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

Project Title:

DWSP Harvest Permit Number: 1047	
DCR Forest Cutting Plan File Number: 024-8138-16	

Site Information

Watershed: Quabbin	Town(s): Belchertown		
Acres: 31.8	Nearest Road: Blue Meadow, Ware Rd (rte 9)		
Natural Heritage Atlas overlap? : Yes, but no	Public Drinking Water Supply Watershed?: Yes		
restrictions.			
Forest Types: Red pine, mixed red & white pine	ACEC?: No		
Soils: Canton, Hinckley and Scituate loamy to fine sandy loam, Charlton-Hollis rock outcrop			
Wetland Resources: Sections abut wetlands/small streams and Swift River.			
Vernal Pools: None on lot, 2 are nearby.			

Harvest Information

Harvest Start Date: 8/15/16	Harvest End Date: 9/19/16
Number of Wetland Crossings: None	Number of Stream Crossings: One

Best Management Practices Applied

<u> </u>
Stream Crossings: One existing culvert in permanent gravel road.
Filter Strips: Variable width filter strip used.
Wetland Crossings: There are no wetland crossings.
Harvesting in Wetlands: There is no harvesting in wetlands.

DWSP Forester supervising this harvest
Name: Steven Wood
Forester License #: 257
Phone #: 413-323-6921 ext. 156
Email: Steven.Wood@state.ma.us

NARRATIVES

General Description/Forest Composition/History:

The area to be harvested is in the town of Belchertown and comprises 5 different areas from the Swift River west to Cold Spring Rd. near the power line north of gate 2-1. All the stands are red pine plantations that have been cut at least twice previously. Note that stand 7 on the cutting plan map (3.5 acres by the Swift River) was added after the original lot proposal was written. This is a stand that was originally missed as containing red pine but still fit with all aspects of the proposal and fit well with this timber sale. This addition was approved by all appropriate DWSP personnel.

The stone walls on this lot attest to its history of clearing for agriculture, mostly for pasture. These red pine plantations were most likely established on abandoned pastures in the 30's and 40's.

The primary tree species present are red pine with some white pine and scattered mixed oak (predominately red oak). Other hardwoods include black and paper birch, red maple, ash, and hickory but these mainly occur on the edge of the plantation or where the original planting wasn't successful.

The soils on this lot are primarily sandy loams, Canton, Hinckley and Scituate. In the Stewardship Forest section there is a steeper section that is classified as Charlton-Hollis rock outcrop. All are well drained and workable for most of the year.

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 legacy trees). In addition, the forest should be vigorous; actively growing and regenerating. A forest in this condition is resilient to and can quickly recover from small and large scale disturbances such as diseases, insect infestations, ice storms and hurricanes.

Red pine is generally considered a non-native species to MA and one of our goals has been to convert these stands to native species. Recently they have also been attacked by an exotic insect pest the red pine scale and another pest, the southern pine beetle, was discovered in CT this spring. The outlook for red pine surviving in this area is very poor and the species no longer meets our objectives of having "a diverse mix of healthy trees that are long-lived, well-suited to their location, and vigorously growing and assimilating nutrients".

Silvicultural Objectives:

The goal of this harvest is to build on the success of the work started in the previous harvests by continuing the process of establishing new tree seedlings and providing space for existing regeneration to expand and grow. The diversity of native species present is being maintained and should be greatly enhanced. This combination of structural and species diversity builds resistance and resilience into the forest.

Guided by the principles stated above, the primary purpose of this harvest is the establishment of a new age class by harvesting the remaining overstory of red pine. Since most of these areas were

previously cut there is already various aged regeneration present. Where this advanced regeneration is still vigorous and well formed it will be protected as much as possible during the harvest. There are areas with sapling and poled sized sugar maple and white pine that were marked specifically to be protected and released. The resulting stands should have at least 2 age classes and be much more diverse. Most of these stands won't need treatment again till the thinning/regenerating process is started again.

Wherever possible wildlife habitat features were maintained and protected, such as snags (dead trees) and trees with cavities or nests. Exceptional individuals of all species present were retained in the stand for seed and to enhance diversity.

Cultural Resources:

Stone walls are numerous throughout this area. There are many breaks and barways in these walls and they can easily be used to avoid and protect the stone walls during the upcoming harvest. There are also several cellar holes in the Stewardship Forest section, these have been flagged and are easily avoidable. This is in keeping with DWSP's standard practice, which dictates that every effort is made to keep existing stone walls intact. Otherwise, this area has been determined not to be culturally or archeologically sensitive based on a review by the DCR Archaeologist.

Wildlife/Rare or Endangered Species:

Part of opening 7 and 11 are within a habitat "bubble" designated for protection by the Natural Heritage and Endangered Species Program (NHESP). NHESP has determined that no additional restrictions are needed.

The lot contains no other critical habitats or known rare or endangered species, and no vernal pools. The uplands are home to a variety of wildlife including deer, turkey, coyote and bobcat.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2. Pre-Harvest Photographs A-C

Figure 3. One year after harvest Photographs D & E

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)

03-23-16P01:14_RC

	For DCR Use Only:	
	Z = Z = Z = Z = Z = Z = Z = Z = Z = Z =	
-	File Number (34.8/38/10) Case No.	
	Date Rec'd 3/23/16 Nat. Hert.	77
i	Earliest Start 4/7/// Nat. Hert. Imp.	·N
	River Basin CHICOREE Pub. Dr. Wat. WVF	1051DIM
	Gen. Obj ACEC	<u> </u>

Location					Landowner				
Town Belchertown Quabbin Lot 1047					NameDCR, Division of Water Supply Protection				
				Mailing Address 485 Ware Rd.					
Acres 31.8			rt Date	4/15/16	HARRING FIGURES 100 TO THE O ACC.				
Vol. MBF 285.2 V			_		Town, State, Zip Belchertown, MA 01007				
					Phone (413) 323-6921				
Diam Duamana					Ch61				
Plan Preparer					Est. Stumpage Value 18000				
Name Steven J.	Wood								
	vision of W	ater Sup	olv Protec	ction	Licensed Timber Harvester**				
485 Ward	***************************************	***************************************		***************************************	Name				
Town, State, Zip Bel		/A 0100	7		A 34				
	3) 323-6921				Town, State, Zip				
Type of Preparer Ma	- 				Phone				
*Mass. Forester Licens			••••••••••••	***************************************	Mass. Lic. Harvester #				
*Required for land und		h61A or	Forest St	ewardchi	**This information may be supplied after the plan is approved, but l				
required for faild said	or onor, o	00,11,01		· ++ est (11,111)	work begins.				
Stream Crossin	gs				Harvesting in Wetlands				
Indicate location on map	SC-1	SC-2	SC-3	SC-4	Indicate location on map HW-1 HW-2 HW-3 H				
Type of Crossing	CU ex	-			Forest Type (see pg 2)				
Existing Structure					Acres to be Harvested				
Type of Bottom			1		Resid. Basal Area				
Bank Height (ft)					(>50%?)				
Stabilization	<u> </u>			1					
Wetland Crossir	······································	i			Service Forester Comments				
Wedaild Clossii	igs				Service Porester Comments				
Indicate location on map	WC-1	WC-2	WC-3	WC-4	No MILEO DE TOUTE NO				
Length of Crossing			1		NO NITES! KIS 1/2/C/ (8/1)				
Mitigation					SEE ATTACHED LETTED				
Stabilization					c. » F # 1 V I				
Filter Strips									
T. 3'-4- 14'	500.1	FG.C	F0.2	FG 4					
Indicate location on map	FS-1	FS-2	FS-3	FS-4					
Width (50', 100', or VA)	VA	VA	VA	VA					
Time of Dranagae Tyme of	Tropping \$30	bilization	Mitigat	bian.	pe of Bottom Note:				
Type of Preparer Type of LF Mass. Lic. For. CU Cu TH Lic. Tim, Har BR Br	lvert SE	Seed J Mulch Cordure	FR F DR I	rozen Ory	pe of Bottom Note: Ledge Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin.				

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	59.8 M	Red Maple	
Red Pine	215.2 M	Sugar Maple	
Pitch Pine		Red Oak	4.0 M
Hemlock		Black Oak	4.6 M
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	1.7 M
White Ash		Total Mbf	285.2 M
Beech		Cordwood (Cds)	47
White Birch		SW Pulp (Tons)	330
B & Y Birch		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.

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	RP4			
Acres	31.8			(4)
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SE			
Source of Regeneration	AD/SE			

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 specie

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.

Willin	٤	Pole	
ionature of landox	wner(s	3	

Oak/Hdwd

Bee/Bir/Map

Spruce/Fir

SM Sugar Maple PP Pitch Pine

RP Red Pine

WP/Oak

3	ース	(_	1	6	
Date						

Determination and Status $024 \cdot 3133 \cdot 16$	Final Report and Comments
Approved Disapproved Expires Cutting Plan 3/24//8 1/2//6 Signature of Service Forester/Director's Agent Date	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
App 1 Dis 1 App 2 Dis 2 Amendment	
Forest Types B <t< td=""><td>Type of Cut SH Shelterwood Intermediate Harvests: AD Advanced ST Seed Tree CT Commercial Thin CC Clear Cut NT Non Com Thin PL Plant</td></t<>	Type of Cut SH Shelterwood Intermediate Harvests: AD Advanced ST Seed Tree CT Commercial Thin CC Clear Cut NT Non Com Thin PL Plant

Landowner Objective
LT Long-term Mgt.
ST Short-term Har. HG Highgrade*
DL Diameter Limit*
OT Other* *If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page

Stand Boundary

Selection

Salvage

Non-Standard Systems:*

pg Zof 6

CO Coppic

DS Direct Seed

Forest Cutting Plan

Narrative Page (Effective Date: 1/1/04)
Use this page to provide further explanation or if
Other (OT) was used in any category on pages 3 or 4.

Landowner

DCR, DWSP

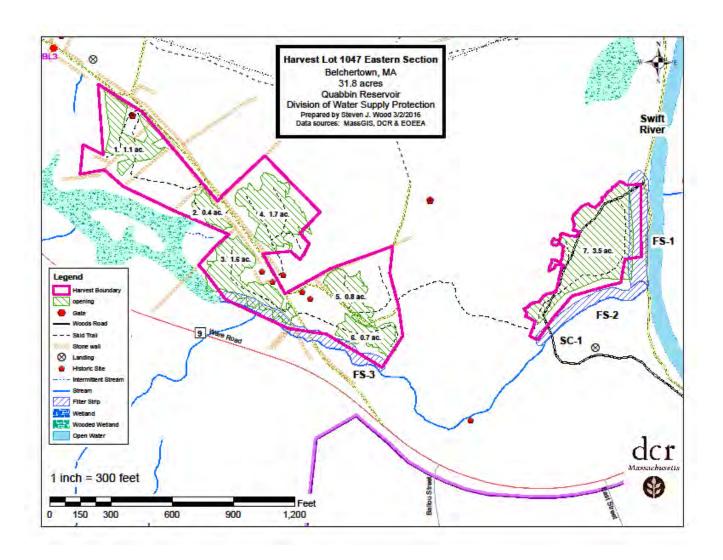
Town

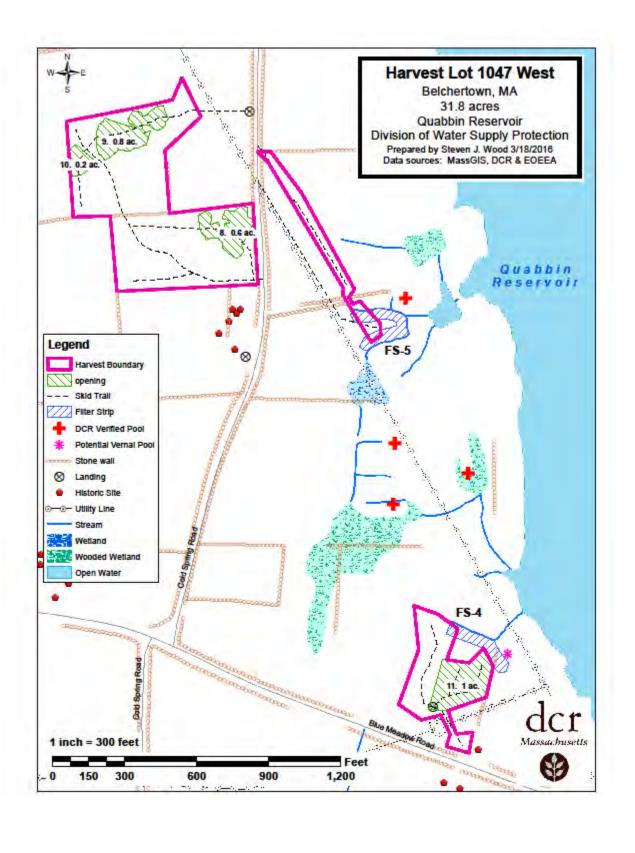
Belchertown

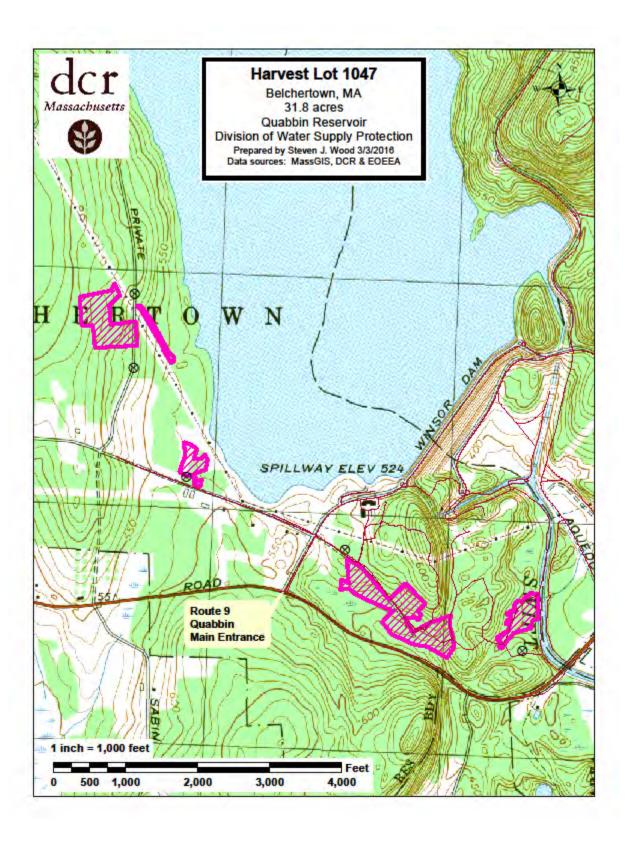
File Number

09.4.8138.16

				e been previously out and have advar	
multiple entri	es this out might r	nore closely	resemble a final overstory removal	of a shelterwood. Goal is to remove	as much of RP as possible before
it dies and est	tablish a new age o	class of more	diverse native species. Some heal	hy, vigorous well formed WP and ha	ardwoods were retained.
. Use ti	his Section to desc	cribe the type	es of trees to be harvested and/or re in the Stand Treatment Sect	tained if Other (OT) was used for "D ion on page 4.	esignation of Trees"
Stand No.	Species to b	e Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed
	-				
	,				
					·····
	Use this Section		now Chapter 132 requirements will for the "Type of Cut" in the Cuttin	be met if a non standard system (HC g Standards Section on page 4.	G, DL, or OT)
Stand No.	Use this Section Source of Regeneration (ex. AD, SE)	was used	for the "Type of Cut" in the Cuttin How will Regeneration be obtain If using AD - Describe the species	g Standards Section on page 4.	II be protected
	Source of Regeneration (ex. AD, SE)	was used	for the "Type of Cut" in the Cuttin How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source of	g Standards Section on page 4. ed/protected? present and how the regeneration wi	Il be protected ses/acre
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Jack Buckley, Director

Doug Hutcheson, Department of Conservation and Recreation 40 Cold Storage Drive P.O. Box 484 Amherst, MA 01004

Cutting Plan No.	024-8138-16
NHESP Tracking No.	05-18522
Town	Belchertown
Road	Off Windsor Dam Road
Landowner	DCR - DWSP
Preparer	Steven J. Wood
Date	April 11, 2016

Dear Doug,

The Natural Heritage and Endangered Species Program ("the NHESP") of the Massachusetts Division of Fisheries and Wildlife ("the Division") has reviewed the above-referenced Forest Cutting Plan ("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,

CC

Assistant Director

Belchertown Conservation Commission (via e-mail)

page 1 of 1

der O

COMMONWEALTH OF MASSACHUSETTS

Department of Conservation and Recreation
Division of State Parks and Recreation

FILE # 0 24-8138-16



FOREST CUTTING PLAN CERTIFICATE

D CR-DWSP	485 WAREN B	SELLHELTOWN, MA 01007
This certifies that (Name of Own		
provision of M.G.L. Chapter 132, Section	40-46, filed in AMHERS	with the Dept. of Conservation
and Recreation, Division of State Parks a	nd Recreation, a Notice of Intent to	cut forest products upon the
4 /VT/ 101/ IV		\bigcap .
50 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		SSUED BY: (~ / / / /
Approval Date H 12 16 Director's Agent DOVG-LAS H DCR Phone No(413) 545-70	UTCHESON "	July Juje

Figure 2: Pre-Harvest Photographs A, B & C

A.



Photo point 1 8/27/15 at road and trail/stone wall intersection, thick white pine regeneration in background.



Photo point 2 taken 8/27/15. Note w. pine regeneration that is suppressed from being shaded for too long and storm damaged.



Section of thick hardwood (mainly sugar maple) saplings and poles which will be protected during harvest.

Figure 3. One year after harvest (7/31/17) photos D & E

D.



Photo point 1 same view as photo A.

E.



Photo point 2 same view as photo **B.**