

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: S14NQ
DWSP Proposal ID: PR-19-4-S
DCR Forest Cutting Plan File Number: 204-28887-20

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 35	Nearest Road: Cooleyville
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Mixed Oak	ACEC?: No
Soils: Stony till with varying levels of sandy loam	
Wetland Resources: None	
Vernal Pools: 0	

Harvest Information

Harvest Start Date: 9/14/2020	Harvest End Date: 12/15/2022
Number of Wetland Crossings: 0	Number of Stream Crossings: 0

Best Management Practices Applied

Stream Crossings	0
Filter Strips	0
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:

Located on the east side of Cooleyville Rd (aka Gate 17 Rd) one would travel approximately 7 miles south on the 17 road (from gate) to intersection 17-12. Then hike about 1500 feet northeasterly to reach the project area. Specifically, it is bounded by Gibbs Brook to the north, a filter strip along the reservoir and seeps to the east, line of mortality to the south and an intermittent brook to the east.

The project is home to dense high canopy sawtimber red oak, white oak and black oak that has died (2018). The main associates are black birch, white ash, hickory and sugar maple. Due to the heavily shaded condition young forest is sparse. The most common are black birch, white ash, hickory and sugar maple. Hay scented fern dominates the ground layer. Portions of the upper slope are home to huckleberry, an indicator of drier soil types/conditions.

The project area was dedicated to small scale farming, mainly livestock grazing (rocky soils), prior to state ownership.

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 project is to salvage the oak that succumbed to consecutive years of intense gypsy moth caterpillar defoliation. Specifically, the project follows the pattern of mortality; such that there are uncut pockets due to the oak being alive and healthy or a change in species composition such as white pine or black birch (unaffected by gypsy moth). Furthermore, in areas of heavy mortality, oaks have been retained because they are healthy or have high wildlife value (cavity nesting/denning). In salvaging this resource, the stage will be set for a new forest to develop; with the hope it will be diverse/resilient enough to ward off the myriad issues affecting it today and in the future.

Cultural Resources:

Located far from any road, there were no cultural resources located within the project. There are several stone walls to the south along the project periphery.

Rare or Endangered Species:

Overlapping a habitat bubble, the project was reviewed by the MA Natural Heritage and Endanger Species program who determined the harvest would not negatively impact the specie(s) within the bubble.

FIGURES

Figure 1. Forest Cutting Plan

Figure 1a: Forest Cutting Plan pg. 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: 3/15/16)

For DCR Use Only:

For DCR Use Only:
 File Number 204.28887.20
 Date Rec'd 07/02/2020
 Earliest Start 07/20/2020
 River Basin Chicopee
 Gen. Obj. LT

Case No.	NA
Nat. Hert.	True
Pub. Dr. Wat.	Yes
ACEC	False

Location

Town New Salem
 Road Cooleyville (Gate 17)
 Acres 35.00 Proposed Start Date 08/01/2020
 Vol. MBF 167,000 Vol. Cds. 203 Vol. Tons 0

Plan Preparer

Name Derek Beard
Address 485 Ware Rd

Town, State, Zip Belchertown Massachusetts 01007
Phone 617-780-0631
Type of Preparer LF

*Mass. Forester License # 14

Landowner

Name Quabbin 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 _____ MA
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				
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)	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



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

Figure 1b: Forest Cutting Plan pg. 2.

Products to be Harvested*			
Species	Mb/Cds		Mb/Cds
White Pine		Red Maple	4.300
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	105.600
Hemlock		Black Oak	8.800
Spruce		White Oak	13.000
Other Sftwd.		Other Hdwd.	6.200
White Ash	4.800	Total Mbf	167.300
Beech		Cordwood (Cds)	203.000
White Birch		SW Pulp (Tons)	
B & Y Birch	24.600	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	

***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	OH			
Acres	35.000			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SA			
Source of Regeneration	P, SE, CO,			

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 of landowner(s)

7-3-2022

Date

Determination and Status

Approved ☒
Disapproved ☐
Expires 7-2-22

Cutting Plan

Signature of Service Forester/Director's Agent

7-22-20

Date

Extension 1 ☐ 2 ☐

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

Expires

Ser. For. Ints. 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 of Service Forester/Director's Agent

2-7-22

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	Intermediate Harvests:	AD Advanced	
WK WP/Hem	HH Hem/Hdwd	RM Red Maple	LT Leave Tree	ST Seed Tree	CT Commercial Thin	SE Natural Seed	
WH WP/Hdwd	BC Black Cherry	BE Beech	SB Stand Boundary	CC Clear Cut	NT Non Com Thin	PL Plant	
WO WP/Oak	BB Bee/Bir/Map	SF Spruce/Fir	OT Other	SE Selection	Non-Standard Systems:	CO Coppice	
RP Red Pine	OH Oak/Hdwd	SM Sugar Maple	Landowner Objective	SA Salvage	HG Highgrade*	DS Direct Seed	
SR Red Spruce	OR N Rod Oak	PP Pitch Pine	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

Figure 1c: Forest Cutting Plan pg 3.

will remain; **This 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 speciality 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.

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Signature of landowner(s)

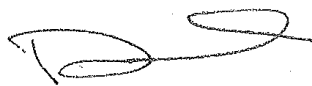
 7-7-2020

Figure 1d: Forest Cutting Plan pg. 4.

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 of Water Supply Prote

Town New Salem

File Number 204.28887.20

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.

The project is being undertaking to hasten understory forest development and minimize value/volume loss of timber killed by 2017/18 gypsy moth infestation. Main skid trails are marked in orange paint. Other cut trees are marked with blue 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

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

Figure 1e: Forest Cutting Plan pg. 5.

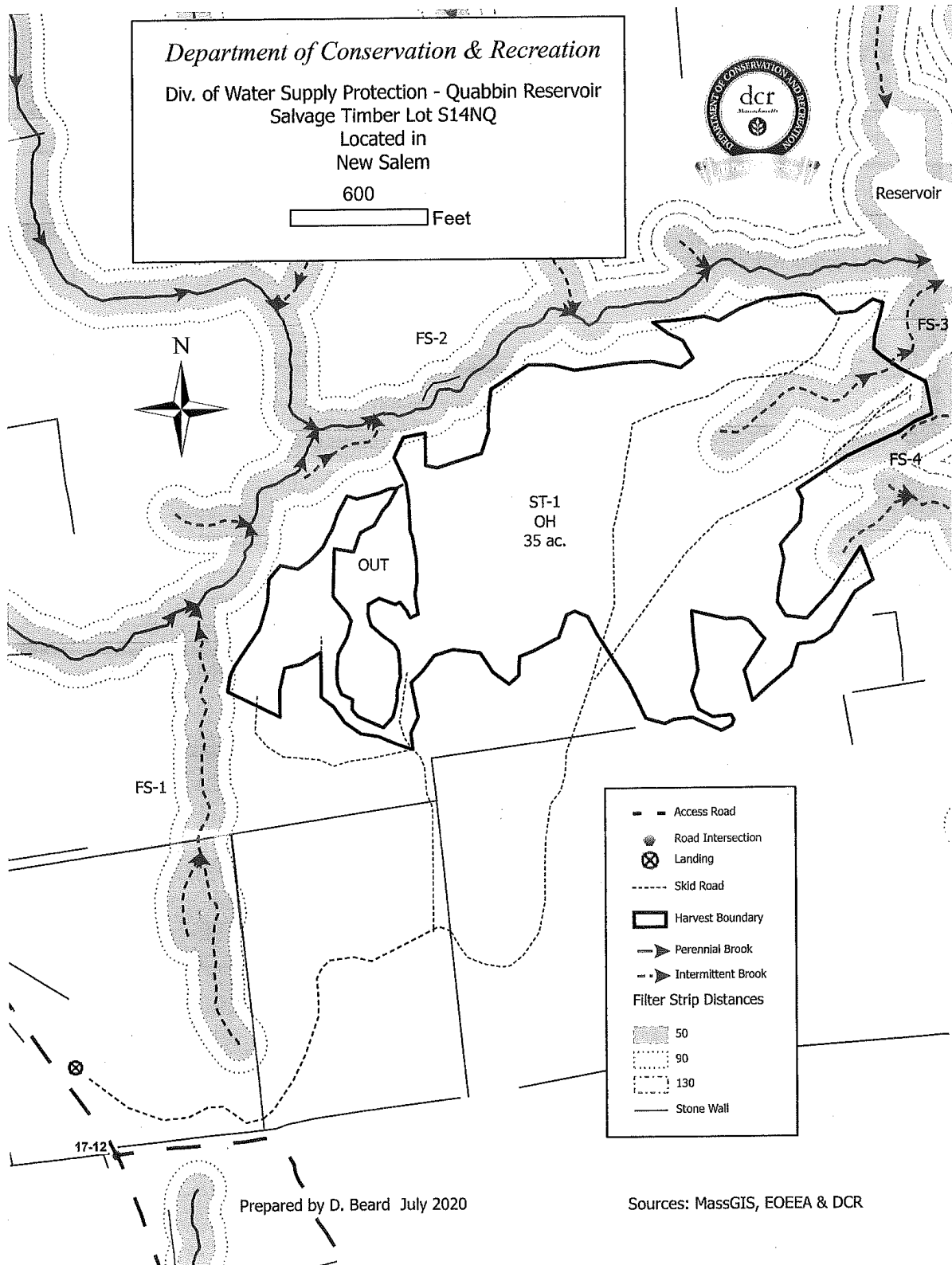


Figure 1f: Forest Cutting Plan pg. 6

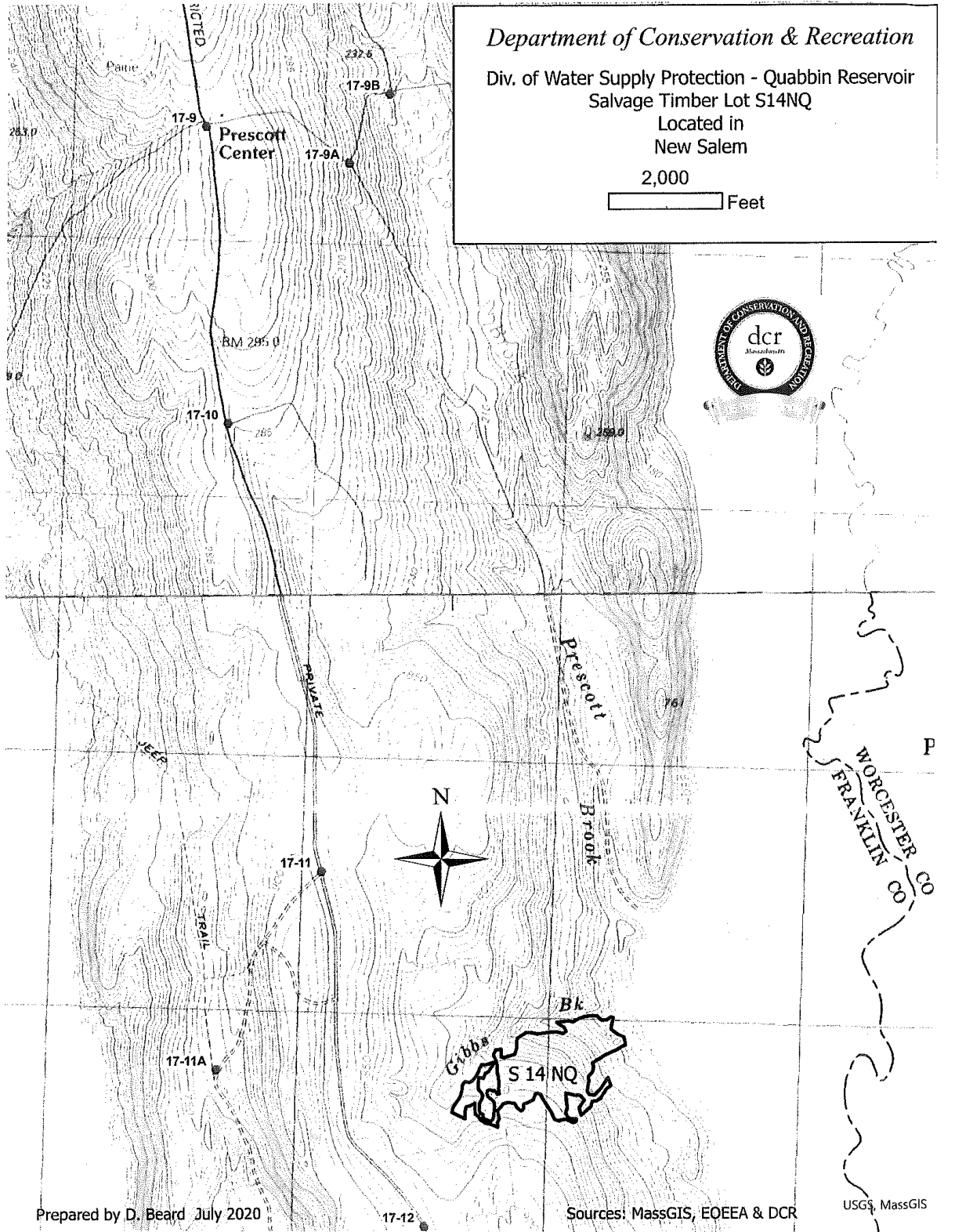


Figure 1g: Forest Cutting Plan pg. 7



**DIVISION OF
FISHERIES & WILDLIFE**

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

Andrew Rawcliffe
Department of Conservation and Recreation
40 Cold Storage Drive
Amherst, MA 01004

Cutting Plan No.	204-28887-20
NHESP Tracking No.	20-39425
Town	New Salem
Road	Cooleyville Rd, Gate 17
Landowner	DCR DWSP, Quabbin
Preparer	Derek Beard
Date	July 22, 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, reading "Everose Schlüter".

Everose Schlüter, Ph.D.
Assistant Director

Cc: New Salem Conservation Commission

MASSWILDLIFE

Figure 1h: Forest Cutting Plan pg. 8

	dcR	COMMONWEALTH OF MASSACHUSETTS	FILE # <u>204-28887-20</u>
		Department of Conservation and Recreation	
		Division of State Parks and Recreation	

FOREST CUTTING PLAN CERTIFICATE

W

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


This certifies that DCR-DWSP Quabbin Ware Rd, Belcherham, MA in accordance with the
(Name of Owner) (Address) 01807

provision of M.G.L. Chapter 132, Section 40-46, filed in Amherst F.D. with the Dept. of Conservation
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the
Gate 17 lot, New Salem

Approval Date 7/22/2020

Director's Agent Andrew Rauschle

DCR Phone No. 617-544-1677

ISSUED BY: 

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