

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

Project Title: Mount Pleasant
DWSP Harvest Permit Number: S13NQ
DWSP Proposal ID: PR-17-12
DCR Forest Cutting Plan File Number: 204-8430-17

Site Information

Watershed: Quabbin
Town(s): New Salem
Acres: 19
Nearest Road: Route 202, Cooleyville Rd. (Gate 17)
Natural Heritage Atlas overlap?: Yes
Public Drinking Water Supply Watershed?: Yes
Forest Types: Red Pine/Norway Spruce
Area of Critical Environmental Concern (ACEC)?: No
Soils: Montauk fine sandy loam, Hollis-Chatfield complex, Henniker sandy loam
Wetland Resources: No
Vernal Pools: Yes (with 200 ft.)

Harvest Information

Harvest Start Date: June 23, 2020
Harvest End Date: August 28, 2020
Number of Wetland Crossings: 0
Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings: Armored old stone causeway with temporary skid bridges
Filter Strips: One variable width filter strip
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 watershed forestry project covers 19 acres of red pine amid the larger Norway spruce plantation bisected by Doubleday Rd (aka Mt. Pleasant Rd.) located in the Mt. Pleasant section of the Prescott peninsula.

All areas were thinned in the early 1990s. Beginning in the mid-2000s, red pine throughout the watershed began rapidly declining/dying from a red pine scale infestation; a microscopic insect that pierces the tree's needles; disrupting photosynthesis which leads to mortality (browning of needles throughout the tree crown).

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 ideally suited to be resilient to and quickly recover from small- and large-scale disturbances such as disease, insect infestation, ice storms and hurricanes. Young forest is significantly underrepresented in the Mt. Pleasant area. Therefore, some regeneration harvesting is merited.

Silvicultural Objectives

Harvest purpose is to reduce additional red pine mortality on the watershed by harvesting the remaining plantations and spur growth of a young, native forest age class. Achievement of these objectives should lead to greater long term forest diversity and resiliency.

Cultural Resources

Stone walls are the most prominent cultural resource in the project area. There are also two field stone wells, several house foundations and a barn foundation.

Rare or Endangered Species

Maintaining and/or enhancing habitat is a high priority when planning and executing watershed forest management projects. As such, retaining live and dead snags, trees that show sign of use by wildlife for nesting/denning, scenting and foraging is a priority. Falling in a natural heritage bubble, the project area was reviewed by MA Natural Heritage and Endanger Species program and deemed to have no impact on the species within the bubble.

Figures

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

Figure 1. Forest Cutting Plan

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Forest Cutting Plan

and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00 (Effective Date: 3/15/16)

For DCR Use Only:

File Number	<u>204-27829-20</u>	Case No.	<u> </u>
Date Rec'd	<u>5.8.20</u>	Nat. Hert.	<u>Yes</u>
Earliest Start	<u>5.26.20</u>	Pub. Dr. Wat.	<u>Yes</u>
River Basin	<u>Chicopee</u>	ACEC	<u>No</u>
Gen. Obj.	<u>LT</u>		

Site Information

Location

Town New Salem
 Road Doubleday Rd (aka Mt. Pleasant Rd.)
 Acres 19 Proposed Start Date
 Vol. MBF 272 Vol. Cds. 56 Vol. Tons 250

Plan Preparer

Name Derek Beard
 Address 485 Ware Rd.
 Town, State, Zip Belchertown, MA 01007
 Phone (617) 780-0631
 Type of Preparer LF
 *Mass. Forester License # 14
 *Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR - Div. of Water Supply Protection
 Mailing Address 485 Ware Rd
 Town, State, Zip Belchertown, MA 01007
 Phone 413-323-6921
 Ch61 61A 61B Stew *Case #
 FSC 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	CU			
Existing Structure	YES			
Type of Bottom	ST			
Bank Height (ft)	4'+			
Stabilization	CO			

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)	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

X Heritage - No Impact - See Attached

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note:
LF Mass Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge	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.
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			

If Other (OT) is used in any category an explanation must be given on an attached narrative page

Forest Products

Products to be Harvested*

Table with 4 columns: Species, Mbfc, Species, Mbfc. Rows include White Pine, Red Pine, Pitch Pine, Hemlock, Spruce, Other Sitka, White Ash, Beech, White Birch, B & Y Birch, Black Cherry.

*Note: Volumes 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.

Stand Treatment

Cutting Standards

Table with 5 columns: Indicate location on map, ST-1, ST-2, ST-3, ST-4. Rows include Forest Type, Acres, Landowner Objective, Designation of Trees, Type of Cut, Source of Regeneration.

*cont'd on narrative pg

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.

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 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.

Handwritten signature of landowner

5-5-2020

Signature of landowner(s)

Date

Service Forester

Determination and Status

Form with checkboxes for Approved, Disapproved, Expires, Extension, Amendment and handwritten entries.

Final Report and Comments

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

Handwritten signature of Service Forester/Director's Agent

10-7-20

Signature of Service Forester/Director's Agent

Date

Codes

Table with 4 columns: Forest Types, Designation of Trees, Type of Cut, Source of Regeneration. Lists various codes and their corresponding tree types or objectives.

*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: 3/15/16)

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 New Salem

File Number _____

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.

Project intent is to remove red pine plantations which have all experienced some level mortality (in some locales upwards of 50%) from red pine scale and associated fungus. Within these red pine areas, spruce, white pine and larch have been retained for future forest complexity. In addition, most large live/dead snags have been retained for their wildlife value. Trees to be harvested are marked with blue paint and main skid roads are marked with orange paint.

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. Additional narrative description may be added on a separate page.

Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Left

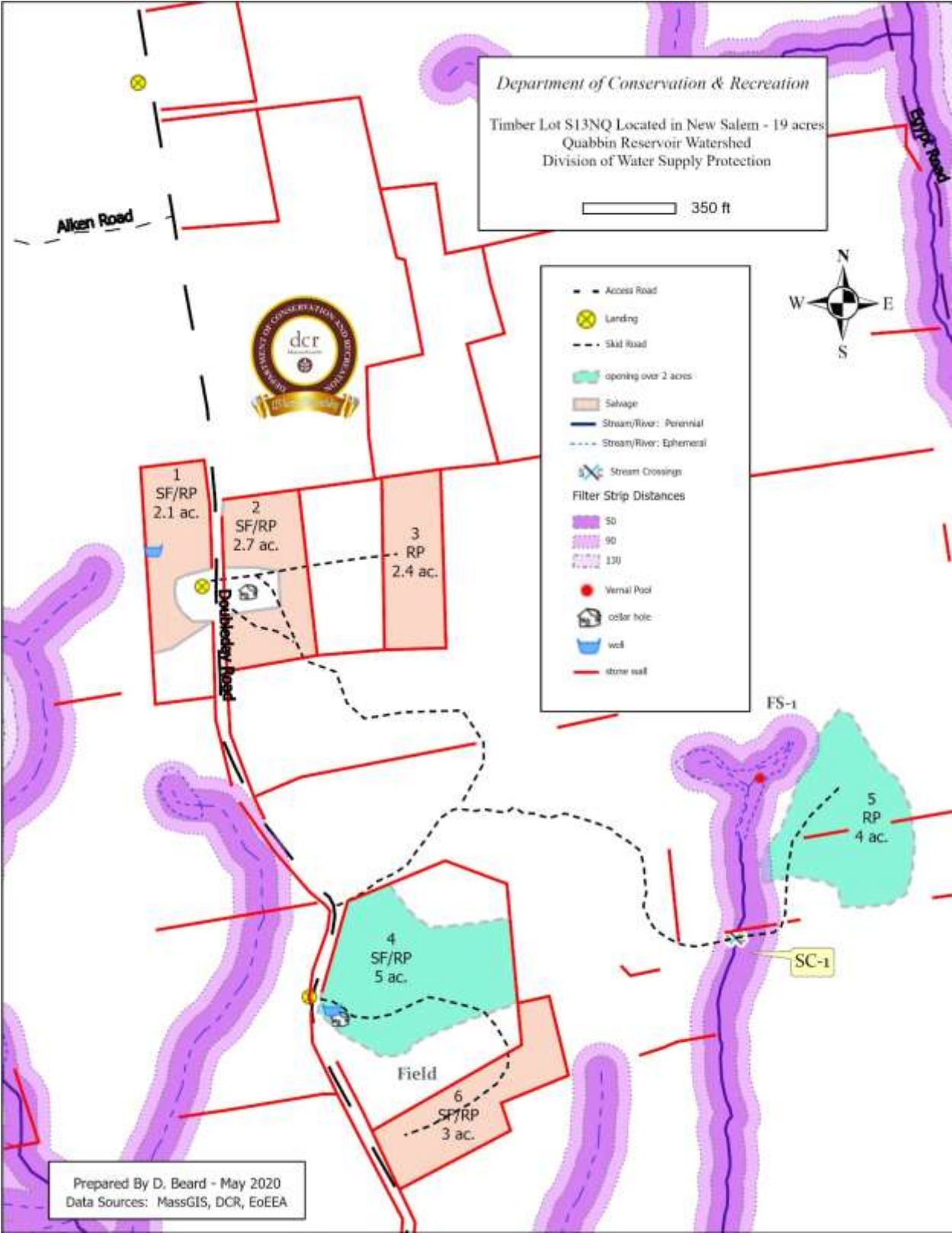
Regeneration & Future Condition

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

5	SE	RP 4 ac. CC LT CT
6	SE	RP 3 ac. CC LT CT

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





MASSWILDLIFE

DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581
p: (508) 389-6300 | f: (508) 389-7890
MASS.GOV/MASSWILDLIFE

Andrew Rawcliffe
40 Cold Storage Drive
P.O. Box 484
Amherst, MA 01004

Cutting Plan No. 204-27829-20
NHESP Tracking No. 20-39382
Town New Salem
Road Doubleday (Mt Pleasant)
Landowner DCR-DWSP
Preparer Derek Beard
Date May 21, 2020

Dear Andrew,

The Natural Heritage and Endangered Species Program (NHESP) of the Massachusetts Division of Fisheries and Wildlife ("the Division") has reviewed the above-referenced Forest Cutting Plan ("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 our 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 Rebekah Zimmerer at (508) 389-6354 or Rebekah.zimmerer@mass.gov.

Sincerely,

A handwritten signature in cursive script that reads "Everose Schlüter".

Everose Schlüter, Ph.D.
Assistant Director

Cc: New Salem Conservation Commission

MASSWILDLIFE



COMMONWEALTH OF MASSACHUSETTS
 Department of Conservation and Recreation
 Division of State Parks and Recreation

FILE # 204-27829-20



W

FOREST CUTTING PLAN CERTIFICATE

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that DCR DWSR 485 Wave Rd, Belchertown, MA 01007 in accordance with the
 (Name of Owner) (Address)

provision of M.G.L. Chapter 132, Section 40-46, filed in Amherst F.O. with the Dept. of Conservation
 and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the
Doubleday Rd lot.

Approval Date 5/27/2020
 Director's Agent Andrew Rauchfle
 DCR Phone No. 617-549-1677

ISSUED BY: Priscilla E. Geigis

Priscilla E. Geigis, Director
 Division of State Parks and Recreation

Figure 2. Photo Point Pictures

Pre-Harvest, June 2020



Post Harvest, August 2020



June 2025 (5 years of growth)

