

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

Project Title: Harding Hill Young Forest 1

DWSP Harvest Permit Number: 4406

DWSP Proposal ID: WR-19-20-3 and WR-19-22-S

DCR Forest Cutting Plan File Number: 021-32475-22

Site Information

Watershed: Ware River Watershed

Town(s): Barre

Acres: 13

Nearest Road: Coldbrook Rd

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Forest Types: White Pine/Oak

Area of Critical Environmental Concern (ACEC)?: No

Soils: 910C Woodbridge-Paxton and 902E Charlton-Paxton

Wetland Resources: Several unnamed intermittent streams and associated wetlands are adjacent to the harvest area.

Vernal Pools: No

Harvest Information

Harvest Start Date: 7/6/22

Harvest End Date: 8/14/22

Number of Wetland Crossings: None

Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings: There are no stream crossings.

Filter Strips: There is no harvesting in a filter strip.

Wetland Crossings: There are no wetland crossings.

Harvesting in Wetlands: There is no harvesting in wetlands.

DWSP Forester supervising this harvest

Name: Ken Canfield

Forester License number: 431

Phone number: 857 274 7090

Email: Kenneth.canfield@mass.gov

Narrative

General Description/Forest Composition/History

The harvest area is located in the town of Barre between Coldbrook Rd and Harding Hill Rd. It consists of a white pine/oak stand.

Tree species present in the overstory are white pine, red, black, and white oaks, red maple, white ash, paper birch, pignut hickory, black birch, sugar maple, black cherry, and eastern hemlock. The understory consists of red maple, eastern white pine, black birch, red, black, and white oak, pignut hickory, red spruce, American beech, eastern hemlock and black cherry.

Glossy buckthorn and Japanese barberry are present but not well established in the harvest area. Some stems were hand pulled during tree marking.

The soils are well drained to moderately well drained.

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. A healthy and resilient forest is comprised of diverse native tree and shrub species and multiple age classes of trees.

The harvest consists of a 13 acre clearcut in a white pine/oak stand. The harvest is located in the Ware River Watershed Young Forest Focus Area as described on page 120 of DWSP 2017 Comprehensive Land Management Plan (CLMP).

This harvest was proposed to be the first early successional block created in the focus area. However, a gypsy moth infestation affected this area in 2018. Patches of overstory oak trees were left dead or damaged. A salvage harvest was sold and has recently been completed.

This harvest abuts the recently completed salvage harvest. It will expand the early successional habitat that was created by that harvest and the mortality event. The harvest directly abuts a 1.0 acre patch opening (labelled "ST-0" on the FCP Stand Map) that was created by the salvage harvest, effectively turning this 13 acre clearcut into a 14 acre clearcut.

Silvicultural Objectives

The harvest will have the following benefits:

This harvest will create early successional habitat that will be utilized by many wildlife and plant species. This habitat will complement the existing early successional habitat created by the gypsy moth salvage harvest. Future harvests in the area will complement the habitat created by this harvest.

This harvest will result in a fully regenerated stand that will be free to grow for the foreseeable future. Approximately 5 square feet of basal area per acre of overstory trees will be retained for seed and structure. Most of the retention trees are dominant, well formed, vigorous oaks, hickories, and white pines. Trees with large cavities were also retained. Standing dead trees will be retained where possible.

With existing regeneration, sprouts, and seedlings to be established there should be ample regeneration within a few years. No further silvicultural entries will be required for decades, which will allow skid trails to heal and will reduce any potential environmental impacts.

Cultural Resources

Standard practice dictates that every effort is made to avoid disturbing stone walls and other cultural resources.

Rare or Endangered Species

Natural Heritage Endangered Species Program (NHESP) does not show any rare habitat within the harvest area.

Figures

Figure 1. Final Forest Cutting Plan

FINAL

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 021.32475.22 Case No. _____
Date Rec'd 8/11/21 Nat. Hert. N
Earliest Start 8/25/21 Pub. Dr. Wat. V
River Basin CHICOPEE ACEC N
Gen. Obj. LT

Site Information

Location

Town Barre
Road Coldbrook Rd
Acres 13 Proposed Start Date 9/21
Vol. MBF 107.8 Vol. Cds. 205 Vol. Tons 188

Plan Preparer

Name Kenneth W. Canfield
Address 578 Old Turnpike Rd
Town, State, Zip Oakham, MA 01068
Phone (857) 274-7090
Type of Preparer LF
*Mass. Forester License # 431
*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 (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				
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			

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

*PLEASE NOTIFY DCR SERVICE FORESTER
AT START OF HARVEST OPERATION

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

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

FINAL

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	47.3 Mbf	Red Maple	5.8 Mbf
Red Pine		Sugar Maple	0.9 Mbf
Pitch Pine		Red Oak	44.0 Mbf
Hemlock		Black Oak	2.2 Mbf
Spruce		White Oak	0.9 Mbf
Other Sftwd.		Other Hdwd.	2.0 Mbf
White Ash	4.2 Mbf	Total Mbf	107.8
Beech		Cordwood (Cds)	205
White Birch		SW Pulp (Tons)	
B & Y Birch	0.6 Mbf	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	188

*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	WO			
Acres	13.0			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	CC			
Source of Regeneration	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 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

Clark
Date: 2021.08.11 08:39:21
-04'00'

8/11/2021

Signature of landowner(s)

Date

Determination and Status

	Approved	Disapproved	Expires
Cutting Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8/11/23
Signature of Service Forester/Director's Agent			8/24/21
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"/>	/

Final Report and Comments

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

Jacob Seidel

Signature of Service Forester/Director's Agent

8/11/2022

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	Black 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	SA	Salvage	HG	Highgrade*
SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt.	DL	Diameter Limit*
						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 pg 4 of 5

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 Barre

File Number 021.32475.22

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.

BMPs

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

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.

Regeneration & Future Condition

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

MA DCR DWSP

Lot 4406 Young Forest Focus Area

Coldbrook Rd in Barre FCP

Stand 1 Narrative:

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Stand Map
Ware River Lot 4406
Coldbrook Rd.
Barre, MA
Prepared by:
Kenneth Canfield
MA DCR DWSP
Quabbin & Ware River Forestry

-  Stand Outline
-  Landing
-  Skid Trails
-  Unpaved Road
-  Stone Walls
-  Stream/River: Perennial
-  Stream/River: Intermittent
-  Stream/River: Ephemeral
-  Swamp/Marsh

Scale: 1:7,200

Created: 8/10/21

Data sources:
MassGIS, DCR, & EOEEA



**Locus Map
Ware River Lot # 4406
MA DCR DWSP**

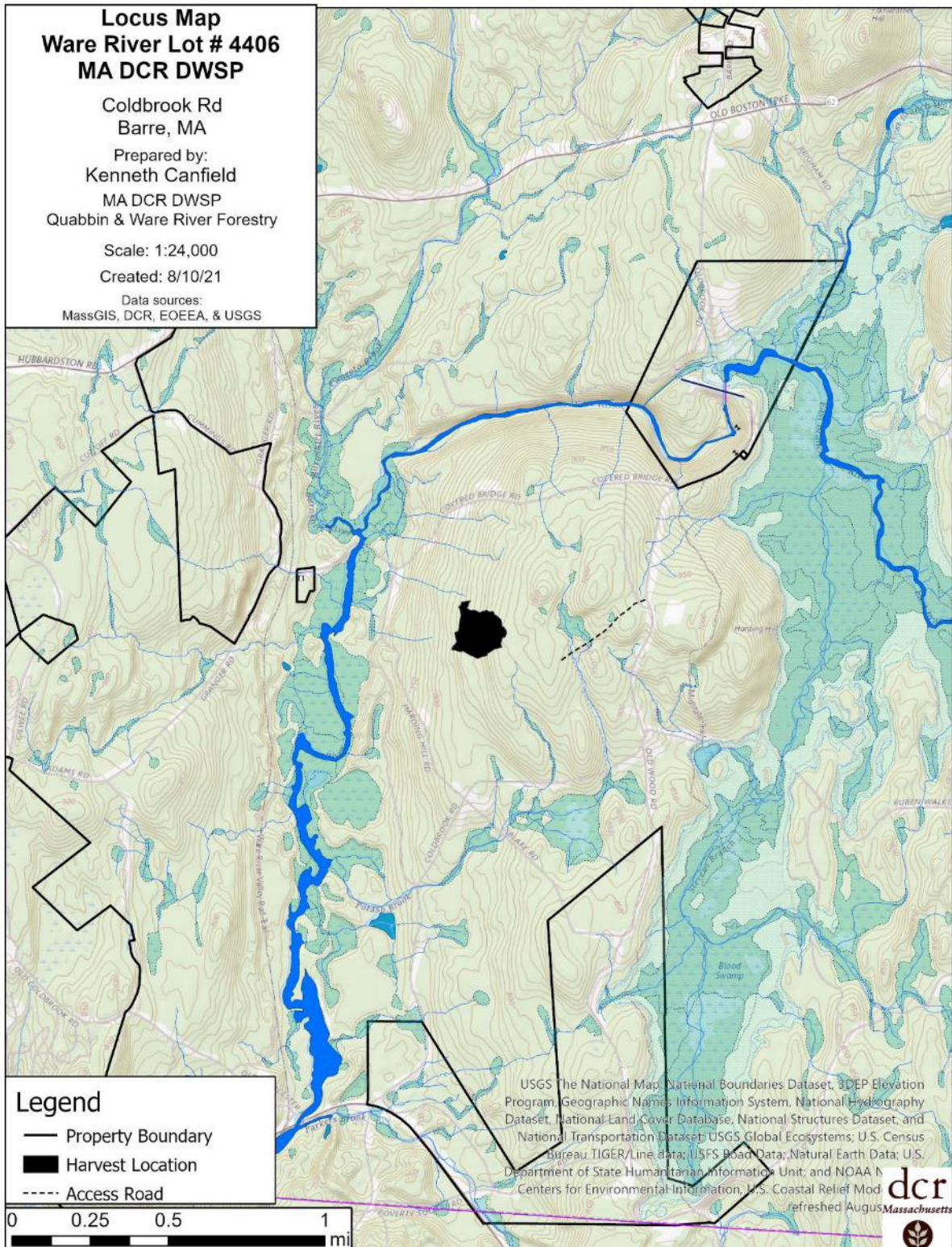
Coldbrook Rd
Barre, MA

Prepared by:
Kenneth Canfield
MA DCR DWSP
Quabbin & Ware River Forestry

Scale: 1:24,000

Created: 8/10/21

Data sources:
MassGIS, DCR, EOEEA, & USGS



dc



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

FILE # 021.32475.22

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
(Name of Owner) BELCHERTOWN, MA 01007 in accordance with the
(Address)

provision of M.G.L. Chapter 132, Section 40-46, filed in CLINTON with the Dept. of Conservation
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the
COLD BROOK lot.

Approval Date 8/24/21
Director's Agent CHRIS CAPONE
DCR Phone No. (857) 406-0175

ISSUED BY:

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