



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

COMPARTMENT 15 ENTRY YEAR: 2010

Compartment Acreage: 1909 County: Cheboygan

Revision Date:

August 20, 2008

Stand Examiner:

Rick McDonald

Legal Description:

T33N R01W Sec. 21, 28, 33

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 to gently rolling terrain dominated by Cheboygan-Blue Lakes Association on the uplands, Tawas in the lowlands and Bowstring following the river/creek drainages.

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

Entirely state-owned lands. Primary use is recreation.

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:

The Pigeon River is designated as a Natural River.

Watershed and Fisheries Considerations:

Pigeon River and tributaries run through the compartment and is a good trout fishery.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 21, 28 and 33, T33N-R1W, Cheboygan County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State.

Afton quarry is located ten miles to the northwest. A gravel pit is located to the north and there is good potential on the uplands. This area was previously leased for oil and gas development. The Antrim Shale is present in this area and probably has potential. The Niagaran reef trend is located four miles to the southeast. There is probable gas potential for the Antrim Shale, but this does not fit with the Pigeon River management plan.

Vehicle Access:

There is good access to most, if not all, of the compartment. Most of the roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

No maintained recreational facilities exist within this compartment.

Fire Protection:

Access is poor 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

CHEBOYGAN COUNTY

COMPARTMENT: 15

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		19	292	334		42		11	61	28									787
Black Spruce									26										26
Cedar											9			13			15		37
Grass	56																		56
LowInd Brush	95			20															115
LowInd Poplr				21					100	29									150
Mx Swmp Cnfr										17		10						26	53
Red Pine									19										19
Swamp Hrdwds							13		11	24								63	111
Upland Brush				22															22
Upland Hdwds																		523	523
White Pine										10									10
Total	151	19	292	397		42	13	11	217	108	9	10		13			15	612	1909

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 15

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	787																										787
S Black Spruce		26																									26
C Cedar				37																							37
G Grass					56																						56
L Lowlnd Brush									115																		115
P Lowlnd Poplr										150																	150
Q Mx Swmp Cnfr												53															53
R Red Pine																								19			19
E Swamp Hrdwds																			111								111
U Upland Brush																								22			22
M Upland Hdwds																								523			523
W White Pine																										10	10
Total	787	26		37	56				115	150		53							111				41	523		10	1909

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: **15**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	12044 Cds	Hardwood	2621 Cds
Hardwood	1955 Mbf	Hardwood	377 Mbf
Softwood	2536 Cds	Softwood	114 Cds
Softwood	296 Mbf	Softwood	56 Mbf
Sum TotVol	19082 Cds	Sum CutVol	3601 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	356
1909			

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 15

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
21	A6	10	74	62	aspen (upland)	mature	final harvest	1			
comnts Fmd : Narrow strip of Aspen. Leave a few individual trees. Preferrably, those should be cavity trees.											
22	M6	17		60	northern hardwood	unevenaged	thinning	2			
comnts Fmd : Retain any and all cavity trees within the stand.											
34	R8	19	71	52	upland brush	mature	final harvest	1			
comnts Fmd : Leave a few trees for retention, but not many. The MO is upland brush.											
35	A5	46	70	60	aspen (upland)	mature	final harvest	1			
comnts Fmd : Scattered clones of Aspen with marginal hardwood interspersed with openings. Leave a few individual representative species, as well as, 3 - 5 clones of Aspen for retention.											
67	M6	168		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : Preserve natural cavity trees and also leave pockets of Hemlock and hardwood within those pockets for retention purposes.											
73	M6	85		60	northern hardwood	unevenaged	selection	1			
comnts Fmd : Preserve the natural cavity trees and leave the pockets of Hemlock and hardwood within the pockets for retention purposes.											
400	G0	2			grass	nonstocked		0	opening maintenance		
comnts Fmd : Old landing site											
401	G0	1			grass	nonstocked		0	opening maintenance		
comnts Fmd : Old landing site											
402	G0	5			grass	nonstocked		0	opening maintenance		
comnts Fmd : MANAGED WILDLIFE OPENING											
403	G0	16			grass	nonstocked		0	opening maintenance		
comnts Fmd : Managed wildlife opening											
405	G0	2			grass	nonstocked		0	planting		
comnts Fmd : Managed wildlife opening. Will need access with the road going through this opening when we harvest stands 21, 22, 34 and 35.											
406	G0	2			grass	nonstocked		0	opening maintenance		
comnts Fmd : We will need access through this opening to harvest timber beyond this point.											
409	G0	3			grass	nonstocked		0	planting		
comnts Fmd : MANAGED WILDLIFE OPENING											
410	G0	2			grass	nonstocked		0	opening maintenance		
comnts Fmd : Managed wildlife opening											
412	G0	3			grass	nonstocked		0	opening maintenance		
comnts Fmd : Managed wildlife opening											
415	G0	4			grass	nonstocked		0	opening maintenance		
comnts Fmd :											
Total Acres.....		385									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
68	A7	11	61	62	aspen (upland)	immature	final harvest	2		

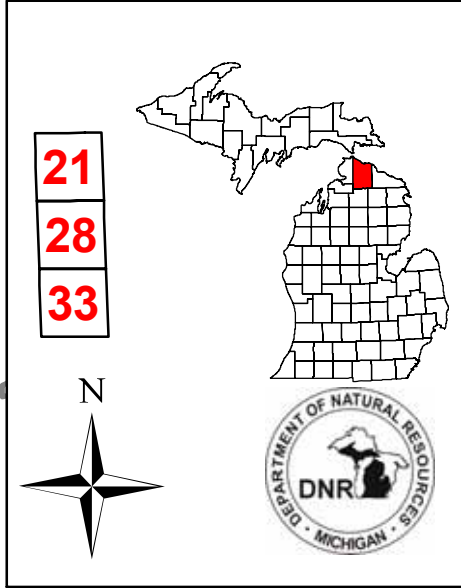
TREATMENT LIMITING FACTORS: Inadequate volume due to low stocking/small diameter/etc.

comnts Fmd : Biologists recommends cutting this to encourage new Aspen growth. Will cut with hardwood stand.

Total Acres..... 11

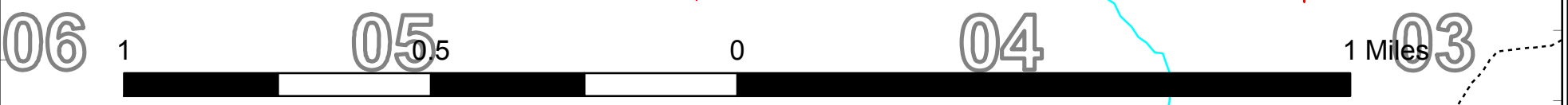
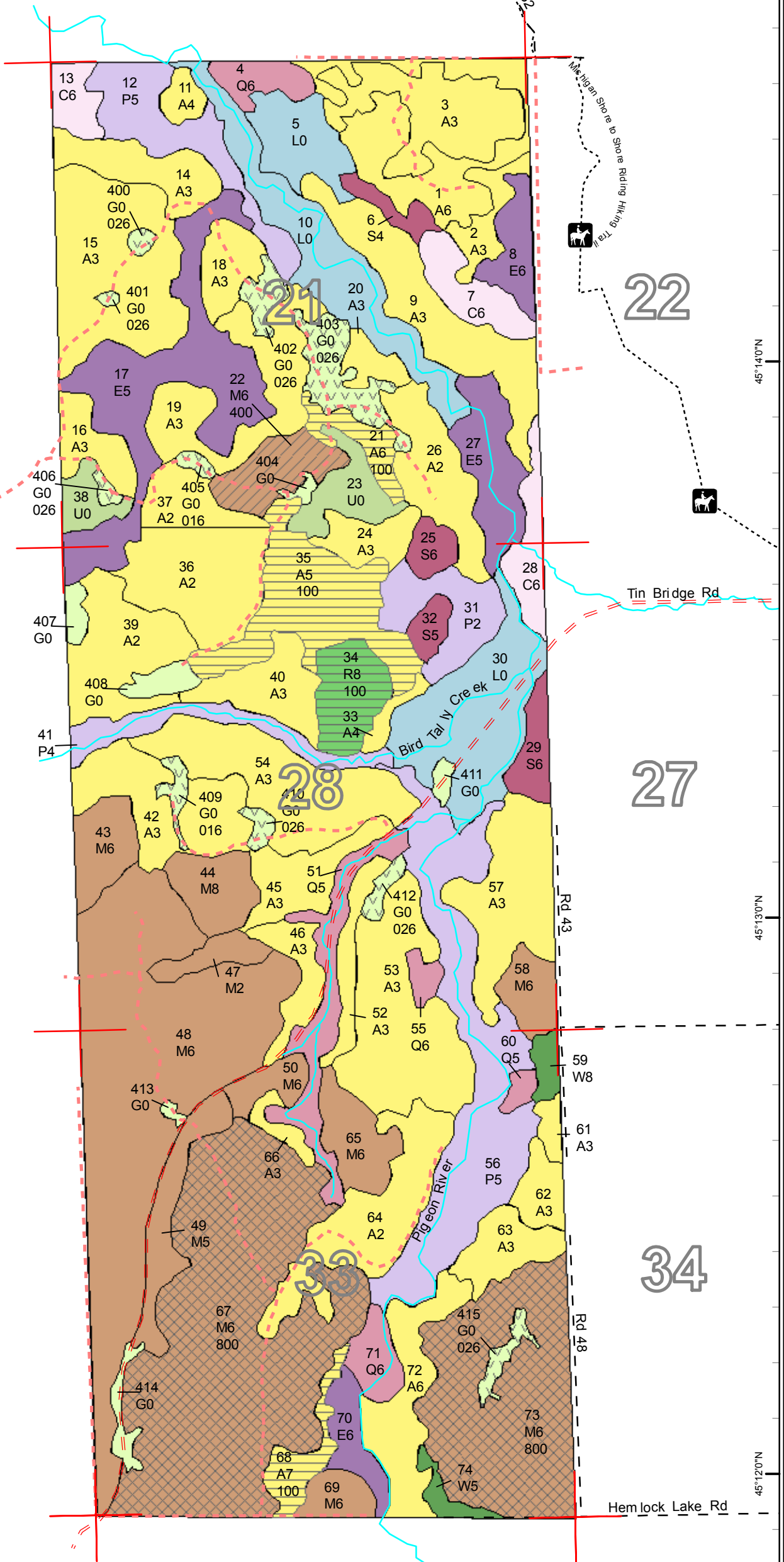
Compartment 15
 T33N, R01W, Sec. 21, 28, 33
 County: Cheboygan
 Unit: Pigeon River Country
 YOE: 2010
 Acres: 1,909 GIS Calculated
 Stand Examiner: Rick McDonald
 Map Revised: 6/04/2008
 Map Phase: Pre-review

Cover Type and Treatment



Legend

- Miris Corners
- - County Gravel Roads
- - Open Forests Roads
- - Closed Roads
- Trails
- Water Features
- 🐎 Horse Trails
- Stand Boundary
- ▨ 016 - Planting
- ▩ 026 - Opening Maintenance
- ▧ 100 - Final Harvest
- ▦ 400 - Thinning
- ▤ 800 - Selection
- A - Aspen
- C - Northern White Cedar
- E - Swamp Hardwoods
- G - Grass
- L - Lowland Brush
- M - Northern Hardwoods
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce Swamp
- U - Upland Brush
- W - White Pine



Compartment 15
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Stand Boundary Map

16

15

21
 28
 33

N

Legend

- Miris Corners
- - - County Gravel Roads
- - - Open Forests Roads
- - - Closed Roads
- - - Trails
- Water Features
- Horse Trails
- Stand Boundary

1

30

29

28

27

31

32

33

34

06

05

0.5

0

04

03

1 Miles

84°28'0"W 84°27'0"W 84°26'0"W

45°14'0"N

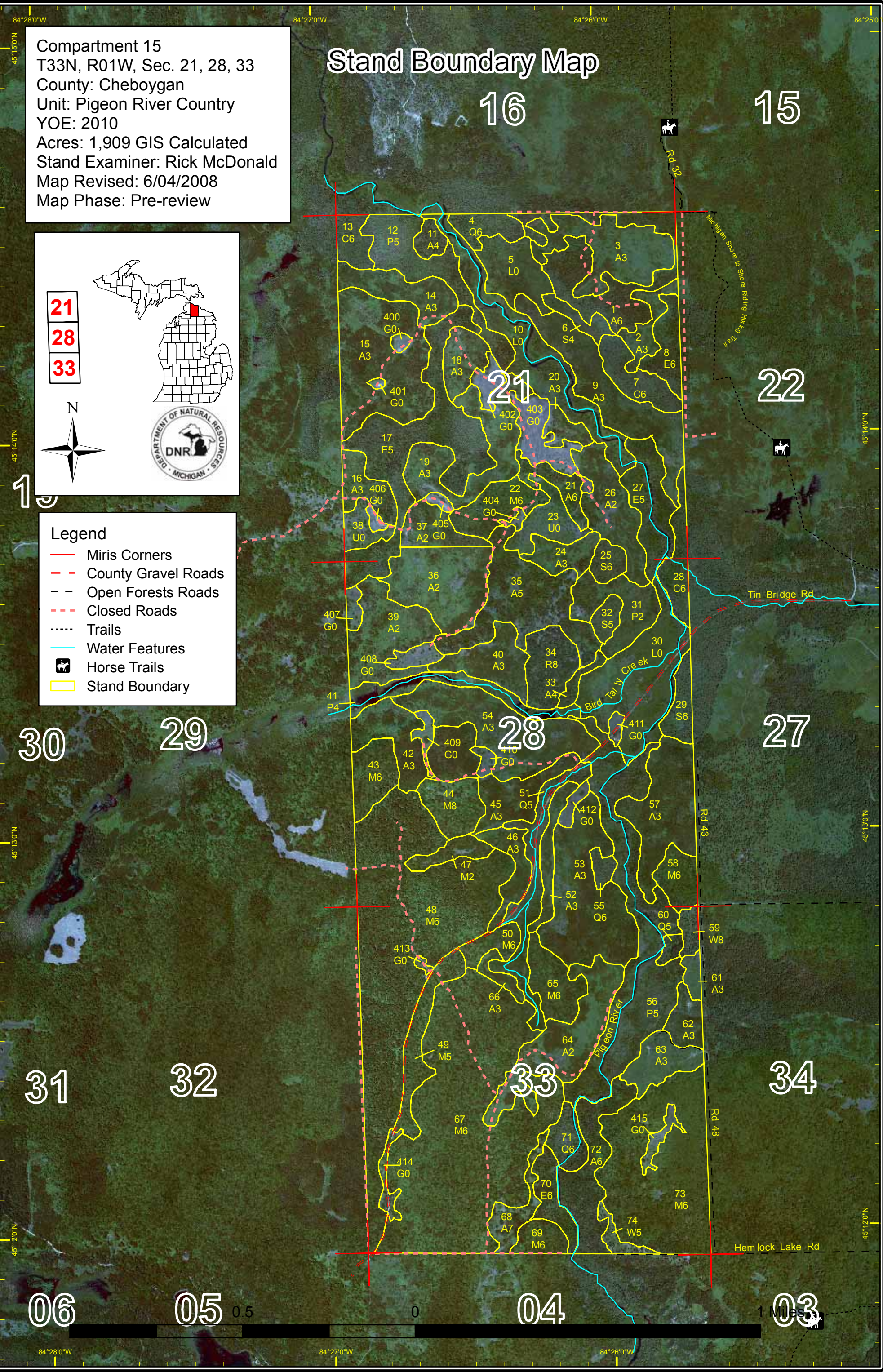
45°13'0"N

45°12'0"N

45°14'0"N

45°13'0"N

45°12'0"N



Dedicated & Proposed Special Conservation Area Map

Legend


- Miris Corners
- Stand Boundary
- Dedicated SCA**
- Cold Water Streams
- Natural Rivers Zoning District
- Natural Rivers Vegetative Buffer
- OI Special Conservation Areas



Compartment 15
 T33N, R01W, Sec. 21, 28, 33
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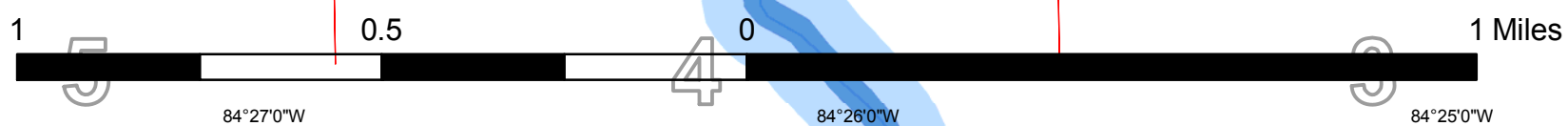
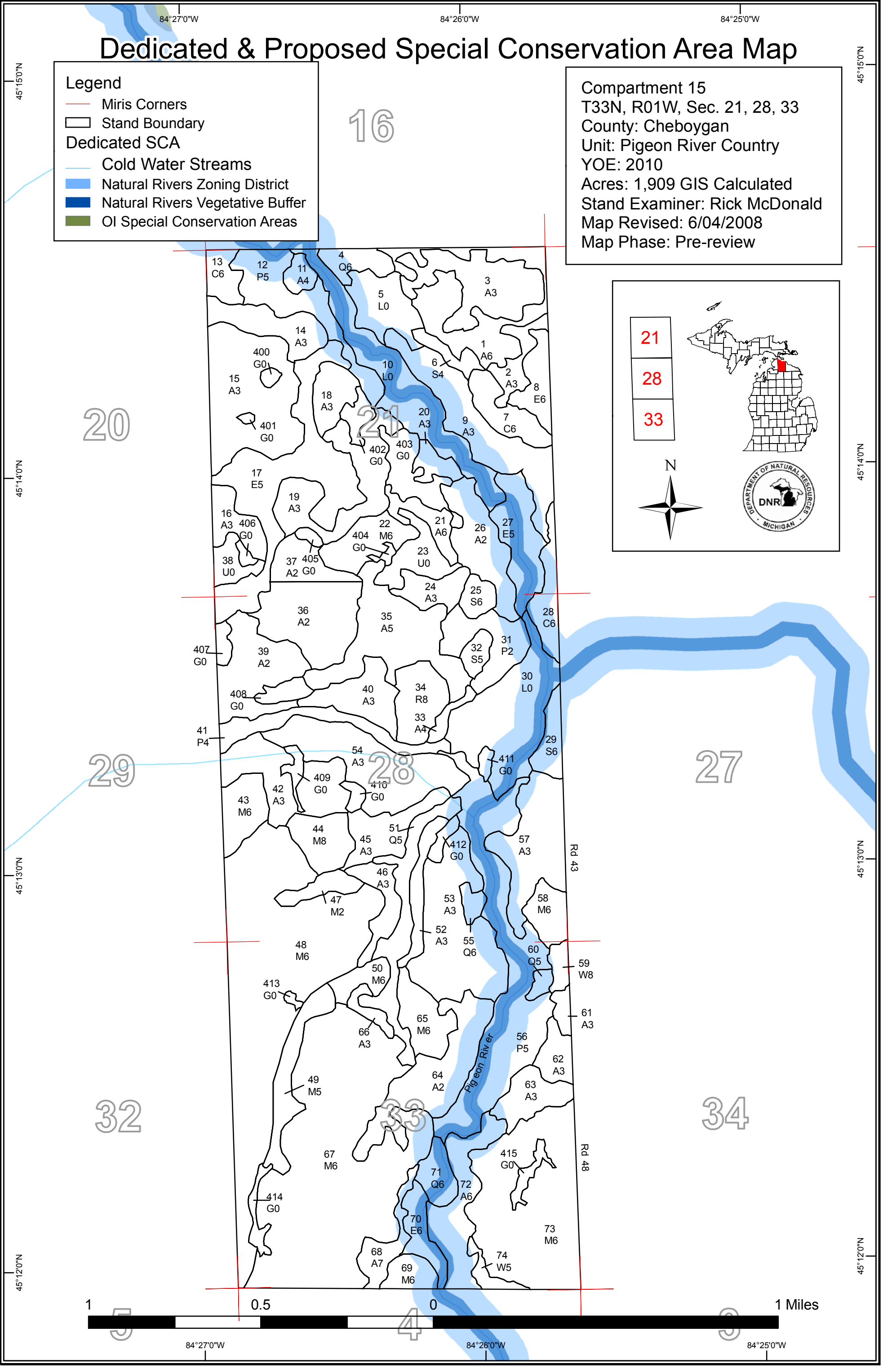
21

28

33





84°27'0"W 84°26'0"W 84°25'0"W

45°15'0"N 45°14'0"N 45°13'0"N 45°12'0"N

16 20 21 28 27 32 33 34

Rd 43 Rd 48

Pigeon River

84°27'0"W 84°26'0"W 84°25'0"W

45°15'0"N 45°14'0"N 45°13'0"N 45°12'0"N



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
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.
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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.