

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

Project Title: Chapin-Page-Wilder Estate

DWSP Harvest Permit Number: 3174

DWSP Proposal ID: PR-22-02

DCR Forest Cutting Plan File Number: 204-36192-23

Site Information

Watershed: Quabbin

Town(s): New Salem

Acres: 48

Nearest Road: Cooleyville

Natural Heritage Atlas overlap?: Yes

Public Drinking Water Supply Watershed?: Yes

Forest Types: Red Oak, Mixed Oak Dry Site, White Pine/Hardwood and Hemlock/Hardwood

ACEC?: No

Soils: Stony till with varying levels of sandy loam

Wetland Resources: Intermittent brooks

Vernal Pools: 0

Harvest Information

Harvest Start Date: 7/19/2024

Harvest End Date: 6/30/2026

Number of Wetland Crossings: 0

Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings: 1; will be temporary skid bridge with corduroyed slash

Filter Strips: 2; 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:

General harvest location is 7.5 miles south of gate 17 in the Sherer Road area of the Prescott peninsula. The lion's share of the project is south of intersection 17-11A on the east side of Sherer Road. Specifically, it is bounded to the north and west by Sherer Road, and to the south and east by old skid road/farm lane, steep slope and wetland.

Majority overstory composition is split between red oak and dry site mixed oak (black, scarlet, white and chestnut) with minority of white pine/hardwood and hemlock/hardwood. Common mid-story cover includes mixed oak, black birch, red maple and hickory. Excepting a half-acre opening, now mostly composed of small pole size black birch (2001 hemlock salvage), nature has dictated understory composition/development. Beyond the opening, regeneration consists of sapling/small pole size white pine, black birch and red maple. Moderate to heavy overstory oak mortality from a repeated Spongy moth infestation (2016,17,18) has been fortuitous for continued understory development (particularly white pine).

The project encompasses a DWSP continuous forest inventory (CFI) plot. These permanent forest inventory plots span the entirety of DWSP's Quabbin watershed land and have been measured once a decade since 1960. They capture present forest composition/condition that, when evaluated over time, provide landscape scale trends that can inform future watershed forest management action(s).

Site Selection:

One goal of public water supply management is maintaining forest that protects high quality drinking water for current and future users. To achieve this, DWSP has determined the forest contain a diversity of species in various stages of development (seedlings through large legacy trees). This requires some active forest management designed to foster health, regeneration and greater complexity. Forest in this condition is well positioned to bolster inherent resiliency and quickly recover from a range of disturbances (disease, insect infestation, ice storms and hurricanes) that, with climate change, have become increasingly more common.

Silvicultural Objectives:

The main goal of the harvest is developing and/or establishing a diverse young forest age class. To accomplish this, three patch openings were sited across 48 acres. The openings total 7.5 acres, average 2.5 acres and range from 1.5 to 4 acres in size. They're well-spaced and mesh with the landscape. In addition, they all have remaining live trees that will contribute to future forest complexity.

Cultural Resources:

The project is bounded by a watershed access road, which, prior to state ownership, was a town thoroughfare with residences. Given the history, one cellar hole has been identified (on the road) within the project area. Evidence of old property bounds were also discovered.

Rare or Endangered Species:

According to the latest edition of the MA Natural Heritage & Endanger Species Atlas, the project overlaps with estimated or critical habitat area. The NHESP Program review determined that the proposed plan will not negatively impact Priority Habitat or result in Take (as defined in 321 CMR 10.02) of plant or animal species protected under the Massachusetts Endangered Species Act.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2. Camera Post Photos

Figure 1a: Forest Cutting Plan pg. 1.

Lot 3174

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 204-36192-23 Case No. NA
Date Rec'd 12/14/22 Nat. Hert. Yes
Earliest Start 12/30/22 Pub. Dr. Wat. Yes
River Basin Chicopee ACEC No
Gen. Obj. L

Site Information

Location

Town New Salem
Road Sherer Rd. (Gate 17)
Acres 48 Proposed Start Date _____
Vol. MBF 66.5 Vol. Cds. 99 Vol. Tons 81

Plan Preparer

Name Derek Beard
Address 485 Ware Rd.
Town, State, Zip Belchertown, MA 01007
Phone (617) 780-0631
Type of Preparer Licensed Forester
*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	BR			
Existing Structure	NO			
Type of Bottom	ST/MU			
Bank Height (ft)	<1' <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)	50	50		

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 - DR

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 Polod	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

pg 3 of 5

Figure 1b: Forest Cutting Plan pg. 2.

Forest Products	Products to be Harvested*			
	Species	Mbf/Cds	Mbf/Cds	Mbf/Cds
	White Pine	14.2	Red Maple	0.4
	Red Pine	0.6	Sugar Maple	
	Pitch Pine		Red Oak	14.6
	Hemlock	7.7	Black Oak	4.3
	Spruce		White Oak	0.3
	Other Sftwd.		Other Hdwd.	9.3
	White Ash	0.2	Total Mbf	66.5
	Beech		Cordwood (Cds)	99
	White Birch		SW Pulp (Tons)	81
	B & Y Birch	14.9	HW Pulp (Tons)	
	Black Cherry		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.

Stand Treatment	Cutting Standards			
	ST-1	ST-2	ST-3	ST-4
Indicate location on map	WO <input checked="" type="checkbox"/>	HH <input checked="" type="checkbox"/>	OH <input checked="" type="checkbox"/>	
Forest Type	1.5	2	4.1	
Acres	LT	LT	LT	
Landowner Objective	CT <input checked="" type="checkbox"/>	CT <input checked="" type="checkbox"/>	CT <input checked="" type="checkbox"/>	
Designation of Trees	CC <input checked="" type="checkbox"/>	CC <input checked="" type="checkbox"/>	CC <input checked="" type="checkbox"/>	
Type of Cut	AD <input checked="" type="checkbox"/>	AD <input checked="" type="checkbox"/>	AD <input checked="" type="checkbox"/>	
Source of Regeneration				

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.

Signature of landowner(s)

12/13/2022

Date

Service Forester	Determination and Status			Final Report and Comments
	Approved	Disapproved	Expires	
Cutting Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12.14.24	I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.
	<p>2.7.23</p> <p>Date</p>			<p>8.14.24</p> <p>Date</p>
Extension	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Expires /	
Amendment	App 1 <input type="checkbox"/>	Dis 1 <input type="checkbox"/>	App 2 <input type="checkbox"/>	
			Dis 2 <input type="checkbox"/>	

Codes

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 Black Cherry BB Bee/Bir/Map OH Oak/Hdwd OR N Red Oak	OM Mixed Oak RM Red Maple BE Beech SF Spruce/Fir SM Sugar Maple PP Pitch Pine
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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	Intermediate Harvester: CT Commercial Thin NT Non Com Thin Non-Standard Systems:* HG Highgrade* DL Diameter Limit* OT Other*
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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 1c: 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.

The 48 acre area encompasses three openings totaling 7.6 acres. Openings range from 1.5 to 4.1 acres in size. All

openings have green tree retention. Trees to be harvested are marked blue and orange (skid roads delineated in orange).

Leave tree opening boundaries are marked with 3 red slashes.

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.

[illegible]

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

Figure 1d forest cutting plan pg 4.

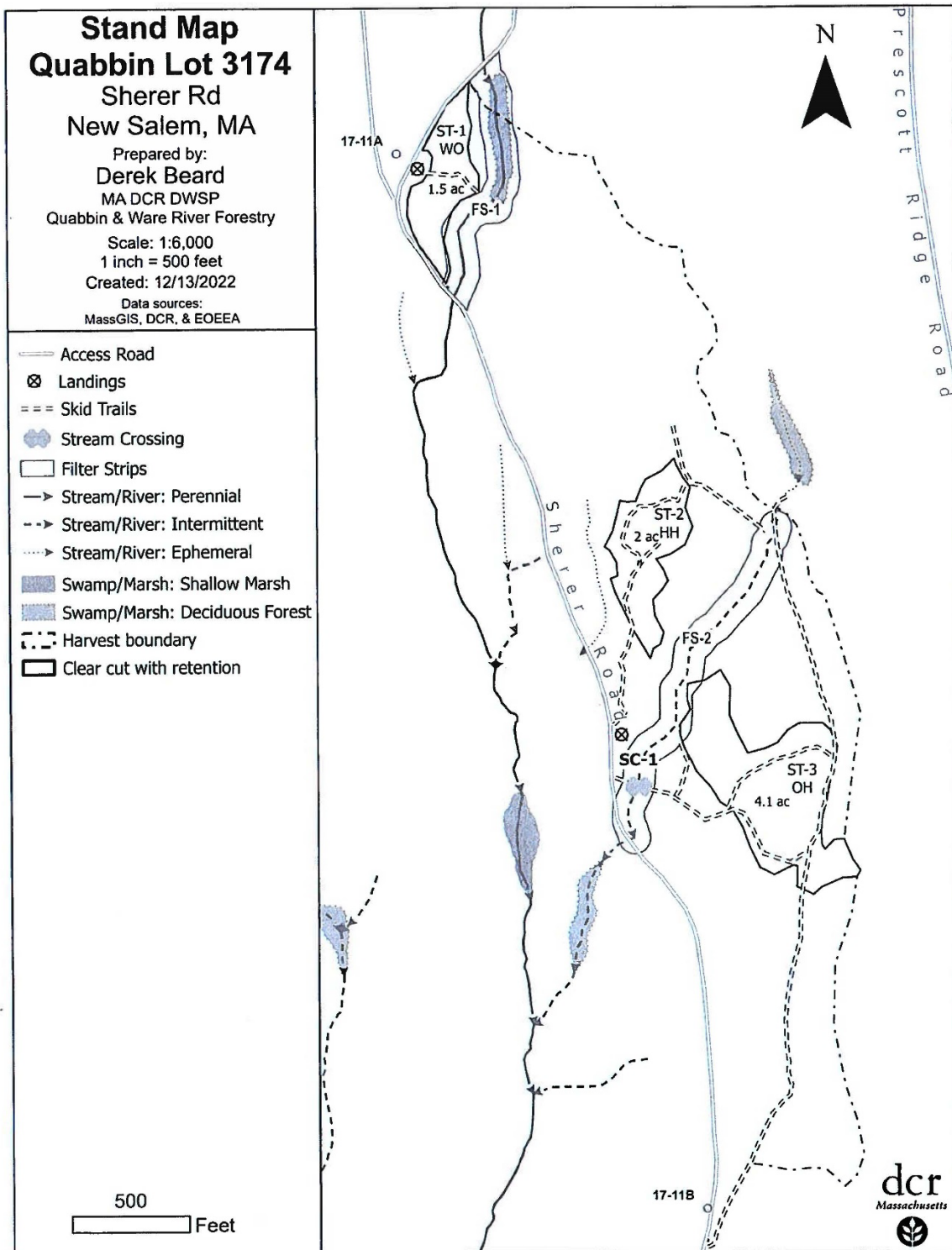


Figure 1d: Forest Cutting Plan pg. 5.

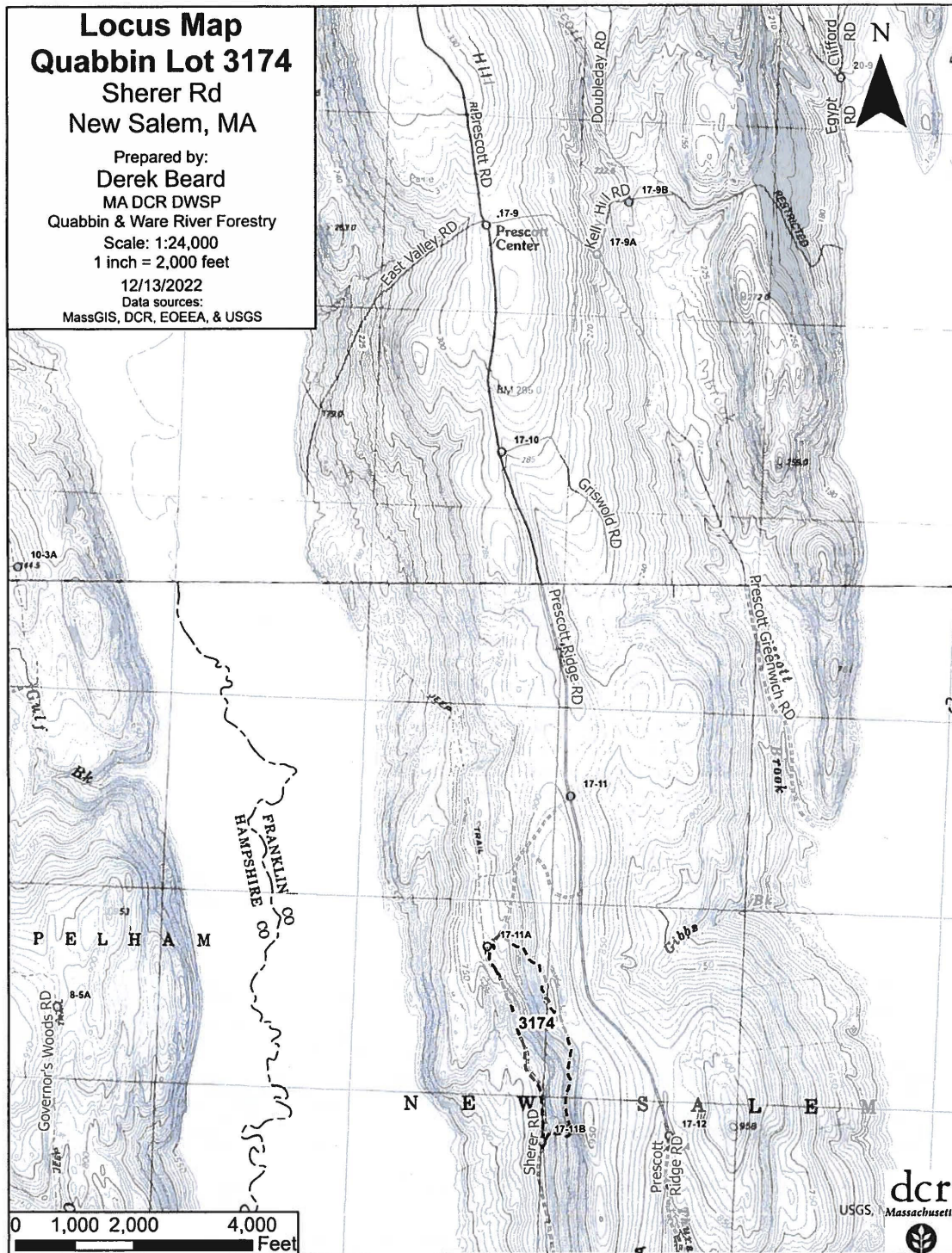


Figure 1f: Forest Cutting Plan pg. 6.


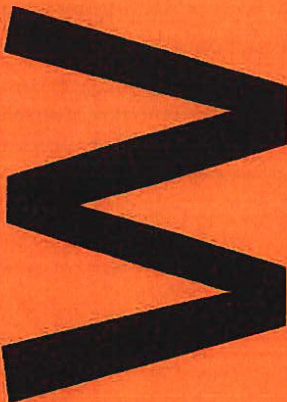

 COMMONWEALTH OF MASSACHUSETTS Department of Conservation and Recreation Division of State Parks and Recreation	FILE # <u>204-36192-23</u>
	
FOREST CUTTING PLAN CERTIFICATE	
Post this in a conspicuous place within the area in which the harvesting operation is to take place.	
This certifies that <u>DCR-DWSP 485 Ware Rd</u> in accordance with the	
(Name of Owner)	(Address)
<u>Quabbin 374 lot.</u>	<u>Amherst F.O.</u> with the Dept. of Conservation
provision of M.G.L. Chapter 132, Section 40-46, filed in	
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the	
Approval Date <u>2/7/23</u>	ISSUED BY: 
Director's Agent <u>Andrew Rawcliffe</u>	Priscilla E. Gelgis, Director
DCR Phone No. <u>617-549-1677</u>	Division of State Parks and Recreation

Figure 2a: Pre-Harvest photo, July 2024



Figure 2b: Post-Harvest photo, September 2024

