

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

Project Title: West Slope of Soapstone Hill
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: Old North Dana Road (Gate 35)
Natural Heritage Atlas overlap?: Yes
Public Drinking Water Supply Watershed?: Yes
Forest Types: Mixed Oak
Area of Critical Environmental Concern (ACEC)?: No
Soils: Charlton Montauk loamy till with scatter granite-gneiss outcrops
Wetland Resources: No
Vernal Pools: No

Harvest Information

Harvest Start Date: November 17, 2016
Harvest End Date: October 3, 2017
Number of Wetland Crossings: 0
Number of Stream Crossings: 0

Best Management Practices Applied

Stream Crossings: Not Applicable
Filter Strips: Not Applicable
Wetland Crossings: Not Applicable
Harvesting in Wetlands: Not Applicable

DWSP Forester supervising this harvest

Name: Derek Beard
Forester License number: 14
Phone number: 617-780-0631
Email: derek.beard@mass.gov

Narrative

General Description/Forest Composition/History

This mixed 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. 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 suited to be resilient to and quickly recover from small and large scale disturbances such as disease, insect infestation, ice storms and hurricanes. Sufficient advanced regeneration coupled with an underrepresented young forest layer merits some regeneration harvesting.

Silvicultural 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. In addition, an old field stone town boundary marker was found on the northwestern edge of the project area. All features will be identified for protection during the operation.

Rare or Endangered Species

The harvest area does not overlap or abut any priority floral or faunal habitat documented by MA Fish & Wildlife's Natural Heritage & Endangered Species program (NHESP). 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*, is a priority.

Figures

- Figure 1. Forest Cutting Plan
- Figure 2. Photo Point Pictures

Figure 1. Forest Cutting Plan

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 24-2336-15 Case No. _____
 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

FC

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

Forest Products

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			

Stand Treatment

Landowner

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

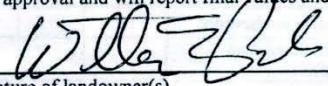
Harvest of trees with the main intention of producing short-term income with minimal consideration given to improving the future forest condition, which often results in a forest dominated by poor quality and low value specie

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.

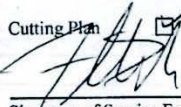

Signature of landowner(s)

11-20-19
Date

Service Forester

Determination and Status

Approved Disapproved Expires 12/12/16

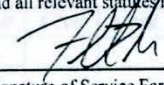
Cutting Plan  12/10/14
Signature of Service Forester/Director's Agent Date

Extension 1 2 Expires 12/17/2017 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.

 10/4/17
Signature of Service Forester/Director's Agent Date

Codes

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

*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.

TIMBER LOT 3136

Landowner DCR-DWSP-Quab

Town Petersham

File Number 244-1336-15

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.

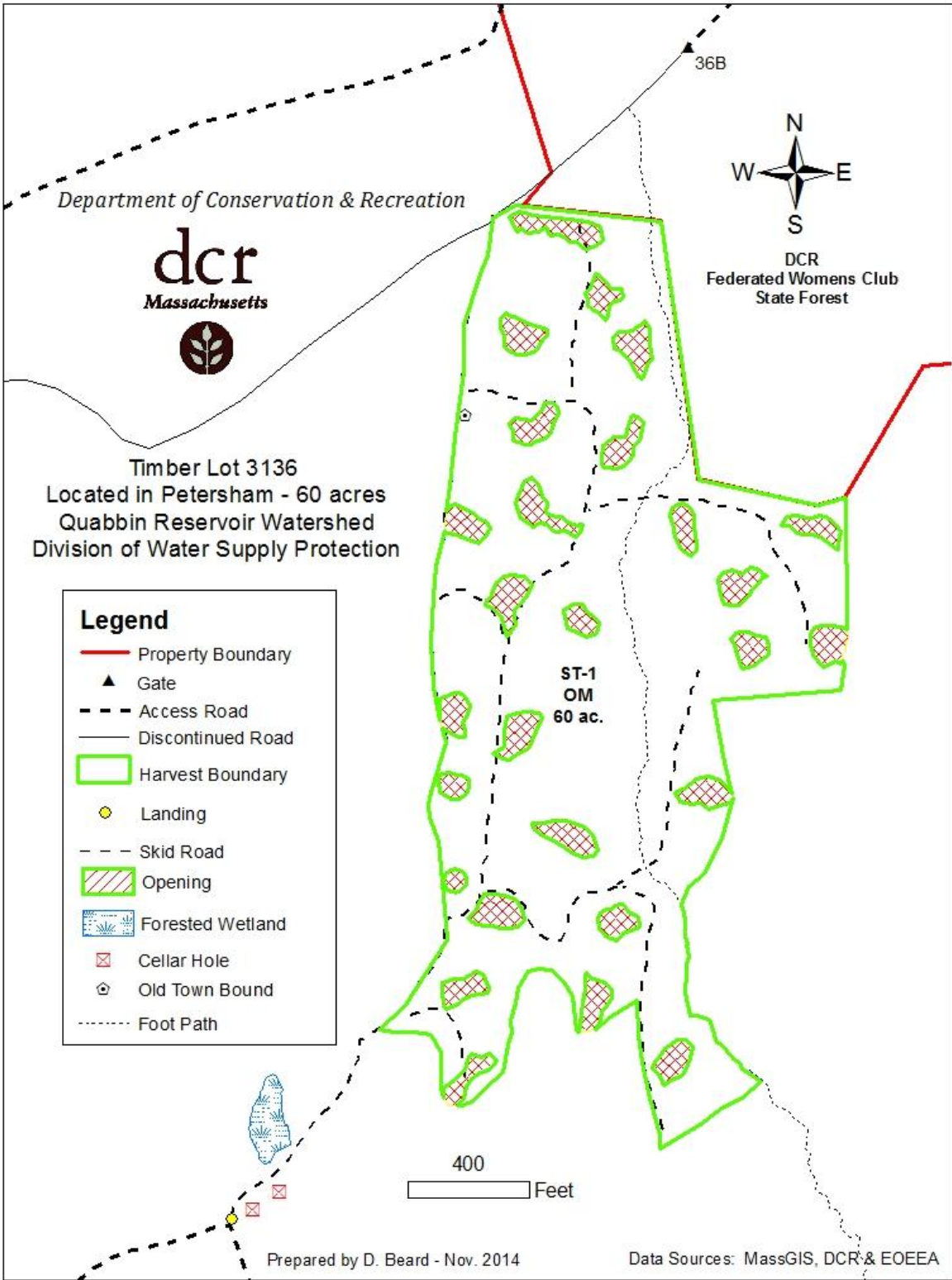
Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed

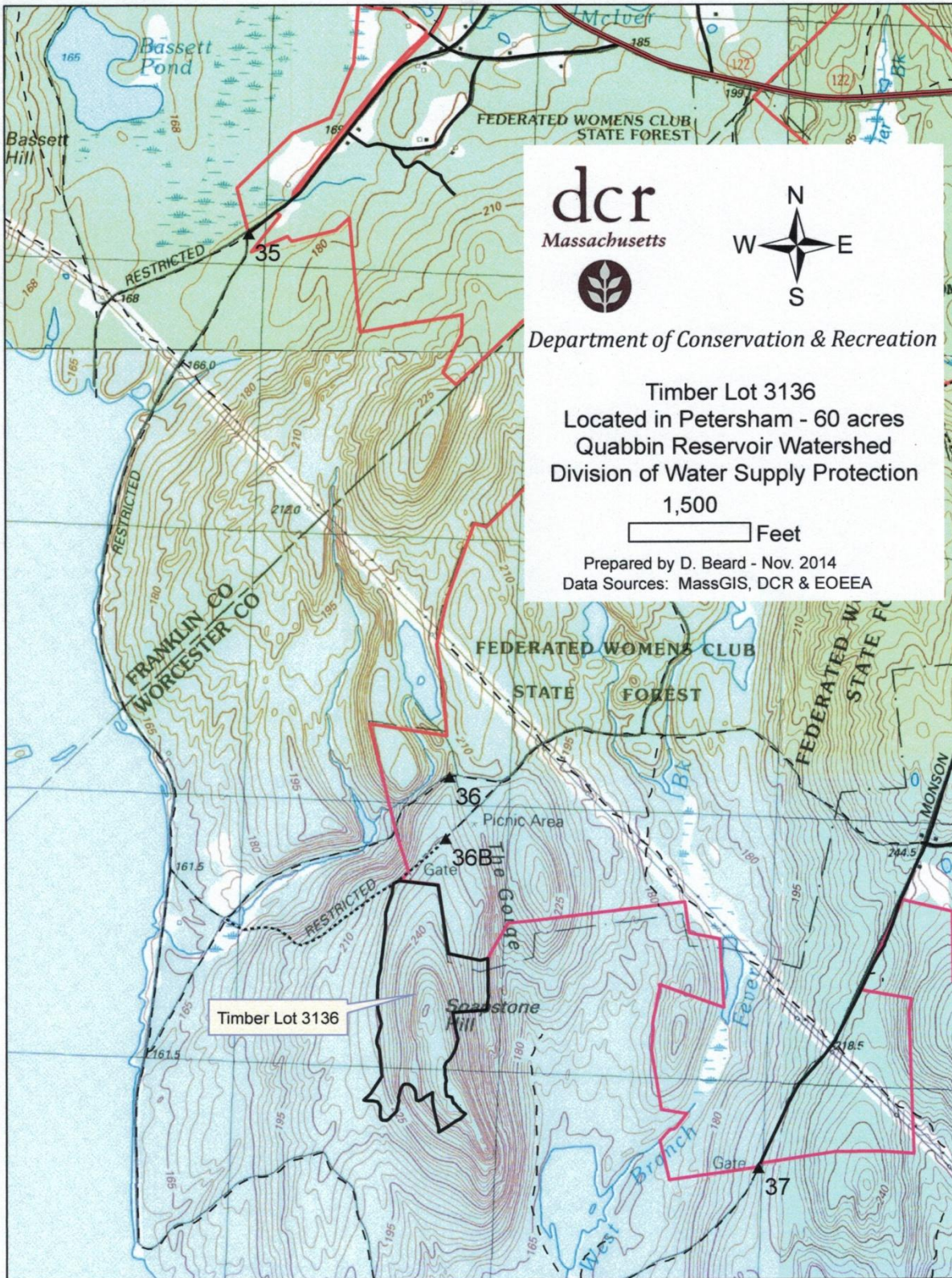
Regeneration & Future Condition

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

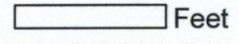
Stand No. **Desired Future Condition**
Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory





Department of Conservation & Recreation

Timber Lot 3136
Located in Petersham - 60 acres
Quabbin Reservoir Watershed
Division of Water Supply Protection
1,500



Prepared by D. Beard - Nov. 2014
Data Sources: MassGIS, DCR & EOEEA

Figure 2. Photo Point Pictures
Pre-Harvest, October 2015



Post Harvest, June 2017



June 2022 (5 years of growth)

