

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: 3156
DCR Forest Cutting Plan File Number: 204-9411-18

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 12	Nearest Road: Cooleyville, Gate 17
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Red Pine	ACEC?: No
Soils: Gneiss derived rock sandy loam	
Wetland Resources: Yes	
Vernal Pools present or within 200 feet of harvest?: No	

Harvest Information

Harvest Start Date: June, 19, 2018	Harvest End Date: June 30, 2020
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	None
Filter Strips	None
Wetland Crossings	None
Harvesting in Wetlands	None

DWSP Forester supervising this harvest
Name: Derek Beard
Forester License # 14
Phone #: 617-780-0631
Email: derek.beard@state.ma.us

ACEC: Area of Critical Environmental Concern

NARRATIVE

General Description/Forest Composition/History:

This watershed forest management project covers 12 acres of forest located 2/3s the way down the Prescott Peninsula. Specifically, it's about 1.5 miles south of the old UMASS observatory site on the east side of the gate 17 Road (Prescott Rd). It's bounded to the north by forest type change, to the east by forest type change and stone wall, to the south by stone wall and to the east by Prescott Rd (Gate 17 rd).

The project is home to a red pine plantation. The primary goal of the harvest is to remove most of the red pine before succumbing to insect/disease infestation and release regeneration spurred by several past harvests.

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:

The main goal of the project is to diversify forest structure. This will be accomplished by removing most of the red pine in the 12 acre project area. Vigorous, well formed regeneration and wildlife trees will be retained as much as possible.

Cultural Resources:

Stone walls are the most prominent cultural resource in the project area.

Wildlife/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 specie(s) within the bubble.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2. Pre-Harvest Photos

Figure 1: 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)

For DCR Use Only:

File Number 204-9411-18 Case No. _____
Date Rec'd 5/26/18 Nat. Hert. Y /
Earliest Start 6/13/18 Nat. Hert. Imp N
River Basin Chicopee Pub. Dr. Wat. N
Gen. Obj. LT ACEC N

Site Information

Location

Town New Salem | Lot 3156
Road Cooleyville| DCR Quabbin Gate 17
Acres 12 Proposed Start Date _____
Vol. MBF 179.6 Vol. Cds. 55 Vol. Tons 97

Plan Preparer

Name Derek Beard
Address DCR-DWSP Quabbin Section
485 Ware Road
Town, State, Zip Belchertown, MA 01007
Phone 617-780-0631
Type of Preparer Mass. Licensed Forester
*Mass. Forester License # 14
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR-DWSP Quabbin Section
Mailing Address 485 Ware Road
derek.beard@state.ma.us
Town, State, Zip Belchertown, MA 01007
Phone (413) 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				
Type of Crossing				
Existing Structure				
Type of Bottom				
Bank Height (ft)				
Stabilization				

Wetland Crossings No 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

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

Products to be Harvested* 3156

Species	Mbf/Cds		Mbf/Cds
White Pine	9.3	Red Maple	6.3
Red Pine	158.1	Sugar Maple	
Pitch Pine		Red Oak	0.8
Hemlock		Black Oak	1.2
Spruce		White Oak	0.5
Other Sftwd.		Other Hdwd.	
White Ash	3.0	Total Mbf	179.6
Beech		Cordwood (Cds)	55
White Birch		SW Pulp (Tons)	97
B & Y Birch	0.2	HW Pulp (Tons)	
Black Cherry	0.1	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	RP			
Acres	12			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SE			
Source of Regeneration	AD/SE			

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.



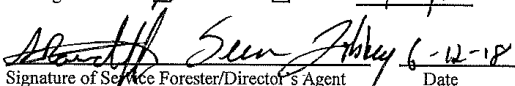
Signature of landowner(s)

5-22-18
Date

Determination and Status 204-9411-18

Approved ☒ Disapproved ☐ Expires 5/26/20

Cutting Plan ☒ ☐

Signature of Service Forester/Director's Agent  Date 6-12-18

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

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.

Signature of Service Forester/Director's Agent

Date

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

*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.

Landowner DCR-DWSP Quabbin

Town New Salem | Lot 3156

File Number 204.9411-18

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 covers a red pine plantation where some mortality has set in over the last couple of years from red pine scale, diploia and red rot.

The trees are being harvested to stem continued infestation of other red pine plantations as well as release advanced hardwood regeneration.

Healthy high canopy trees along with live/dead snags have been retained for wildlife and aesthetic purposes. Cellar holes have been flagged
for their protection.

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

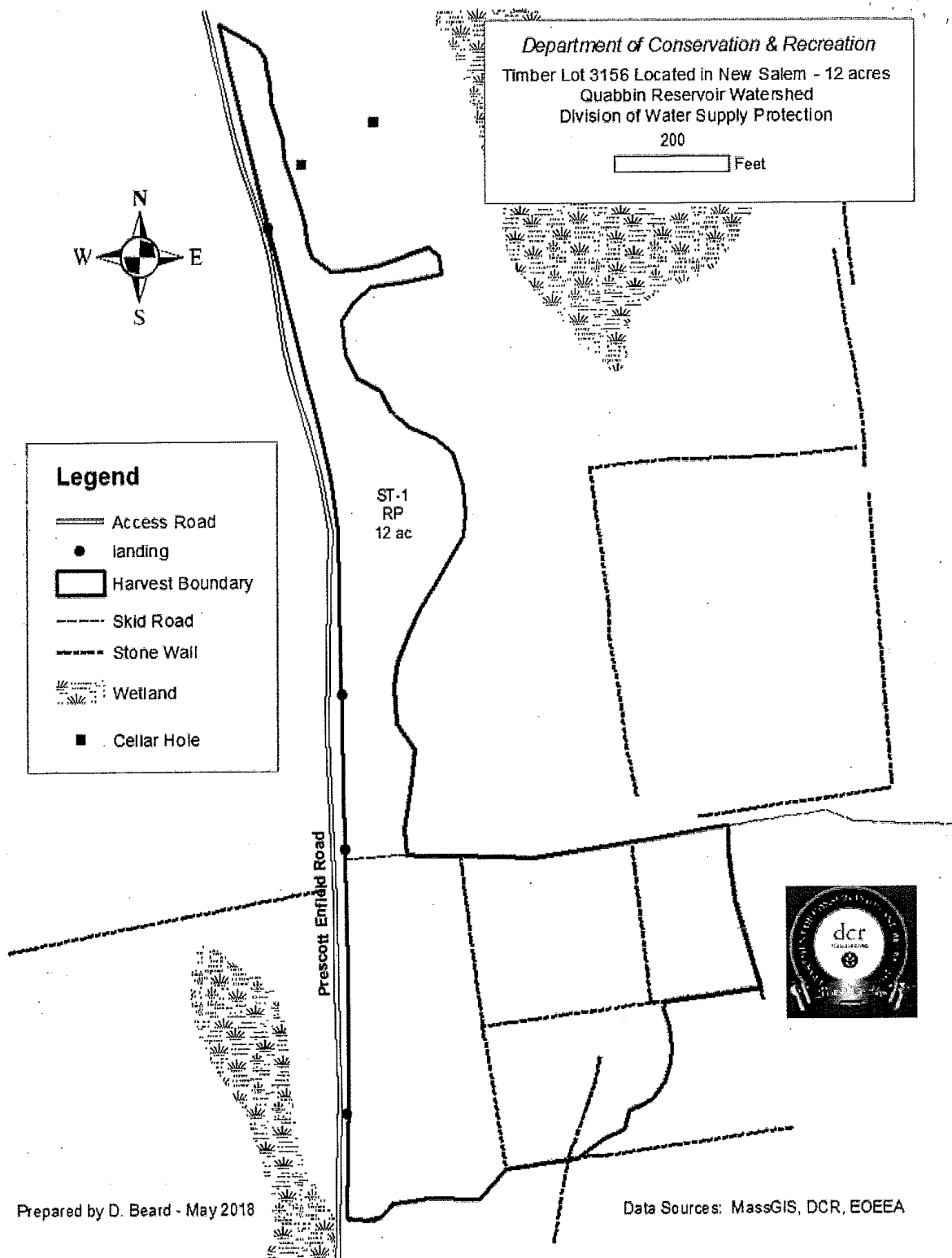
ST-1		
ST-2		
ST-3		
ST-4		

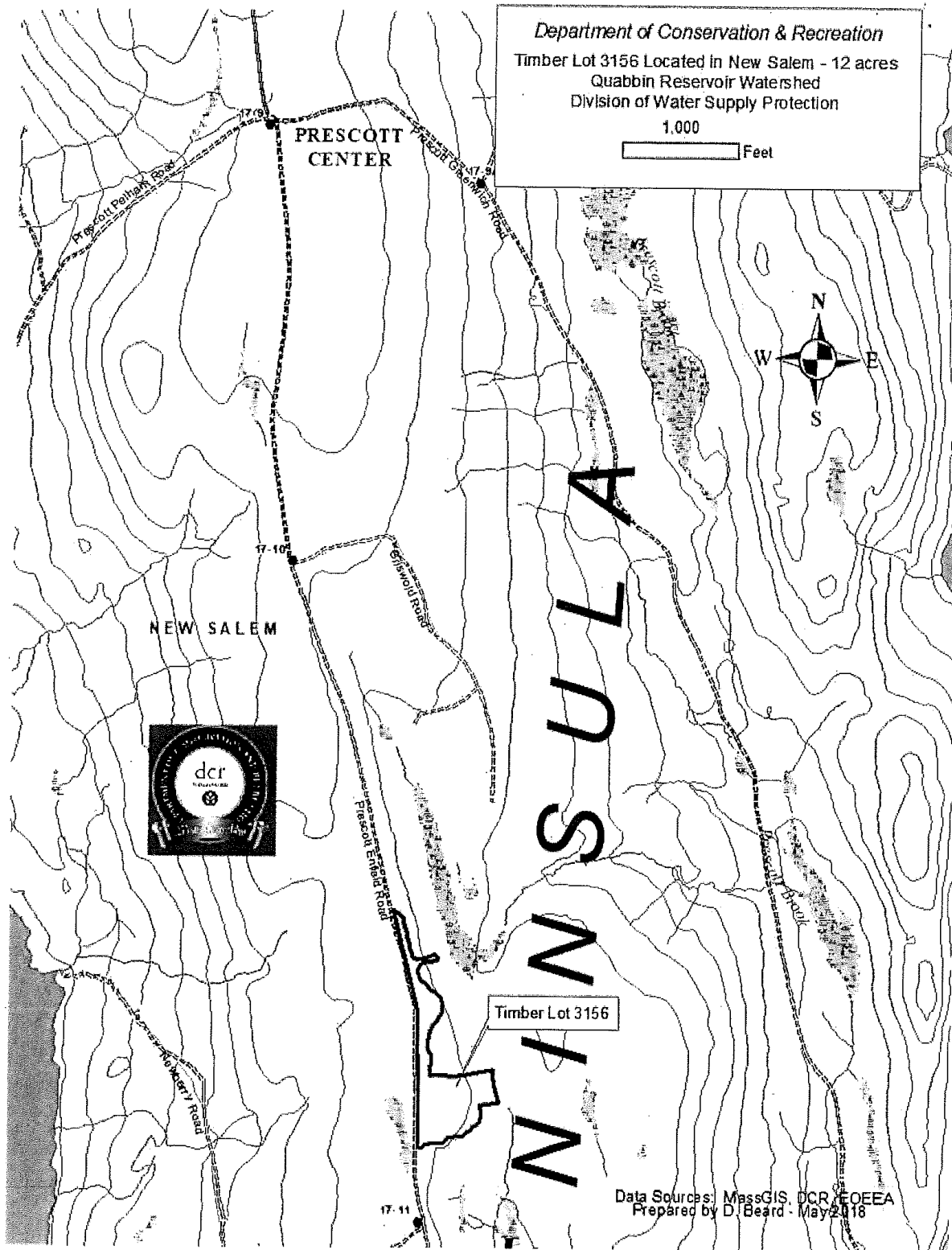
Stand No.

Desired Future Condition

Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory

ST-1	
ST-2	
ST-3	
ST-4	

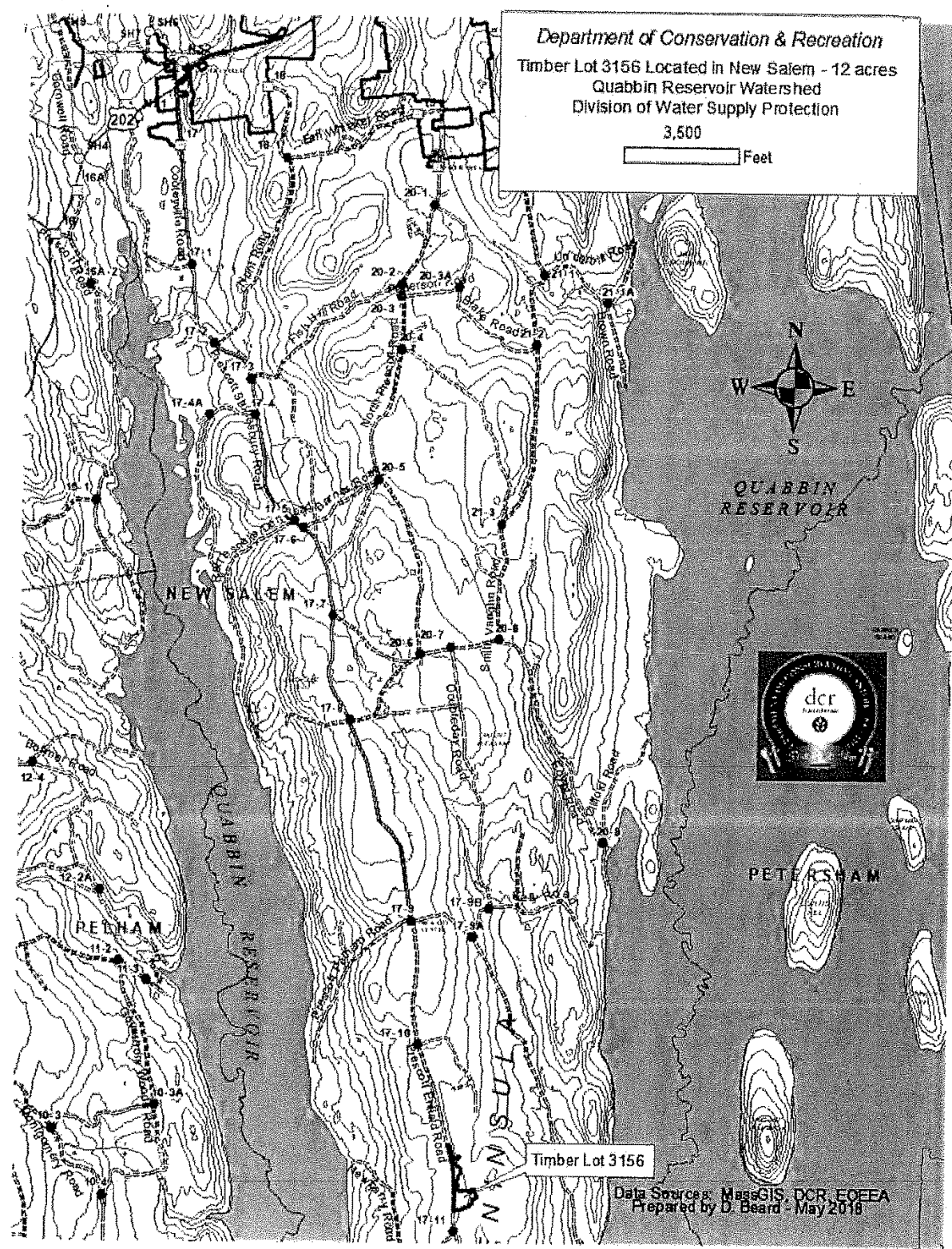




Department of Conservation & Recreation
Timber Lot 3156 Located in New Salem - 12 acres
Quabbin Reservoir Watershed
Division of Water Supply Protection

3,500

Feet



Timber Lot 3156

Data Sources: MassGIS, DCR, EOEFA
Prepared by D. Beard - May 2018



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

Cutting Plan No. 204-9094-18
NHESP Tracking No. 17-37280
Town New Salem
Road Cooleyville Road
Landowner DCR- Watershed Protection
Preparer Derek Beard
Date May 30, 2018

Dear Andrew,

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 ("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 Rebekah Zimmerer at (508) 389-6354 or Rebekah.Zimmerer@state.ma.us.

Sincerely,

A handwritten signature in black ink that reads "Thomas W. French".

Thomas W. French, Ph.D.
Assistant Director

Cc: New Salem Conservation Commission

MASSWILDLIFE

dc



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

FILE #

204.9411.18

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 DC - DWS Quabbin 485 Ware Rd, Belchertown 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

Codleyville Rd / Gate #3156, New Salem

Approval Date 6/12/18

Director's Agent

Andrew Rawcliffe / Sean Libbey

DCR Phone No.

(617) 548-1677 / (413) 545-4539

ISSUED BY:

Priscilla E. Geigis

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

Products to be Harvested* 3156

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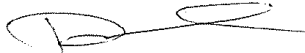
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Signature of landowner(s)

Date

5-27-18

Determination and Status

204-9411-18

Approved ☒ Disapproved ☐

Expires

5/26/20

Cutting Plan

Signature of Service Forester/Director's Agent

Date

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

11-20-2018

Forest Types

WP White Pine
WK WP/Hem
WH WP/Hdwd
WO WP/Oak
RP Red Pine
SR Red Spruce

HK Hemlock
HH Hem/Hdwd
BC Blck Cherry
BH Bee/Bir/Map
OH Oak/Hdwd
OR N Red Oak

OM Mixed Oak
RM Red Maple
BF Beech
SF Spruce/Fir
SM Sugar Maple
PP Pitch Pine

Designation of Trees

CT Cut Tree
LT Leave Tree
SB Stand Boundary
OT Other
Landowner Objective
LT Long-term Mgt
ST Short-term Har.

Type of Cut

SH Shelterwood
ST Seed Tree
CC Clear Cut
SE Selection
SA Salvage
SN Sanitation
OT Other*

Intermediate Harvests:
CT Commercial Thin
NT Non Com Thin
Non-Standard Systems:
HG Highgrade*
DL Diameter Limit*
OT Other*

Source of Regeneration

AD Advanced
SE Natural Seed
PL Plant
CO Coppice
DS Direct Seed
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

Figure 2. Pre-Harvest Photograph, July 2018



residual (not marked for harvest) saw timber size hickory in right background



Feb. 2019



Sept. 2019



July 2020



June 2021

Figure 3, Pre-harvest photo, July 2018





Feb 2019



Sept 2019



July 2020



June 2021