. Low
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	drainage that receives any runoff from surrounding upland stands. Seasonal flow of water north. Large rocks make up most of the lowland
	Basswood	5		12 95	Tag Alder	Low	5 - 10 feet	5 - 10 feet	bed, especially north as seasonal flow increases.
	Black Ash	31		8 95					
	White Spruce	5		8 95					
No	orthern White Cedar	2		12 95					
	Hemlock	12		16 95					
	Sugar Maple	5		8					
	Red Maple	25		12 95					
	Yellow Birch	10		12					
	Quaking Aspen	5		8					
19	4130 - Aspen			Sapling Well	5.4 36	51-80	N/A		Small patch of good quality, mixed aspen poles.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Quaking Aspen	80	Seedling	7 36	Ironwood	Low	10 - 20 feet	10 - 20 feet	
	Red Maple	5	Sapling	5 36	Hazelnut (American)	Low	5 - 10 feet	5 - 10 feet	-
	Bigtooth Aspen	15	Seedling	7					_
20				Sawtimber Well	24.8 90	81-110	N/A		Hardwood stand with a heavier component of yellow birch and scattered large diameter oak. Stand was thinned in 2007 and 2022. Access from
	Canopy Species		Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	the SE corner. Vernal areas need to be exclude from future operations
	Sugar Maple	73		11 90	Balsam Fir	Low	Variable	Variable	in the SE/central/NW areas.
	Red Maple	5		10	Ironwood	Low	Variable	Variable	_
	Paper Birch	3		12	Sugar Maple	Low	Variable	Variable	
	Yellow Birch	12		12					
	Red Oak	6		20					
	Hemlock	1		10					
21	4130 - Aspen		Sapling Well	3.4 37	81-110	N/A		Very large area of aspen at the same age. Multiple drainageways and $_{\rm T}$ road/trail systems across the entire stand. Aspen has good site index	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	quality in most areas with larger than average diameters. Very little
	White Pine	2		22	Red Maple	Low	Variable	Variable	conifer component consists of mainly upland black spruce / white spruce
	Balsam Fir	1	Sapling	5	White Spruce	Low	Variable	Variable	mix, sapling to small pole size trees. Management over the next few
	Red Maple	2	Sapling	6	Black Spruce	Low	Variable	Variable	YOE's should focus on creating more age class diversity across the area and conifer/diversity retention.
	Paper Birch	2	Sapling	7					
	Bigtooth Aspen	17		8					
		68	Seedling	7 37					
	Quaking Aspen	00							
	Red Oak	1	0	8					
	0 1								