Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 57
Entry Year 2016

Acreage: 1,385

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 10/28/2014

Stand Examiner: Jeff Autenrieth

Legal Description:

T31N R4E Sec. 16, 19-21

Identified Planning Goals:

Manage recreation, timber and wildlife.

Soil and topography:

Mostly level upland with Jack and Red Pine. Mostly a PVCd, except for the north east area and small areas along Pleasant Valley Rd., which are swamp and or drainage. Most soils are very sandy except along the watershed from Brush Creek.

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

The western portion is mostly in State ownership, where the east portion of the compartment has a subdivision (Pine Oaks Subdivision) along its boundary. Trespasses have been discovered, mostly the trail construction type, and have, for the most part, been corrected. Trash dumping is a common practice in this compartment, most has been removed by D.N.R. staff and the Hillman Boy Scouts.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Kirtlands Warbler have been recorded in this compartment.

Watershed and Fisheries Considerations:

Brush Creek is a cold water stream.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species found in this compartment. These species include ruffed grouse, black bear, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest, the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale. The Antrim is quarried for clay/shale elsewhere in the State. A gravel pit is located in Section 20 and potential is good. Part of the compartment has been drilled and is producing from the Antrim Shale.

Vehicle Access:

Pleasant Valley Rd. / Co. Rd. 487, Pine Oaks Rd., Brush Creek Truck Trail and Miller Creek Rd. are all county roads.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Brush Creek Snowmobile trail along with the Hillman Connector and the Brush Creek ORV Route travel east and west through the compartment. Deer hunting is popular in this area.

Fire Protection:

Several fires have been recorded in this compartment, initial attack is usually provided by the Hillman V.F.D., Hillman is only 5 minutes to the east. Most cover types are dry jack pine, or have some jack pine in them. There is a lot of younger pine in this compartment.

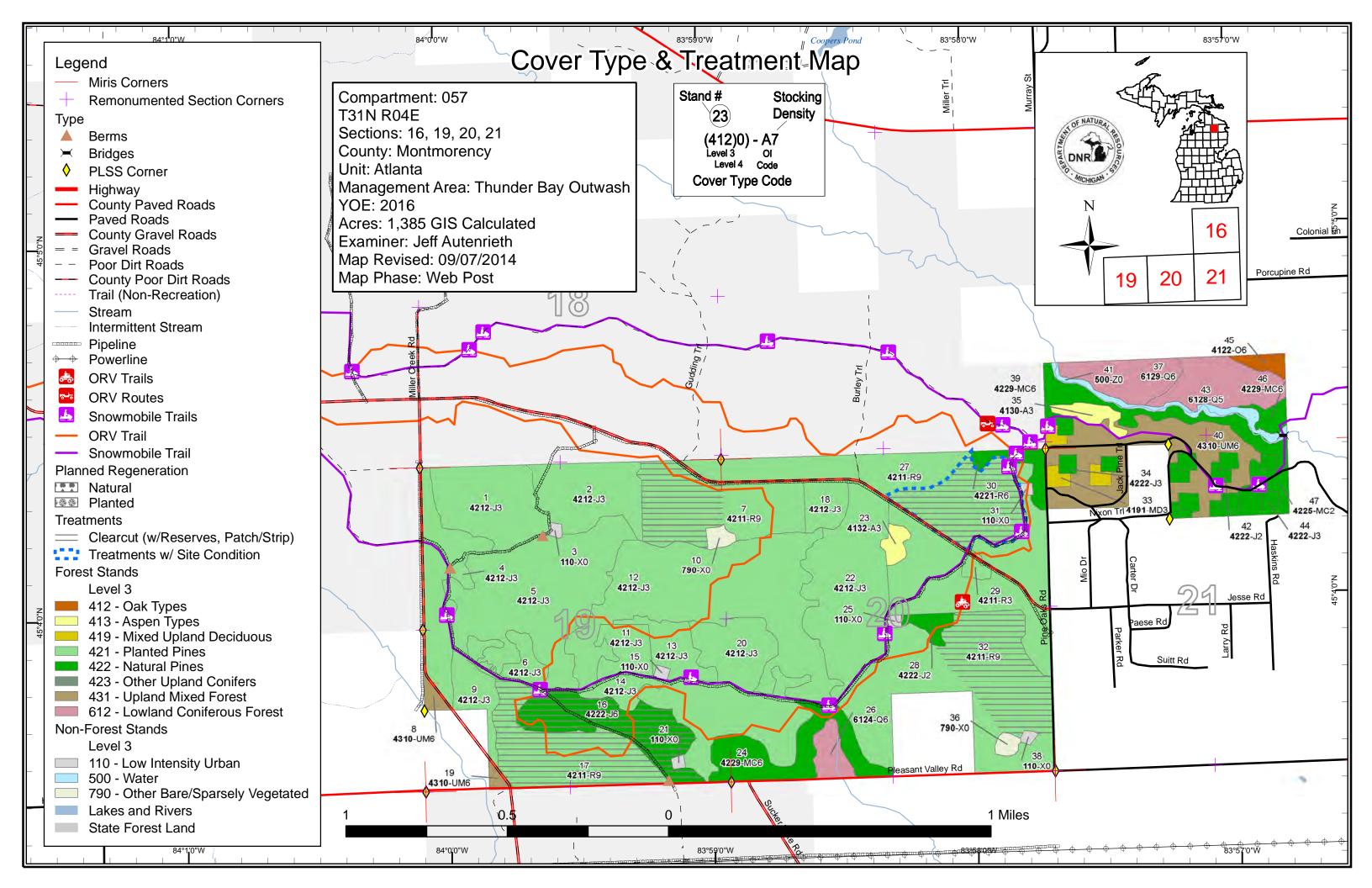
Additional Compartment Information:

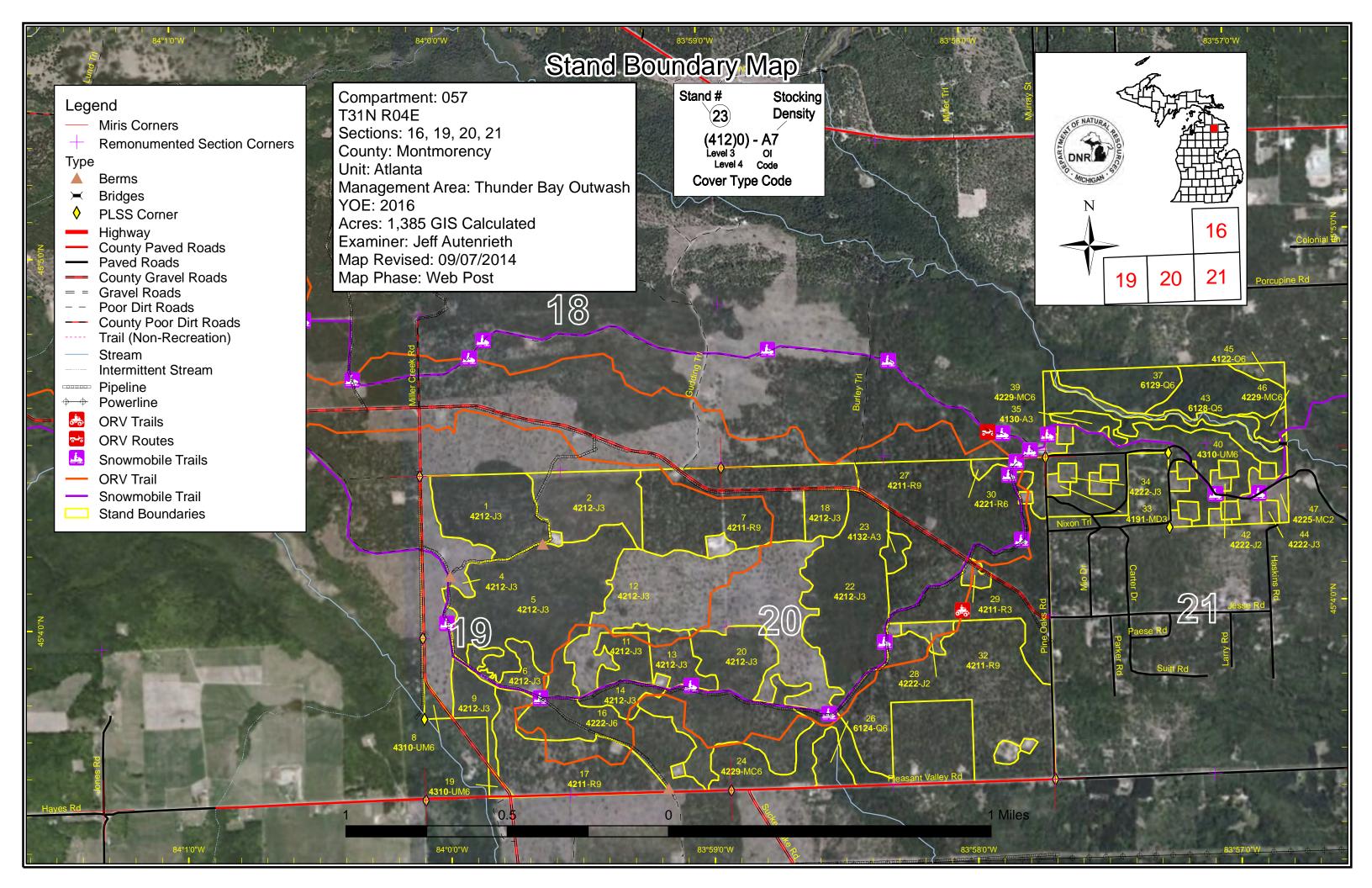
The following reports from the Inventory are attached:

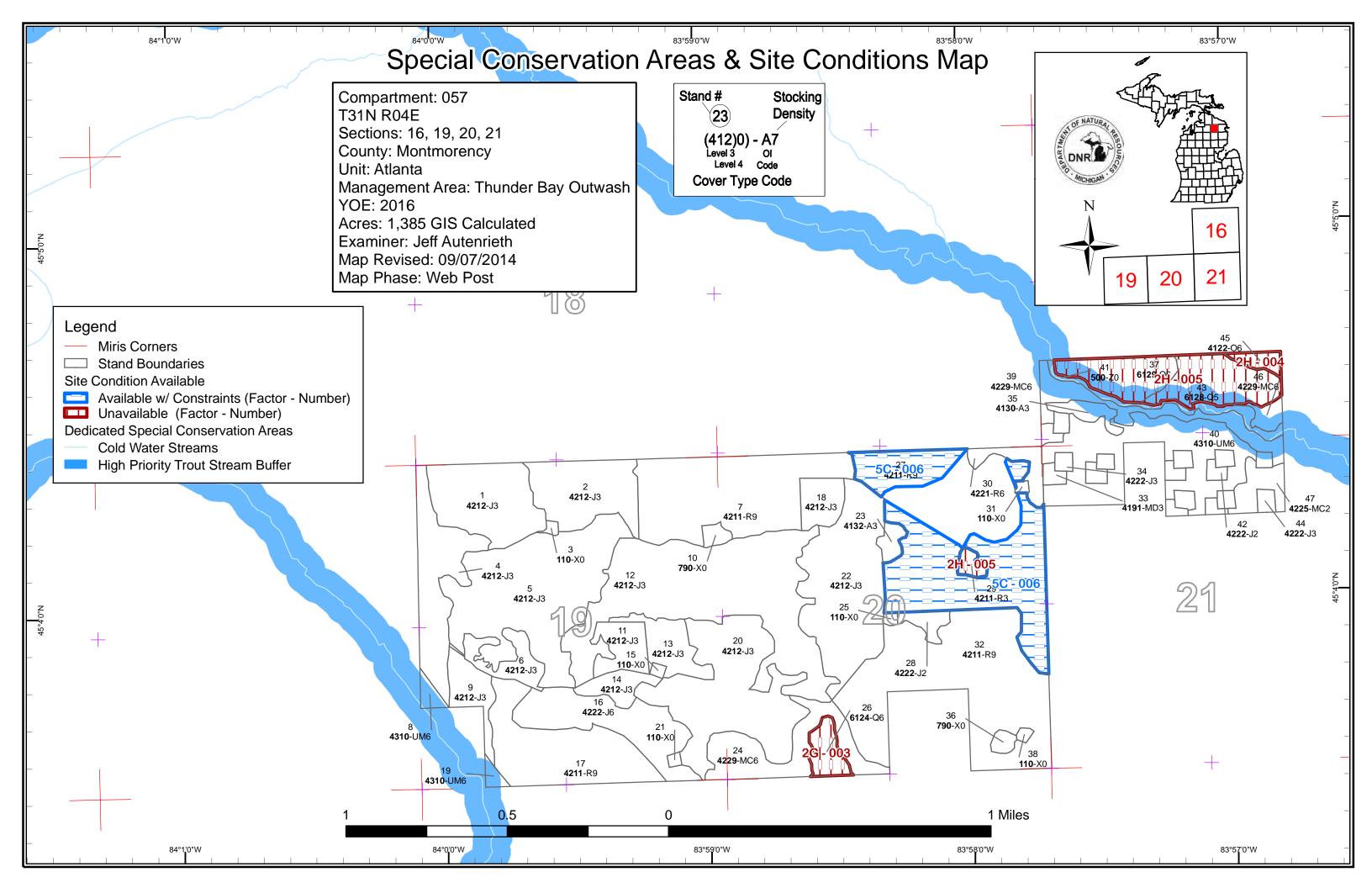
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 057 Year of Entry 2016

Atlanta Mgt. Unit

Jeff Autenrieth: Examiner



Age Class New Age 70,79 70,709 10.0 20.28 % % ⁶0, % × × Aspen Bare/Sparsely Vegetated Jack Pine **Lowland Conifers** Mixed Upland Deciduous Natural Mixed Pines Oak Red Pine Upland Mixed Forest Urban Water Total



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit Year of Entry 2016

Natural Pines

Planted Pines

Compartment 057 Total Compartment Acres: 1,385

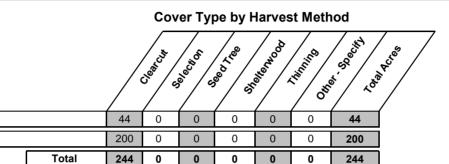
Acres by Treatment Type

Commercial Harvest - 244 Tree Planting - 200

Other - 0

Habitat Cut - 0

Opening Maintenance - 0



Atlanta Mgt. Unit S

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 057 Year of Entry 2016

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	54057007- Cut_small	36.6	42110 - Planted Red Pine	High Density Log	74)	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Final harvest. Cut area south of Brush Creek Truck Trail, and west of access road to compression facility. Leave 3-10% of sale acres as

retention. Chip all tops. Use 2" spec. Specs:

Other Comments:

Next Trench and plant to red pine. Acceptable regen can be of medium/well stocked red pine.

Steps:

Proposed

10/01/2015 Start Date:

16 54057016-Cut 44.4 42220 - Natural High 55 81-110 Harvest Clearcut 4310 - Pine, Oak Cmpt. Review Jack Pine Density Mix Proposal

Pole

Prescription Final harvest. Leave 3-10% rentention in a pocket.

Specs:

Other Comments:

<u>Next</u> Trench and plant to jack pine. Acceptable regen can be of medium/well stocked pine, oak and aspen.

Steps:

Proposed

Start Date: 10/01/2015

54057017-Cut 58.8 42111 - Planted High 141-170 Harvest Clearcut 4211 - Planted Red Cmpt. Review Pine Proposal

Red Pine, Mixed **Density Log**

Deciduous

Prescription Final harvest. Cut north half of stand. Leave 3-10% retention as a pocket.

Specs:

<u>Other</u> Use standard trail specs.

Comments:

Trench and plant red pine. Acceptable regen can be of medium/well stocked red pine and oak. <u>Next</u>

Steps:

Proposed

10/01/2015 Start Date:

32 54057032-57.7 42111 - Planted High 77 81-110 Harvest Clearcut 4211 - Planted Red Cmpt. Review Cut_small Red Pine, Mixed **Density Log** Pine Proposal

Deciduous

Prescription Final harvest. Cut 1/4 of stand acreage. Leave 3-10% retention as a pocket. Cut north part of stand to buffer roads.

Specs:

<u>Other</u> Comments:

Next Trench and plant red pine. Acceptable regen can be of medium/well stocked red pine and oak.

Steps:

Proposed

Start Date: 10/01/2015

Total Treatment

197.5 **Acreage Proposed:**

Atlanta Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 057 a Site Condition S Year of Entry 2016 t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** n Method Name **Density** Range Objective **Status** d Age Type 46.7 42110 - Planted High 77 171-Clearcut 4211 - Planted Red Cmpt. Review 27 54057027-Harvest Red Pine Cut_small_sm Density Log 200 Pine Proposal all

Prescription Final harvest. Leave 3-10% retention in a pocket. Cut 1/4 of stand acreage.

Specs:

Other Use standard trail specs.

Comment:

Next Trench and plant red pine. Acceptable regen can be of medium/well stocked red pine and oak.

Steps:

Proposed

<u>Start Date:</u> 10/01/2015

Limiting Factor 5C: Delay treatment for age/size class diversity or exceptional site quality

Total Treatment

Acreage Proposed: 46.7

Atlanta Mgt. Unit

Jeff Autenrieth: Examiner

Compartment 057 Year of Entry 2016

Availa	ability for I	Vlanagement					
Total	Acres	Acres		Domina	nt Site	Cone	ditions
Acres	Available	Not Available		No	5C	2H	2G
12	12		Aspen	12			
688	688		Jack Pine	688			
64		64	Lowland Conifers			54	10
7	7		Mixed Upland Deciduous	7			
75	75		Natural Mixed Pines	75			
5		5	Oak			5	
439	435	4	Red Pine	326	109	4	
71	71		Upland Mixed Forest	71			
1,360	1,287	72	Total Forested Acres	1,179	109	62	10
	95%	5%	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.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10				
	Comments: Stand has wet soils,	and also buffers creek.					
004	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	2B: Unknown if access through adjacent landowner(s) is possible			
(Comments:						
005	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	58	2B: Unknown if access through adjacent landowner(s) is possible	2G: Too wet (sensitive soils, does not include access issues)		
	Comments: Stand is blocked on	the south, west, and east sid	e by the	river, and on the north by p	private land.		

Report 5 – Site Conditions

Atlanta Mgt. Unit

Jeff Autenrieth: Examiner

Compartment 057 Year of Entry 2016

006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	109
Co	mments:		

Atlanta Mgt. Unit

Compartment: 057 Year of Entry: 2016

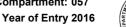


Report 6 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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
Comments				

Atlanta Mgt. Unit Compartment: 057





Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservatio Area	n 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 bottomlands. They include thousands of Native American settle and British outposts, nineteenth century logging camps, mines the Great Lakes, there are shipwrecks and other remains docube identified by Natural heritage data from the State Historic Pr this compartment will be implemented in such a manner as to not the sensitive nature of this information, no further detail about the	terrestrial areas and Great Lakes ements 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 naintain the integrity of these sites. Due to
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen constocked trout populations and those of other coldwater fish speyear to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	cies (e.g., slimy sculpin) to persist from lese conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their eff as aesthetics, habitat, bank stability, timber production, and the	he unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well

S t	Atlanta	a Mgt. Unit		Report 8	Forested	Stands	Compartment: 057 Year of Entry: 2016		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN . S	
1	42120 - Planted Jack Pine	High Density Sapling	46.4	33					
2	42120 - Planted Jack Pine	High Density Sapling	40.0	16					
4	42120 - Planted Jack Pine	High Density Sapling	42.5	6					
5	42120 - Planted Jack Pine	High Density Sapling	105.7	21					
6	42120 - Planted Jack Pine	High Density Sapling	14.2	20					
7	42110 - Planted Red Pine	High Density Log	87.1	74	141-170				
8	4310 - Pine, Oak Mix	High Density Pole	3.5	73	81-110		nificantly. Adjacent stand to d very wet. "Q" type.	o the west is	
9	42120 - Planted Jack Pine	High Density Sapling	14.7	26					
11	42120 - Planted Jack Pine	High Density Sapling	14.8	20					
12	42120 - Planted Jack Pine	High Density Sapling	132.4	5					
13	42120 - Planted Jack Pine	High Density Sapling	17.5	20		Trenched and planted u	nder red pine leave trees. regen.	No red pine	
14	42120 - Planted Jack Pine	High Density Sapling	10.4	21		Ne	w stand added.		
16	42220 - Natural Jack Pine	High Density Pole	44.4	55	81-110				
17	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	58.8	64	141-170	Jacl	c pine removal cut.		
18	42120 - Planted Jack Pine	High Density Sapling	12.5	37		Faild part of plantation	? 7 yrs younger than adjad	cent stand.	
19	4310 - Pine, Oak Mix	High Density Pole	2.5	74	51-80				
20	42120 - Planted Jack Pine	High Density Sapling	84.0	23		b	udworm cut '91		
22	42120 - Planted Jack Pine	High Density Sapling	78.2	44					

s t	Atlanta	Mgt. Unit		Report 8	Forested	Stands Compartment: 057 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4132 - Aspen, Jack Pine	High Density Sapling	4.9	33		Aspen clone result from adjacent harvest.
24	42290 - Natural Mixed Pine	High Density Pole	35.9	45	111-140	
26	6124 - Lowland Spruce- Fir	High Density Pole	10.1	105		
27	42110 - Planted Red Pine	High Density Log	155.7	77	171-200	Aspen in pockets. Possible species removal cut in past.
28	42220 - Natural Jack Pine	Medium Density	5.8	21		
29	42110 - Planted Red Pine	High Density Sapling	3.8	16		Stand swapped from Non-Forested to Forested. Good oak recruits.
30	42210 - Natural Red Pine	High Density Pole	10.0	57	1-50	New stand added. Red pine left after harvest. Regeneration from coppice.
32	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	124.3	77	81-110	Previous species removal harvest. Aspen clones regenerating in pockets where over story was removed. Density of remaining trees varies significantly.
33	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	6.9	17		5 spot.
34	42220 - Natural Jack Pine	High Density Sapling	5.6	7		
35	4130 - Aspen	High Density Sapling	6.8	28		
37	6129 - Mixed Coniferous Lowland Forest	High Density Pole	23.6	94		Very wet area. Limited access. No access through state land other than by foot. There are some drainages and areas of standing water. Steep slopes down to river. Some blowdown, and slash in areas. Old trail coming from private land.
39	42290 - Natural Mixed Pine	High Density Pole	23.2	94	51-80	Steep slopes down to river. Check cold stream requirements.
40	4310 - Pine, Oak Mix	High Density Pole	64.7	79	81-110	Very old poor quality oak. 5 spots showed ok oak regeneration.
42	42220 - Natural Jack Pine	Medium Density	7.2	7		
43	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	30.2	94		Cherry/aspen saplings on edges and few small high areas. Stand has flowing/standing water. Mostly wet. Cedar is in pockets. Most of stand has tag alder understory component.
44	42220 - Natural Jack Pine	High Density Sapling	12.1	17		

s t	Atlant		Report 8	Forested	Stands Compartment: 057 Year of Entry: 2016	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4122 - Oak, Pine	High Density Pole	4.8	85	81-110	
46	42290 - Natural Mixed Pine	High Density Pole	5.0	70	111-140	The best jack pine I've seen in the Atlanta unit. Snowmobile trail cuts stand.
47	42250 - Pine, Oak	Medium Density	11.2	7		

Report 9 - Nonforested Stands

Compartment: 057 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	11 - Low Intensity Urban	1.1	No	Unspecified	Well pad
10	790 - Other Bare/Sparsely Vegetate	3.3	No	Unspecified	
15	11 - Low Intensity Urban	1.1	No	Unspecified	Well pad
21	11 - Low Intensity Urban	1.0	No	Unspecified	Well pad
25	11 - Low Intensity Urban	1.0	No	Unspecified	Well pad
31	11 - Low Intensity Urban	1.0	No	Unspecified	Well pad
36	790 - Other Bare/Sparsely Vegetate	2.9	No	Unspecified	Frost pocket.
38	11 - Low Intensity Urban	1.1	Unspecified	Unspecified	Well pad
41	50 - Water	10.6	No	Unspecified	Brush Creek