

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: 6/13/16
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 A & B Pre-Harvest photographs from marked points 1 and 2 taken 7/2/15

Figure 3 A & B Post-Harvest photographs from marked points 1 and 2 taken 6/6/16

Figure 4 A & B After one growing season photographs from marked points 1 and 2 taken 7/17/17

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)

For DCR Use Only:

File Number 222-7530-15 Case No. _____
Date Rec'd 3-23-15 Nat. Hert. Yes 1
Earliest Start 4-9-15 Nat. Hert. Imp. No
River Basin Chicopee Pub. Dr. Wat. Ware River
Gen. Obj. LT ACEC No

MAR 23 2015
APR 14 2015
- Final -

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 692
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				

Wetland Crossings

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

Filter Strips

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

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%)				

Service Forester Comments

See attached NHEHP review

Type of Preparer
LF Mass. Lic. For.
TH Lic. Tim Har
TB Timber Buyer
LP Landowner

Type of Crossing
CU Culvert
BR Bridge
FO Ford
BO Barbed

Stabilization
SE Seed
MU Mulch
CO Corduroy
ST Stone

Mitigation
FR Frozen
DR Dry
OI Other

Type of Bottom
LE Ledge
ST Stony
MU Mud
CR 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

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 Sflwd.		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]

Signature of landowner(s)

3-18-15

Date

Service Forester

Determination and Status

Approved Disapproved Expires

Cutting Plan 3-23-17

[Signature] 4/14/15
Signature of Service Forester/Director's Agent Date

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] 4/15/2015
Signature of Service Forester/Director's Agent Date

Codes

Forest Types	Designation of Trees	Type of Cut	Source of Regeneration
WP White Pine	CT Cut Tree	SH Shelterwood	AD Advanced
WK WP/Hem	LT Leave Tree	ST Seed Tree	SE Natural Seed
WH WP/Hdwd	SB Stand Boundary	CC Clear Cut	PL Plant
WO WP/Oak	OT Other	SE Selection	CO Coppice
RP Red Pine	Landowner Objective	SA Salvage	DS Direct Seed
		Intermediate Harvests:	
		CT Commercial Thin	
		NT Non Com Thin	
		Non-Standard Systems:	
		HG Highgrade*	

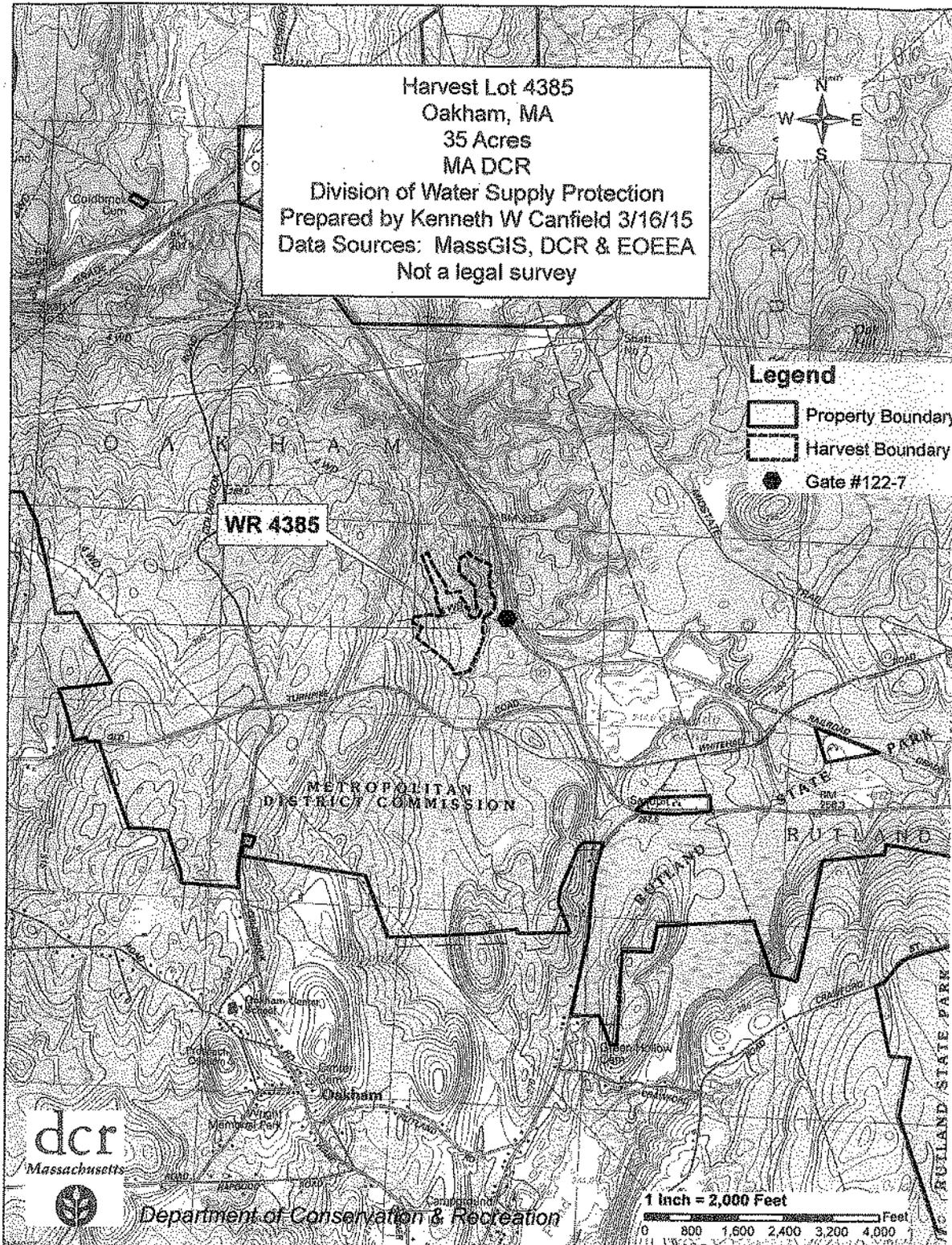
Harvest Lot 4385
Oakham, MA
35 Acres
MA DCR
Division of Water Supply Protection
Prepared by Kenneth W Canfield 3/16/15
Data Sources: MassGIS, DCR & EOEEA
Not a legal survey



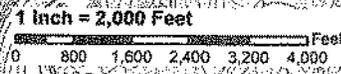
Legend

- Property Boundary
- Harvest Boundary
- Gate #122-7

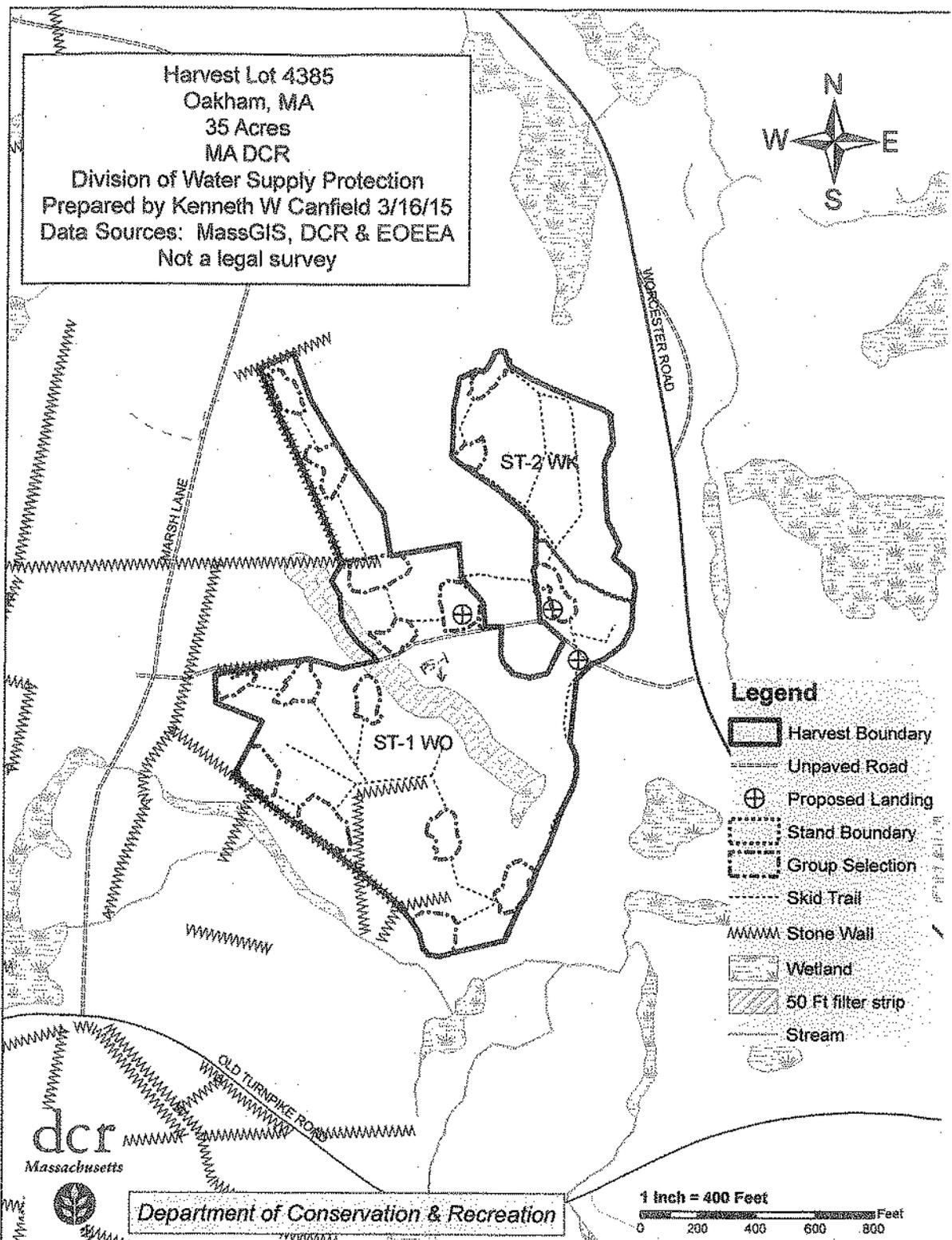
WR 4385



Department of Conservation & Recreation



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



- Legend**
- Harvest Boundary
 - Unpaved Road
 - Proposed Landing
 - Stand Boundary
 - Group Selection
 - Skid Trail
 - Stone Wall
 - Wetland
 - 50 Ft filter strip
 - Stream

dc
 Massachusetts



Department of Conservation & Recreation





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 19, 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, Ph.D.
Assistant Director

Cc: Conservation Commission (via e-mail)





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

FILE # **134-1647-15**

W

FOREST CUTTING PLAN CERTIFICATE

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

This certifies that **DCR DWSP** **485 Ware Rd Belkinton** in accordance with the
(Name of Owner) (Address)

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 Marguts**
DCR Phone No. **(413) 992-8734**

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

Figure 2 A & B Pre-Harvest photographs from marked points 1 and 2 taken 7/2/15

A. From point 1 taken 7/2/15



B. From point 2 taken 7/2/15



Figure 3 A & B Post-Harvest photographs from marked points 1 and 2 taken 6/6/16

A. From point 1 taken 6/6/16



B. From point 2 taken 6/6/16



Figure 4 A & B After one growing season photographs from marked points 1 and 2 taken 7/17/17

A. From point 1 taken 7/17/17



B. From point 2 taken 7/17/17

