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

Project Title: Hardwick and Petersham 32A Pine

**DWSP Harvest Permit Number: 1055** 

DWSP Proposal ID: HA 18-13

DCR Forest Cutting Plan File Number: 234-9453-19

#### Site Information

Watershed: Quabbin

Town(s): Hardwick & Petersham

Acres: 40

Nearest Road: Petersham Road Natural Heritage Atlas overlap: No

Public Drinking Water Supply Watershed: Quabbin

Forest Types: White Pine/Hardwoods, White Pine/oak and Red Pine

Area of Critical Environmental Concern (ACEC): No

Soils: Charlton-Chatfield-Hollis association (925E, C), Charlton-Paxton association (902E),

Woodbridge-Paxton (910C)

Wetland Resources: Seeps, streams and wetlands present.

Vernal Pools: None

#### **Harvest Information**

Harvest Start Date: 1/17/2019 Harvest End Date: 2/20/2019 Number of Wetland Crossings: One Number of Stream Crossings: Four

#### **Best Management Practices Applied**

Stream Crossings: Portable bridges utilized. Seed and corduroy used for soil stabilization.

Filter Strips: Three of variable width

Wetland Crossings: One Harvesting in Wetlands: None

#### **DWSP Forester supervising this harvest**

Name: Steven J. Wood

Forester License number: 257 Phone number: (413) 323-6921 Email: steven.wood@state.ma.us

#### **Narrative**

#### General Description/Forest Composition/History

The area to be harvested is half in Hardwick and half in Petersham and is just south of lot 1054 and has a landing in common with it (north one which might not be used). Lot is all on the west side of route 32A and abuts private property to the south.

The stone walls on this lot attest to its history of being cleared for agriculture, mostly for pasture. When the farmland was abandoned, probably in the late 19<sup>th</sup> or early 20<sup>th</sup> century, it reverted to forest. One of these areas along 32A was planted with red pine in the 40's. This stand was thinned in the 80's (as was most of the lot) and since then the red pine has declined from a non-native insect, the red pine scale. A root rot is most likely also present. Sapling to pole sized white and black birch is common in the understory with some white pine and red maple mixed in. Seedlings of most native trees are scattered throughout.

The rest of the harvest is in white pine/hardwood or white pine/oak stands which had also been previously thinned with a few openings up to 1/4 acre created. These stands regenerated similarly to the red pine, but most areas were cut again around 2000 and came back to mainly white pine, black birch and red maple with scattered oak in some areas. Some of the white pine in overstory are quite large and, especially on western side of lot, is declining, possibly from one of the needle funguses that have been common recently. The southwestern stand has some large oak which has been impacted by spongy moth defoliation in the last 2 years with some mortality occurring this year. Dead snags of white and red pine (numerous), along with some hardwoods are scattered throughout and will be left standing, as much as possible, during the harvest.

The primary tree species present in overstory are white pine with black birch, red maple and mixed oaks (predominately red oak). Other hardwoods include paper birch, aspen, ash, sugar maple and black cherry. On the area with red pine, it is the predominate species with most of the other species above scattered throughout the stand.

The soils on this lot are primarily Charlton-Chatfield-Hollis association (925E, C), Charlton-Paxton association (902E) and Woodbridge-Paxton (910C). Most are well drained and stony though some areas around the wetlands/streams/seeps could be easily rutted.

#### 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. 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.

This site was chosen since the stands overstory is predominantly even-aged and the red pine and oak were declining. Also, there is healthy, vigorous and diverse regeneration present that wouldn't stay in that condition much longer.

#### Silvicultural Objectives

The goal of this harvest is to build on the success of the work started previously 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. 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 part of the overstory in small groups, up to 2.7 acres in size, in order to foster regeneration. Groups were placed according to our guidelines. Areas where there were clusters of trees that were declining or had weak stem form, often due to insects, diseases, or storm damage, were specifically targeted. Where there were groups of regeneration created from the previous cut these were expanded upon by cutting a new abutting group. The southwestern stand had more of the overstory removed in the past and has a more variable age structure currently. This cut removes about 2/3rds of the remaining overstory and should be the last harvest here till the newer growth becomes merchantable. The red pine stand was already regenerated and well stocked with hardwood poles up to about 9" diameter so this area is having the remainder of the red pine overstory cut. It is just over 2 acres and has scattered white pine and hardwood stems from the original overstory retained along with as much of the hardwood poles as possible.

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 be used to avoid and protect the stone walls during the upcoming harvest. 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.

#### Rare or Endangered Species

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

## Figure 1. Final Forest Cutting Plan

and Notice of Intent Chapter 132 – The F		M.G.L.			File Number 234.9453.  Date Rec'd 7/11/18  Earliest Start 7/26/18	Nat. Hert. Nat. Hert.	Imp. No	/
Practices Act, 304 Cf					River Basin Chicapee	Pub. Dr. V		
Effective Date: 1/1/04)					Gen. Obj. LT	_ ACEC	NO	
, , , , , , , , , , , , , , , , , , ,	07-	11-13	PU1:2	1 1 / 1	FINAL (3/19)			
Location					Landowner			
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Town Hardwick & Road Petersham I		n Quabi	oin lot 10	33	Name <u>DCR, Divis</u>		upply Protec	tion
Acres 40			nt Dete	0/1/2010	Mailing Address 485	Ware Rd.		
				8/1/2018				
Vol. MBF 220 V	or. Casi	15	Vol. Tor	is 263	Town, State, Zip Belcl		01007	
						323-6921		
Plan Preparer			180		Ch61 Ch61A		*Case #	
Name Steven J.	Weed				Est. Stumpage Value §	35,125.00		
	vision of W	ater Sup	ply Prote	ction	Licensed Timber	r Harveste	r**	
485 Ware	Rd.				Name Steve Gla	SZCZ		
Town, State, Zip Beld	hertown, l	MA 0100	)7			infield Rd.		
Phone (413	213-794	4			Town, State, Zip Belch		1007	
Type of Preparer Mas	s. License	d Foreste	r		Phone 413 362-9			
Type of Preparer <u>Mass. Licensed Forester</u> *Mass. Forester License # _257				Mass. Lic. Harvester #1156				
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*Required for land und		h61A or	Forest St	ewardship		****	lan is approved,	but befor
Stream Crossing	JS SC-1	SC-2	SC-3	SC-4	Harvesting in \ Indicate location on map	****		
Stream Crossing  Indicate location on map  Type of Crossing	SC-1 BR	SC-2 BR	SC-3 BR	SC-4 BR	Harvesting in \ Indicate location on map Forest Type (see pg 2)	Wetlands		
Stream Crossing Indicate location on map Type of Crossing Existing Structure	SC-1 BR N	SC-2 BR N	SC-3 BR N	SC-4 BR N	work begins.  Harvesting in \ Indicate location on map Forest Type (see pg 2) Acres to be Harvested	Wetlands		
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Stream Crossing Indicate location on map Type of Crossing Existing Structure Type of Bottom Bank Height (ft)	SC-1 BR N ST 0.5	SC-2 BR N ST 0.5	SC-3 BR N ST 0.5	SC-4 BR N ST	work begins.  Harvesting in \ Indicate location on map Forest Type (see pg 2) Acres to be Harvested	Wetlands		
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Stream Crossing Indicate location on map Type of Crossing Existing Structure Type of Bottom Bank Height (ft)	SC-1 BR N ST 0.5 CO/SE	SC-2 BR N ST 0.5	SC-3 BR N ST 0.5	SC-4 BR N ST	Harvesting in \ Indicate location on map Forest Type (see pg 2) Acres to be Harvested Resid. Basal Area	Wetlands	Y-2 HW-3	
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Stream Crossing Indicate location on map Type of Crossing Existing Structure Type of Bottom Bank Height (ft) Stabilization Wetland Crossin Indicate location on map Length of Crossing Mitigation Stabilization Filter Strips Indicate location on map	SC-1   BR   N   ST   0.5   CO/SE	SC-2 BR N ST 0.5 CO/SE WC-2 FS-2 VA	SC-3 BR N ST 0.5 CO/SE WC-3	SC-4 BR N ST I SE	Harvesting in \ Indicate location on map Forest Type (see pg 2) Acres to be Harvested Resid. Basal Area (>50%2)	Wetlands HW-1 HV	ents	HW

#### Products to be Harvested\*

Species	Mbf/Cds		Mbf/Cds
White Pine	165.8 M	Red Maple	4.5 M
Red Pine	15 M	Sugar Maple	
Pitch Pine	J	Red Oak	23.2 M
Hemlock		Black Oak	2.9 M
Spruce		White Oak	4.3 M
Other Sftwd.		Other Hdwd.	
White Ash	1.0 M	Total Mbf	220.0
Beech		Cordwood (Cds)	115
White Birch		SW Pulp (Tons)	263
B & Y Birch	3.4 M	HW Pulp (Tons)	
Black Cherry		Chins (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	WO4		37.	
Acres	40			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SE		0	
Source of Regeneration	AD/SE			

Landowner Signature
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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.

∠T – Long-term Forest Management

Hemlock

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) errify 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.

Determination and Status 234.9453.19	Final Report and Comments
Signature of landowner(s)	Date
	7-6-18

Determination and Status 234.9453.19					Final Report and Comments	
Cutting Plan	Approved	Disapproved	Malls	res 11   26 -18 - 18 Date	I hereby certify that the afore described Forest Cutt and all relevant statutes have been substantially con Signature of Service Forester/Director's Agent	
Extension	1	2 _	Expires /	Ser. For. Ints.		
Amandarant	App I I	Dis 1 App 2	Dis 2	,		

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

Forest Types
WP White Pine
WK WP/Hem
WH WP/Hdwd
WO WP/Oak
RP Red Pine
SR Red Spruce Designation of Trees
CT Cut Tree
LT Leave Tree
SB Stand Boundary
OT Other
Landowner Objective
LT Long-term Mgt
ST Short-term Har. Type of Cut
SH Shelterwood
ST Seed Tree
CC Clear Cut
SE Selection
SA Salvage
SN Sanitation HK HH BC BB OH OR Intermediate Harvests: CT Commercial Thin NT Non Com Thin Non-Standard Systems:\* HG Highgrade\* DL Diameter Limit\* OT Other\* OM RM BE SF SM PP Hemlock Hem/Hdwd Blck Cherry Bee/Bir/Map Oak/Hdwd N Red Oak Red Maple Beech Spruce/Fir Sugar Maple Pitch Pine

Mixed Oak

\*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page

pg 4 of 5

# **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

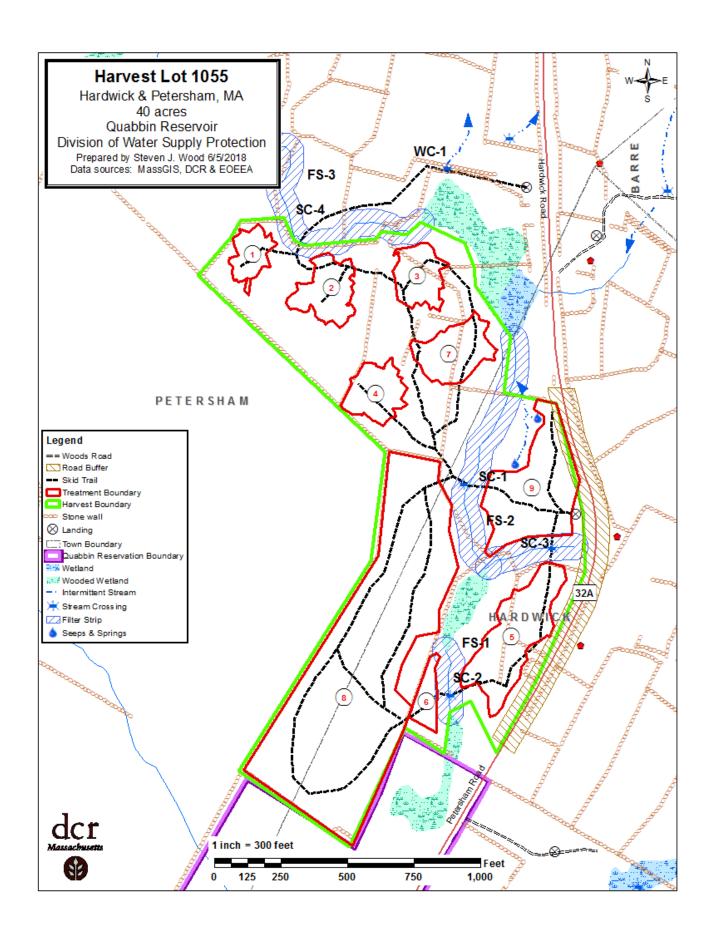
Town Hardwick

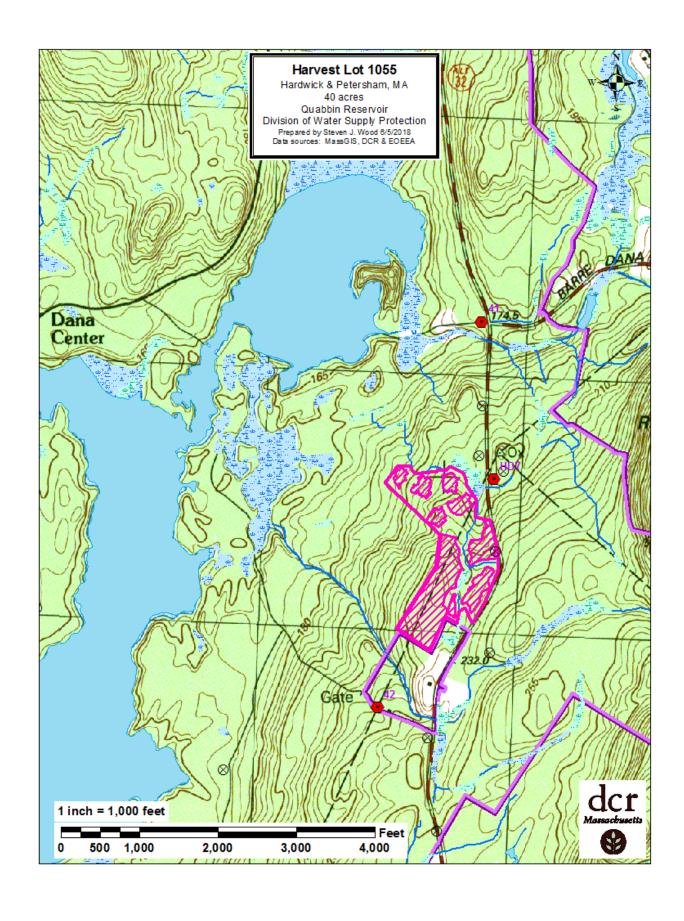
File Number

er 234.9453.19

		er evolunation or	if Other (OT) was used in a	ny category in the Best Management	Donation Fortion on Dona 2
Use this Sec	tion to provide furth	or explanation of	If Office (O1) was ased in a	m) omogon)	Practices Section on Page 3.
Note WC-1	is same crossing as	n approved cuttir	ng plan 234-9313-18 for abu	tting lot. This is an optional landing a	and may not be needed. Other
than opening	g 5, all areas had bee	n cut multiple tim	nes over last 30 yrs. Opening	2 and 5 have 10-30 BA retained. Oth	her small groups (1,3,4,6,7,9)
5-10 BA rete	ention but plenty of	advanced regener	ation and range from 0.4 ac	to 2.7 ac. The largest is 9 and has an	area of red pine which is all b
		****		e largest section is 8 at 11.3 acres. Th	
				on for awhile. Lots of saplings, poles	
and is alread	ly ili a mani-aged co	nutron, this will	be the final cut on this seen	on for awine. Bots of suprings, pores	and logacy need for reconstor
Use	this Section to descr	ibe the types of tr	ees to be harvested and/or re in the Stand Treatment Sec	etained if Other (OT) was used for "D tion on page 4.	Designation of Trees"
Stand No.	Species to be	Cut S	ize of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed
		<del> </del>			
			- ,		April 1971
Stand No.		was used for the	e "Type of Cut" in the Cuttir	I be met if a non standard system (HO standards Section on page 4.	G, DL, or OT)
Stand No.	Use this Section t  Source of Regeneration (ex. AD, SE)	was used for the  How v  If usin	e "Type of Cut" in the Cuttir will Regeneration be obtain g AD - Describe the species	ng Standards Section on page 4.	ill be protected
Stand No.	Source of Regeneration	was used for the  How v  If usin	e "Type of Cut" in the Cuttir will Regeneration be obtain g AD - Describe the species	ng Standards Section on page 4.  ned/protected?  present and how the regeneration wi	ill be protected
Stand No.	Source of Regeneration	was used for the  How v  If usin	e "Type of Cut" in the Cuttir will Regeneration be obtain g AD - Describe the species	ng Standards Section on page 4.  ned/protected?  present and how the regeneration wi	ill be protected
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pg 5 of 5







### **COMMONWEALTH OF MASSACHUSETTS**

FILE # 234. 9453 - 19

Department of Conservation and Recreation
Division of State Parks and Recreation

## FOREST CUTTING PLAN CERTIFICATE



Post this in a conspicuous place within the area in which the harvesting op	peration is to take place.
	Ichertown, MA in accordance with the OLOO7
provision of M.G.L. Chapter 132, Section 40-46, filed in Amherstand Recreation, Division of State Parks and Recreation, a Notice of Intent to Quabbin 1055 lot. (Recreation), Harwick/Peles	o cut forest products upon the
Approval Date 7/18/18  Director's Agent Andrew Rawcliffe / Sear Libbery  DCR Phone No. (6/7) 548-1677/(4/3) 545-4639	Priscilla E. Geigis, Director Division of State Parks and Recreation