



TIMBER SALE PRESCRIPTION

GENERAL

Date 8/13/08	Forest, Mineral and Fire Management Unit Newberry
Timber Sale Number (if applicable)	Sale Name (or prescription name) Mills Bay Hardwoods

LOCAL CONTACT

Name Keith Magnusson	Telephone (906) 293 - 3293
Email Address magnussk@michigan.gov	FAX (906) 293 - 8530

Map of Project Area Attached

LEGAL DESCRIPTION

T45N R12W Section(s) 31 Description See attached Map

Year of Entry: 2009 Compartment(s):100 Stand Number(s): 97, 100, 101, 105, 113 & 115

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 44 Source: OI GPS Other _____

Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
97	E9	11	110	Selection	Lowland Hardwoods
100	M9	4	100	Selection	Northern Hardwoods
101	E9	26	110	Selection	Lowland Hardwoods
105	A6	1	90	Final Harvest	Aspen
113	M9	1	130	Selection	Northern Hardwoods
115	M9	1	130	Selection	Northern Hardwoods

PRESCRIPTION

Stands 97, 100, 101, 113, and 115

1. Favor (leave) the best future crop tree in place, regardless of species.
2. Leave a component of all hardwood species present.
3. Aspen does not need to be marked, they are designated as a cut species.
4. Do not mark any conifers, they are to be left behind as residual.
5. Mark stand to improve maneuverability within the stand for logging operations to occur.
6. Retain some den/cavity trees if present, or retain potential trees if they are not present.
7. If stick nests are found leave a minimum 1 chain unmarked buffer around the nest tree and contact the Newberry field office for additional requirements.

Stand 105

1. Cruise out all species.
2. Only take Basal Areas on white pine, hemlock and cedar. They are not being cut.
3. This stand will be included with stands 97, 100, 101, 113 & 115 as one timber sale.
4. If stick nests are found leave a minimum 1 chain unmarked buffer around the nest tree and contact the Newberry field office for additional requirements.

Access Proceed west from Newberry on M-28 to County Road 135. Proceed on 135, turn right on County Road 98. Turn left on County Road 465. Turn right on County Road 477, proceed to work area.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
None	

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 08/15/2009

PAINT LINE WORK

This is included in the bid This is not included in the bid

Paint line work to be performed: (See attached map for locations)

TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR	
Private boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

Standards for marking lines against private land

Must be within a minimum of 10 feet of actual property line.

AREA CALCULATION

This is included in the bid This is not included in the bid

UNIT	METHOD	STANDARD
Sale	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	2 meters
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	2 meters
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

Contractor must supply their own GPS Units that are capable of downloading information to a PC.

TIMBER CRUISING SPECIFICATIONS

This is included in the bid This is not included in the bid

Required Basal Area Factor: 10 20 Other:

Cruise Line Directions To be determined at pre-work meeting

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 105	1	2 X 5
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS	~2	

Cruise Special Instructions:

Cruise all aspen, paper birch, mixed hardwood, spruce and balsam fir pulp; cruise both sawlogs and pulp for: paper birch, black cherry, red and sugar maple that may exist. Only record basal areas for any white pine, hemlock and cedar that fall on the cruise plot. These species are not being cut and are to be left as residual. Exact plot center will be marked by placing a stick in the ground, flagged with ribbon marked with the corresponding plot number. These items will be discussed at the pre-work meeting.

Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

TIMBER MARKING SPECIFICATIONS

Stands 97, 100, 101, 113, and 115

This is included in the bid This is not included in the bid

Precise specifications to be delineated at pre-work meeting with DNR staff

Total Merchantable Residual BA (Basal Area): 60 (Minimum 50 to Maximum 70)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	"X" and dots	12"	10"
Sawbolts			
Pulpwood	slash	6"	4"

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
Mixed hardwood species of sawlog quality	1 : 1
Mixed hardwood species of pulp quality	1 : 20
Aspen	1 : 10
	1 :

SPECIAL MARKING INSTRUCTIONS

- Two sided marking on all marked trees.
- Maintain stand diversity across all age classes. Leave a component of all hardwood species present.
- Tally any aspen in the stand. No need to mark aspen, it is all designated to be cut.
- If stick nests are found, leave a minimum 1 chain buffer around the nest tree and contact the Newberry Unit Field Office to determine if any other actions need to be taken.
- Beech Bark Disease is found on the beech trees throughout the stand. While marking, evaluate and mark beech that has been attacked by the beech scale disease but still has merchantable value.
- Dots will be painted on the pulp tally trees so they can be checked.
- Mark all sawlog trees with an "X" with dots to correspond with the number of sawlogs tallied.

Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.

RESTRICTIONS

1. Forest, Mineral and Fire Management Division must be able to identify who did what on the timber sale.
2. The contractor may not have more than two markers in one payment unit without prior approval.
3. Each marker should have an assigned area to mark (not strips).

PAINT

1. Call Keith Magnusson at (906) 293 - 3293, to make arrangements for paint.
2. Paint will be supplied from the Newberry Field Office.
3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.
4. The DNR will not be available on weekends or evenings.

DELIVERABLES

1. A list of names that marked or cruised each payment unit.
2. A summary of paint used (in quarts).
3. Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
4. GPS files for any GPS work.