

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: 3136

DWSP Proposal ID: PT-15-12

DCR Forest Cutting Plan File Number: 234-7336-15

Site Information

Watershed: Quabbin

Town(s): Petersham

Acres: 60

Nearest Road: Route 122

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Forest Types: Mixed Oak

ACEC?: No

Soils: Charlton Montauk loamy till with scattered granite-gneiss outcrops

Wetland Resources: None

Vernal Pools: None

Harvest Information

Harvest Start Date: January 12, 2015

Harvest End Date: January 12, 2017

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: Derek Beard

Forester License #: 14

Phone #:

Email: derek.beard@mass.gov

NARRATIVES

General Description/Forest Composition/History

This mix oak area is located on the west slope of Soapstone Hill roughly 3 miles south of gate 35 (Old North Dana Rd.). Scattered stone piles suggest the area was used as semi-improved pasture prior to state ownership. The south end of Soapstone Hill is home to a vista accessed by a foot path traversing the ridge. An early 1980s salvage thinning removed gypsy moth infested oak. Understory consists of witch hazel, white pine and black birch.

Area substrate is a well-drained rocky Charlton Montauk loamy till with scattered granite-gneiss outcrops.

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. Forest in this condition is ideally suited to be resilient to and quickly recover from small- and large-scale disturbances such as disease, insect infestation, ice storms and hurricanes.

The area's mix oak forest has a very uniform overstory structure. Given the goal of structural diversity, this forest's lack of young or middle age development requires that some regeneration cutting begin.

Objectives

Diversifying the area's forest structure is the primary objective of the project. This will be accomplished by making a series of small forest openings randomly spaced through the area. Specifically, there are 29 openings covering 7.5 of the 60 acres with an average opening size of 1/3 acre. The well drained till soils are suited for hardwood regeneration. However, white pine is a possibility if the harvest is completed during a seed year.

Cultural Resources

There are several cellar holes in the vicinity of the log landing area. In addition, an old town marker was found on the northwestern edge of the project area. All features will be identified for protection during the operation.

Wildlife Resources

The harvest area does not overlap or abut any priority floral or faunal habitat as compiled by MA Fish & Wildlife's Natural Heritage & Endangered Species program. No unusual wildlife, or wildlife sign has been seen in, or adjacent to, the area. Maintenance of habitat mainly in the form of partially alive and dead standing trees, known as *snags*, will be a priority.

Figure 1: Forest Cutting Plan

Figure 2: Camera point photos

Figure 1:

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)

NOV 26 2014

For DCR Use Only:

File Number 34-336-15 Case No. NOI
Date Rec'd 11-26-14 Nat. Hert. N/A
Earliest Start 12-12-14 Nat. Hert. Imp. N/A
River Basin Quabbin Pub. Dr. Wat. NO
Gen. Obj. LT ACEC NO

EXTENSION #1

FINAL (10/17)

Site Information

Location TIMBER LOT 3136

Town Petersham
Road Old North Dana Rd. (Gate 35)
Acres 60 Proposed Start Date _____
Vol. MBF 42.6 Vol. Cds. 165 Vol. Tons 21

Plan Preparer

Name Derek Beard
Address DCR – Div. of Water Supply Protection
21 Elm St.
Town, State, Zip New Salem, MA 01355
Phone 978-544-6343
Type of Preparer LF
*Mass. Forester License # 14
*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 412-323-6921
Ch61 ☐ 61A ☐ 61B ☐ Stew ☐ *Case # _____
CR ☐ CR Holder _____

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)				

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

EXTENSION #1: Expires 12-10-2016
FE 11/16/16

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud
LO Landowner	PO Poled	ST Stone		GR Gravel
OT Other	OT Other	HB Hay Bales		OT Other
		OT Other		

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 pesticide 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 an attached narrative page

pg 3 of 5

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	2.8	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	24.6
Hemlock		Black Oak	3.3
Spruce		White Oak	6.5
Other Sftwd.		Other Hdwd.	4.2
White Ash		Total Mbf	42.6
Beech		Cordwood (Cds)	165
White Birch		SW Pulp (Tons)	21
B & Y Birch	1.2	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	

DCR - DWSP - QUABBIN - TIMBER LOT 3136

*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	OM			
Acres	60			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SE			
Source of Regeneration	SE/AD			

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)

11-20-14

Date

Determination and Status

Approved ☒ Disapproved ☐ Expires 12/12/16

Cutting Plan ☒ *[Signature]* 12/10/14

Signature of Service Forester/Director's Agent Date

Extension 1 ☒ 2 ☐ Expires 12/12/17 Ser. For. Ints. FC

Amendment App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐ 1

Final Report and Comments

I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.

[Signature]

Signature of Service Forester/Director's Agent

10/4/17

Date

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

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

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-Quab

Town Petersham

File Number 244-1336-15

TIMBER LOT 3136

BMPS

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.

This group selection (small patch cuts) timber harvesting project consists of 27 canopy openings spread across 60 acres. Opening size ranges from one tenth acre to four tenths of an acre with an average of three tenths of an acre or 1/3 acre. The 27 openings cover a total of 7.5 acres.

A foot path bisects the harvest area. Skid roads cross the foot path in two locations. A 100 foot buffer either side of the foot path, where limited harvesting occurs, has been established (identified on the ground with neon pink flagging). Property line blazed and painted in 2014.

Designation of Trees

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.

Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed

Regeneration & Future Condition

Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, DL, or OT) 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

Stand No.

Desired Future Condition

Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory

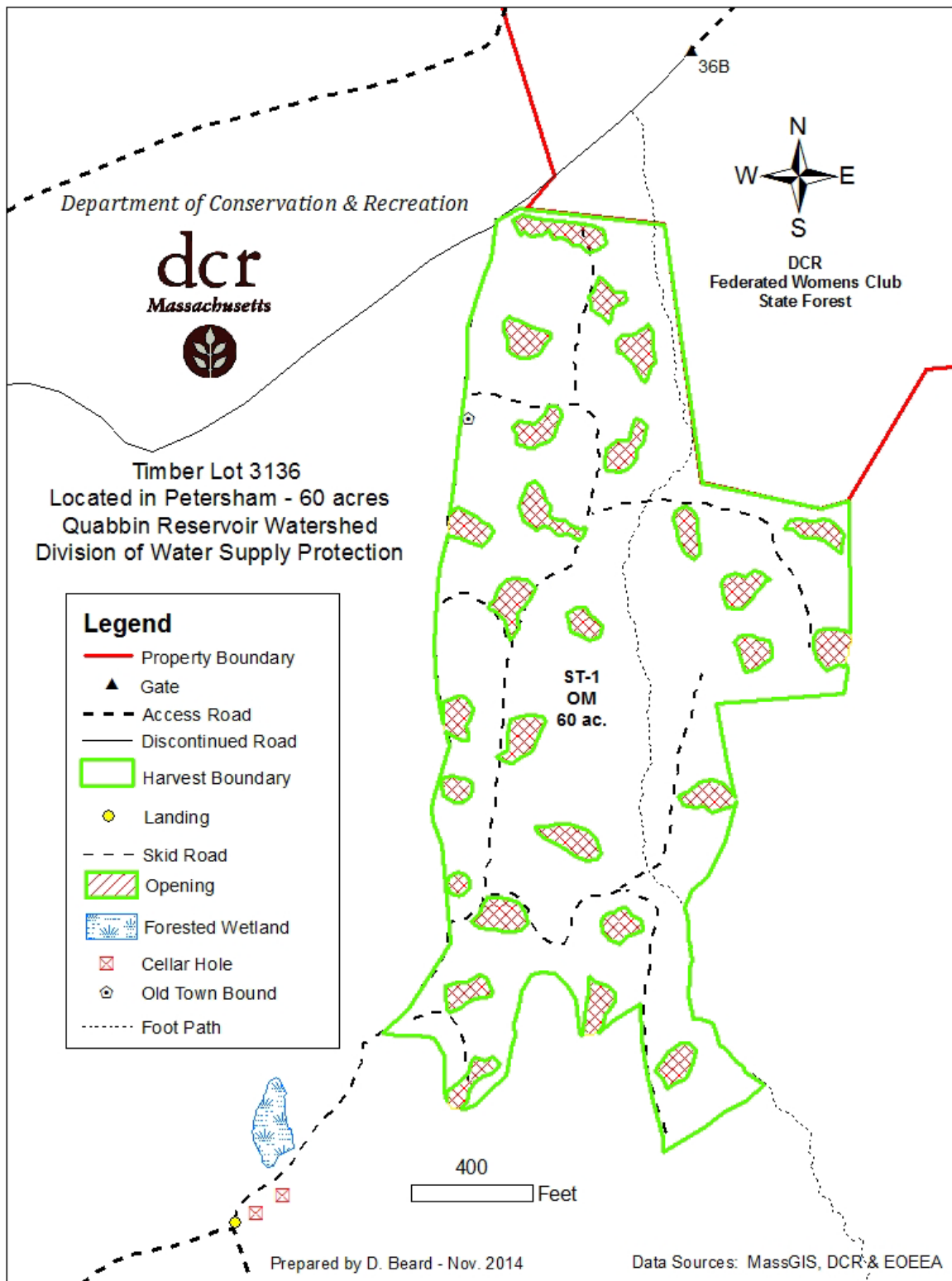




Figure2:

Pre-Harvest, Oct. 2015



Post harvest, June 2017



1 year of growth, July 2018



2 years of growth, Sept. 2019



3 years of growth, July 2020



5 years of growth, June 2022



7 years of growth, July 2024

