



**PIGEON RIVER COUNTRY MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT 45 ENTRY YEAR: 2013**

**Compartment Acreage: 1685      County: Otsego**

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**Review Date:**

October 6, 2011

**Stand Examiner:**

Rick McDonald

**Legal Description:**

T31N - R01W Sections 5, 8 & 17

**RMU (if applicable):**

Not Applicable

**Management Goals:**

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

**Soil and Topography:**

Flat topography with organic soils dominating the lowlands. Quite productive sandy loams are found throughout the uplands.

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

Primarily a contiguous block of state land with some private ownership in the southwest portion of the compartment.

**Unique, Natural Features (include only non-site specific and non-sensitive information):**

None identified.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):**

None identified.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

The main stream of the Black River flows through the entire length of the compartment. Numerous small tributaries generating from the swamp feed into this river.

**Wildlife Habitat Considerations:**

Please refer to Wildlife Biologist's comments.

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

Sections 5, 8 & 17 T31N-R01W, Otsego County

Surface sediments consist of coarse textured glacial till (SW) and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. There is approximately 140 feet of local relief within the compartment. Beneath the glacial drift is the Devonian- Antrim Shales. The Antrim is quarried for clay/shale (cement) elsewhere in the State. The nearest gravel pit is two and one-half miles to the southwest, and potential is considered good in the southwest corner. This area is partially leased for oil and gas development until 2001 or as long as production continues. The Antrim Shale development is located along the southwest edge of the compartment. The Niagaran trend produces in the compartment from surface locations to the east and to the west. There is excellent oil and gas potential for known producing formations in this compartment.

**Vehicle Access:**

Only the western portion of Section 5 is accessible to vehicles by way of Green's Landing Road.

**Survey Needs:**

None required.

**Recreational Facilities and Opportunities:**

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

**Fire Protection:**

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

**Additional Compartment Information:**

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 45

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	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	150-159	All Aged	Total
Aspen				14	104				2	10									130
Grass	15																		15
Jack Pine		8			11														19
Lowlnd Brush	202																		202
Lowlnd Poplr					8				84										92
Marsh	16																		16
Mx Swmp Cnfr									71		64		929						1064
Red Pine									20	37	4								61
Spruce Fir									12										12
Swamp Hrdwds											18								18
Upland Hdwds										27	13								40
White Pine				9	4						3								16
<b>Total</b>	<b>233</b>	<b>8</b>		<b>23</b>	<b>127</b>				<b>189</b>	<b>74</b>	<b>102</b>		<b>929</b>						<b>1685</b>

08/10/2011 8:22:45 AM

Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 45

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	130																										130
G Grass					15																						15
J Jack Pine							19																				19
L LowInd Brush									202																		202
P LowInd Poplr										92																	92
N Marsh											16																16
Q Mx Swmp Cnfr												1064															1064
R Red Pine																61											61
F Spruce Fir																			12								12
E Swamp Hrdwds																				18							18
M Upland Hdwds																									40		40
W White Pine																										16	16
<b>Total</b>	130				15		19		202	92	16	1064				61			12	18					40	16	1685

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: **45**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3042 Cds	Hardwood	277 Cds
Hardwood	26 Mbf	Softwood	104 Cds
Softwood	10467 Cds	Softwood	277 Mbf
Softwood	688 Mbf	Sum CutVol	935 Cds
Sum TotVol	14931 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	61
1685		Acres Meeting Silv Criteria.....	1169
		Acres Not Meeting Silv Criteria.....	516
		Acres Unable to Determine Silv Criteria For.....	

**PIGEON RIVER COUNTRY MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 45**

**Entry Year: 2013**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
28	R9	17	81	55	RED PINE	MATURE	SEED TREE	1		

TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)

comnts Fmd : Mark stand to about 40 sq. ft. Any mix of species will be acceptable when evaluating for successful regeneration.

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**Total Acres..... 17**

**PIGEON RIVER COUNTRY MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 45**

**Entry Year: 2013**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	R9	7	76	60	RED PINE	MATURE	SHELTERWOOD-SEED	1		
comnts Fmd : Mark down to 40-50 sq. ft. Any combination of species will be acceptable when evaluating for successful regeneration.										
10	R9	7	81	55	RED PINE	IMMATURE	SHELTERWOOD-SEED	1		
comnts Fmd : Mark down to 40-50 sq. ft. Any combination of species will be acceptable when evaluating for successful regeneration.										
13	R9	5	82	60	RED PINE	MATURE	SHELTERWOOD-SEED	1		
comnts Fmd : THIS IS A SEASONALLY WET STAND THAT IS JUST REACHING MERCHANTABLE SIZE. COULD CUT AGAIN IN TEN YEARS IF DESIRED.										
15	A6	14	37	60	ASPEN (UPLAND)	IMMATURE	FINAL HARVEST	1		
comnts Fmd : Seasonally wet stand and could pose a problem when harvesting. I am recommending a winter cut to limit soil damage by equipment. NO RETENTION was agreed upon at pre-review.										
25	R9	11	76	60	RED PINE	MATURE	SHELTERWOOD-SEED	1		
comnts Fmd : THIS IS VERY NICE REGENERATION. STAND WILL BE READY TO CUT AGAIN IN TEN YEARS IF DESIRED TO DIVERSIFY AGE CLASSES EVEN THOUGH IT WILL ONLY BE 37 YEARS OLD AT THAT TIME.										
<b>Total Acres.....</b>		<b>44</b>								

\* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type-Size Dnsty	Under Story-Strng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
1	R 8	A 2	2	74	11	40	55	red pine	immature	N		40-49 years	0	
<p><u>Treatment Limiting Factors:</u> Inadequate volume due to small acreage</p> <p>comnts Fmd : All species removed, except pine, in 2009 as part of a larger sale to the north.</p>														
2	M 6	M 1	13	88	9	130	60	northern hardwood	immature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Scenic values/visual values</p> <p>comnts Fmd : SAME STAND AS STAND #2 IN COMPARTMENT #44 TO THE WEST AND STAND #32 IN COMPARTMENT #42 TO THE NORTH. DO NOT MANAGE DUE TO THE UNIQUE CHARACTER OF THIS STAND IN RELATION TO THE SURROUNDING TIMBER.</p>														
3	W 4	U 0	9	27	5	20	55	white pine	immature	N		50-59 years	0	
<p>comnts Fmd : ELK HAVE KEPT ASPEN FROM REGENERATING THIS HARVEST AREA. WHITE PINE IS TAKING OVER IN IT'S PLACE.</p>														
4	R 9	W 1	7	76	18	110	60	red pine	mature	N	shelterwood-seed	within 0-9 years	1	
<p>comnts Fmd : Mark down to 40-50 sq. ft. Any combination of species will be acceptable when evaluating for successful regeneration.</p>														
5	W 4	W 1	4	37	6	40	55	white pine	immature	N		40-49 years	0	
<p>comnts Fmd : POOR QUALITY, DRY SITE. ALTHOUGH ASPEN DID REGENERATE I BELIEVE WHITE PINE WILL DOMINATE THIS SITE.</p>														
6	J 2	J 2	8	5		0	55	jack pine	immature	N		50-59 years	0	
<p>comnts Fmd : A mix pine reproduction will be acceptable.</p>														
7	W 9	J 1	3	88	11	70	60	white pine	immature	N		40-49 years	0	
<p>comnts Fmd : Stand was thinned in 2005.</p>														
8	J 5	W 1	1	37	7	60	45	jack pine	immature	N		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : MANAGE ALONG WITH THE ADJACENT ASPEN STAND #11. WILL MOST LIKELY NEED TO ARTIFICIALLY REGENERATE THIS STAND WHEN CUT.</p>														
9	A 3	A 3	4	26		0	60	aspen (upland)	immature	N		30-39 years	0	
10	R 9	W 1	7	81	14	120	55	red pine	immature	Y	shelterwood-seed	within 0-9 years	1	
<p>comnts Fmd : Mark down to 40-50 sq. ft. Any combination of species will be acceptable when evaluating for successful regeneration.</p>														
11	A 6	A 2	50	36	6	90	60	aspen (upland)	immature	N		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Inferior quality Deer yards</p>														
12	J 5	R 1	10	36	7	50	45	jack pine	immature	N		10-19 years	0	

\* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type- Dnsty	Under Story- Stkg Level	A c r e s	Age	avg. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
13	R 9	F 1	5	82	18	100	60	red pine	mature	Y	shelterwood- seed	within 0-9 years	1	
comnts Fmd : THIS IS A SEASONALLY WET STAND THAT IS JUST REACHING MERCHANTABLE SIZE. COULD CUT AGAIN IN TEN YEARS IF DESIRED.														
14	P 2	L 0	8	36	3	30	50	balsam poplar & swamp aspen and swamp white birch	immature	N		not scheduled	0	
15	A 6	A 1	14	37	8	90	60	aspen (upland)	immature	N	final harvest	within 0-9 years	1	
comnts Fmd : Seasonally wet stand and could pose a problem when harvesting. I am recommending a winter cut to limit soil damage by equipment. NO RETENTION was agreed upon at pre-review.														
16	P 5	L 0	57	76	8	50	50	balsam poplar & swamp aspen and swamp white birch	low quality	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Deer yards Inferior quality														
17	P 5	L 0	9	76	8	50	50	balsam poplar & swamp aspen and swamp white birch	low quality	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Inferior quality Inadequate volume due to low stocking/small diameter/etc.														
18	L 0	L 0	157			0		lowland brush	nonstocked	N		not scheduled	0	
19	E 4	L 0	15	96	8	20	35	swamp hardwoods	low quality	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet														
20	A 5	A 2	26	37	7	60	65	aspen (upland)	immature	N		10-19 years	0	
21	R 9	F 1	4	94	14	10	65	red pine	mature	N		10-19 years	0	
22	M 6	F 1	12	80	9	70	55	northern hardwood	immature	N		not scheduled	0	
23	N 0	N 0	2			0		marsh	nonstocked	N		not scheduled	0	
24	M 5	F 1	2	80	9	60	60	northern hardwood	immature	N		not scheduled	0	

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Stand	Cover Type-Size Dnsty	Under Story-Stking Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
25	R 9	W 1	11	76	14	120	60	red pine	mature	N	shelterwood-seed	within 0-9 years	1	
comnts Fmd : THIS IS VERY NICE REGENERATION. STAND WILL BE READY TO CUT AGAIN IN TEN YEARS IF DESIRED TO DIVERSIFY AGE CLASSES EVEN THOUGH IT WILL ONLY BE 37 YEARS OLD AT THAT TIME.														
26	R 8	W 1	8	81	12	40	55	red pine	two aged	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to low stocking/small diameter/etc.														
27	E 5	L 0	3	96	7	50	35	swamp hardwoods	low quality	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
28	R 9	A 1	17	81	12	70	55	red pine	mature	Y	seed tree	within 0-9 years	1	
<u>Treatment Limiting Factors:</u> Other Dept./Div. procedures or practices (describe in comment)														
comnts Fmd : Mark stand to about 40 sq. ft. Any mix of species will be acceptable when evaluating for successful regeneration.														
29	A 5	A 2	9	36	6	50	60	aspen (upland)	immature	N		10-19 years	0	
<u>Treatment Limiting Factors:</u> Inferior quality Inadequate volume due to low stocking/small diameter/etc.														
30	M 5	W 2	7	80	8	60	60	northern hardwood	immature	N		not scheduled	0	
comnts Fmd : SMALL STAND OF RED MAPLE AND BIRCH. TOO SMALL TO MANAGE BY ITSELF.														
31	Q 6	L 0	34	109	9	160	35	mixed swamp conifer	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Deer yards														
comnts Fmd : THIS IS A WETTER STAND THAN STAND #11 ADJACENT TO THE NORTH. THE UNDERSTORY IS MUCH MORE OPEN AS WELL.														
32	Q 4	L 0	8	109	9	30	30	mixed swamp conifer	sparse	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet														
33	Q 5	L 0	881	109	9	60	30	mixed swamp conifer	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Deer yards														
34	Q 6	L 0	71	73	8	80	40	mixed swamp conifer	immature	N		not scheduled	0	
<u>Treatment Limiting Factors:</u> Other Dept./Div. procedures or practices (describe in comment)														
35	L 0	L 0	24				0	lowland brush	nonstocked	N		not scheduled	0	
36	A 5	L 0	2	74	7	60	60	aspen (upland)	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Influence zones Inadequate volume due to low stocking/small diameter/etc. Inadequate volume due to small acreage														

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Stand	Cover Type-Dnsty	Under Story-Stkg Level	Acres	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
37	Q 2	L 0	1	109		0	30	mixed swamp conifer	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Deer yards														
Influence zones														
38	L 0	L 0	2			0		lowland brush	nonstocked	N		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Deer yards														
39	Q 6	L 0	5	109	7	70	30	mixed swamp conifer	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Deer yards														
40	M 6	M 1	6	81	8	90	60	northern hardwood	immature	N		10-19 years	0	
comnts Fmd :														
41	A 6	M 1	3	81	8	70	60	aspen (upland)	mature	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to small acreage														
42	L 0	L 0	5			0		lowland brush	nonstocked	N		not scheduled	0	
43	P 5	L 0	18	76	8	60	50	balsam poplar & swamp aspen and swamp white birch	low quality	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Influence zones														
44	L 0	L 0	4			0		lowland brush	nonstocked	N		not scheduled	0	
45	A 6	M 1	3	81	8	0	60	aspen (upland)	mature	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to small acreage														
comnts Fmd : STAND WAS CUT WHILE UNDER PRIVATE OWNERSHIP.														
46	A 3	A 3	10	25	3	0	60	aspen (upland)	immature	N		20-29 years	0	
47	A 6	M 1	4	81	8	80	60	aspen (upland)	mature	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to small acreage														
48	L 0	L 0	10			0		lowland brush	nonstocked	N		not scheduled	0	
49	N 0	N 0	7			0		marsh	nonstocked	N		not scheduled	0	

\* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type-Size Dnsty	Under Story-Stking Level	Acrs	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trmt. Period	Harvest Priority	Cultural Need
50	A 5	A 2	5	37	7	50	60	aspen (upland)	immature	N		not scheduled	0	
51	F 6	F 2	12	72	9	110	50	spruce-fir (uplands-including upland black spruce)	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
52	N 0	N 0	7			0		marsh	nonstocked	N		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Deer yards														
53	Q 4	L 0	64	94	7	30	35	mixed swamp conifer	sparse	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
400	G 0	G 0	1		0	0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : NATURAL GRASS OPENING.														
401	G 0	G 0	2		0	0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : NATURAL GRASS OPENING.														
402	G 0	G 0	3		0	0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Active oil well site.														
403	G 0	G 0	5		0	0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : NATURAL GRASS OPENING.														
404	G 0	G 0	3		0	0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : NATURAL GRASS OPENING.														
405	G 0	G 0	1		0	0		grass	nonstocked	N		not scheduled	0	

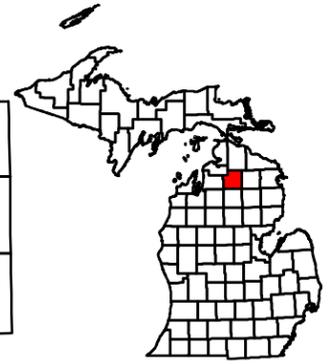
Total Acres..... 1685

84°29'0"W

# Covertime & Treatment Map

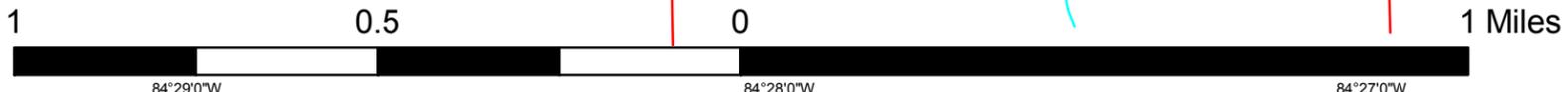
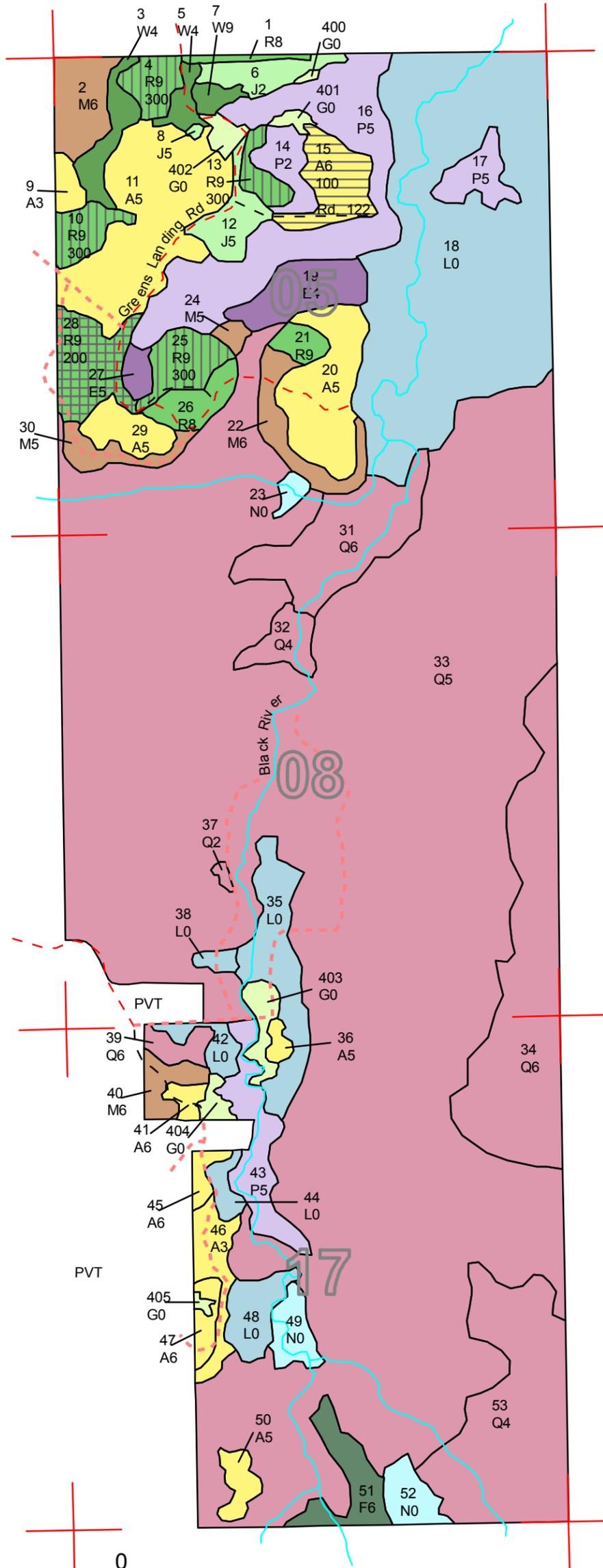
Compartment 45  
 T31N, R01W, Sec. 5, 8, 17  
 County: Otsego  
 Unit: Pigeon River Country  
 YOE: 2013  
 Acres: 1,685 GIS Calculated  
 Stand Examiner: Rick McDonald  
 Map Revised: 3/09/2011  
 Map Phase: Pre-review

05  
 08  
 17



## Legend

- Miris Corners
- - - Closed Roads
- - - County Poor Dirt Roads
- - - Open Forest Roads
- Water Features
- Stand Boundary
- 100 - Final Harvest
- 200 - Seed Tree
- 300 - Shelterwood - seed
- A - Aspen
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- R - Red Pine
- W - White Pine



84°29'0"W

84°28'0"W

84°27'0"W

45°7'0"N

45°6'0"N

45°5'0"N

45°6'0"N

45°5'0"N

# Stand Boundary Map

Compartment 45  
T31N, R01W, Sec. 5, 8, 17  
County: Otsego  
Unit: Pigeon River Country  
YOE: 2013  
Acres: 1,685 GIS Calculated  
Stand Examiner: Rick McDonald  
Map Revised: 3/09/2011  
Map Phase: Pre-review

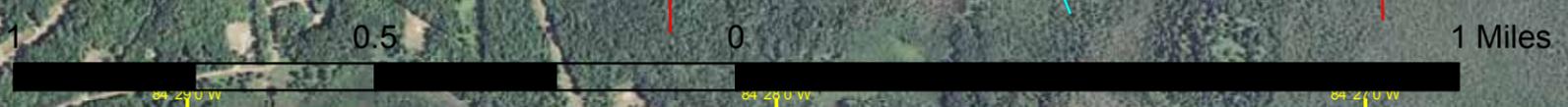
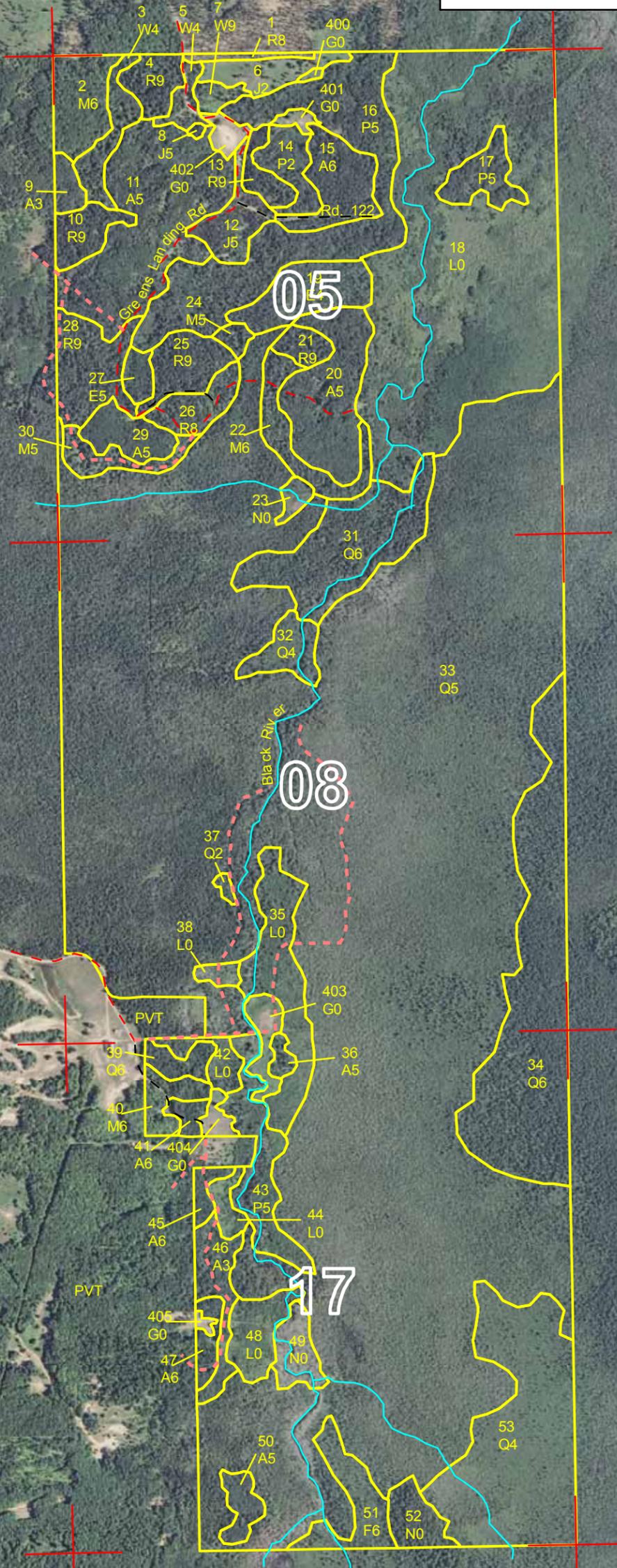
## Legend

- Miris Corners
- - - Closed Roads
- - - County Poor Dirt Roads
- - - Open Forest Roads
- Water Features
- Stand Boundary



05  
08  
17

N

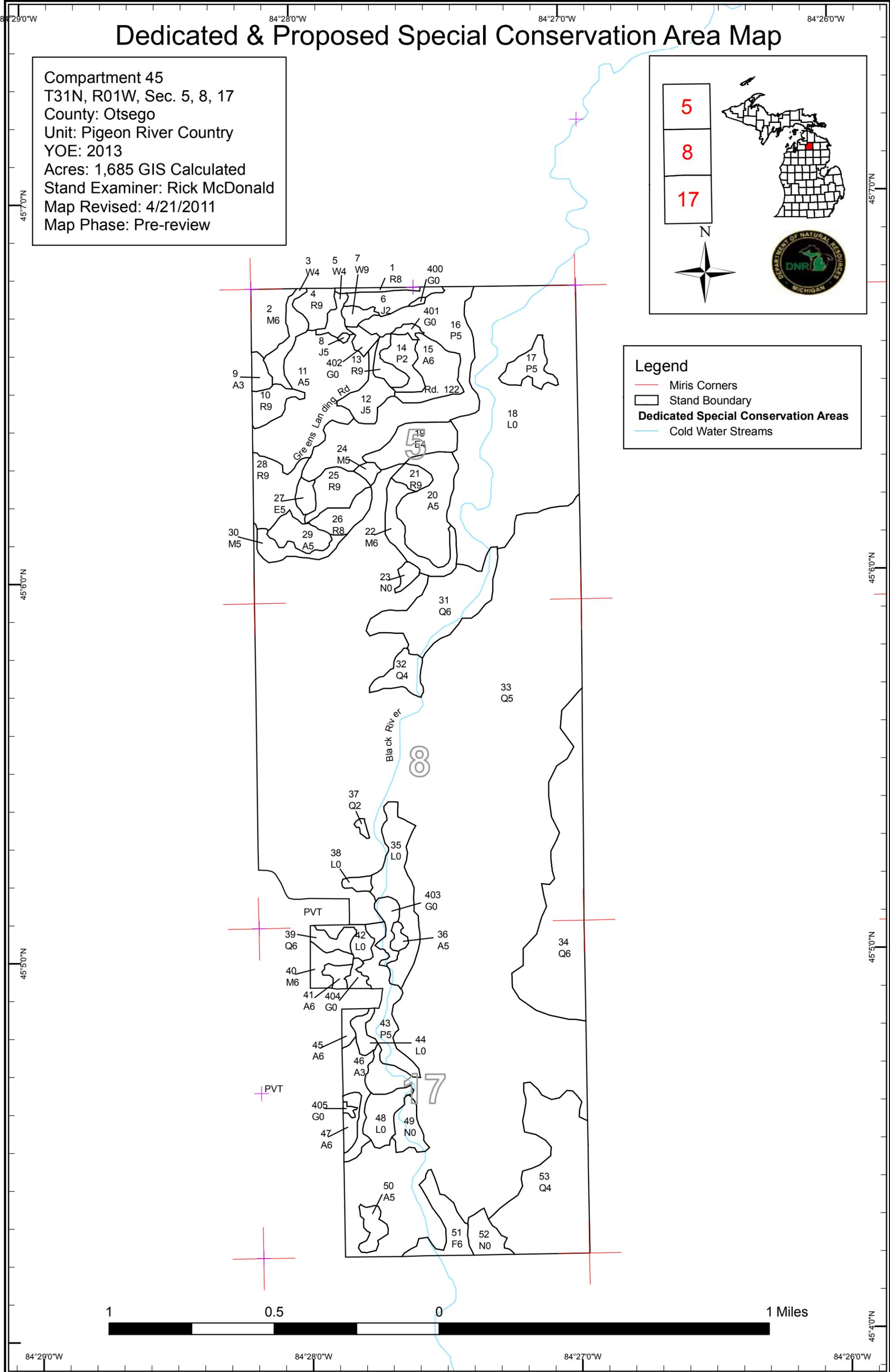
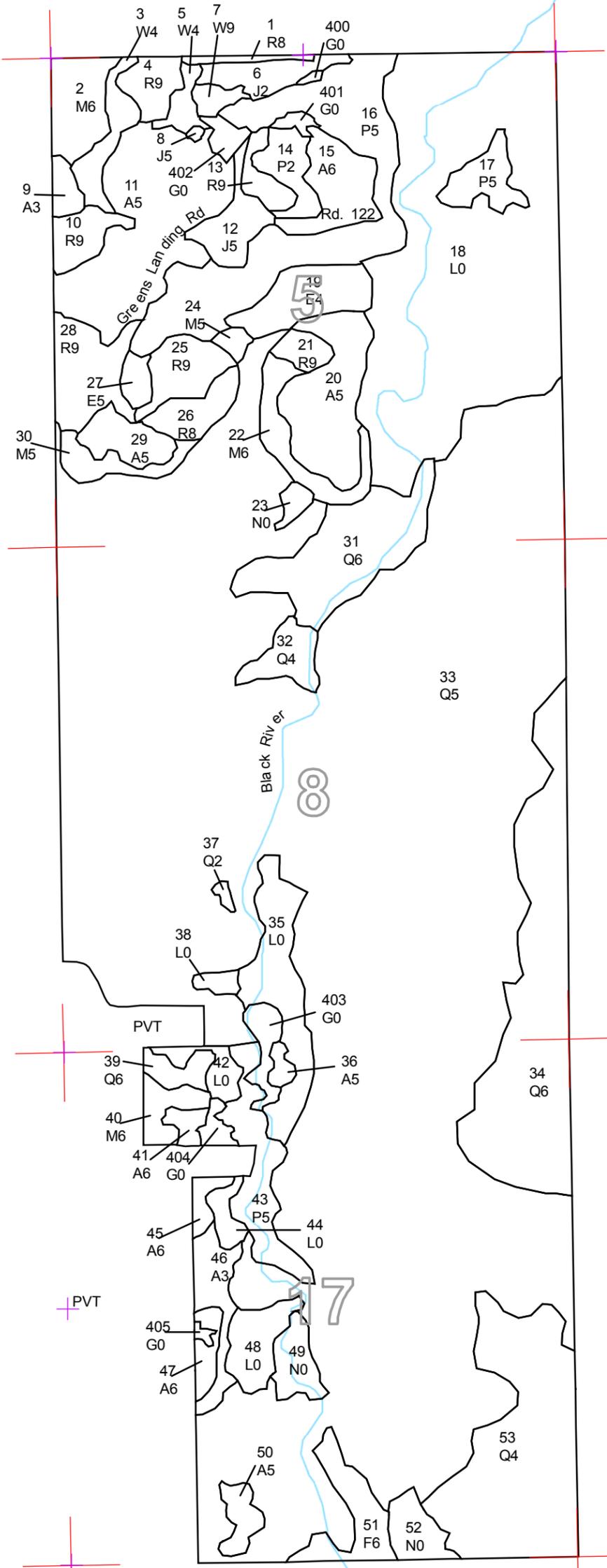


# Dedicated & Proposed Special Conservation Area Map

Compartment 45  
 T31N, R01W, Sec. 5, 8, 17  
 County: Otsego  
 Unit: Pigeon River Country  
 YOE: 2013  
 Acres: 1,685 GIS Calculated  
 Stand Examiner: Rick McDonald  
 Map Revised: 4/21/2011  
 Map Phase: Pre-review

**Legend**

- Miris Corners
- Stand Boundary
- Dedicated Special Conservation Areas
- Cold Water Streams





**DEDICATED CONSERVATION AREA DETAILS**

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.