

Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 156 Entry Year 2015 Acreage: 1,823

County Roscommon

Management Area: Upper Muskegon

Revision Date: 05/22/2013

Stand Examiner: Dale Ekdom

Legal Description:

T21N R04W Sections 31, 32, and 33

Identified Planning Goals:

Compartment is in the Upper Muskegon Mgt. Area. Broad management goals are to maintain current age and species diversity in a range of early and late succession ecosystems.

Soil and topography:

Terrain is basically flat to gently rolling with some steep banks along the Muskegon River and Town Line Creek. Soils are mainly Rifle peat in the lowland areas and Grayling and Roselawn sands in the upland areas.

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

Compartment is a solid block of state land except for a 40 acre private parcel in Section 31 and is mostly surrounded by state land except for a few private parcels on the southwest edge of the compartment. The private parcels within and adjacent to the compartment all have seasonal cabins and are used primarily for hunting.

Unique Natural Features:

No specific MNFI concerns. There are many ancient meanders and oxbows of the Muskegon River in Section 31. Numerous stands in Sections 31 and 32 are habitat corridor/area SCA's.

Archeological, Historical, and Cultural Features:

Historic farmstead recorded in this compartment.

Special Management Designations or Considerations:

Habitat corridor/area SCA's along the Muskegon River and Town Line Creek.

Watershed and Fisheries Considerations:

The Muskegon River and Town Line Creek flow through Section 31,

Wildlife Habitat Considerations:

Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, turkeys, as well as other non-game species.

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 400 and 600 feet. Beneath the glacial drift are the Jurassic Ionia Formation and the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay elsewhere in the State. The nearest gravel pit is located one mile just to the east, but potential may be limited. Headquarters Field is located four miles to the east. The field has produced over 11.3 million BO and 4.2 Bcf gas primarily from the Devonian Richfield Formation. It is in secondary recovery operations currently. The entire compartment is leased for oil and gas development.

Vehicle Access:

Access to most of the compartment is good via seasonal county roads and state forest two-tracks except the eastern portion of Section 32 and the western portion of Section 33. US 127 bisects Section 33 and there is a culvert out on Hose Road/Mullett Road just south of the compartment in Clare County.

Survey Needs:

None necessary at this time.

Recreational Facilities and Opportunities:

Recreation opportunities include hunting and fishing as well as dispersed camping associated with these activities. Compartment includes portions of the Leota ORV trail and route, and Leota snowmobile trail and there is an

ORV/snowmobile trailhead just southwest of the compartment in Clare County.

Fire Protection:

Fire protection in this compartment should not be a problem due to its combination of fuels and terrain. However, vehicle access and travel time to parts of the compartment are problematic.

Additional Compartment Information:

Some evidence of illegal ORV activity as well as illegal firewood cutting was found scattered within this compartment due to the proximity to the village of Leota in Clare County and the many official ORV and snowmobile trails in the area.

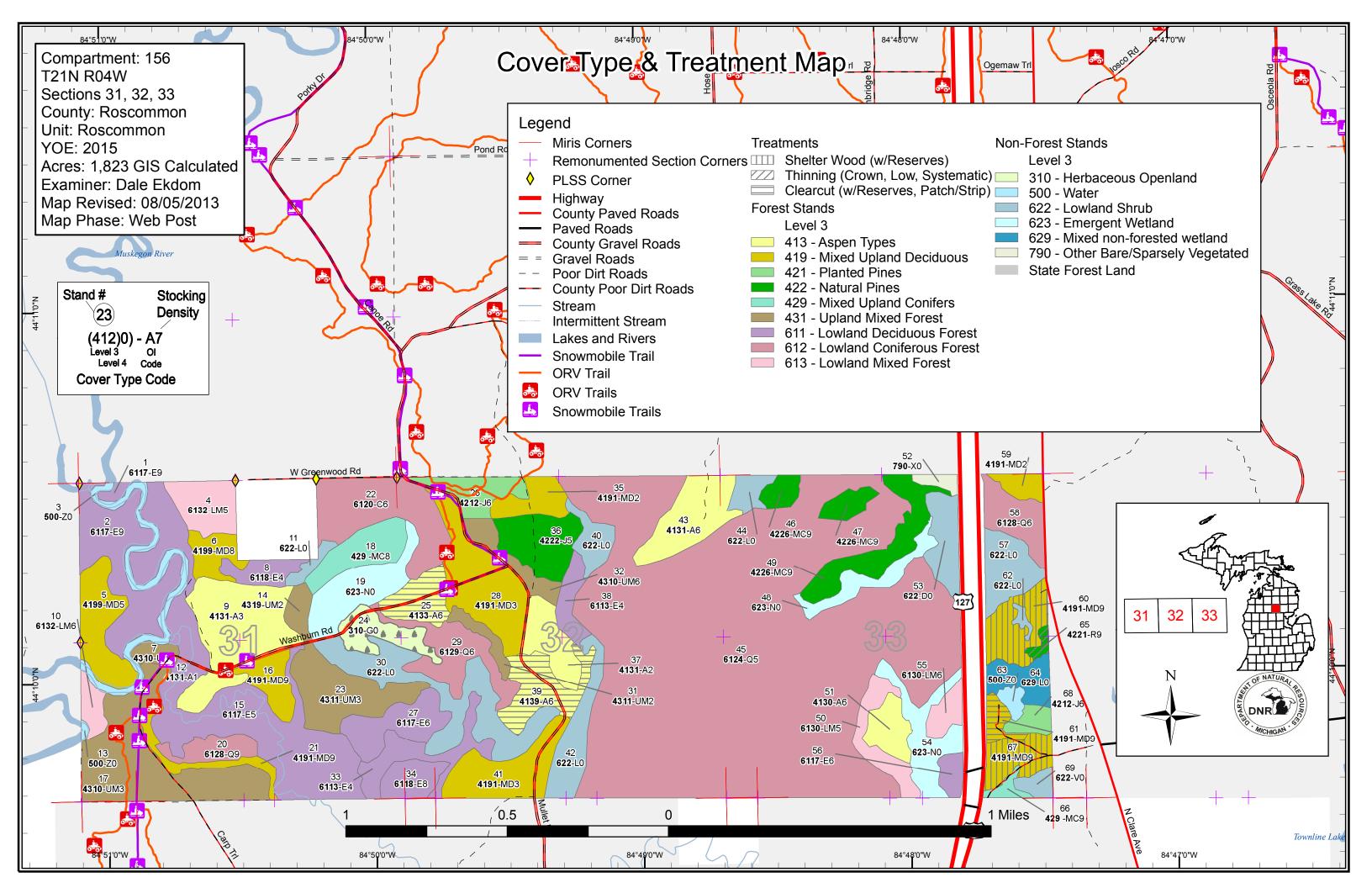
The following reports from the Inventory are attached:

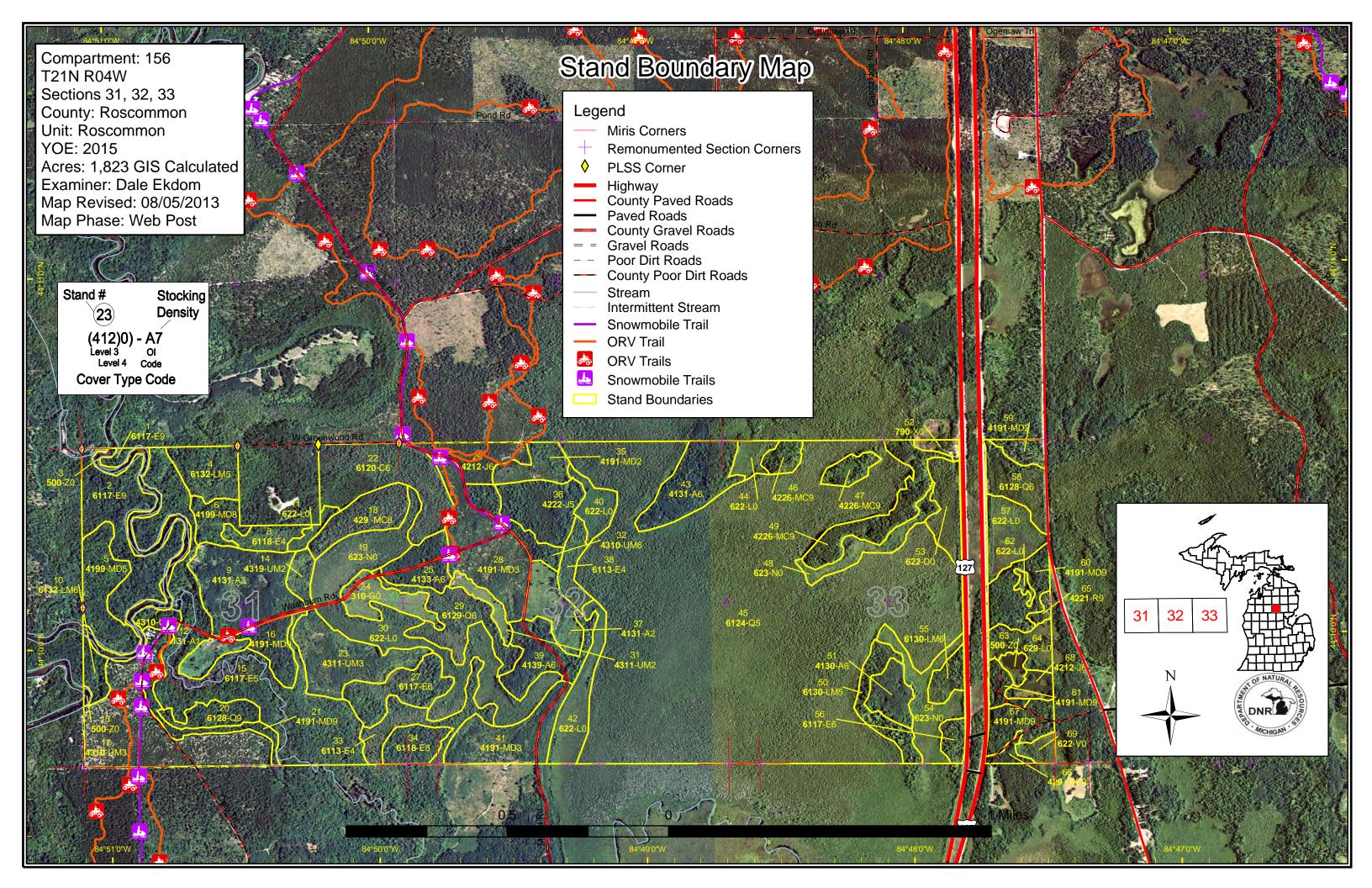
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

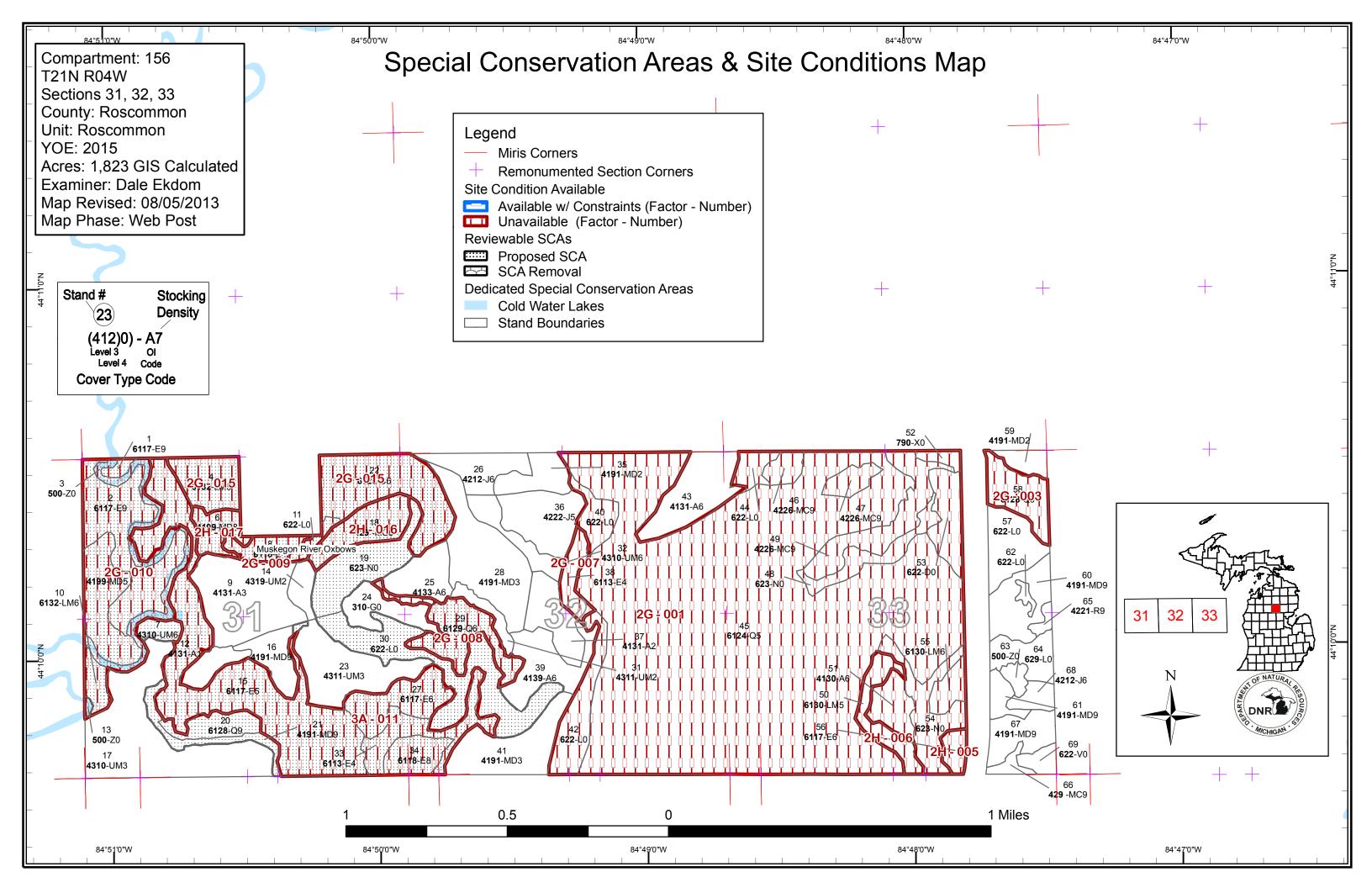
The following information is displayed, where pertinent, on the attached compartment maps:

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

Proposed treatments
Site condition boundaries
Details on the road access system







Compartment 156 Year of Entry 2015

Roscommon Mgt. Unit

Dale Ekdom: Examiner



Age Class

						Age (Jiass									
		80	0,0	Park /	,	ig de la company	\$ P	8	18 /	St. Co.	88 /	o vo	'a''g'	70× /	8 / A	, so
Aspen	27	45	0	0	59	0	25	0	0	0	0	0	0	0	157	
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Cedar	0	0	0	0	0	0	0	0	46	0	0	0	0	0	46	
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Jack Pine	0	42	0	0	6	0	0	0	0	0	0	0	0	0	48	
Lowland Conifers	0	0	0	0	0	0	0	0	19	27	0	0	0	569	616	
Lowland Deciduous	0	0	0	0	0	0	0	0	171	23	0	0	0	48	243	
Lowland Mixed Forest	0	0	0	0	8	0	0	7	15	0	0	0	0	19	50	
Lowland Shrub	130	0	0	0	0	0	0	0	0	0	0	0	0	0	130	
Marsh	66	0	0	0	0	0	0	0	0	0	0	0	0	0	66	
Mixed Upland Deciduous	7	88	0	0	10	0	0	0	39	20	0	0	0	36	199	
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	7	0	0	34	41	
Red Pine	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	
Treed Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	
Upland Mixed Forest	6	110	0	0	6	0	0	0	0	0	0	0	0	12	134	
Water	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	İ
Total	303	285	0	0	89	0	25	7	290	73	7	0	0	743	1823	



Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit Year of Entry 2015

Compartment 156
Total Compartment Acres: 1,823

Acres by Treatment Type

Commercial Harvest - 86

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

			Cov	er Ty	e by F	larves	st Meth	od	
		/	# O	Collaboration of	1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	New Od	OK OK		Se de la constant de
spen Types		41	0	0	0	0	0	41	
lixed Upland Deciduous		6	0	0	36	0	0	43	
latural Pines		0	0	0	0	2	0	2	
	Total	47	0	0	36	2	0	86	

	Roscommon	Mgt.	Uni
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Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 156 Year of Entry 2015

DEPARTME	DNR DNR
`	MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	71156025-Cut	16.4	4133 - Aspen, Mixed Pine	High Density Pole	42	81-110	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Specs:

Prescription final harvest to regenerate aspen and promote oak regeneration, cut aspen, red maple, jack pine, balsam fir, black spruce, and unmarked oak, mark 10-30 SF of well crowned oak especially WO to leave as mast/seed trees in areas where stand is heavy to oak and/or jack pine, mark oak to leave in clumps as much as possible, leave all R/W pine for diversity

Other Comments:

leave buffer on steep banks for retention, mark more oaks around the camping area in the west end of the stand, any amount of regeneration of any type is acceptable, sparser areas will act as mini barrens/savannahs, use appropriates sale specs to protect the snowmobile and ORV trails and warn riders of logging operations

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

71156039-Cut 24.8 4130 - Aspen 39 4139 - Aspen, High 62 Harvest Clearcut with Cmpt. Review Mixed Deciduous Density Reserves Proposal Pole

Prescription fianl harvest and manage for aspen, mark a few oaks and R/W pine for mast and diversity

Specs:

leave NE arm and wet potholes for retention or cut thru potholes if dry enough to create wildlife habitat per request of WLD, aspen should Other Comments: regenerate w/o a problem, any combination of HWs and pine to a fully stocked stand is acceptable

Next Steps:

Proposed

10/01/2014 Start Date:

20.5 4191 - Mixed 81-110 Shelter Wood 4191 - Mixed Cmpt. Review 60 71156060-Cut High 82 Harvest **Upland Deciduous Upland Deciduous** Density Log with Reserves Proposal with Conifer with Conifer

Prescription seed tree leaving 10-30 SF of oak (esp. WO) and all R/W pine as seed sources, exend cut to Old 27 to the east into 71157 and access off Old 27 Specs:

Other leave buffer on swamp/"L" types as needed AND paint out any wet potholes within stand for retention, any combination of HW's pine to a fully Comments: stocked stand is acceptable, trench/plant RP if large areas do not regenerate due to visual concerns on Old 27 and US127

<u>Next</u> regen check

Steps:

Proposed

10/01/2014 Start Date:

71156061-Cut 6.2 4191 - Mixed 4133 - Aspen, Cmpt. Review High 92 Harvest Clearcut with Mixed Pine Upland Deciduous Density Log Reserves Proposal

Prescription fianl harvest and regenerate aspen, mark a few well-crowned oak and healthy R/W pine for mast, diversity, and visual along US-127, Specs:

Other buffer pond to the NE and leave any other wet potholes out of the sale, dormant season cut due to the aged of the stand, any combination of HW's and pine to a fully stocked stand is acceptable, trench/plant JP if large areas do not regenerate to a fully stocked stand Comments:

regen check <u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 156
Year of Entry 2015

DEPARTME	DNR MICHIGAN	
	WICHIGAN	

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
65	71156065-Cut	2.4	42210 - Natural Red Pine	High Density Log	98	141-170	Harvest	Low Thinning	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription thin from below to 90 SF residual and scarify to expose mineral soil

Specs:

s

Other mark a few well crowned oaks to leave as a hard mast option for wildlife and for diversity, no retention due to stand size and treatment type,

Comments: evaluate whole tree skidding option when the sale is set up

Next Steps:

<u>Proposed</u>

Start Date: 10/01/2014

67 71156067-Cut 15.9 4191 - Mixed High 92 111-140 Harvest Shelter Wood 4122 - Oak, Pine Cmpt. Review
Upland Deciduous Density Log with Reserves Proposal

with Conifer

Prescription shelterwood seed tree cut by cutting except R/W pine and marked oak, mark well crowned oak (esp. WO) to 10-30 SF residual

Specs:

Other retention will be buffers on any wet areas and possibly along the highway to the west and the WP stand to the south, stand should regenerate to

Comments: a mix of aspen, red maple, oak, and pine, any combination of HW's and pine to a fully stocked stand is acceptable

<u>Next</u>

Steps:

Proposed

Start Date: 10/01/2014

Total Treatment

Acreage Proposed: 86.1

regen check

S t a		Roscommo	n Mgt. Unit	Report 4		eatment imiting	Compartment: 156 Year of Entry 2015	DNR DNR DROWN		
n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Type!							
Presc Specs	ription S:									
Other Comn										
<u>Next</u> Steps	<u>:</u>									
Propo Start										

Total Treatment Acreage Proposed:

Limiting Factor

0

Dale Ekdom: Examiner

Compartment 156
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Availa	ability for I	Management						
Total	Acres	Acres	De	omina	nt Site	Cond	ditions	S
Acres	Available	Not Available		Un	No	3A	2H	2G
156	143	13	Aspen		143			13
46	0	46	Cedar		0			46
48	48		Jack Pine		48			
615	12	603	Lowland Conifers		12			603
241	0	241	Lowland Deciduous	0	0	166	6	69
50		50	Lowland Mixed Forest				15	34
199	160	39	Mixed Upland Deciduous		160		12	27
41		41	Natural Mixed Pines					41
2	2		Red Pine		2			
24	4	21	Upland Conifers		4		21	
134	134	0	Upland Mixed Forest		134			0
1,556	503	1,053	Total Forested Acres	0	503	166	53	833
-	32%	68%	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
001	Not Available	2G: Too wet (sensitive soils, does not include access issues)	718	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)			
(Comments:						
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	19				
(Comments:						

Report 5 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom: Examiner

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005	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6			
С	omments:					
006	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16			
С	omments:					
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10			
С	omments:					
800	Not Available	2G: Too wet (sensitive soils, does not include access issues)	27			
С	omments:					
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)		
	omments: eep bank and priv	ate property				
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	104	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
С	omments:					

Report 5 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom: Examiner

Compartment 156 Year of Entry 2015

011	Not Available	3A: Potential old growth / biodiversity	168	2G: Too wet (sensitive soils, does not include access issues)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
C	omments:				
015	Not Available	2G: Too wet (sensitive soils, does not include access issues)	69		
C	omments:				
016	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	21		
C	omments:				
017	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12		
	omments: ocked by private p	property to east, wet terrain to n	orth, m	uskegon river to the west,	and a steep bank to the south

Compartment: 156 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
Muskegon River Oxbows	Habitat Areas or Corridors	Habitat Corridor	SCA	513.8
Comments				
Habiat coridor based on Mus	skegon River and Oxbows			

Compartment: 156
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.

Conservation	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 to bottomlands. They include thousands of Native American settler and British outposts, nineteenth century logging camps, mines at 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	errestrial areas and Great Lakes nents and burial sites, as well as French and homesteads. Beneath the waters of enting the maritime trade. Such sites may servation Office. Proposed treatments in aintain the integrity of these sites. Due to	
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish spec conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by	

S t	Roscommon Mgt. Unit			Report 8 –	Forested	Stands Compartment: 156 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	2.3	Uneven Age		island in muskegon river surrounded by Muskegon river and oxbow of river, no access, data from PI Stand #2
2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	46.0	Uneven Age		Stand is within floodplain of Muskegon River, terrain is intermixed high-low ground, no access except from west down a steep bank and across a broad drainage, stand is regenerating well on its own, potential old growth
4	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	19.3	Uneven Age		dry hummocky ground with numerous wet areas/drainages, stand is on a bench above te Muskegon river and is converting to swamp conifers, lots of blowdown, HW O/S with cedar/BF/WP poles and BF/WP saps in the U/S good stand to leave for old growth as it connects with surronding stands in a large corridor along the river
5	4199 - Other Mixed Upland Deciduous	Medium Density Pole	26.8	80		stand is on bench above Muskegon river floodplain, only access is from the west down a steep bank and across a broad drainage, oak is falling apart and blowing down but stand starting to fill in with WP
6	4199 - Other Mixed Upland Deciduous	Medium Density Log	11.8	89		stand is on a bench above the Muskegon River and has a few intermittent drainages, BTA is dying and falling out of the stand, only access is down a steep bank or possibly thru PVT property which was refused in 2005, allow stand to convert ot RM/BF/WP, possibly add to old growth SCA along Muskegon River corridor
7	4310 - Pine, Oak Mix	High Density Pole	5.5	49	141-170	stand is at the confluence of the Muskegon river and Townline Creek, hardwood O/S with conifer U/S, steep banks to the river and several benches/with banks to the creek, should convert to WP if left alone
8	6118 - Lowland Deciduous with Cedar	Low Density Pole	10.1	87		stand is on a flat bench above the Muskegon River and is cut by numeorus intermittent drainages, possible add to old growth SCA along Muskegon River corridor
9	4131 - Aspen, Oak	High Density Sapling	45.4	16		Cut 1996, well stocked BTA on south end, sparser TA/O/JP on north end, scattereed R/W pine and balsam fir saps/poles thru- out stand
10	6132 - Mixed Lowland Forest with Cedar	High Density Pole	7.2	72		Stand has a steep bank to the floodplain of the Muskegon River with oak/RM/BTA O/S and WP/BF U/S, floodplain of the river is cedar and RM, retain as buffer for the Muskegon River and add to old growth corridor (SCA) along the river
12	4131 - Aspen, Oak	Low Density Sapling	9.2	5		cut 2007, fairly sparse but should be well stocked next YOE
14	4319 - Mixed Upland Forest	Medium Density	7.0	16		stand was A1 last YOE, now W5W2, lots of wet pockets within stand esp. on edges, stand is a tansition zone between dry A/O stand to the west and the wetter L/N to the east, lots of weeviling on the WP as it is open grown

S t	Roscommor	Roscommon Mgt. Unit			Forested	Stands Compartment: 156 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	111.0	87	81-110	Stand is in the flood plain of Townline Creek and the Muskegon river and on a few lower benches along these watercourses, stand ranges from a higher/drier 2 aged stand with RM P-L's and WP u.s. to true "E" type in the lower areas with RM, Silver Maple, Basswood, Black Ash, SWO, etc., poor access/no access to most of the stand due to steep banks on the edges and wetter terrain in the interior, very wet in spots esp. during spring runoff, some spots are heavy to cedar, possibly add to old growth SCA along the corridor of these watercourses
16	4191 - Mixed Upland Deciduous with Conifer	High Density Log	13.5	95	81-110	2aged oak/pine stand with older oak/pine over W6W3, scattered RM/BTA/JP poles/logs also, south tip of the stand has some bigger R/W pine XL's with a less dense WP U/S on the south part of the stand, heavy WP U/S on the north part of the stand, camping area on the north end, more A6 in the NW corner, possibly thin stand by removing all A/RM/JP and marking some of the smaller oak to cut - this would open up the canopy and limit damage to the W3 U/S,
17	4310 - Pine, Oak Mix	High Density Sapling	67.7	16		cut 1996 and regenerated naturally, well stocked JP/Oak stand, south end is mostly JP mixed with oak, north end is more an equal mix of JP and oak but sparser, scattered RM/PC saps as well as WP saps/poles thru-out
18	429 - Mixed Upland Conifers	Medium Density Log	20.6	Uneven Age	81-110	Stand is an upland knob surrounded by lower ground (old oxbows) and was J9 last YOE, JP component is now mostly gone or on the way out as a component of the stand, stand is now oak/RM XL's over BS/BF/WP P-L's and has lots of conifer saplings in the U/S, lots of blowdown (mostly JP/BF/BTA) and lots of wildlife sign/scat with good u.s. cover and abundant water sources near-by, stand is a mix of ages/species/sizes, poor access/no access without a major road building project, better to leave as part of the old growth SCA along the Muskegon River for the above reasons
20	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	11.9	Uneven Age	141-170	stand is on a bench in the floodplain of Townline Creek, only access is down a steep bank to the south and across a broad drainage, lots of blowdown and wildlife activity/sign, potential OG with WP XL's and RM SL O/S and WP/BF/NWC poles and saps in the U/S
21	4191 - Mixed Upland Deciduous with Conifer	High Density Log	9.9	40	141-170	Stand is a long narrow strip on a steep bank between high ground and the Muskegon river floodplain, poor operability due to steep terrain, allow to convert to WP, possible old growth stand
22	6120 - Lowland Cedar	High Density Pole	46.1	87		wet cedar swamp with BS poles scattered thru-out, NW corner/north edge along road is an inclusion of O7W5W2 which is a long narrow stand with steep banks going down to the swamp
23	4311 - Pine, Aspen Mix	High Density Sapling	35.3	15		stand was regenerated in 1997, now natural A/JP regeneration mixed with oak and RM regeneration, scattered WP poles and a few wet potholes/drains especially the north edge

S t	Roscommoi	Roscommon Mgt. Unit			Forested	Stands Compartment: 156 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
25	4133 - Aspen, Mixed Pine	High Density Pole	16.4	42	81-110	2 aged oak/aspen stand, oak is mature/over-mature, aspen is younger and maller, also scattered R/W pine poles/logs and jack pine poles, bulk of the stand is BTA/Oak but some areas are heavy to either oak, jack pine, or both, oak/JP are going downhill but the aspen could hold 10 more years, recommend that stand should be cut to regenerate aspen but mark some oak to leave for mast and leave R/W pine for diversity, steep banks down to the swamp/marsh should be avoided, BA's are from spots heavy to oak and are not within the A6 clones	
26	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	16.4	19		natural and planted JP with natural HW regeneration	
27	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	23.4	92	171-200	wet "E" Type with scattered conifers, east side is heavier to BF-BS, some blowdown of older RM and BF, a few samll islands of marginally higher ground with oak/aspen but small and hard to access, wettest spots are heavy to "L" and "N", good stand to leave for wildlife	
28	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	43.4	16		cut 1996 and regnerated naturally, north part is heavier to JP adn south part is heavier to A/O	
29	6129 - Mixed Coniferous Lowland Forest	High Density Pole	27.5	92		cedar swamp mixed with BS & BF, fairly wet with some blowdown & Spaghum moss ground cover	
31	4311 - Pine, Aspen Mix	Medium Density	6.5	5		cut 2007 and regenerated well to TA/JP/Oak where those species were present, scattered WP saplings also, mostly aspen on south end and JP/Oak on the north end, approx. 1/3rd of stand is fairly sparse but is functioning well as an opening adjacent to the swamp so no need to supplemental plant	
32	4310 - Pine, Oak Mix	High Density Pole	12.2	Uneven Age	81-110	strip left from when stands to the east were cut, part of strip has been cut also with some JP being removed in 1983-1989, mix of , very variable stand with parts heavy to JP/oakpoles-logs (north) and other parts heavy to RP/WP/Oak L-X's with W# U/S, stand is at least 2 aged and probably multi-aged, extreme SE corner of stand is lower/wetter than the rest of the stand and is havy to WP logs, hold until at least next YOE and then poss. this south 1/2 and CC north 1/2	
33	6113 - Lowland Maple	Low Density Pole	21.3	87		Broad draiange area with lowland HW species, tag alder and marsh grass ground cover/u.s., HW's are very slow growing, with very leittle black ash left, stand is very wet now due to spring runoff with flowing water in spots	
34	6118 - Lowland Deciduous with Cedar	Medium Density Log	12.8	87		wet aspen stand last YOE, aspen falling out of stand but RM filling in nicely, poss. add to OG SCA to west/north	
35	4191 - Mixed Upland Deciduous with Conifer	Medium Density	13.4	16		natural jack pine and hardwood regeneration from 1996 cut, scattered WP poles also	
36	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density Pole	25.4	19		natural and planted jack pine with natural hardwood regeneration, stump sprout oak is almost pole-size, there is one nice A3 clone in the east central part of the stand, rest of the aspen is solitary aspen scattered thru-out the stand	

Roscommon Mg		Mgt. Unit		Report 8 –	Forested	Stands Compartment: 156 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4131 - Aspen, Oak	Medium Density	18.3	5		M6 which was cut in 2007, east and south part is nice A3 regeneration, north and west part is sparser with oak and jack pine and scattered A/RM, scattered larger pine and oak XL's
38	6113 - Lowland Maple	Low Density Pole	10.1	88		low, wet buffer of hardwoods between cut to the west and conifer swamp to the east, not worth cutting due to low stocking and low/wet ground
39	4139 - Aspen, Mixed Deciduous	High Density Pole	24.8	62		aspen/hardwood knob mostly surrounded by lower/wetter terrain, edges of knob which are lower are TA, higher/drier terrain is BTA, final harvest to regenerate aspen
41	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	31.3	14		cut 1997 and planted to JP in 1998, fairly equal mix of A/O/J consisting of aspen clones distributed among areas heavy to O/J saps
43	4131 - Aspen, Oak	High Density Pole	29.7	47		BTA clones separted and interspersed with areas heavy to Oak pols/logs and WP saps/poles, should hold until next YOE no problem
45	6124 - Lowland Spruce- Fir	Medium Density Pole	557.2	Uneven Age		wet swamp conifer stand, west side is heavier to tamarack but west side also has lots of dead trees, scattered WP XL's in spots
46	42260 - Natural Pine, Mixed Deciduous	High Density Log	6.4	Uneven Age		possible Old Growth SCA
47	42260 - Natural Pine, Mixed Deciduous	High Density Log	7.4	102		Potential for OG SCA, records found that they removed RM-A-WB in 1972 with a habitat cut
49	42260 - Natural Pine, Mixed Deciduous	High Density Log	27.1	Uneven Age		
50	6130 - Fir, Aspen, Maple	Medium Density Pole	15.4	87		habitat cut in 1971 by removing RM-A-WB, no other access due to terrain and the highway
51	4130 - Aspen	High Density Pole	12.8	41		habitat cut in 1971 by removing A-RM-WB
55	6130 - Fir, Aspen, Maple	High Density Pole	8.0	41		RM overtopping BF, no access due to terrain and highway, found records that they habitat cut in 1971 removing RM/Aspen/WB/Sugar Maple and left basswood, ash, BF, and BS
56	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	5.9	87		RM and scattered WB/TA overtopping BF, no access due to terrain and highway
58	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	19.0	87		wet cedar stand with scattered HW P-L's and WP XL's, good wildlife stand
59	4191 - Mixed Upland Deciduous with Conifer	Medium Density	6.7	6		stand was part of a cut to the north in compartment 71155, cut in 2006 and removed all A/M/J, most oak, and left R/W pine, now stand is W5O2M2 with scattered oak SL left also, 2 aged

S t	Roscommor	Roscommon Mgt. Unit			Forested	Stands Compartment: 156 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4191 - Mixed Upland Deciduous with Conifer	High Density Log	20.5	Uneven Age	81-110	very variable stand with areas heavy to A and/or RM poles and other areas heavy to Oak L-XL's with WP poles underneath (esp east side adjacent to Old 27), some steeper terrain in parts of the stand,could seed tree but leave R/W pine and 10-20 SF of well-crowned oak (esp. WO) as a seed source, stand should regenerate OK to A/RM in areas heavy to those species, areas which do not regenerate to a fully stocked could be trenched/planted to RP, extend cut to Old 27 to the east into adj. compt, good access to stand off of Old 27.
61	4191 - Mixed Upland Deciduous with Conifer	High Density Log	6.2	92		mix of aspen, oak, and red maple, oldest aspen is 1920 YOO and declining, some younger aspen also, scattered pine poles and logs also, several small wet potholes with "L" alson US 127, north end has a small inclusion of J6 which should be regenerated also if stand is treated
65	42210 - Natural Red Pine	High Density Log	2.4	98	141-170	natural R9 stand which was prescribed burned last YOE in order to get natural RP regeneration, not too successful, fairly open u.s. now, stand has 2 wet potholes in SW part and some steeper terrain also in parts, could try thinning from below to open up canopy, probably could whole tree skid most of cut trees except for larger oaks if operator was careful
66	429 - Mixed Upland Conifers	High Density Log	3.7	Uneven Age	171-200	stand is R/W pine XL's with RM poles underneath, scattered Hemlock P-L's, fairly open u.s. underneath the HW mid-story with lots of blowdown due to shallow soils, probably should leave as any more opening of the canopy could create more blowdown, parts of thsi stand are wetter, possible old growth stand
67	4191 - Mixed Upland Deciduous with Conifer	High Density Log	15.9	Uneven Age	111-140	stand is overall O8W7R7 with areas heavy to W/R pine XL's separated by O/M/A L-X's, stand should be treated by removing A/M/J which is declining, also could mark some O/P to cut an those areas where density of those species is higher, east edge will be at "Y" in 2T, stand is wet in spots which will have to be checked when the line is put in to see if they need to be eliminated from the sale
68	42120 - Planted Jack Pine	High Density Pole	6.4	48		JP planted 1962-1964, scattered solitary BTA and other HW's, u.s. is WP/BF seedlings/saplings, parts of this stand are wet swales with standing water during snow-melt

Report 9 - Nonforested Stands

Compartment: 156 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	20.3	N\A	Unspecified	
11	6229 - Mixed lowland shrub	4.0	No	Unspecified	
13	50 - Water	0.8	N\A	Unspecified	
19	623 - Emergent Wetland	28.0	N\A	Unspecified	
24	3102 - Grass	16.0	Natural Rege	en lixed Upland Deciduous	stand cut in 2007 and not yet forested
30	622 - Lowland Shrub	50.8	No	Unspecified	
40	622 - Lowland Shrub	10.6	N\A	Unspecified	
42	6229 - Mixed lowland shrub	21.8	N\A	Unspecified	
44	622 - Lowland Shrub	7.1	N\A	Unspecified	
48	623 - Emergent Wetland	14.1	N\A	Unspecified	
52	790 - Other Bare/Sparsely Vegetate	3.7	No	Unspecified	barrow pit with rim of planted JP
53	6224 - Treed Bog	16.8	No	Unspecified	
54	623 - Emergent Wetland	24.0	N\A	Unspecified	
57	622 - Lowland Shrub	20.2	N\A	Unspecified	
62	622 - Lowland Shrub	1.9	N\A	Unspecified	
63	50 - Water	3.8	N\A	Unspecified	
64	629 - Mixed non-forested wetland	13.6	N\A	Unspecified	
69	6225 - Bog	5.1	No	Unspecified	