Massachusetts Department of Conservation and Recreation Division of Water Supply Protection, Office of Watershed Management Forest Management Project Summary

Project Title: Williamsville Rd

DWSP Harvest Permit Number: 4395	
DCR Forest Cutting Plan File Number: 140-9109-18	

Site Information

Watershed: Ware River Watershed	Town(s): Hubbardston		
Acres: 25.2	Nearest Road: Williamsville Rd		
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes		
Forest Types: White Pine/Hardwood, Oak/hardwood	ACEC?: No		
Soils: 915E Montauk-Canton, 924 C Turnbridge-Lyman-B	erkshire, 927C Montauk-Scituate-Canton, well drained		
Wetland Resources: There is a large wetland present that w	will be avoided, as well as a few smaller wet areas.		
Vernal Pools present or within 200 feet of harvest : Yes.			

Harvest Information

Harvest Start Date: 5/29/18	Harvest End Date: 8/28/18
Number of Wetland Crossings: None	Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings	There is one stream crossing.
Filter Strips	There is harvesting in filter strips.
Wetland Crossings	There are no wetland crossings.
Harvesting in Wetlands	There is no harvesting in wetlands.

DWSP Forester supervising this harvest				
Name: Ken Canfield				
Forester License # 431				
Phone #: 508-882-3636 X 1603				
Email: kenneth.canfield@state.ma.us				

NARRATIVE

General Description/Forest Composition/History:

The harvest area lies south of Willamsville Rd in Hubbardston. The access to this property is across a deeded right-of-way over abutting private property. Public access is not permitted on the right-of-way.

Much of this area was acquired in the 90's by DWSP. The previous landowner had harvested firewood on the property for decades. Most of what was left was low quality, old field white pine. DWSP did conduct one harvest at the time of acquisition, but has not done any management since. The lot has large patches of healthy, diverse pole size regeneration that resulted from the last timber harvest. There are still large patches of forest that are dominated by old field white pine scattered throughout. Those patches will be targeted for removal.

Tree species present are white pine, white, red, black, and scarlet oak, red maple, hemlock, black cherry, American beech, pitch pine, and quaking aspen.

Invasive shrubs are relatively low, except adjacent to the existing field. Some scattered glossy buckthorn and Japanese barberry is present underneath the forest canopy in the harvest area. Invasive shrubs were hand-pulled during the marking of this lot. Harvesting trees in patches puts enough sunlight on the ground to create conditions that will help native tree species out-compete invasive shrubs over time.

The soil is well drained.

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.

This area was chosen because of the large patches of low quality old field white pine. These types of stands are generally less diverse than other types of forests, and are prone to damage during wind events.

Silvicultural Objectives:

The main purpose of this harvest is to regenerate areas that are currently dominated by low quality, old field white pine, to create more diverse and resilient future forest stands. Two larger clearcut patches of 4.7 and 4.0 acres will be harvested, as well as twelve smaller patches that range in size 0.62 to 2.0 acres. Scattered overstory trees will be left within the patches for aesthetic purposes.

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 and other cultural resources. One stonewall will have to be crossed.

Wildlife/Rare or Endangered Species:

No known vernal pools are present within the lot. There are 2 vernal pools within 200 feet of the boundary of the lot. State CMP's and DWSP policy will be implemented to mitigate potential impacts to those areas.

FIGURES

Figure 1 Final Forest Cutting Plan

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	Town Hubbardston									
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Plan Preparer						Ch61 61	A 61B	Stew	*Case	e #
	-					FSC 🗌 CI		Holder		
Name Kenneth W.			-			Liconord	Timber	Uniore	otor#*	
Address 578 Old Turr	npike Rd					Licensed	rimper	пагуе	SLEFT	
Town, State, Zip Oak Phone (508) Type of Preparer LF *Mass. Forester Licens	882-3636	01068				Address Town, State, Phone 97	Zip <u>Hues</u> 8-270-	Upmer Ardsto 9916	NILLE R	d. 214572
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Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	49.3Mbf	Red Maple	1.7 Mbf
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	3.3 Mbf
Hemlock		Black Oak	2.1 Mbf
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	
White Ash		Total Mbf	59.1
Beech		Cordwood (Cds)	367
White Birch		SW Pulp (Tons)	
B & Y Birch	0.4 Mbf	HW Pulp (Tons)	
Black Cherry	2.3 Mbf	Chips (Tons)	1325

*Note: Volumes 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.

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WH	WH		
Acres	16.5	8.7		
Landowner Objective	LT	LT		
Designation of Trees	CT	LT		
Type of Cut	SE	CC		
Source of Regeneration	SE	SE		

Landowner Signature

andowner

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.

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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 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 I	andowner(s)		Date
Determin	ation and Status #140-	9109-18	Final Report and Comments
Cutting Plan	DOm	pires <u>-2.019</u> 11-13-2017 Date	I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with. Signature of Service Forester/Prirector's Agent Date
Signature of Service Forester/Director's Agent Extension 1 2 /		Ser. For. Ints.	
Amendment		/	

Forest	Cutting	Plan
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Narrative Page (Effective Date: 3/15/16) Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4.

Landowner	DCR - DWSP
Town	Hubbardston
File Numher	140-9079-18

Use this Section to provide further explanation or if Other (OT) was used in any category in the Best Management Practices Section on Page 3.

Stand 1 is comprised of twelve group selection openings of less than 2.0 acres. 5 to 10 square feet of basal area per acre of overstory trees will be retained within each group for aesthetic purposes. Trees marked with orange paint will be retained around the edge of each group and within each group. Trees to be cut are marked with blue paint. Stand 2 is comprised of two clearcuts that are 4.7 and 4.0 acres in size. 5 to 10 square feet of basal area per acre of overstory trees will be retained within both clearcuts for aesthetic purposes. Trees marked in orange paint will be retained around the edges of, and within, both clearcuts. The outside edges of both clearcuts have also been flagged with orange

flagging. Skid trails have been flagged with yellow "skid trail" flagging and marked with blue paint.

Use this Section to describe the types of trees to be harvested and/or retained if Other (OT) was used for "Designation of Trees" in the Stand Treatment Section on page 4. Additional narrative description may be added on a separate page.

		Describe Tre	es to be Cut		Describe Tre	es to be Le	:ft	% BA	AC
I	Stand No.	Species	Size	Quality	Species	Size	Quality	Cut	Left
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Use this Section to describe how Chapter 132 requirements will be met if a non-standard system (HG, DL, or ()T) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

Stand No.	Source of Regeneration (ex. AD, SE.)	How will Regeneration be obtained/protected? If using AD - Describe the species present and how the regeneration will be protected If using SE - Describe the source of the seed and the number of seed trees/acre
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Stand No.	Describe what the st	Desired Future Condition tand is expected to look like five years from the harvest, including the condition of the overstory & unds
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Stand No.		
Stand No.	Describe what the st	
Stand No.		Desired Future Condition tand is expected to look like five years from the harvest, including the condition of the overstory & unde

pg 5 of 5

Stream Crossings

Page

gement Practices Information

Indicate location on map	SC-5	SC-6	SC-7	SC-8	5C-9	SC-10
Type of Crossing						
Existing Structure						
Type of Bottom						
Bank Height (ft)	1					
Stabilization					·	

Wetland Crossings

indicate location on map	WC-5	WC-6	WC-7	WC-8	WC-9	WC-10
Length					ł	
Mitigation	· ·					
Stabilization					1	

Filter Strips

				•		
indicate location on map	F5-5	FS-6	FS-7	FS-8	FS-9	FS-10
Width (50',100' or VA)	VA					

Harvesting in Wetlands

Indicate location on map	HW-5	HW-6	HW-7	HW-8	HW-9	HW~10
Forest Type (see pg 2)						
Acres to be Harvested						
Resid, Basal Area (>50%)						[

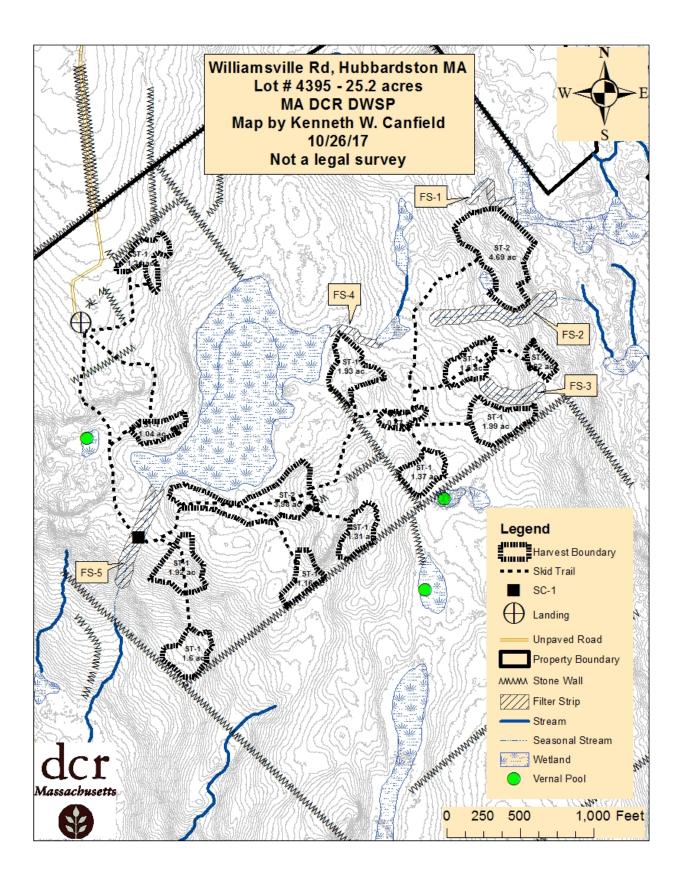
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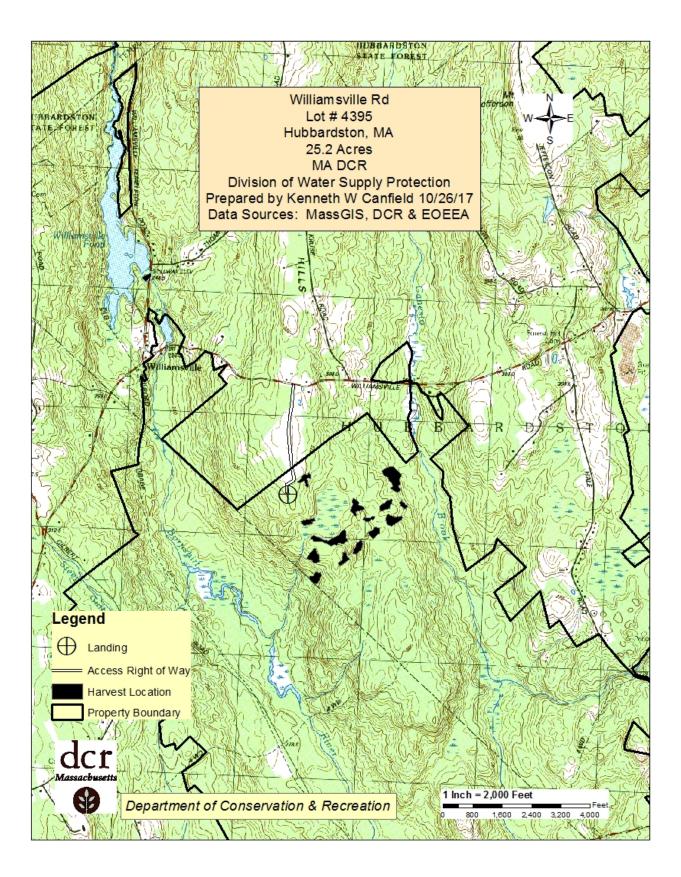
<u>Stablization</u> Type of Crossing Miligation <u>Type of Bottom</u> Ci Culvert BR Bridge FO Ford PO Paled FR Frozen DR Dry SE Seed (E tedge MU Middh ST Story CC Cordaroy OT Other MM Mud S7 Stone GR Gravel OT Other HB Hay Bales 0T Other Of Other

<u>Mote:</u> Applicant most provide DCR with all relevant information before plan may be approved and cutting may begin.

before plan may be approved and cutting may begin. Some furestry activities, such as prescribed burning and pusticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.

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





dcr	COMMONWEALTH OF MASSAG Department of Conservation and Re Division of State Parks and Recreation	ecreation	LE # 140 -9109-18
FORES	ST CUTTING PLAN	CERTIFICATE	
	conspicuous place within the area in which		
	conspicuous place within the area in which that DCR DUSP (Name of Owner)		take place.
This certifies	that DCR DWSP	(Address)	in accordance with the
This certifies to provision of M and Recreation	that DCR DUSP (Name of Owner) A.G.L. Chapter 132, Section 40-46, filed in n, Division of State Parks and Recreation, a	(Address)	with the Dept. of Conservation
This certifies (provision of M and Recreation)	that DCR DUSP (Name of Owner) A.G.L. Chapter 132, Section 40-46, filed in n, Division of State Parks and Recreation, a	Address)	with the Dept. of Conservation products upon the