

Report 1 – Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 141
Entry Year 2015
Acreage: 1,904

County Kalkaska

Management Area: Manistee River Valley

Revision Date: 04/26/2013

Stand Examiner: Kelly

Standerfer

Legal Description:

T25N R5W, Sections 16, 17 & 18.

Identified Planning Goals:

Maintain healthy, diverse vegetation that includes productive timber stands and essential habitat for a wide range of plants and animals that are found in this compartment. The red pine covertype will be re-introduced to two larger areas as this area was historically conifer dominated. Diversity should focus upon age classes, cover types and species composition within the forested stand and allowance for a proper mixture of non-forested/semi-open or open areas. Protection and enhancement of the natural features mainly centers upon the rolling hill areas of the compartment. Timber harvest plans must incorporate protection for the slopes to minimize avoid errosion.

Soil and topography:

The topography in this compartment ranges from slightly rolling to hilly. Soil types are generally sandy with some ridges of better loams supporting higher quality big tooth aspen, pine and red oak.

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

The compartment and the area immediately surrounding it are state owned. The closest private land is approximately 1/2 mile from the perimeter of this compartment. There is very little use outside of recreation in the form of hunting, snowmobiling and recreation vehicle traffic.

Unique. Natural Features:

This area has the potential to harbor many unique plants and animals. See compartment files for specific details.

Archeological, Historical, and Cultural Features:

Numerous large abandoned railroad grades can be found in this compartment. This suggests that there may be some sites related to early settlers located in the area.

Special Management Designations or Considerations:

This compartment is part of a lease that has been negotiated with the Michigan National Guard. There are also two stands that have been added to the proposed SCA layer. Stands 13 and 21 (14 acres total) have been identified as having unique habitat value as they have some very large pine and oak. They will be managed primarily for big tree management however some low intensity treatments may occure in the future to take out short lived species and free up growing space for the larger trees.

Watershed and Fisheries Considerations:

No water bodies in the compartment.

Wildlife Habitat Considerations:

The Habitat Resource Management Key Value Designation for this compartment is Habitat/Vegetative Management. The majority of this compartment lies on an ice-contact ridge (LTA 3111) The topography of this land type is steep and irregular, but rolling, pitted, or level areas occur locally. Soil types are excessively drained gravelly sands. The SE portion of sec. 16, the south portion of sec. 17, and the SW portion of sec. 18 falls within a broad, flat outwash plain (LTA 5111). The topography is variable, with level area and some hills. Soils are usually excessively drained, acidic, and low in natural fertility. Wild fires have been reported in this LTA.

This compartment has nice oak stands within the ice-contact ridges of the compartment. These stands provide opportunities for squirrel and deer. The red pine stands are moderately stocked, with shrubland underneath. There is evidence of past burns. The aspen stands are generally mixed with cherry shrubland, which provides habitat for woodcock and grouse.

Mineral Resource and Development Concerns and/or Restrictions

The area to the north and west is actively managed for Oil and gas facilities. Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. A gravel pit is located in Section 10 and potential is considered good. The Compartment is located between Garfield and Fletcher Fields. Garfield produces from the Devonian Richfield and Ordovician PdC. The PdC has produced over 46 Bcf gas. Approximately half of this compartment is leased. There may be Devonian and Ordovician potential in the compartment.

Vehicle Access:

Adequate vehicular access appears to be available with the road system that is already in place. Some areas on the snowmobile trail are very sandy and difficult to navigate with two wheel drive vehicles.

Survey Needs:

Necessary survey corners appear to already be in place.

Recreational Facilities and Opportunities:

The Cranberry Snowmobile Trail is located along the south and southwest edge of this compartment. Hunting is the main recreational use of the land in this compartment. Some camping activity occurs but it is usually associated with hunting.

Fire Protection:

The greatest difficulty with fire control in this compartment is with the response time. Heavy equipment is about 45 minutes away. Fortunately, there is a lack of volitile pine fuels in the area of this compartment so a catostrophic fire is unlikely. The terrain may cause the suppression crews some difficulty.

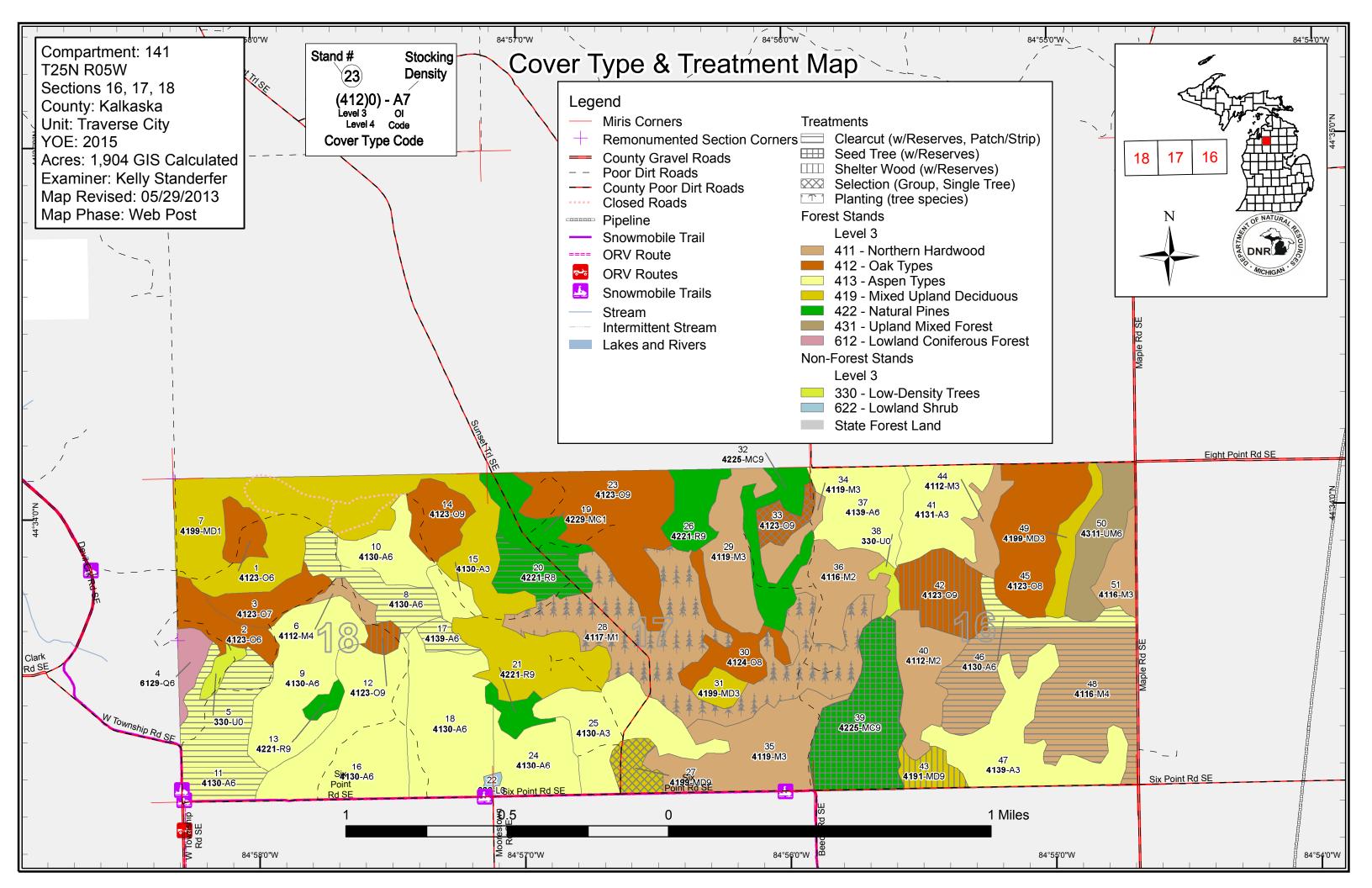
Additional Compartment Information:

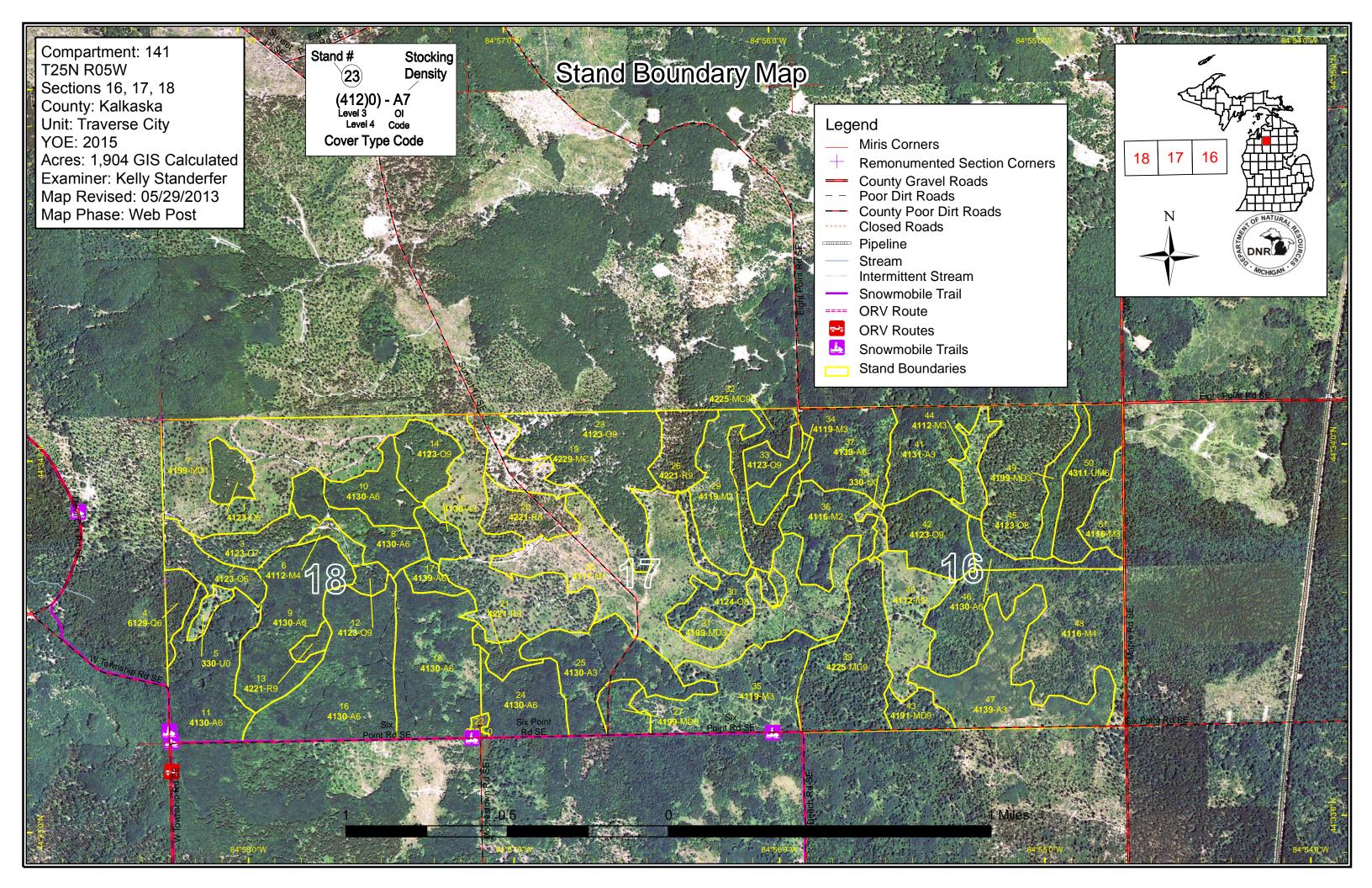
The following reports from the Inventory are attached:

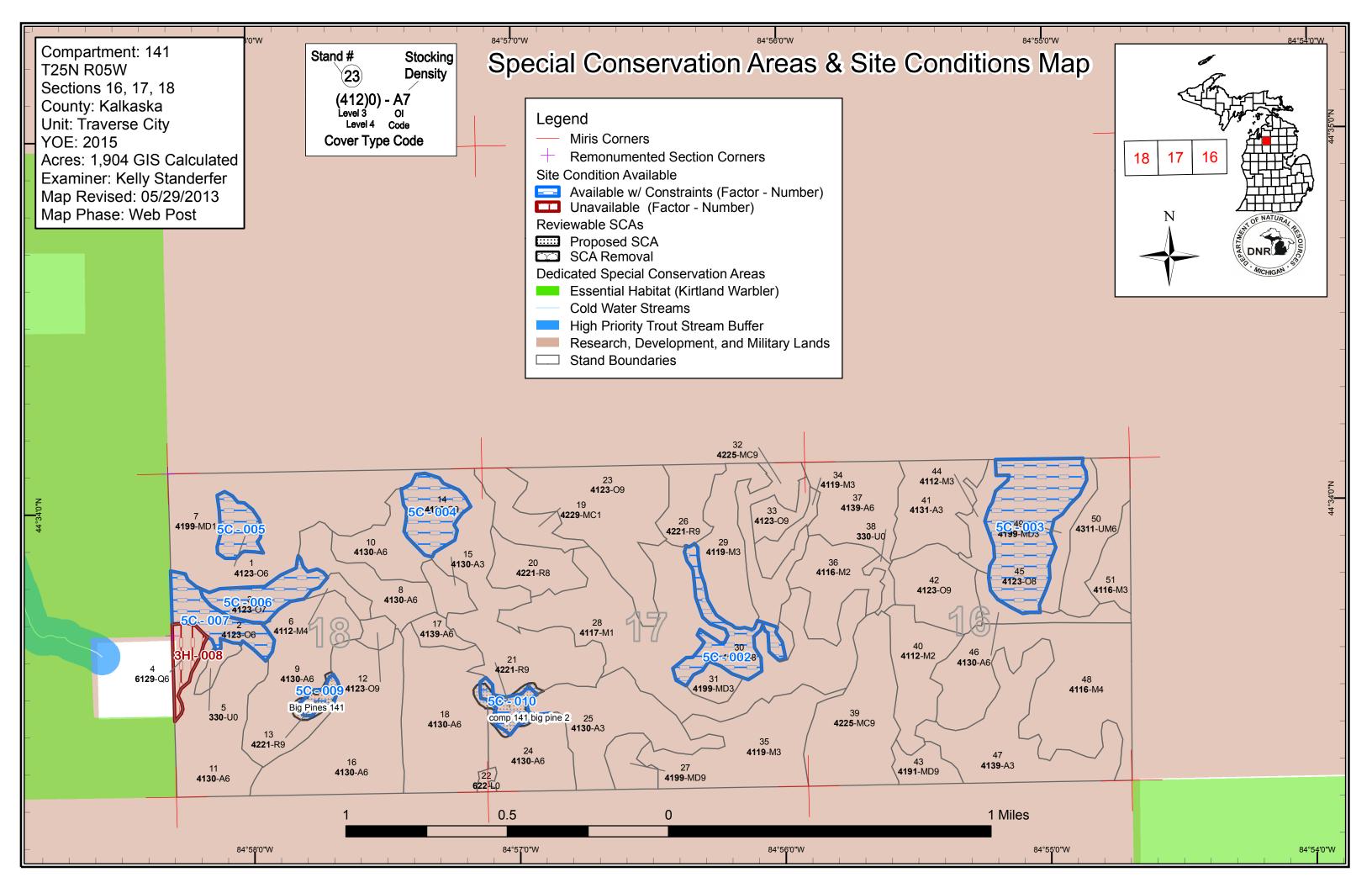
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Traverse City Mgt. Unit Kelly Standerfer : Examiner



Age Class

						Age	Ciass									
		80	0,0	Ser	No.	A LOVE	\$2.00 \ \$2.00 \	88	Na /	A SO CO	or /	0,00	70,70	,	A A A	, do la company de la company
Aspen	70	10	0	324	219	8	0	0	0	0	0	0	0	0	631	
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Lowland Conifers	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11	
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Mixed Upland Deciduous	204	0	15	0	0	0	0	13	13	0	0	0	0	0	245	
Natural Mixed Pines	0	23	0	0	0	0	0	66	30	0	0	0	0	0	120	
Northern Hardwood	37	229	106	0	120	0	0	0	0	0	0	0	0	0	491	
Oak	0	0	0	0	0	0	0	100	193	6	0	0	0	0	299	
Red Pine	0	0	0	0	0	0	0	52	9	0	0	0	0	0	61	
Upland Mixed Forest	0	0	0	34	0	0	0	0	0	0	0	0	0	0	34	
Total	323	262	121	358	340	8	0	242	246	6	0	0	0	0	1904	



Report 3 – Proposed Treatment Summaries

Traverse City Mgt. Unit Year of Entry 2015

Compartment 141 Total Compartment Acres: 1904

Acres by Treatment Type

Commercial Harvest - 398 Tre

Tree Planting - 147

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

	Cover Type by Harvest Method								
		/		Section of	1,00 m	Nectuo o	OE OE		Se de la constant de
Aspen Types		114	0	0	0	0	0	114	
Mixed Upland Deciduous		0	13	0	13	0	0	26	
Natural Pines		25	0	66	0	0	0	91	
Northern Hardwood		114	0	0	0	0	0	114	
Oak Types	<u>'</u>	0	11	0	42	0	0	53	
	Total	252	25	66	55	0	0	398	

S t a	t a n Treatment Acres CoverType			·	with	No Limi	nents Prescri		Compartment: 141 Year of Entry 2015	DNR NATURAL MICHIGAN
n d	Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	61141008-Cut	30.0	4130 - Aspen	High Density Pole	46	111-140	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Preso Spec	NE to b	reak up the	age class diversity of function as retention for	the area. Lo	ots in the	same age	e class. Retention	will be along road	d this YOE and hold the d/ grass opening to the stand. OK to leave son	south. This
Other Comm	<u>r</u> ments:									
Next Steps	<u>3:</u>									
Propo Start [)14								
11	61141011-Cut	60.7	4130 - Aspen	High Density Pole	46	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Preso Spec	<u>s:</u> of fir filli regen. I mixed s	ng in. Save Make some pecies @ S	all or most oak. cut a brush piles by Q type SW end of stand to he	II or most as to the west Ip with visua	spen, bir . Retenti ıl break ı	ch, & red ron will be supposed to the contraction of the contraction o	maple. Cut all fir o scattered residual esnowmobile trail.	ver 4 or 5 inches. fir, oak and greer . Winter will likely	ss of the area. West hat try to protect pockets on tree leave some mapl be the best time to cut trail and road system.	f advanced fir e and other
Other Comr	<u>r</u> ments:									
Next Steps	<u>3:</u>									
Propo Start [114								
12	61141012-Cut	5.8	4123 - Red Oak	High Density Log	95 g	81-110	Harvest	Shelterwood	4123 - Red Oak	Cmpt. Review Proposal
Preso Spec	s: scattere	ed on the cu		ct sprouts fr	om deer				openings and try to lead openings and try to lead openings and try to lead openings.	
Other Com	<u>r</u> ments:									
Next										

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

4139 - Aspen, Mixed Deciduous High Density 4139 - Aspen, Mixed Deciduous Cmpt. Review Proposal 61141017-Cut 7.8 111-140 Harvest Clearcut with Reserves Pole

Prescription final harvest aspen and red maple

Specs:

<u>Other</u>

Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

Report 4 -- Treatments Prescribed with No Limiting Factor

Compartment: 141 Year of Entry 2015

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	MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	61141020-Cut	24.6	42210 - Natural Red Pine	Medium Density Log	78	1-50	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal

Prescription open areas have regenerated nicely to oak and jack pine. take the large red pine off the top. OK to leave a few red pien for seed and retention where needed.

Specs:

Other Comments:

Next Steps:

S

Proposed

10/01/2014 Start Date:

13.4 4199 - Other Mixed High 78 111-140 Harvest Group Selection 4199 - Other Mixed Cmpt. Review 61141027-Cut Upland Deciduous Density Log **Upland Deciduous** Proposal

Prescription Nice log sized oak mixed with red maple & aspen. Cut all aspen, ash, and ironwood. Mark the rest down to 70-90 BA. Try to mark a few canopy gaps around oaks that are cut to try to recruit oak via stump sprout. Some will be less than the 70BA where heavy to aspen, retention will be Specs:

residual trees

Other Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

61141033-Cut 11.4 4123 - Red Oak High 80 141-170 Harvest Single Tree 4123 - Red Oak Cmpt. Review Density Log Selection Proposal

Prescription Very nice red oak stand. Select cut releasing the nice quality single stems tryign to remove high risk trees. OK to cut some of all species, ie red pine, maple, and oak. target residual BA70-100ish Specs:

Other

Comments:

Next Steps:

Proposed

10/01/2014 Start Date:

39 61141039-Cut 66.2 42250 - Pine, Oak High 77 81-110 Harvest Seed Tree with 42250 - Pine, Oak Cmpt. Review Density Log Reserves Proposal

Prescription Some very nice O3 regen in areas. Big Pine and oak over mixed regen. Some areas are pretty open and some are pretty thick. red pine cover type is converting to oak, maple and aspen with a few areas (previous skid trails) that have regenerated to red and white pine. Green tree mark Specs: seed trees mainly white oak, red oak and OK to leave some red pine as well. scattered seed trees will be left for good and will function as retention and mast production for the area. 10BA or less will likely be left. tree to mark seed trees where there is a lack of regeneration. Goal is to

release most of the advanced regen.

Other

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

Report 4 -- Treatments Prescribed with No Limiting Factor

Compartment: 141 Year of Entry 2015

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MICHIGAN	

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	61141042-Cut	36.0	4123 - Red Oak	High Density Log	83	111-140	Harvest	Shelterwood	42250 - Pine, Oak	Cmpt. Review Proposal

Specs:

S

Prescription Some nice Logs throughout. Some Thick R9 some Thick O9 and some marginally stocked maple and aspen. Overall ready for a thinning/ shelterwood cut to promote mixed natural regen of the currently present species. Green tree or orange tree mark down to ~50-120 BA. areas with nice advanced oak regen can be cut a bit harder and the nice pole areas without advanced regen will be more of a thinning/ selection cut. Residual trees will be retention.

Other

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

61141043-Cut 13.0 4191 - Mixed Hiah 111-140 Harvest Shelterwood 4191 - Mixed Cmpt. Review Upland Deciduous Density Log **Upland Deciduous** Proposal with Conifer with Conifer

Specs:

Prescription Nice log sized oak and pine mixed with pole sized maple. Treat with stand to the west, green tree mark stand down to 90-20 BA, aspen areas will be more open, nice log pine, maple & oak areas can be left a bit thicker but some should be opened up to promote regen. some will resemble more of a seed tree cut and some will be more shelterwood/selection cut.

Other

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

46 61141046-Cut 15.6 4130 - Aspen High 37 51-80 Harvest Clearcut 4139 - Aspen, Cmpt. Review Density Mixed Deciduous Proposal Pole

Specs:

Prescription some is pretty poor stocking and some is decently stocked. Treat this YOE with open Cherry stand to the south to try to promote good aspen regen. Open areas will function as opening and aspen areas should fill in nicely to aspen. No retention to promote thicker stem density which is lacking in much of this area.

<u>Other</u>

Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

61141048-Cut 113.7 4116 - Mixed N. Low 44 1-50 Harvest Clearcut 4112 - Maple. Cmpt. Review 48 Hardwood - Aspen Density Beech, Cherry Proposal Pole Association

Specs:

Prescription good size cherry in areas intermixed with a few nice aspen clones and some open areas. Cut all cherry and aspen and let fill in naturally, cherry brush areas will likely fill in slowly and function as openings for 5-10 years and the aspen clone areas should regenerate nicely. Save all oak. Interplant open areas with red pine to re-establish some conifer as much of it will be converting to oak and other deciduous types in this compartment. Sweet fern ground cover in some areas. Save most or all oak over 10 inches dbh. As per pre-review wildlife wanted to try to add this area to their opening complex of this area so we agreed to not try to interplant red pine in the eastern 2/3 of this stand. the western lobe is pretty thick to cherry so just let it fill in naturally. will function as an open area for ~ 5 years and fill back in to a mix of aspen, maple, and cherry.

<u>Other</u> Comments:

<u>Next</u> Steps:

Proposed

10/01/2014 Start Date:

Traverse City Mgt. Unit Report 4 -- Treatments Prescribed with No Limiting Factor

Compartment: 141 Year of Entry 2015

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	61141028- Plant	146.6	4117 - Mixed N. Hardwood - Pine	Low Density Sapling	12		Tree Planting	Hand Plant	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Specs:

s

Prescription Some areas filling in with jack pine but most is cherry brush mixed with oak and red maple. Pine removed from the area last YOE. Plant area back to red pine. may need to roller chop or herbicide. OK to leave areas that have fully regenerated out of the planting. Plant as much back to red pine as possible.

<u>Other</u>

Comments:

<u>Next</u> Steps:

Proposed

Start Date: 04/11/2013

Total Treatment

544.7 Acreage Proposed:

Traverse City Mgt. Unit Report 5 -- Treatments Prescribed with Compartment: 141 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! **Prescription** Specs: Other Comment: **Next** Steps: Proposed #Type!

Total Treatment
Acreage Proposed:

0

Start Date: # Limiting Factor

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Data updated before 10:00 AM

GAMBERGP

Report 6 – Out of YOE – Treatments Prescribed with No Limiting Factor

Year of Entry: 2015

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28218	5.9	Unspecified				Harvest	Other - Specify in Comments	Unspecified	Cmpt. Review Proposal
Prescription Specs:									
Other Comments:									
Next Steps:									
Proposed Start Date:									
28219	7.2	Unspecified				Harvest	Other - Specify in Comments	Unspecified	Cmpt. Review Proposal - Incomplete
Prescription Specs:									
Other Comments:									
Next Steps:									
Proposed Start Date:									
61043_OutOf OE-Cut	Y 2.1					Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal - Incomplete
Prescription Specs: retain	some pine ar	nd osk for mast and s	eed product	ion, Folllo	ow WLD gi	uidance for CWI	Ocreation. Harvest	all stems that are not	retained.
Other New so	tand should h	ave mix of oak, pine	, aspen and	maple.					
Next Steps:									

Proposed Start Date: 09/01/2009

Total Treatment

15.3 Acreage Proposed:

Kelly Standerfer: Examiner

Compartment 141 Year of Entry 2015

Availa	ability for I	Management					
Total	Acres	Acres		Domina	nt Site	e Cond	ditior
Acres	Available	Not Available		No	5C	3H	
631	631		Aspen	631]
11		11	Lowland Conifers			11	1
245	245		Mixed Upland Deciduous	245			1
120	120		Natural Mixed Pines	120			1
491	491		Northern Hardwood	491			1
299	299		Oak	132	167		1
61	61		Red Pine	47	14		1
34	34		Upland Mixed Forest	34			1
1,892	1,881	11	Total Forested Acres	1,700	181	11	1
	99%	1%	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 Dominant Site No. Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002 Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26				
Comments:						
003 Available	5C: Delay treatment for age/size class diversity or exceptional site quality	62				
Comments:						
004 Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23				
Comments:						
Comments:	exceptional site quality					

Report 7 – Site Conditions

Traverse City Mgt. Unit Kelly Standerfer: Examiner

Compartment 141
Year of Entry 2015

005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13		
С	omments:				
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21		
С	omments:				
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21		
С	omments:				
800	Not Available	3H: Deer Wintering Areas	11	5C: Delay treatment for age/size class diversity or exceptional site quality	
С	omments:				
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5		
С	omments:				

Report 7 – Site Conditions

Traverse City Mgt. Unit Kelly Standerfer: Examiner

Compartment 141
Year of Entry 2015

010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10
Co	Comments:		

Compartment: 141
Year of Entry: 2015



Report 8 - 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	e Recommendation	
Big Pines 141	Habitat Areas or Corridors	Other Habitat Area	SCA	6.3
Comments				
	ural pocket of Red Pine on a rolling to cut out short lived species, push		ipment but should be lighlty mana	aged to add
comp 141 big pine 2	Habitat Areas or Corridors	Other Habitat Area	SCA	11.6
Comments				
Stand appears to be natu lived species in future but	ral pocket of Red Pine. Leave this push to big tree mgmt	stand to develop naturally. It add	ls diversity to the forest. OK to cu	t out short

Compartment: 141
Year of Entry 2015



Report 9 - 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.

Conservatio Area	on 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 docur be identified by Natural heritage data from the State Historic Pre this compartment will be implemented in such a manner as to me the sensitive nature of this information, no further detail about to	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 maintain 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 specyear to year. Coldwater streams in Michigan typically provide th 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 ese conditions due to substantial
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for include the 5,847 acre Forest Fire Experiment Station, the 12,00 Area, the Beaver Islands Archipelago Wildlife Research Area (the High and Hog Islands, all state owned land on Beaver, South For Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Roursery, and over 144,000 acres of Military Lands.	00 acre Houghton Lake Wildlife Research hat includes most of Garden Island, all of ox and North Fox Islands), the Cusino
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 effects as aesthetics, habitat, bank stability, timber production, and the	ne unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coo U.S. Fish and Wildlife service for the recovery of threatened and 365, Endangered Species Protection, of the Natural Resources PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two e Plover Habitat.	d endangered species, as governed by Part and Environmental Protection Act, 1994 is is an active program, with proposed

S t	Traverse Cit		Report 10	- Forested Stand	S Compartment: 141 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4123 - Red Oak	High Density Pole	13.3	83	81-110	
2	4123 - Red Oak	High Density Pole	21.3	78	81-110	
3	4123 - Red Oak	Low Density Log	21.1	83	51-80	
4	6129 - Mixed Coniferous Lowland Forest	High Density Pole	10.8	79	81-110	
6	4112 - Maple, Beech, Cherry Association	Low Density Pole	6.6	45	1-50	
7	4199 - Other Mixed Upland Deciduous	Low Density Sapling	195.4	5	1-50	
8	4130 - Aspen	High Density Pole	30.0	46	111-140	
9	4130 - Aspen	High Density Pole	67.6	46	81-110	
10	4130 - Aspen	High Density Pole	25.7	46	111-140	
11	4130 - Aspen	High Density Pole	60.7	46	81-110	
12	4123 - Red Oak	High Density Log	5.8	95	81-110	
13	42210 - Natural Red Pine	High Density Log	4.9	79	171-200	
14	4123 - Red Oak	High Density Log	22.9	83	111-140	
15	4130 - Aspen	High Density Sapling	10.2	18		
16	4130 - Aspen	High Density Pole	88.4	32	51-80	
17	4139 - Aspen, Mixed Deciduous	High Density Pole	7.8	50	111-140	
18	4130 - Aspen	High Density Pole	74.3	35	1-50	
19	42290 - Natural Mixed Pine	Low Density Sapling	23.1	15	1-50	
-						

S t				Report 10	- Forested Stands	Compartment: 141 Year of Entry: 2015	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
20	42210 - Natural Red Pine	Medium Density Log	24.6	78	1-50		
21	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	9.5	80	171-200		,
23	4123 - Red Oak	High Density Log	78.8	76	111-140		
24	4130 - Aspen	High Density Pole	35.2	41	51-80		
25	4130 - Aspen	High Density Sapling	58.2	36	1-50		
26	42210 - Natural Red Pine	High Density Log	22.1	73	111-140		
27	4199 - Other Mixed Upland Deciduous	High Density Log	13.4	78	111-140		
28	4117 - Mixed N. Hardwood - Pine	Low Density Sapling	146.6	12			
29	4119 - Mixed Northern Hardwoods	High Density Sapling	40.2	29			
30	4124 - Red with White Oak	Medium Density Log	26.1	83	51-80		
31	4199 - Other Mixed Upland Deciduous	High Density Sapling	8.7	9			
32	42250 - Pine, Oak	High Density Log	30.4	80	81-110		
33	4123 - Red Oak	High Density Log	11.4	80	141-170		
34	4119 - Mixed Northern Hardwoods	High Density Sapling	10.3	23			
35	4119 - Mixed Northern Hardwoods	High Density Sapling	68.0	12			
36	4116 - Mixed N. Hardwood - Aspen	Medium Density	38.6	29			
37	4139 - Aspen, Mixed Deciduous	High Density Pole	44.7	36	51-80		
39	42250 - Pine, Oak	High Density Log	66.2	77	81-110		

S t	Traverse City		Report 10	- Forested Stands	Compartment: 141 Year of Entry: 2015	DNR DNR	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
40	4112 - Maple, Beech, Cherry Association	Medium Density	36.5	5			
41	4131 - Aspen, Oak	High Density Sapling	42.5	35	51-80		
42	4123 - Red Oak	High Density Log	36.0	83	111-140		
43	4191 - Mixed Upland Deciduous with Conifer	High Density Log	13.0	88	111-140		
44	4112 - Maple, Beech, Cherry Association	High Density Sapling	14.2	18			
45	4123 - Red Oak	Medium Density Log	62.3	83	51-80		
46	4130 - Aspen	High Density Pole	15.6	37	51-80		
47	4139 - Aspen, Mixed Deciduous	High Density Sapling	70.0	5			
48	4116 - Mixed N. Hardwood - Aspen	Low Density Pole	113.7	44	1-50		
49	4199 - Other Mixed Upland Deciduous	High Density Sapling	14.9	27			
50	4311 - Pine, Aspen Mix	High Density Pole	33.9	38	81-110		

4116 - Mixed N. Hardwood - Aspen

51

High Density Sapling

16.6

20

Report 11 - Nonforested Stands

Compartment: 141 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	330 - Low-Density Trees	5.7	No	Unspecified	open area filling in with cherry maple oak and pine. Could cut all but oak out of the stand to promote herbacious openland.
22	6229 - Mixed lowland shrub	2.2	No	Unspecified	Lowland bog
38	330 - Low-Density Trees	4.5	No	Unspecified	