

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: 3154
DCR Forest Cutting Plan File Number: 204-9193-18

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 51	Nearest Road: Cooleyville, Gate 17
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Oak/Hardwood	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: March, 27, 2018	Harvest End Date: June 30, 2020
Number of Wetland Crossings: None	Number of Stream Crossings: 2

Best Management Practices Applied

Stream Crossings	2
Filter Strips	4 filter strips
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

NARRATIVE

General Description/Forest Composition/History:

This watershed forest management project covers 51 acres of forest located 2/3s the way down the Prescott Peninsula. Specifically, it's about 2 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 an old property line, to the east by stone wall old timber lot boundary and old bull dozed woods road, to the south by Gibbs Brook and to the east by a wetland.

The project is home to mixed hardwood including red maple, the oaks and black birch. The primary goal of the harvest is to remove low quality timber and spur development of a new (young) forest age class.

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 creating openings (a.k.a. patches) in the forest canopy. Specifically, this project has 5 openings, all about 2 acres in size. Openings greater than 0.5 acres have retention trees which will add to future forest complexity.

Cultural Resources:

The area's remote location relative to existing roads was indicative of scarce cultural resources. Just some stone wall which forms part of the east harvest boundary.

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.

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 204-9193-18 Case No. _____
Date Rec'd 12-28-17 Nat. Hert. YES 11/4/2017
Earliest Start 1-15-18 Nat. Hert. Imp. N
River Basin Chicopee Pub. Dr. Wat. _____
Gen. Obj. LT ACEC _____

Site Information

Location Timber Lot 3154

Town New Salem
Road Cooleyville Rd. (Gate 17)
Acres 51 Proposed Start Date _____
Vol. MBF 57.6 Vol. Cds. 203 Vol. Tons 60

Plan Preparer

Name Derek Beard
Address DCR – Div. of Water Supply Protection
21 Elm St.
Town, State, Zip New Salem, MA 01355
Phone 978-544-6343
Type of Preparer LF
*Mass. Forester License # 14
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR – Division of Water Supply Protection
Mailing Address 485 Ware Rd.
Town, State, Zip Belchertown, MA 01007
Phone 412-323-6921
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	SC-1	SC-2	SC-3	SC-4
Type of Crossing	BR	BR		
Existing Structure	No	No		
Type of Bottom	St/mu	St/mu		
Bank Height (ft)	< 1'	< 1'		
Stabilization	CO	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	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

1st Site Inspection 11/20/17 SSL

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Lodge
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* Timber Lot 3154

Species	MbBFCds		MbBFCds
White Pine	9.8	Red Maple	18.9
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	11.5
Hemlock		Black Oak	6.4
Spruce		White Oak	1.0
Other Blvd.		Other Hard.	
White Ash	3.3	Total MbF	57.6
Beech		Cordwood (Cds)	203
White Birch		SW Pulp (Tons)	60
B & Y Birch	6.3	HW Pulp (Tons)	
Black Cherry	0.4	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	OT			
Acres	51			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SE			
Source of Regeneration	SE/AD			

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 (Cds 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)

Date

Determination and Status 204.9193.18

Approval	Disapproval	Expires
<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/28/19
Signature of Service Forester/Director's Agent		Date
1/2/2018		
Extension	Expires	Sec. For. Ints.
<input type="checkbox"/>	<input type="checkbox"/>	
Amendment	App 1	Dis 1
	<input type="checkbox"/>	<input type="checkbox"/>
	App 2	Dis 2
	<input type="checkbox"/>	<input type="checkbox"/>

Final Report and Comments

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

Signature of Service Forester/Director's Agent

Date

Basic Codes	Designation of Trees	Type of Cut	Intermediate Harvests	Source of Regeneration
WP White Pine	CT Cut Tree	SH Shelterwood	CT Commercial Thin	AD Advanced
WK White Oak	LT Leave Tree	ST Seed Tree	CT Commercial Thin	SE Natural Seed
WH White Birch	SB Stand Boundary	CC Clear Cut	CT Commercial Thin	PL Plant
WO White Oak	OY Other	SE Selection	CT Commercial Thin	CO Coppice
RP Red Pine	Landowner Objective	SA Salvage	CT Commercial Thin	DS Direct Seed
SR Red Spruce	LT Long-term Mgt	SL Sanitation	CT Commercial Thin	OT Other
	ST Short-term Har		CT Commercial Thin	

*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.

Timber Lot 3154

Landowner DCR-DWSP-Quab

Town New Salem

File Number 204-9193-18

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 51 acre oak/mixed hardwood area. There are five openings encompassing a total area of 10 acres. Each opening is approximately 2 acres in size. All openings have some retention (min. 5 sq. ft. of basal area per acre) which include live and dead standing trees. The landing and main skid roads are marked in neon orange paint. All openings are marked in regular orange or yellow paint. Harvest boundary is a mix of flagging and triple striped paint marking.

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.

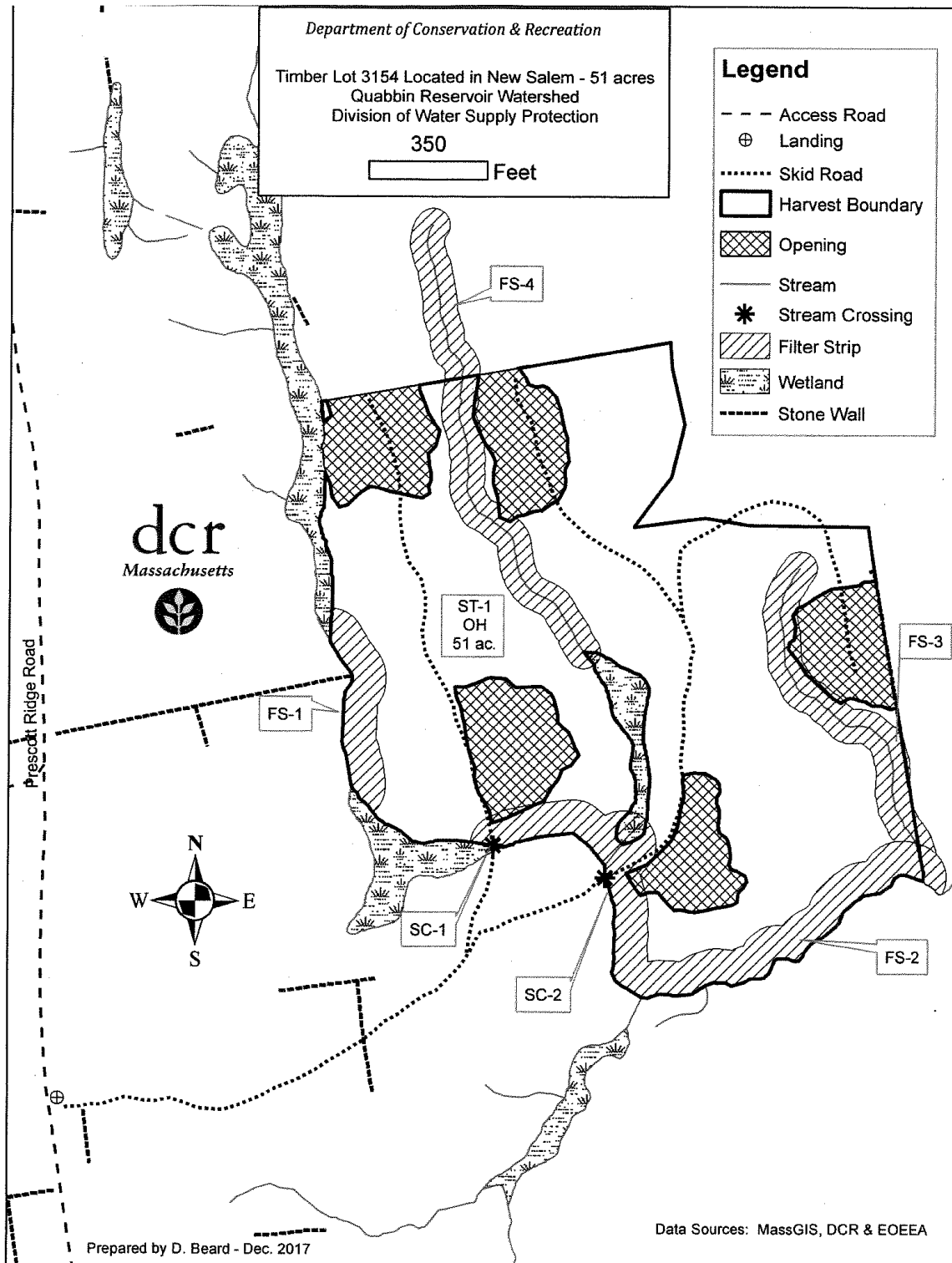
Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed

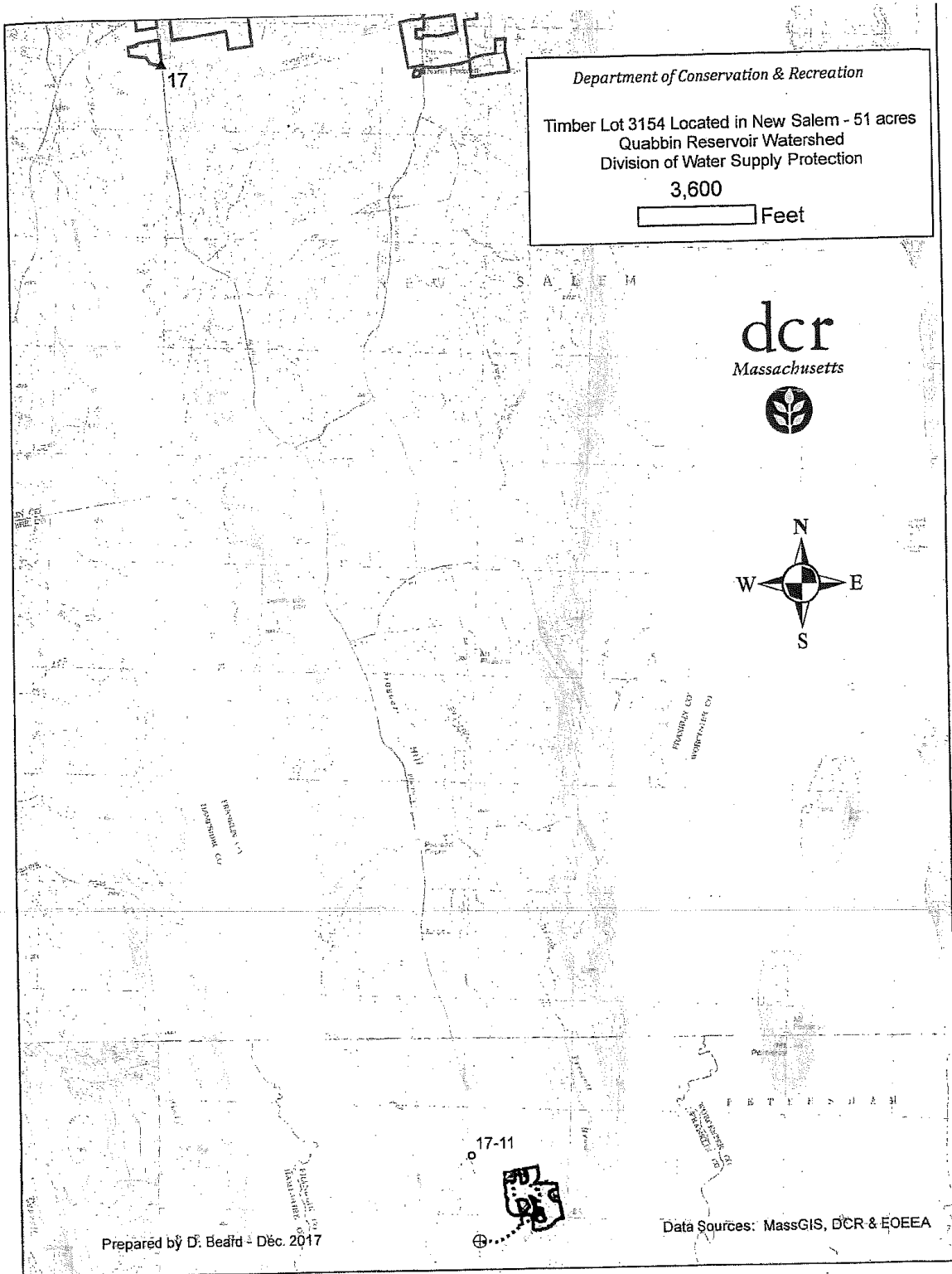
Regeneration & Future Condition

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
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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
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MASSWILDLIFE

DIVISION OF FISHERIES & WILDLIFE

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

Jack Buckley, *Director*

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

Cutting Plan No.	204-9193-18
NHESP Tracking No.	17-37280a
Town	New Salem
Road	Cooleyville Road
Landowner	DCR- Watershed Protection
Preparer	Derek Beard
Date	January 2, 2018

Dear Sean,

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 David Paulson at (508) 389-6366 or david.paulson@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

dcr

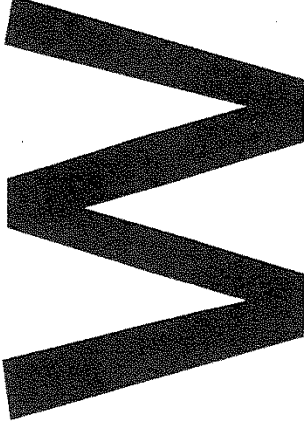


COMMONWEALTH OF MASSACHUSETTS
Department of Conservation and Recreation
Division of State Parks and Recreation

FILE #

204.9193.18

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 DCR - DWSP 485 Ware Rd, Belchertown, MA 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

Croleyville Rd lot, New Salem
(Gate 17)

Approval Date 1/2/18

Director's Agent Sean Libbey

DCR Phone No. (413) 545-4539

ISSUED BY:

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

Figure 2. Pre-Harvest Photographs, May 2018



Large snag in left foreground

Figure 2. Post Harvest, July, 2020



Figure 2. June 2021



Figure 3. Pre -Harvest, May 2018



3154 -cp-2

Figure 3. Post Harvest, July 2020



Figure 3. June 2021

