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: 3145
DCR Forest Cutting Plan File Number: 204-8298-17

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 40	Nearest Road: Route 202, Gate 17
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Mixed Oak	ACEC?:
Soils: Gneiss and Schist derived well drained till	
Wetland Resources: No	
Vernal Pools present or within 200 feet of harvest?: No	one

Harvest Information

Harvest Start Date: September, 20, 2016	Harvest End Date: December 7,2018
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	None
Filter Strips	2 variable width
Wetland Crossings	None
Harvesting in Wetlands	None

DWSP Forester supervising this harvest
Name: Derek Beard
Forester License # 14
Phone #: 978-544-6343
Email: derek.beard@state.ma.us

NARRATIVE

General Description/Forest Composition/History:

This watershed forest management project covers 40 acres located on the southern end of the Prescott peninsula, just west of the intersection for north and south Sherer Road (17-11A).

A mixture of oak (red, black, white, scarlet and chestnut) is the main forest cover. Red oak is more abundant in the mesic sites found in the northern 1/3 of the area. Classic mixed oak cover the central and south portions of the area. Oak, white pine and red maple regeneration make up much of the drier site understory. Shrub layer consist of huckleberry on the dry sites and fern in mesic areas.

The rocking terrain coupled with distance from the road precluded the area from being used for tillage. Prior to the industrial revolution it was likely used as a rough pasture or woodlot. It was classified as young forest (sprout land) on the reservoir real estate taking sheet. Post taking, very little forest management has occurred; just a light thinning in the very north end in 1965

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. Sufficient advanced regeneration coupled with an underrepresented young for layer merits some regeneration harvesting.

Silvicultural Objectives:

Diversification of forest structure is the primary project objective. This will be accomplished by making a series of forest canopy openings randomly spaced through the area. Specifically, there are 9 openings covering 4.6 of the 40 acres with an average opening size of 0.5 acres. Openings greater than 0.5 acres have some retained canopy trees that will contribute to the long term forest complexity of the area.

Cultural Resources:

Atypical of Quabbin, the area is fairly devoid of cultural resources; just a few stone walls.

Wildlife/Rare or Endangered Species:

Given that the area extends to the reservoir edge, it does overlap with critical habitat for rare species. Within the harvest openings, wildlife habitat such as live/dead snags, cavity/den/nest trees and down coarse woody debris will be maintained.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2. Pre- and Post-Harvest Photographs, A-B

Figure 1: Forest Cutting Plan

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k Y Birch	2.5	HW Pulp (Tons)	St	Source of Regeneration	SE/AD		2100.00	
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Forest Cutting	Plan
Narrative Page (Effective Da	te: 1/1/04)

Species to be Cut

BMPs

Designation of Trees

Stand No.

Landowner	DCR-DWSP-Quab
Town	New Salem
File Number	204-8298-17

% BA/Acre Removed

Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4. Timber Lot 3145

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 harvest is an aggregation of 9 canopy openings (patches) spread across 40 acres. Opening size ranges from 0.25 to 1.0 acre with an average of 0.5 of an acre. The openings cover a total of 4.6 acres. Openings greater than 0.5 acres have a minimum of 5 square teet of residual basal area also known as green tree retention. Trees to be harvested in openings are marked with blue paint. Trees within main skid roads are marked with orange paint. The southwest most opening is 0.4 acres and situated on a bench (flat) no closer than 75 fl. to the reservoir.

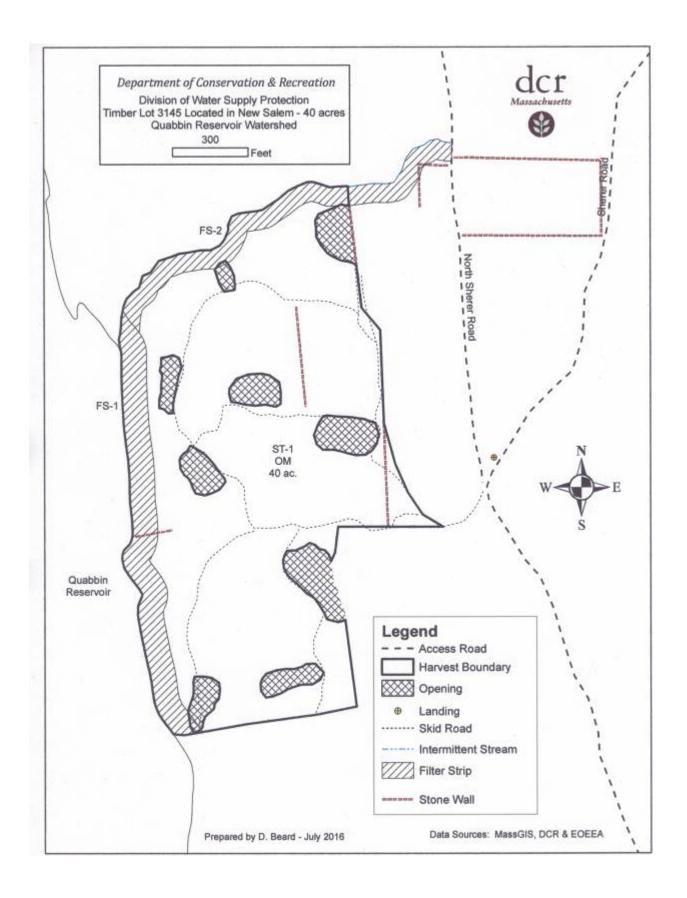
Use this Section to describe the types of trees to be harvested and/or retained if Other (OT) was used for "Designation of Trees" in the Stand Treatment Section on page 4.

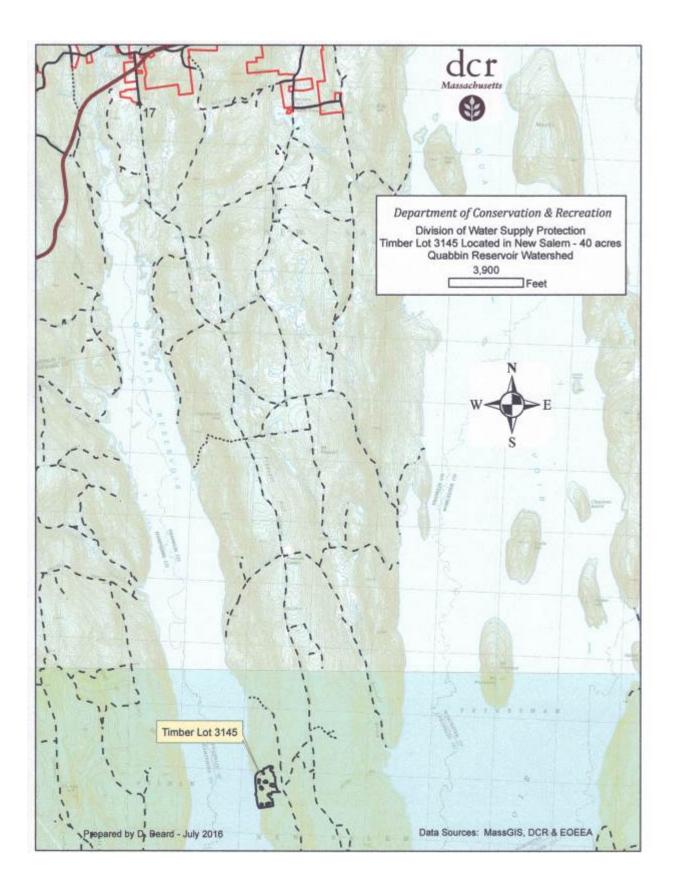
Quality of Trees to be Cut

Size of Trees to be Cut

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.

	(ex. AD, SE)	If using SE - Describe the source of the seed and the number of seed trees/acre
	-	
	1	
Stand No.	Describe what the s	Desired Future Condition and is expected to look like five years from the harvest, including the condition of the overstory & unde
-		





Commonwealth of Massachusetts



Jack Buckley, Director

Fletcher Clark - Department of Conservation and Recreation 40 Cold Storage Drive P.O. Box 484 Amherst, MA 01004

Cutting Plan No.	204-8298-17
NHESP Tracking No.	16-35910
Town	New Salem
Road	Sherer Road (Gate 17)
Landowner	DCR – DWSP
Preparer	Derek Beard
Date	August 26, 2016

Dear Fletcher,

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 (hereinafter "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,

Thomas W. French, Ph.D. Assistant Director

Cc: New Salem Conservation Commission (via e-mail)

page 1 of 1



www.mass.gov

Natural Heritage & Endangered Species Program 1 Rabbit Hill Road Westborough, MA 01581 Tel: (508) 389-6360 Fax: (508) 389-7890

Approval Date 9-29-2016 Director's Agent FLETCHER CLARK DCR Phone No. 413-262-2367	provision of M.G.L. Chapter 132, Section 40-46, filed in Amhenst with the Dept and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the 3145 lot.	Post this in a conspicuous place within the area in which the harvesting operation is to take place. This certifies that DCR Under Supply Protection, Belucitoum (Name of Owner) (Address)	FOREST CUTTING PLAN CERTIFICATE	dcr COMMONWEALTH OF MASSACHUSETTS Department of Conservation and Recreation Division of State Parks and Recreation
ISSUED BY: Priscilla E. Geigis, Director Division of State Parks and Recreation	with the Dept. of Conservation ice of Intent to cut forest products upon the	harvesting operation is to take place. dia and the distance with the (Address)	ERTIFICATE	SETTS FILE # 204-8298-17

Figure 2: Pre-Harvest Photograph A (July 2016)

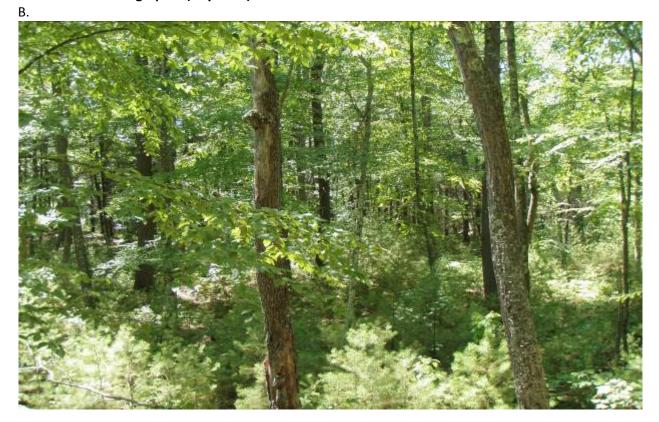


Post Harvest Photographs, A (May 2017)





Pre-harvest: Photograph B (July 2016)



Post-harvest: Photograph B (July 2016)

