Massachusetts Department of Conservation and Recreation

Division of Water Supply Protection, Office of Watershed Management

Forest Management Project Summary

Project Title: Marsh Lane

DWSP Harvest Permit Number: WR 4385
DCR Forest Cutting Plan File Number: 134-1647-15

Site Information

Watershed: Ware River	**Town(s)**: Oakham
Acres: 35	**Nearest Road:** Marsh Lane, Rt 122
Natural Heritage Atlas overlap?: Yes	**Public Drinking Water Supply Watershed?:** Yes
Forest Types: Oak – Mixed, Dry	**ACEC?:** No
Soils: Most of the lot is on 253C Hinckley loamy sand, excessively drained. There is also 927C Montauk-Scituate-Canton association, extremely stony, well drained.	
Wetland Resources: Lot is adjacent to wetlands.	
Vernal Pools: No	

Harvest Information

Harvest Start Date: 7/1/15	**Harvest End Date:** 6/30/17
Number of Wetland Crossings: None	**Number of Stream Crossings:** None

Best Management Practices Applied

Stream Crossings	There are no stream crossings.
Filter Strips	Filter strips will comply with MA BMP manual variable width.
Wetland Crossings	There are no wetland crossings.
Harvesting in Wetlands	There is no harvesting in wetlands.

DWSP Forester supervising this harvest
Name: Kenneth W. Canfield
Forester License #: 431
Phone #: 508-882-3636 ext.1603

NARRATIVE

General Description/Forest Composition/History:

This area is mainly pine-oak and pine-hemlock, with a small section of mixed oak. Species present are white pine, red, black, white, and scarlet oak, red maple, hemlock, shagbark hickory, and pitch pine. The overstory health is generally good, though low quality. The understory is made up of white pine and red maple with some oaks, chestnut sprouts, and hemlock. The harvest area is adjacent to a 17 acre overstory removal harvest that was completed in 2001. There has been little recent harvesting within the harvest area.

Invasive shrubs, glossy buckthorn and Japanese barberry, are lightly present on the lot. Hemlock woolly adelgid was also observed on the lot.

The soil is an excessively drained sandy loam.

Site Selection:

The primary goal of the watershed forest management program is to create and maintain a forest that provides high quality drinking water to current users and future generations. In order to achieve this, DWSP has determined that the forest should contain a diversity of species in various stages of development (seedlings through large mature trees). In addition, the forest should be vigorous; actively growing and regenerating. Forests in this condition are resilient to and quickly recover from small and large scale disturbances such as disease, insect infestation, ice storms and hurricanes.

Silvicultural Objectives:

The main purpose of this harvest is to diversify and regenerate the forest. Small (up to 1/3rd of an acre) groups of trees will be removed, generally in areas where the trees have the lowest vigor and poorest form. In between groups, some thinning will be done to remove low vigor trees. Most snags and trees with stick nests, dens or unusual wildlife habitat characteristics will be retained.

This treatment should increase the diversity of species and will increase the age and structural diversity of the forest as a whole.

Cultural Resources:

This land has been determined to not be culturally or archeologically sensitive based on a review by the DCR Archaeologist. Standard practice dictates that every effort is made to avoid disturbing stone walls. There are multiple walls on this lot but it is anticipated that none will need to be crossed.

Wildlife/Rare or Endangered Species:

There are no known vernal pools adjacent to the harvest area. There are NHESP critical habitats adjacent to the lot, but NHESP has determined that the harvest will not result in any significant impacts on that habitat. A variety of wildlife such as deer, turkey, coyote and moose are known to frequent the lot and beaver and otter are in adjacent wetlands.

FIGURES

Figure 1. Final Forest Cutting Plan

Figure 2. Pre-Harvest Photographs from marked photo pts 1 and 2 taken 7/2/15

Figure 3. Post-Harvest Photographs from marked photo pts 1 and 2 taken 6/6/16

Figure 1: Final Forest Cutting Plan

Forest Cutting Plan

and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00
(Effective Date: 1/1/04)

MAR 23 2015
APR 14 2015
– Final –

For DCR Use Only:
File Number 223-7530-15 Case No. ____
Date Rec'd 3-23-15 Nat. Hert. Yes
Earliest Start 4-9-15 Nat. Hert. Imp. No
River Basin Chicopee Pub. Dr. Wat. Ware River Intake
Gen. Obj. L7 ACEC No

Site Information

Location

Town Oakham, lot WR 4385
Road Worcester Rd (Rt122)
Acres 35 Proposed Start Date 5/15
Vol. MBF 59,700 Vol. Cds. 150 Vol. Tons 369

Plan Preparer

Name Kenneth W. Canfield
Address DCR, Division of Water Supply Protection
578 Old Turnpike Rd.
Town, State, Zip Oakham, MA 01068
Phone (508)882-3789 ext.1603
Type of Preparer Mass. Licensed Forester
*Mass. Forester License # 431
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR, Division of Water Supply Protection
Mailing Address 485 Ware Rd.
Town, State, Zip Belchertown, MA 01007
Phone (413) 323-4447 6921
Ch61 ☐ Ch61A ☐ Stew ☐ *Case # ____
Est. Stumpage Value $6000.00

Licensed Timber Harvester**

Name ____
Address ____
Town, State, Zip ____
Phone ____
Mass. Lic. Harvester # ____
**This information may be supplied after the plan is approved, but before work begins.

Best Management Practices

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing				
Existing Structure				
Type of Bottom				
Bank Height (ft)				
Stabilization				

Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)				
Acres to be Harvested				
Resid. Basal Area (>50%?)				

Wetland Crossings

Indicate location on map	WC-1	WC-2	WC-3	WC-4
Length of Crossing				
Mitigation				
Stabilization				

Service Forester Comments

*See attached NHESP review

Filter Strips

Indicate location on map	FS-1	FS-2	FS-3	FS-4
Width (50', 100', or VA)	VA			

Type of Preparer: LF Mass. Lic. For. / TH Lic. Tim. Har / TB Timber Buyer / LO Landowner
Type of Crossing: CU Culvert / BR Bridge / FO Ford / RO Raised
Stabilization: SE Seed / MU Mulch / CO Corduroy / ST Stone
Mitigation: FR Frozen / DR Dry / OT Other
Type of Bottom: LE Ledge / ST Stony / MU Mud / GR Gravel

Note: Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin. Some forestry activities, such as prescribed burning and

OT Other OT Other HB Hay Bales OT Other OT Other Consult MA Forestry BMP Manual for further information.

If Other (OT) is used in any category an explanation must be given on an attached narrative page

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	47.5M	Red Maple	0.5M
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	9.9M
Hemlock	0.2M	Black Oak	
Spruce		White Oak	1.1M
Other Sftwd.		Other Hdwd.	0.2M
White Ash		**Total Mbf**	59.7
Beech		**Cordwood (Cds)**	150
White Birch		**SW Pulp (Tons)**	369
B & Y Birch	0.3M	**HW Pulp (Tons)**	
Black Cherry		**Chips (Tons)**	

*Note: Volumes and values indicated in the Plan are as reported by the plan preparer and have not been independently verified by the service forester upon approval. **Mbf** = thousand board feet.

Stand Treatment

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WO	WK		
Acres	27.9	6.3		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	SE	SE		
Source of Regeneration	SE	AD/SE		

Landowner

Landowner Signature

The most important information on a cutting plan is the Landowner's objective, as this will determine which trees will be harvested and which will remain; **this decision will also determine the future condition of the forest for decades to come.** After having read the Massachusetts Forest Cutting Plan Information Sheet on page one, indicate your objective by checking the appropriate box below.

☒ **LT – Long-term Forest Management**
Planned management of the forest to achieve one or more of the following objectives: produce immediate and maximize long-term income, enhance wildlife habitat, improve recreational opportunities, protect soil and water quality, or produce forest specialty products.

☐ **ST - Short-term Harvest**
Harvest of trees with the main intention of producing short-term income with minimal consideration given to improving the future forest condition, which often results in a forest dominated by poor quality and low value species.

I (we) have read the Massachusetts Cutting Plan Information Sheet, and am aware of my (our) management options.
I (we) hereby certify that I (we) have the legal authority to carry out the operation described above.
I (we) certify that I (we) have notified the Conservation Commission in the town in which the operation is to take place and the abutters of record within two hundred feet of the area to be harvested.
I (we) understand that the volumes and values (Ch61 only) in this plan have not been independently verified by the service forester upon approval and will report final values and volumes to the Director or his/her agent if the final figures differ from those reported.

Signature of landowner(s) — Date: 3-18-15

Service Forester

Determination and Status

	Approved	Disapproved	Expires
Cutting Plan	☒	☐	3-23-17

Signature of Service Forester/Director's Agent — Date: 4/14/15

Extension 1☐ 2☐ Expires / / Ser. For. Ints. / /

Amendment App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐ / /

Final Report and Comments

I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.

Signature of Service Forester/Director's Agent — Date: 6/15/2016

Codes

Forest Types
WP White Pine
WK WP/Hem
WH WP/Hdwd
WO WP/Oak
RP Red Pine
HK Hemlock
HH Hem/Hdwd
BC Blck Cherry
BB Bee/Bir/Map
OH Oak/Hdwd
OM Mixed Oak
RM Red Maple
BE Beech
SF Spruce/Fir
SM Sugar Maple

Designation of Trees
CT Cut Tree
LT Leave Tree
SB Stand Boundary
OT Other

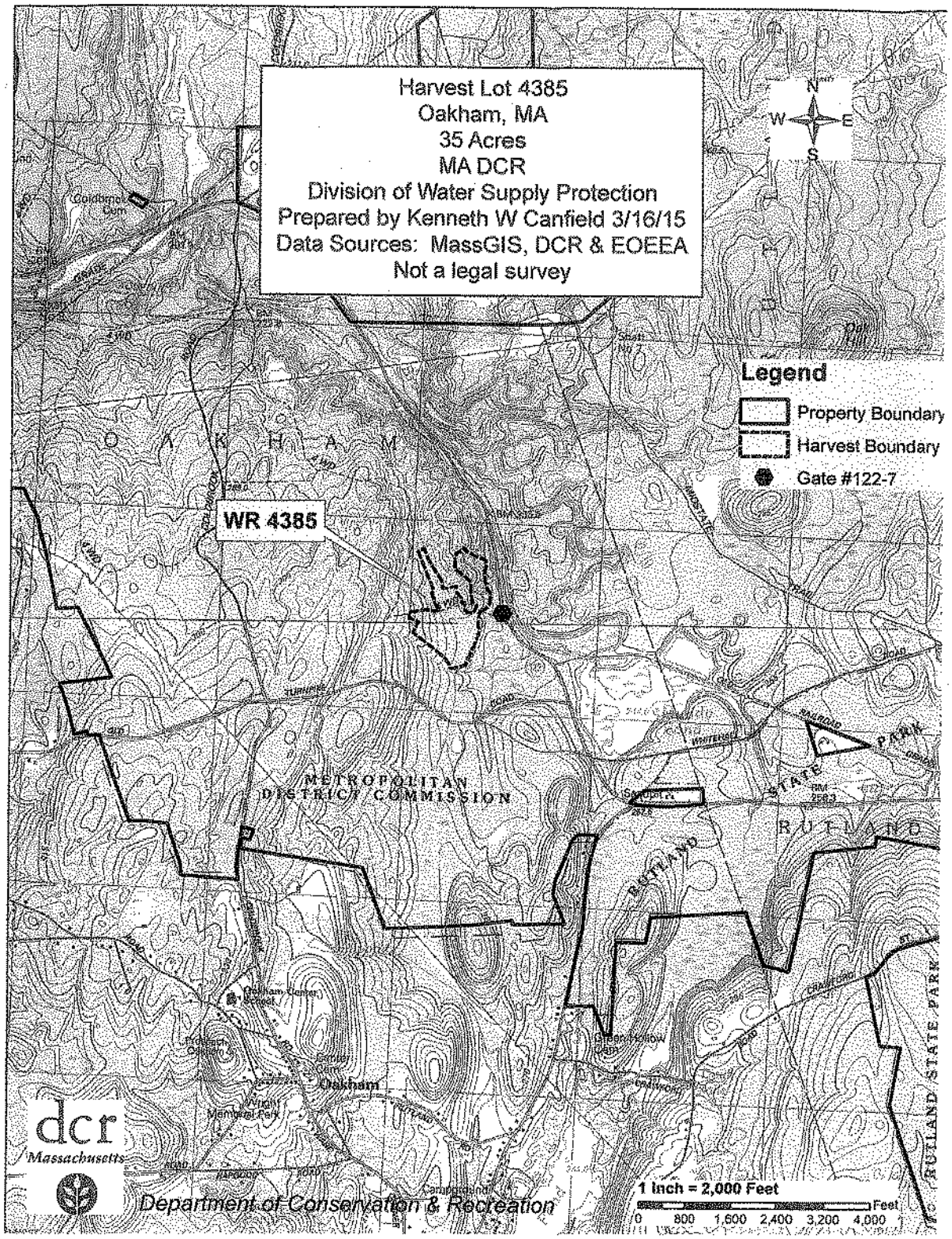
Landowner Objective

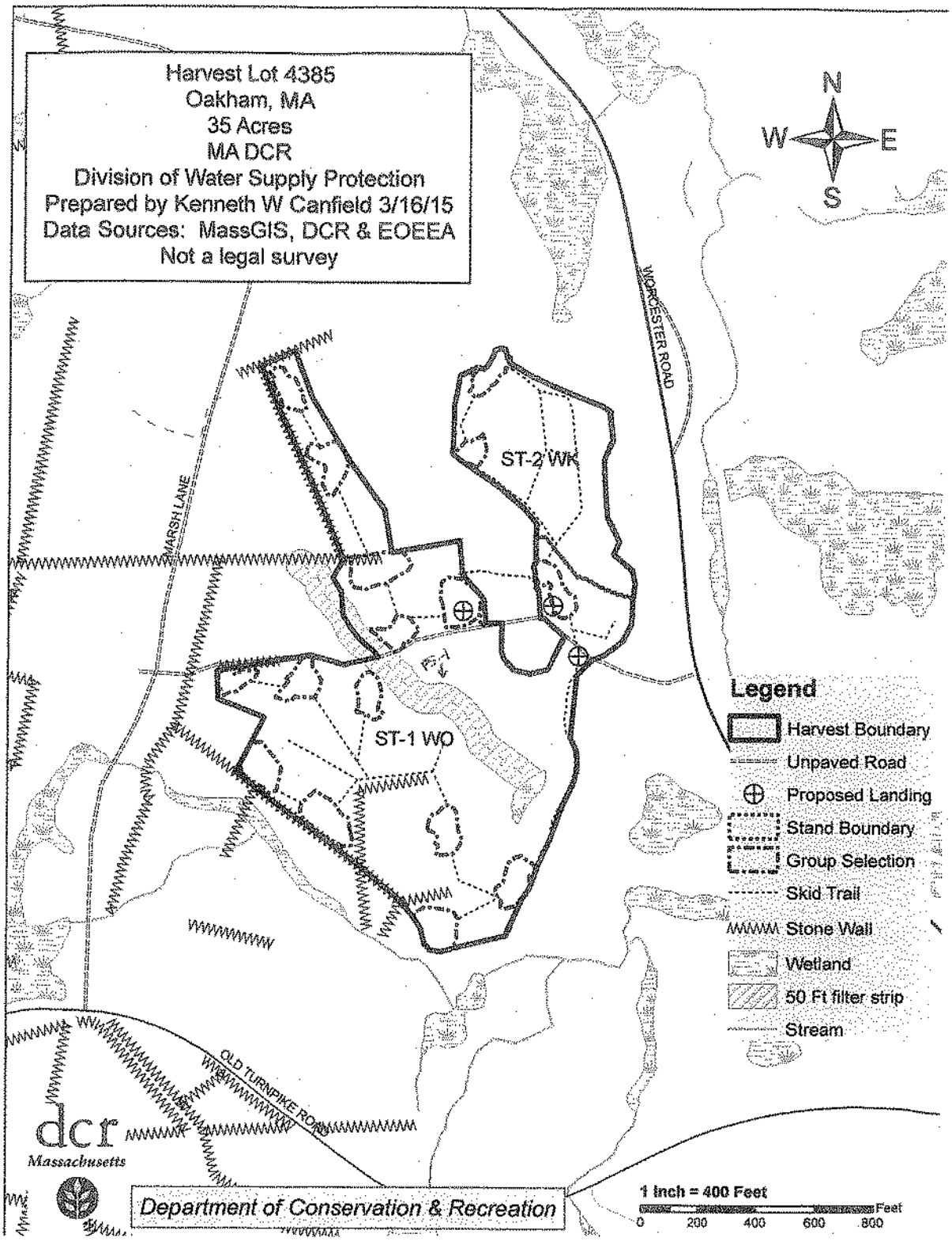
Type of Cut
SH Shelterwood
ST Seed Tree
CC Clear Cut
SE Selection
SA Salvage

Intermediate Harvests:
CT Commercial Thin
NT Non Com Thin

Non-Standard Systems:*
HG Highgrade*

Source of Regeneration
AD Advanced
SE Natural Seed
PL Plant
CO Coppice
DS Direct Seed


Harvest Lot 4385
Oakham, MA
35 Acres
MA DCR
Division of Water Supply Protection
Prepared by Kenneth W Canfield 3/16/15
Data Sources: MassGIS, DCR & EOEEA
Not a legal survey
N
W
E
S
Legend
Property Boundary
Harvest Boundary
Gate #122-7
WR 4385
METROPOLITAN DISTRICT COMMISSION
RUTLAND STATE PARK
Oakham
dcr
Massachusetts
Department of Conservation & Recreation
1 Inch = 2,000 Feet
0 800 1,600 2,400 3,200 4,000 Feet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Oakham, MA
35 Acres
MA DCR
Division of Water Supply Protection
Prepared by Kenneth W Canfield 3/16/15
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Not a legal survey
N
W
E
S
WORCESTER ROAD
MARSH LANE
ST-2 WK
ST-1 WO
OLD TURNPIKE ROAD
Legend
Harvest Boundary
Unpaved Road
Proposed Landing
Stand Boundary
Group Selection
Skid Trail
Stone Wall
Wetland
50 Ft filter strip
Stream
dcr
Massachusetts
Department of Conservation & Recreation
1 inch = 400 Feet
0
200
400
600
800
Feet

Commonwealth of Massachusetts

Division of Fisheries & Wildlife

Jack Buckley, *Acting Director*

Kate Marquis
Department of Conservation and Recreation
355 West Boylston St.
Clinton, MA 01510

Cutting Plan No.	134-1647-15
NHESP Tracking No.	15-34302
Town	Oakham
Road	Worcester Road
Landowner	DCR Watershed
Preparer	Kenneth W. Canfield
Date	April 10, 2015

Dear Kate,

The Natural Heritage and Endangered Species Program (NHESP) of the Massachusetts Division of Fisheries and Wildlife (the Division) has reviewed the above-referenced Forest Cutting Plan (hereinafter "the Plan") pursuant to the special approval procedures of the Forest Cutting Practices Regulations (304 CMR 11.04(6)). Based on details of the Plan and information in the NHESP database, the Division does not expect activities proposed in the Plan to negatively impact Estimated Habitat or result in "Take" (as defined in 321 CMR 10.02) of plant or animal species protected under the Massachusetts Endangered Species Act (MESA) (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00). Therefore, the Division does not require that the Plan be modified at this time.

Please copy the Division on any proposed amendment, extension and on the approved Plan for the site. If you have any questions about this letter, please contact Brent Powers at (508) 389-6354.

Sincerely,

Thomas W. French

Thomas W. French, Ph.D.
Assistant Director

Cc: Conservation Commission (via e-mail)

www.mass.gov/nhesp

Natural Heritage & Endangered Species Program
1 Rabbit Hill Road Westborough, Ma 01581 Tel: (508) 389-6360 Fax: (508) 389-7890

dcr

COMMONWEALTH OF MASSACHUSETTS
Department of Conservation and Recreation
Division of State Parks and Recreation

FILE # 134-1647-15

FOREST CUTTING PLAN CERTIFICATE

W

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that DCR DWSP (Name of Owner) 485 Ware Rd Belchertown (Address) in accordance with the provision of M.G.L. Chapter 132, Section 40-46, filed in Clinton with the Dept. of Conservation and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the Rt 122 lot, Oakham

Approval Date 4/14/2015

Director's Agent Kate Marquis

DCR Phone No. (413) 992-8734

ISSUED BY: Priscilla Geigis

Priscilla E. Geigis, Director
Division of State Parks and Recreation

Figure 2: Pre-Harvest Photographs from marked photo points taken 7/2/15

Pre- Harvest Photo Point 1

Pre-Harvest Photo Point 2

Figure 3: Post-Harvest Photographs from marked photo points taken 6/6/16

Post-Harvest Photo Point 1

Post Harvest Photo Point 2