

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: 3168
DWSP Proposal ID: PR-20-19
DCR Forest Cutting Plan File Number: 204-33804-22

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 150	Nearest Road: North Prescott (Gate 20)
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Oak/Hardwood, White Pine/Oak	ACEC?: No
Soils: Stony till with varying levels of sandy loam	
Wetland Resources: Intermittent brooks	
Vernal Pools: 0	

Harvest Information

Harvest Start Date: 4/4/2021	Harvest End Date: 6/27/2024
Number of Wetland Crossings: 0	Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings	1; will be a temporary skid bridge with corduroyed slash
Filter Strips	3; variable width based on slope
Wetland Crossings	0
Harvesting in Wetlands	0

DWSP Forester supervising this harvest
Name: Derek Beard
Forester License #: 14
Phone #:
Email: derek.beard@mass.gov

NARRATIVE

General Description/Forest Composition/History:

The general location of this harvest is on the west side of North Prescott Road (Gate 20) between intersections 20-3 and 20-5. Specifically, it's bounded to the east by old red pine plantations, north and northwesterly by an un-named height of land, to the west by the base of slope and to the south by a branch of Dickey Brook.

The forest is composed of overstory white pine and mixed hardwood (red maple, birch, ash, oak, and cherry). Most of the understory is black birch saplings/poles. Overstory timber quality is quite variable ranging from average to low quality white pine and average to better quality hardwood. A small inholding (2 ac.) of red pine covers southern portions of harvest area.

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 and future users. 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 to large scale disturbances such as disease, insect infestation, ice storms, and hurricanes.

Silvicultural Objectives:

The main goal of the harvesting project is to release and/or spur a young forest age class. This will be accomplished by the siting of four openings across the harvest area that range between 2.3 and 4.9 acres in size. Openings over a half-acre (0.5) have live tree retention that will contribute to future forest complexity. In addition to the openings, 68 poor quality overstory white pine will be girdled to facilitate continued release of established understory.

Cultural Resources:

Given the area's proximity to a main access road one cellar hole was identified along with numerous stone walls.

Rare or Endangered Species:

According to the latest edition of the MA Natural Heritage & Endanger Species Atlas, the project does overlap with an estimated or critical habitat area. However, the Division of Fisheries and Wildlife have ruled that the activities will not result in harming any protected plant or animal species.

FIGURES

Figure 1. Forest Cutting Plan

03-08-22P03:16 RCVD

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 204-33804-22 Case No. NA
 Date Rec'd 3/18/22 Nat. Hert. yes
 Earliest Start 3/23/22 Pub. Dr. Wat. yes
 River Basin Chicopee ACEC no
 Gen. Obi. LT

Location

Town New Salem
 Road North Prescott Rd. (gate 20)
 Acres 13 Proposed Start Date Summer '22
 Vol. MBF 128.9 Vol. Cds. 161 Vol. Tons 256

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.

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing	BR			
Existing Structure	NO			
Type of Bottom	ST			
Bank Height (ft)	1-2' <input checked="" type="checkbox"/>			
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	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

* Heritage - No Impact - See Attached AR

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.
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony	Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits.
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud	Consult MA Forestry BMP Manual for further information.
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

pg 3 of 5

Figure 1a: Forest Cutting Plan pg. 2.

Products to be Harvested*			
Species	Mbf/Cds		Mbf/Cds
White Pine	55.0	Red Maple	5.3
Red Pine	15.3	Sugar Maple	1.7
Pitch Pine		Red Oak	23.7
Hemlock	1.7	Black Oak	10.3
Spruce		White Oak	0.7
Other Sftwd.		Other Hdwd.	2.0
White Ash	5.8	Total Mbf	128.9
Beech		Cordwood (Cds)	161
White Birch	0.2	SW Pulp (Tons)	256
B & Y Birch	7.0	HW Pulp (Tons)	
Black Cherry	0.2	Chips (Tons)	

*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.

Cutting Standards				
Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WH <input type="checkbox"/>	WO <input type="checkbox"/>	WP <input type="checkbox"/>	WP <input type="checkbox"/>
Acres	3.1	2.6	4.9	2.3
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT <input type="checkbox"/>	CT <input type="checkbox"/>	CT <input type="checkbox"/>	CT <input type="checkbox"/>
Type of Cut	CC <input type="checkbox"/>	CC <input type="checkbox"/>	CC <input type="checkbox"/>	CC <input type="checkbox"/>
Source of Regeneration	SE <input type="checkbox"/>	SE <input type="checkbox"/>	SE <input type="checkbox"/>	SE <input type="checkbox"/>

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 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.

Dan Clark
Digitally signed by Dan Clark
Date: 2022.03.08 07:31:47 -05'00'

Signature of landowner(s) _____ Date 3/8/2022

Determination and Status

Approved ☒ Disapproved ☐ Expires 3.8.24

Cutting Plan ☒ ☐ 3.24.22

Signature of Service Forester/Director's Agent _____ Date 3.24.22

Extension 1 ☐ 2 ☐ Expires / Ser. For. Ints. /

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

Final Report and Comments

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

Signature of Service Forester/Director's Agent _____ Date _____

Forest Types				Designation of Trees		Type of Cut		Source of Regeneration	
WP	White Pine	HK	Hemlock	OM	Mixed Oak	CT	Cut Tree	SH	Shelterwood
WK	WP/Hem	HH	Hem/Hdwd	RM	Red Maple	LT	Leave Tree	ST	Seed Tree
WH	WP/Hdwd	BC	Blck Cherry	BE	Beech	SB	Stand Boundary	CC	Clear Cut
WO	WP/Oak	BB	Bee/Bir/Map	SF	Spruce/Fir	OT	Other	SE	Selection
RP	Red Pine	OH	Oak/Hdwd	SM	Sugar Maple	Landowner Objective		SA	Salvage
SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt.	SN	Sanitation
						ST	Short-term Har.		

Intermediate Harvests: AD Advanced, CT Commercial Thin, SE Natural Seed, PL Plant, CO Coppice, DS Direct Seed, OT Other

Non-Standard Systems: HG Highgrade*, DL Diameter Limit*, OT Other*

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

Figure 1b: Forest Cutting Plan pg. 3.

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.

This project encompasses 13 acres of openings and single tree selection (stand 5) within a 150 acre project area. Specifically, there are four openings spread across the area that range between 2.3 and 4.9 acres in size. Each opening has green tree retention that will add to the area's future forest diversity/complexity. In addition to green tree retention, live and dead wildlife trees (known as snags) have been left. Stands 3 and 4 have a distressed red pine component caused by a scale insect invasion first noticed on the watershed in 2007. Stand 5 encompasses all non opening area where a selection of large, poor quality white pine will be girdled to release advanced regeneration. Trees to be harvested are marked with blue paint. Main skid roads are marked with orange paint. Girdle trees are marked with a blue "G".

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	AD	Stand 5 covers all area between openings (138 acres) where designated poor quality large white pine will be girdled in order to release small openings (1/4 acre or less) of advanced regeneration (pole size) consisting of black birch, oak, white pine and hickory.

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
5	With the girdling of selected cull trees; the established understory should be able to successfully grow into the large pole/small sawtimber size class.

pg 5 of 5

Figure 1c: Forest Cutting Plan pg 3.

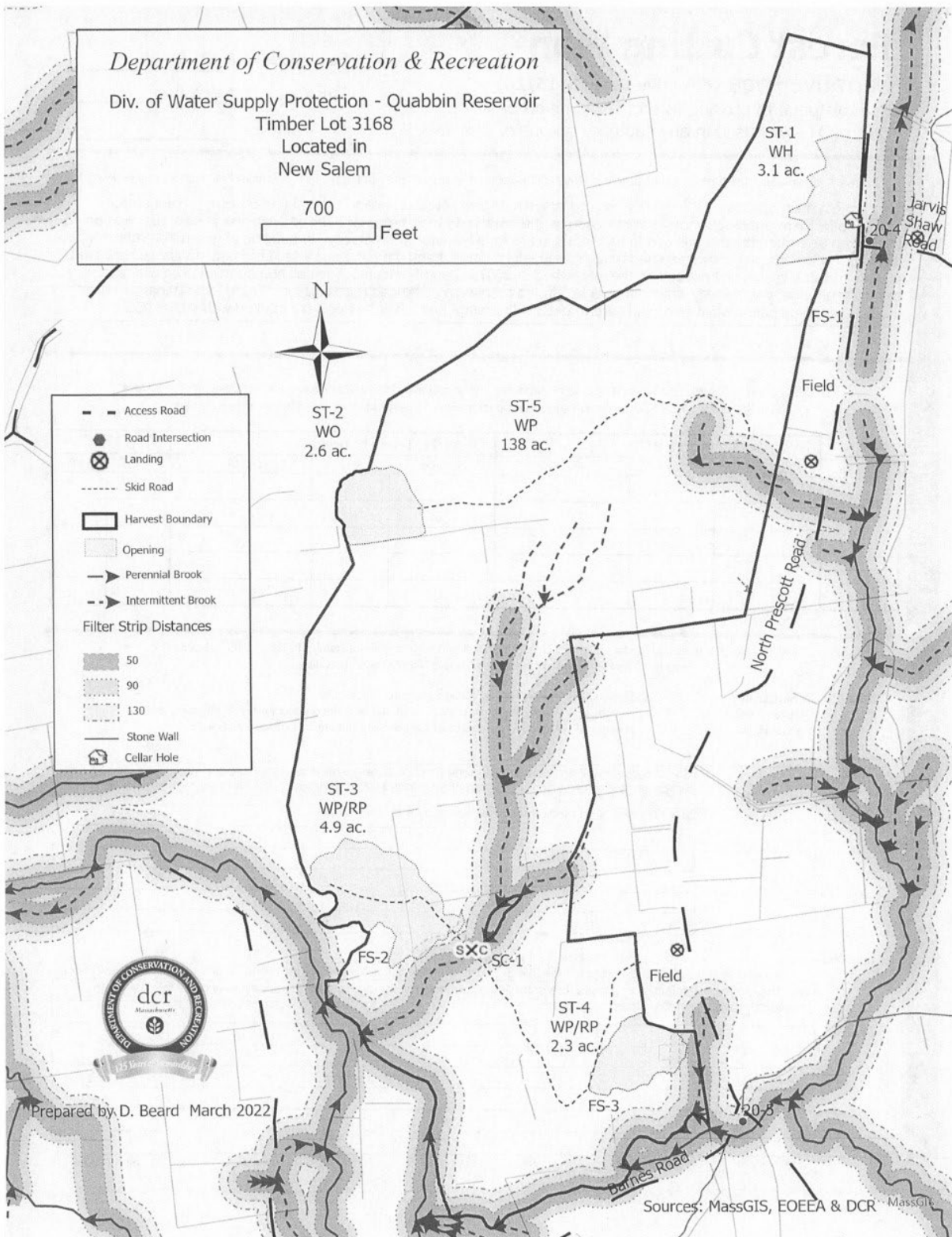


Figure 1d forest cutting plan pg 4.

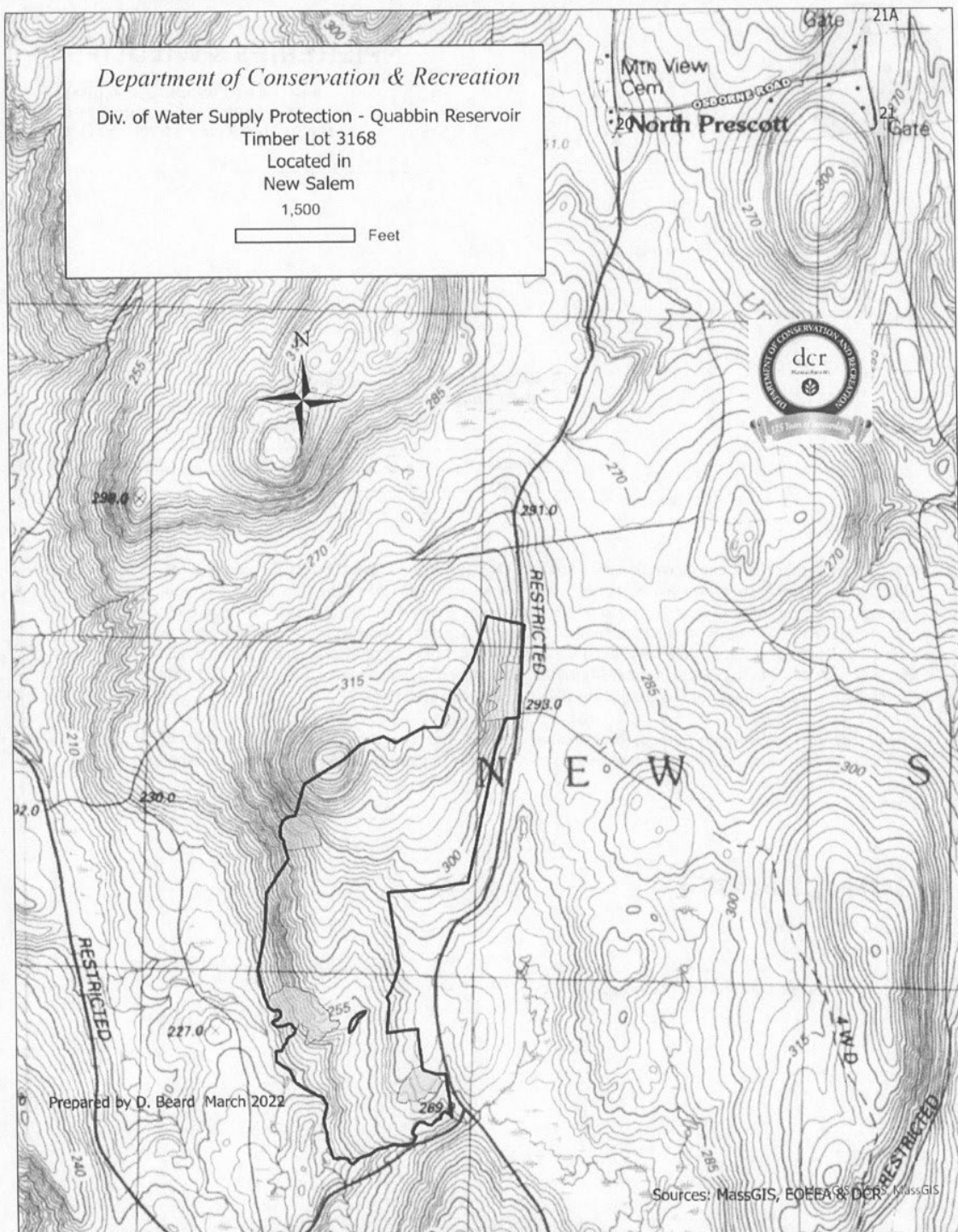



Figure 1d: Forest Cutting Plan pg. 5.

 MASSWILDLIFE	DIVISION OF FISHERIES & WILDLIFE 1 Rabbit Hill Road, Westborough, MA 01581 p: (508) 389-6300 f: (508) 389-7890 MASS.GOV/MASSWILDLIFE
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Andrew Rawcliffe
Department of Conservation and Recreation
P. O. Box 484
40 Cold Storage Drive
Amherst, MA 01004


Cutting Plan No.	204.33804.22
NHESP Tracking No.	22-40946
Town	New Salem
Road	N. Prescott
Landowner	DCR DWSP
Preparer	Derek Beard
Date	March 23, 2022

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 David Paulson at (508) 389-6366 or David.Paulson@mass.gov.

Sincerely,


Everose Schlüter, Ph.D.
Assistant Director

Cc: New Salem Conservation Commission

MASSWILDLIFE

Figure 1e: Forest Cutting Plan page 6.

dc



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

FILE # 204.33804.22

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-DWSP 485 Ware Rd, Belchertown, MA in accordance with the
(Name of Owner) (Address) 01007

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

"3168" lot. New Salem
(N. Prescott Rd / gate 20)

Approval Date 3/24/22

Director's Agent Andrew Rawcliffe

DCR Phone No. 6017.549.1677

ISSUED BY:

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