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: 3144	
DCR Forest Cutting Plan File Number: 204-8233-16	

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 27	Nearest Road: Hunt Road
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: white pine-hardwoods and mixed oak	ACEC?: No
Soils: Chatfield-Hollis and Canton-Chatfield-Hollis asso	ociations
Wetland Resources: none	
Vernal Pools: none	

Harvest Information

Harvest Start Date: July 2016	Harvest End Date:
Number of Wetland Crossings: none	Number of Stream Crossings: none

Best Management Practices Applied

Stream Crossings	none
Filter Strips	none
Wetland Crossings	none
Harvesting in Wetlands	none

DWSP Forester supervising this harvest
Name: Helen Johnson
Forester License #: 383
Phone #: 978-544-6343
Email: Helen.Johnson@state.ma.us

NARRATIVE

General Description/Forest Composition/History:

The area to be harvested is inside DCR-DWSP Gate 18 in the town of New Salem, at the end of Hunt Road. The cutting area is dominated by mature white pine overtopping black birch. Although there are a few oaks, maples, and other hardwoods and occasional hemlocks, tree species diversity is low. One exception is an area along the west boundary, where a ground fire a couple of decades ago resulted in diverse, vigorous seedlings. The only prior harvest in this area was a shelterwood completed in 1969, which resulted in what is now a black birch dominated midstory.

The primary focus of this harvest is on increasing both species and age class diversity by removing small groups of disease- or insect-weakened trees, particularly pines, in patches large enough to stimulate regeneration of a diverse mix of species. Two forest health considerations contributed to the silvicultural decisions for this lot. One is the white pine weevil, an insect that kills the terminal shoots of white pine, causing forks and sweeps in the main stem and weakening the tree's structural integrity. The second is nectria, a fungus that attacks birches, causing cankers that weaken the trunks of infected trees. Removal of these and other weakened trees will improve the health and vigor of the forest, and therefore its ability to withstand disturbances.

The entire lot is on high ground with no water resources. The soils on this lot are primarily Chatfield-Hollis and Canton-Chatfield-Hollis associations. These are well drained to somewhat excessively drained glacial till soils derived from schist and gneiss.

Site Selection:

The primary goal of harvesting on the watershed is to create and maintain a forest that is resilient to and can quickly recover from small and large scale disturbances such as diseases, insect infestations, ice storms and hurricanes, all of which are becoming increasingly common. The ideal way to achieve this is to have a diversity of species in various stages of development (seedlings through large legacy trees) that are actively growing and regenerating. This combination of structural and species diversity builds resistance and resilience into the forest.

This particular lot has very little species diversity, and the two dominant species are subject to insect and fungal threats (white pine weevil and nectria fungus) that are endemic to the region and cannot be eliminated. This harvest will increase the diversity of tree species and ages, and improve the overall health of the forest.

Silvicultural Objectives:

This harvest focuses on removal of the overstory in small groups, ranging from 1/3 to 2 acres in size and averaging 0.7 acres, in order to foster regeneration. Groups were placed where there were clusters of trees that were declining or had weak stem form, with a preference for cutting weevilled white pine and nectria infected black birch. These vulnerable trees will be replaced with vigorous new

seedlings. Wherever possible wildlife habitat features were maintained and protected, such as large diameter logs, snags (dead trees), and den trees. The full diversity of existing native tree species is being maintained and promoted.

Cultural Resources:

Stone walls line the west boundary of the lot, as well as portions of the north and south boundaries. There are some stone walls within the harvest area, evidence that the land was once cleared for agriculture. These include two parallel walls that probably once formed a travel lane between farms. All walls have been avoided as much as possible, and existing barways were utilized whenever possible to minimize damage.

Rare or Endangered Species:

The lot contains no known rare or endangered species.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2: June 2016: Before Harvest Photos, Openings A & B

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)

Location

Site Information

Best Management Practices

Pond 1	Junt 1	Dand (Cata 16		5144	
Koad	nunt i	Koad (Gate Ta			
Acres	21	Pi	roposed :	Start Date May	/ 201
Vol. MBF	69	Vol. Cds.	56	Vol. Tons	89
Plan Pre	par	er			
Plan Pre	Hele	er en Johnson			
Plan Pre	Hele	er en Johnson R-DWSP Qua	bbin Sec	tion	-
Plan Pre	Held DCI 485	er en Johnson R-DWSP Qua Ware Road	bbin Sec	tion	_
Plan Pre	Held DCI 485	er Iohnson R-DWSP Qua Ware Road Belchertown	bbin Sec	tion	

Type of Preparer Mass. Licensed Forester

*Mass. Forester License # 383

*Required for land under Ch61, Ch61A or Forest Stewardship

Stream Crossings No Crossings

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

Wetland Crossings No Crossings

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

Filter Strips No Filter Strips

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

* Actual width of venal pool filter strips = 100 feet

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note:
LF Mass. Lie. Fo TH Lie. Tim. Har TB Timber Buyer LO Landowner OT Other	CU Culvert BR Bridge FO Ford PO Poled OT Other	SE Seed MU Mulch CO Corduroy ST Stone HB Hay Bales OT Other	FR Frozen DR Dry OT Other	LE Ledge ST Stony MU Mud GR Gravel OT Other	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 pesticide or fertilizer application may require additional permits Consult MA Forestry BMP Manual for further information.

For DCR Use Only

TOT DER C	Se only.			
File Number	a04-8233-16	Case No.		
Date Rec'd	5/27/16	Nat. Hert.	NO /	
Earliest Start	6/14/16	Nat. Hert. Imp.	N/A	
River Basin	qualizan	Pub. Dr. Wat.	Quabbin	
Gen. Obj.	LT	ACEC	No	

Landowner

Mailing Address	485 Ware Road
	Helen.Johnson@state.ma.us
Town, State, Zip	Belchertown, MA 01007
Phone	978-544-6343
Ch61 61A	61B Stew *Case #

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

Harvesting in Wetlands None

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

Landownei

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	59.8	Red Maple	0.4
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	0.2
Hemlock	2.7	Black Oak	1.1
Spruce		White Oak	*
Other Sftwd.		Other Hdwd.	
White Ash	0.3	Total Mbf	68.7
Beech		Cordwood (Cds)	56
White Birch		SW Pulp (Tons)	.89
B & Y Birch	4.1	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.

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WH			
Acres	27.7			
Landowner Objective	LT			
Designation of Trees	CT			-
Type of Cut	SE*			
Source of Regeneration	AD/SE			

* Small group and single tree selection, with groups up to 2 acres.

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 th	ees with the main intention of pro
short-term in	come with minimal consideration

oducing shortn 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.

Determin	Determination and Status 200, 8032.0		5722 11	Final Bonart and Commonts		
Setermination and Status 204.023.16			Final Report and Comments			
Cutting Plan	Approved Disa	approved Ex. $\Box \frac{5/2}{2}$	pires <u>28/18</u>	I hereby certify t and all relevant s	hat the afore described For tatutes have been substanti	est Cutting Plan ally complied with.
Signature of Ser	V rvice Forester/Direc	tor's Agent	6/3/16 Date	Signature of Ser	vice Forester/Director's Ag	ent D
		Expires	Ser For Ints			
Extension	1 2		/			
Extension Amendment	1 2 App 1 Dis 1	App 2 Dis 2		_		
Extension Amendment Forest Types WP White Pine	1 2 App 1 Dis 1 HK Hemlock	App 2 Dis 2	Designation of Trees CT Cut Tree	Type of Cut SH Shelterwood	Intermediate Harvests:	Source of Regeneratio
Extension Amendment Forest Types WP White Pine WK WP/Hem WH WP/Hdwd	1 2 App 1 Dis 1 HK Hemlock HH Hem/Hdwd BC Blck Cherry	App 2 Dis 2	Designation of Trees CT Cut Tree LT Leave Tree SB Stand Boundary	Type of Cut SH Shelterwood ST Seed Tree CC Clear Cut	Intermediate Harvests: CT Commercial Thin NT Non Com Thin	Source of Regeneratio AD Advanced SE Natural Seed PL Plant
Extension Amendment Porest Types WP White Pine WK WP/Hem WH WP/Hdwd WO WP/Oak RP Red Pine	1 2 App 1 Dis 1 Image: Constraint of the state of t	App 2 Dis 2 OM Mixed Oak RM Red Maple BE Beech SF Spruce/Fir SM Sugar Maple	Designation of Trees / / 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 Hichorade*	Source of Regeneratio AD Advanced SE Natural Seed PL Plant CO Coppice DS Direct Seed

Forest	Cutting	Plan
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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 Quabbin

New Salem

pg 5 of 5

File Number

Town

		puip, nonzona	ai line = sawlog; vertical line = 1	SI; X = cull	
Blue flagg	ing OR Yellow "Ski	d Trail" = skid	der/forwarder trails		
Orange fla	gging or paint = edg	e of group (pro	otect these trees). Orange "Hazar	rd Tree" flagging may be cut or not, at	operator's discretion.
Pink "Do	Not Cut" flagging =	trees to be pro	tected		
Edan office	and an advantage of the st			-D 1 3.0 1	
Edge of ha	avest marked with tr	free blue dots o	of paint and/or pink "Timber Har	vest Boundary" flagging.	
Us	se this Section to des	cribe the types	of trees to be harvested and/or re in the Stand Treatment Sec	etained if Other (OT) was used for "De tion on page 4.	esignation of Trees"
Stand No.	o. Species to b	e Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Remov
	Use this Section	to describe ho was used fo	w Chapter 132 requirements will or the "Type of Cut" in the Cuttir	l be met if a non standard system (HG, ig Standards Section on page 4.	, DL, or OT)
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SETTS FILE # 204-8233-16	ERTIFICATE	harvesting operation is to take place. Word Belcharchwar, Ma accordance with the (address) (addres
dCT COMMONWEALTH OF MASSACHU: Department of Conservation and Recrea Division of State Parks and Recreation	FOREST CUTTING PLAN CI	Post this in a conspicuous place within the area in which the This certifies that NR-DWSP Quicbbin 485 (Name of Owner) provision of M.G.L. Chapter 132, Section 40-46, filed in and Recreation, Division of State Parks and Recreation, a Not Hunt Rd (nate 18) lot. (Lot 3144) Approval Date 6 216 Approval Date 6 216 DCR Phone No. (413) 262-2367 DCR Phone No. (413) 262-2367

Figure 2: June 2016: Before Harvest Photos, Openings A & B

A. Note the evidence of past fire damage: charred stump at bottom left, charred log and tree trunks at center. The wood against the tree was found near an old (and illegal) fire ring.



Close up of fire damaged trees to be cut.



B. This opening will be primarily to the right of the stone wall at the center of the photo.

