### **Compartment Review Presentation**

**Shingleton Forest Management Unit** 

Compartment 67
Entry Year 2015

Acreage: 1,306
County Schoolcraft

Management Area: Lake Michigan Shoreline

Revision Date: 08/06/2013

Stand Examiner: Tom Burnis

**Legal Description:** 

T41N R13W Sections 15,16,17,18

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

The goals in this compartment are to protect the integrity of the natural resource for now and future generations.

#### Soil and topography:

Topography is a sand-ridge complex bordering Lake Michigan. Predominate soils are Seney on the pine ridges and rifle in the lows.

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

Mostly state with some private fragmentation and hunting camps.

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

See MNFI data base.

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

No Archeological, Historical, or Cultural Features known.

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

The West portion of the compartment is listed as critical dunes. Most of the rest of the compartment falls under the dune and swale complex.

#### Watershed and Fisheries Considerations:

#### Wildlife Habitat Considerations:

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

Sections 15-18, and 27, T41N-R13W, Schoolcraft Co.

Surface sediments consist of lacustrine (lake) sand and gravel sometimes thin to discontinuous over bedrock. The glacial drift thickness varies between 0 and 10 feet. The Silurian Engadine and Manistique Groups subcrop below the glacial drift. The Engadine is quarried for stone to the north. Gravel pits are not located in this area and potential appears to be limited. There is no commercial oil and gas production in the UP.

#### **Vehicle Access:**

County road 431 runs north-south through the center of section 16. A two track road gives limited access into the western portion of the compartment.

#### **Survey Needs:**

None

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

There are no developed recreation facilities within this compartment.

#### Fire Protection:

May be difficult due to limited access.

#### **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** 

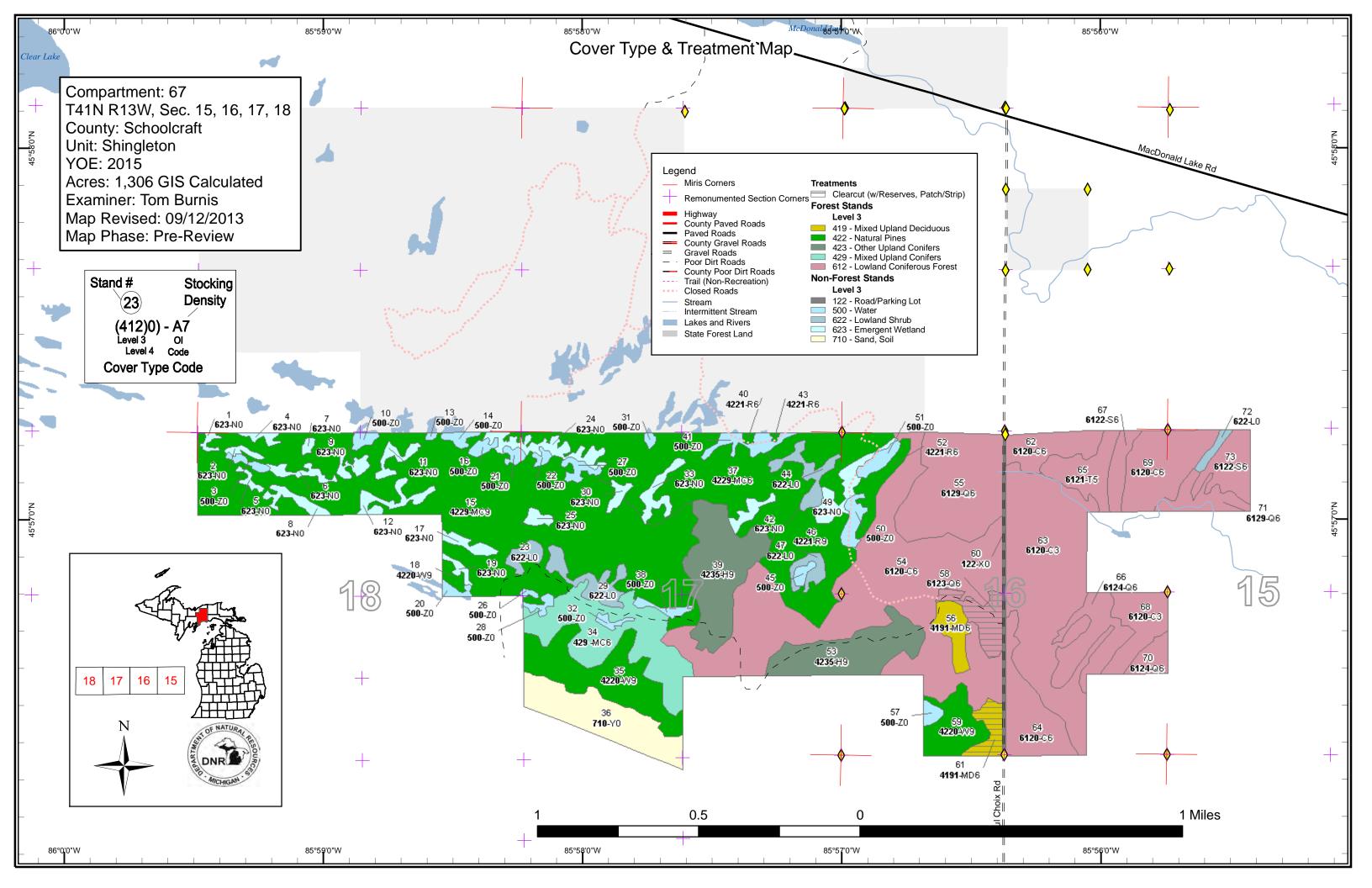
The following information is displayed, where pertinent, on the attached compartment maps:

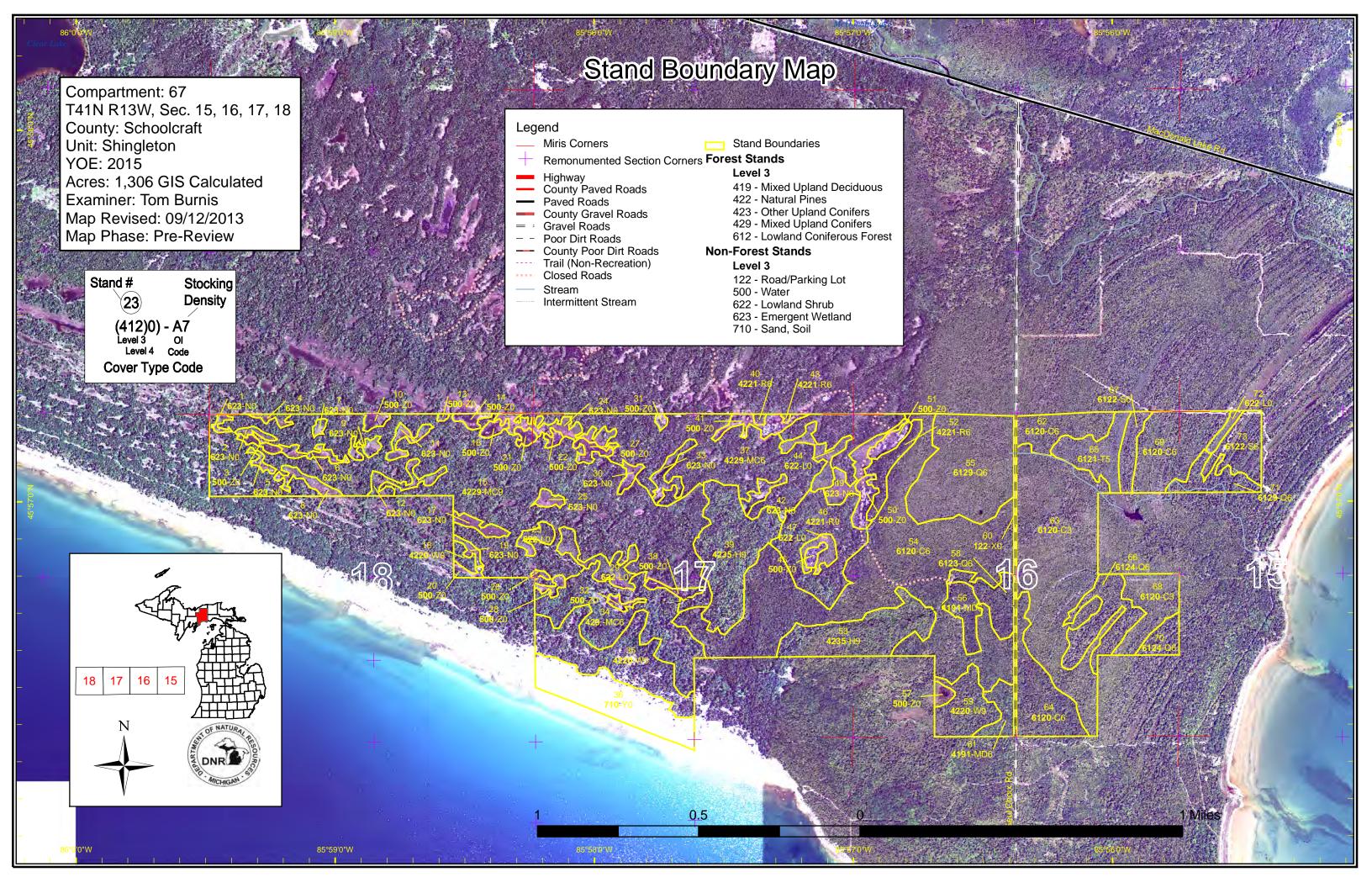
Base feature information, stand boundaries, cover types, and numbers

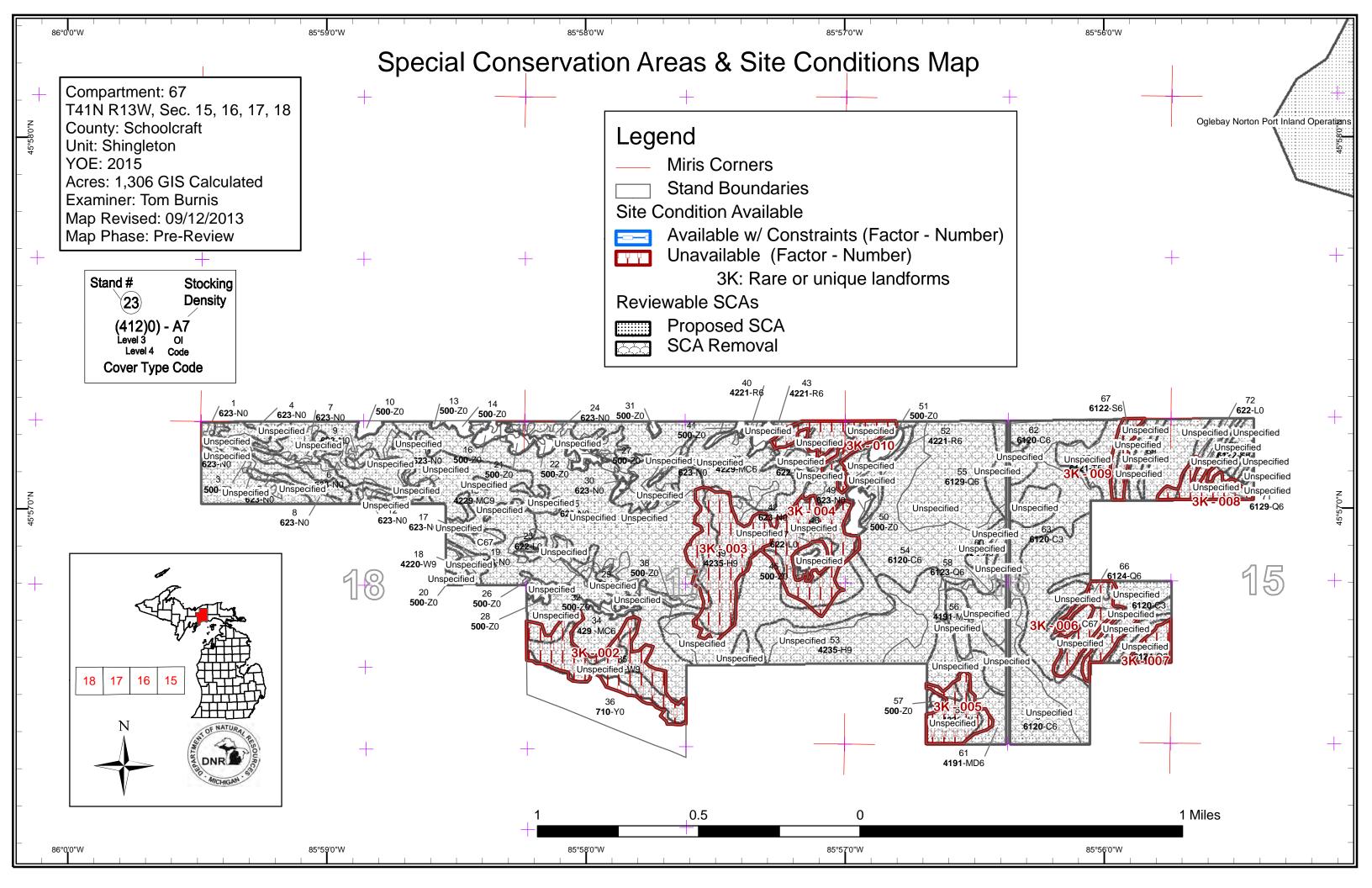
**Proposed treatments** 

Site condition boundaries

Details on the road access system







Compartment 067 Year of Entry 2015

Shingleton Mgt. Unit

Tom Burnis : Examiner



Age Class																
		6.9	70.79	P. P	, Service /	D. P.	\$5.05°	80.00	87.0	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	86.0	00,00	81,70	No Ju	1	, s <sup>t</sup>
Cedar	0	0	0	0	0	104	0	19	0	0	76	171	0	0	369	
Hemlock	0	0	0	0	0	0	0	0	0	0	0	34	44	0	78	
Jack Pine	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20	
Lowland Conifers	0	0	0	0	0	58	12	0	11	30	0	0	0	0	111	
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28	
Lowland Spruce/Fir	0	0	0	0	0	16	0	0	8	0	0	0	0	0	24	
Marsh	61	0	0	0	0	0	0	0	0	0	0	0	0	0	61	
Mixed Upland Deciduous	0	0	0	0	0	9	8	0	0	0	0	0	0	0	17	
Natural Mixed Pines	0	0	0	0	0	0	85	0	256	0	0	0	0	0	340	
Red Pine	0	0	0	0	0	0	10	0	0	0	35	0	0	0	45	
Sand, Soil	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36	
Tamarack	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17	
Upland Conifers	0	0	0	0	0	0	0	0	50	0	0	0	0	0	50	
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Water	43	0	0	0	0	0	0	0	0	0	0	0	0	0	43	
White Pine	0	0	0	0	0	0	0	0	0	0	41	20	0	0	61	
Total	174	0	0	0	0	203	115	39	325	30	152	225	44	0	1306	



## **Report 2 – Proposed Treatment Summaries**

## Shingleton Mgt. Unit Year of Entry 2015

Compartment 067
Total Compartment Acres: 1,306

### **Acres by Treatment Type**

Commercial Harvest - 20

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

		Cover Type by Harvest Method							
		/.	TO SEE SEE	To Hoole	N. S. S. S.	Sternood A	Og Og		Se de la constant de
wland Coniferous Forest		12	0	0	0	0	0	12	
xed Upland Deciduous		8	0	0	0	0	0	8	
	Total	20	0	0	0	0	0	20	

Compartment: 067 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Method Objective Name Density Range **Status** d Age Type 6123 - Lowland Fir 67 Clearcut with 6123 - Lowland Fir Cmpt. Review 58 41067058-Cut 12.2 High Harvest Reserves Density Proposal Pole Prescription Harvest all trees except white pine, hemlock and cedar. No other retention due to small acerage.

Specs:

Other Much of the fir is dead and on the ground.

Comments:

<u>Next</u> Monitor for success of regeneration. Acceptable regeneration mix of current species.

Steps:

**Proposed** 

Start Date: 10/01/2014

41067061-Cut 4191 - Mixed High 67 Harvest Clearcut with 4191 - Mixed Cmpt. Review Upland Deciduous Reserves **Upland Deciduous** Proposal Density with Conifer with Conifer

Prescription Harvest all trees except white pine, hemlock and cedar. Exclude ridge on west side as retention.

Specs:

Paper birch is starting to die out. <u>Other</u>

Comments:

Monitor for success of regeneration. Acceptable regeneration mix of current species. <u>Next</u>

Steps:

**Proposed** 

Start Date: 10/01/2014

**Total Treatment** 

20.0 Acreage Proposed:

Shingleton Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 067 a Limiting Factor s Year of Entry 2015 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Method Objective Status Name Density Age Range Type #Type! #Type! **Prescription** Specs: Other Comment: **Next** Steps: <u>Proposed</u> #Type! Start Date:

**Total Treatment** 

**Limiting Factor** 

Acreage Proposed: 0.0

Compartment 067 Year of Entry 2015

Shingleton Mgt. Unit Tom Burnis: Examiner

Availa	ability for I	Management				
Total	Acres	Acres		Domina	nt Site	Conditions
Acres	Available	Not Available		No	3K	
369	369		Cedar	369		
78	34	44	Hemlock	34	44	
20		20	Jack Pine		20	
111	70	41	Lowland Conifers	70	41	
24	16	8	Lowland Spruce/Fir	16	8	
17	17		Mixed Upland Deciduous	17		
340	340		Natural Mixed Pines	340		
45	10	35	Red Pine	10	35	
17	17		Tamarack	17		
50	50		Upland Conifers	50		
61	3	59	White Pine	3	59	
1,132	926	206	Total Forested Acres	926	206	
	82%	18%	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.

Not Available				Other Site Condition	Other Site Condition	Other Site Condition
	3K: Rare or unique landforms	41				
mments: ne and swale						
Not Available	3K: Rare or unique landforms	44				
mments: ne and Swale						
Not Available	3K: Rare or unique landforms	35				
mments: ne and Swale						
	Not Available mments: ne and Swale Not Available mments:	Not Available Imments: In and Swale  Not Available In and Swale  Not Available In and Swale  Not Available In and Swale  Swale  Not Available In and Swale	Not Available 3K: Rare or unique landforms  mments: ne and Swale  Not Available 3K: Rare or unique landforms  smments:	Not Available 3K: Rare or unique landforms  mments: ne and Swale  Not Available 3K: Rare or unique landforms  smments:	Not Available 3K: Rare or unique landforms  mments: ne and Swale  Not Available 3K: Rare or unique landforms  35 mments:	Not Available 3K: Rare or unique landforms  mments: ne and Swale  Not Available 3K: Rare or unique landforms  35  mments:

# Report 5 – Site Conditions

Shingleton Mgt. Unit
Tom Burnis: Examiner

Compartment 067 Year of Entry 2015

005 Not Available	3K: Rare or unique landforms	18
Comments: Dune and Swale		
006 Not Available	3K: Rare or unique landforms	23
Comments: Dune and Swale		
007 Not Available	3K: Rare or unique landforms	7
Comments: Dune and Swale		
008 Not Available	3K: Rare or unique landforms	11
Comments: Dune and Swale		
009 Not Available	3K: Rare or unique landforms	8
Comments:		
010 Not Available	3K: Rare or unique landforms	20
Comments:		

Shingleton Mgt. Unit

Compartment: 067 Year of Entry: 2015



### Report 6 - 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				
C67	Potential Old Growth	SCA Removal						
Comments								
Does not meet old growth criteria								

Shingleton Mgt. Unit

Compartment: 067
Year of Entry 2015



## Report 7 - 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.

Conservati Area	ion Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical sites of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settler and British outposts, nineteenth century logging camps, mines the Great Lakes, there are shipwrecks and other remains documbe identified by Natural heritage data from the State Historic Prethis compartment will be implemented in such a manner as to me the sensitive nature of this information, no further detail about lo	terrestrial areas and Great Lakes ments and burial sites, as well as French and homesteads. Beneath the waters of menting the maritime trade. Such sites may eservation Office. Proposed treatments in aintain the integrity of these sites. Due to
SCA	Habitat Area	An area that provide some specific need for the life cycle of wild and Waterfowl Production Areas, deer wintering complexes in loopenings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened of covered by species recovery plans that are developed in cooper	owland conifer communities, grassland nabitat designated for recovery of r piping plover areas) in that they are more or endangered species, and are not
HCVA	Critical Dunes	Critical dune areas are established via the public legislative produce Dune Protection and Management, of the Natural Resources and 451. The program is administered by the Michigan Department current distribution of designated critical dunes is established by Areas.	d Environmental Protection Act, 1994 PA of Environmental Quality (DEQ). The
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natural context of their natural community classification system. Element (Excellent) or B (Good) and a Global (G) or State (S) element (rathreatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations managed for restoration and maintenance of natural ecological submit recommendations for lands as ERAs using the DNR Corrections.	al Features Inventory (MNFI) within the at Occurrences with viability ranks of A arity) ranking of endangered (1), and may be located upon any ownership in of natural community types that are processes and values. The public may

s t	Shingleton Mgt. Unit			Report 8	<ul><li>Forested</li></ul>	Stands Compartment: 067 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	42290 - Natural Mixed Pine	High Density Log	255.6	86	111-140	Large stand of mixed pine, mostly white pine. Cannot determine smaller stand types from photo. Non forested ares lumped into this stand that are too numerous and small to type out.
18	42200 - Natural White Pine	High Density Log	2.6	111	81-110	
34	429 - Mixed Upland Conifers	High Density Pole	50.0	83	81-110	
35	42200 - Natural White Pine	High Density Log	41.0	109	51-80	New stand added.
37	42290 - Natural Mixed Pine	High Density Pole	84.6	66	141-170	
39	42350 - Upland Hemlock	High Density Log	43.7	169		
40	42210 - Natural Red Pine	High Density Pole	0.7	60	51-80	
43	42210 - Natural Red Pine	High Density Pole	0.4	60	51-80	
46	42210 - Natural Red Pine	High Density Log	35.3	101	81-110	
48	42220 - Natural Jack Pine	High Density Pole	19.9	70		
52	42210 - Natural Red Pine	High Density Pole	9.0	63	111-140	
53	42350 - Upland Hemlock	High Density Log	34.2	118		
54	6120 - Lowland Cedar	High Density Pole	170.7	111		
55	6129 - Mixed Coniferous Lowland Forest	High Density Pole	57.7	57		
56	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	9.4	57		
58	6123 - Lowland Fir	High Density Pole	12.2	67		Much of the fir is dead and on the ground.
59	42200 - Natural White Pine	High Density Log	17.6	110	81-110	New stand added.
61	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	7.8	67		

s t	Shingletor	Shingleton Mgt. Unit			- Forested Stands	Compartment: 067 Year of Entry: 2015	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
62	6120 - Lowland Cedar	High Density Pole	16.7	108			
63	6120 - Lowland Cedar	High Density Sapling	103.7	57			
64	6120 - Lowland Cedar	High Density Pole	27.6	108			
65	6121 - Tamarack	Medium Density Pole	16.8	57			
66	6124 - Lowland Spruce- Fir	High Density Pole	22.7	92			
67	6122 - Black Spruce	High Density Pole	8.0	82		Dune and swale	
68	6120 - Lowland Cedar	High Density Sapling	18.8	74		Poor quality cedar.	
69	6120 - Lowland Cedar	High Density Pole	32.0	105			
70	6124 - Lowland Spruce- Fir	High Density Pole	6.9	92			
71	6129 - Mixed Coniferous Lowland Forest	High Density Pole	11.4	89		Dune and swale	
73	6122 - Black Spruce	High Density Pole	15.6	55		Dune and swale.	

Compartment: 067 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	M/CHIGAN
1	623 - Emergent Wetland	1.2	Unspecified	Unspecified		
2	623 - Emergent Wetland	1.6	Unspecified	Unspecified		
3	50 - Water	1.9	Unspecified	Unspecified		
4	623 - Emergent Wetland	1.7	Unspecified	Unspecified		
5	623 - Emergent Wetland	1.4	Unspecified	Unspecified		
6	623 - Emergent Wetland	3.1	Unspecified	Unspecified		
7	623 - Emergent Wetland	1.0	Unspecified	Unspecified		
8	623 - Emergent Wetland	4.2	Unspecified	Unspecified		
9	623 - Emergent Wetland	2.7	Unspecified	Unspecified		
10	50 - Water	2.0	Unspecified	Unspecified		
11	623 - Emergent Wetland	3.4	Unspecified	Unspecified		
12	623 - Emergent Wetland	5.6	Unspecified	Unspecified		
13	50 - Water	0.4	Unspecified	Unspecified		
14	50 - Water	2.2	Unspecified	Unspecified		
16	50 - Water	2.0	Unspecified	Unspecified		
17	623 - Emergent Wetland	3.5	Unspecified	Unspecified		
19	623 - Emergent Wetland	1.7	Unspecified	Unspecified		
20	50 - Water	1.7	Unspecified	Unspecified		

Compartment: 067 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
21	50 - Water	1.7	Unspecified	Unspecified	
22	50 - Water	1.3	Unspecified	Unspecified	
23	622 - Lowland Shrub	3.9	Unspecified	Unspecified	
24	623 - Emergent Wetland	9.1	Unspecified	Unspecified	
25	623 - Emergent Wetland	2.2	Unspecified	Unspecified	
26	50 - Water	0.7	Unspecified	Unspecified	
27	50 - Water	2.9	Unspecified	Unspecified	
28	50 - Water	1.8	Unspecified	Unspecified	
29	622 - Lowland Shrub	9.9	Unspecified	Unspecified	
30	623 - Emergent Wetland	2.1	Unspecified	Unspecified	
31	50 - Water	0.9	Unspecified	Unspecified	
32	50 - Water	1.6	Unspecified	Unspecified	
33	623 - Emergent Wetland	5.2	Unspecified	Unspecified	
36	710 - Sand, Soil	36.1	Unspecified	Unspecified	
38	50 - Water	2.5	Unspecified	Unspecified	
41	50 - Water	6.2	Unspecified	Unspecified	
42	623 - Emergent Wetland	3.3	Unspecified	Unspecified	
44	622 - Lowland Shrub	7.8	Unspecified	Unspecified	

Compartment: 067 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
45	50 - Water	1.8	Unspecified	Unspecified	
47	622 - Lowland Shrub	4.4	Unspecified	Unspecified	
49	623 - Emergent Wetland	8.4	Unspecified	Unspecified	
50	50 - Water	4.9	Unspecified	Unspecified	
51	50 - Water	3.9	Unspecified	Unspecified	
57	50 - Water	2.2	Unspecified	Unspecified	
60	122 - Road/Parking Lot	5.4	Unspecified	Unspecified	
72	622 - Lowland Shrub	2.5	No	Unspecified	