

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

Project Title: Brigham Rd Red Pine

DWSP Harvest Permit Number: 4407

DWSP Proposal ID: WR-22-22-03

DCR Forest Cutting Plan File Number: 021-33602-22

Site Information

Watershed: Ware River Watershed

Town(s): Barre and Hubbardston

Acres: 5.1

Nearest Road: Brigham Rd

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Forest Types: Red Pine, White Pine

Area of Critical Environmental Concern (ACEC)?: No

Soils: 253 B & C, Hinckley loamy sand

Wetland Resources: The harvest area is adjacent to the east branch of the Ware River and associated wetlands. There is also a small pond adjacent to the harvest area.

Vernal Pools: Yes, outside of harvest but within 200 feet.

Harvest Information

Harvest Start Date: 10/18/22

Harvest End Date: 10/31/22

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 west of Brigham Rd adjacent to the east branch of the Ware River. The landing is in the town of Hubbardston, just off of Brigham Rd. It consists of 4.9 acres of red pine plantation and 0.2 acres of white pine.

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

Glossy buckthorn is abundant, particularly adjacent to the river. Some stems were hand pulled during tree marking.

The soils are excessively 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.

This harvest area was chosen because it is a mature red pine plantation.

Silvicultural Objectives

The harvest will remove the mature overstory red pine before it succumbs to red pine scale and release the diverse regeneration below. The goal is to give the young native trees enough sunlight to out-compete the invasive glossy buckthorn shrubs that are well established.

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 REPORT

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 031-33602-22 Case No. _____
 Date Rec'd 10.28.21 Nat. Hert. N
 Earliest Start 11.15.21 Pub. Dr. Wat. Y
 River Basin CHICOPPE ACEC N
 Gen. Obj. LT

Location

Town Barre
 Road Brigham Rd
 Acres 5.1 Proposed Start Date 12/21
 Vol. MBF 123.1 Vol. Cds. 3 Vol. Tons 121

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.

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)				

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
 *PLAN APPROVAL DELAYED DUE TO
 PLAN PREPARER REVISIONS

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note:
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge	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.
TH Lic. Tim. Har	BR Bridge	MU Muleh	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	

If Other (OT) is used in any category an explanation must be given on an attached narrative page

pg 3 of 5

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	4.3 Mbf	Red Maple	2 Cds
Red Pine	118.7 Mbf	Sugar Maple	
Pitch Pine		Red Oak	
Hemlock		Black Oak	
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	
White Ash		Total Mbf	123.1
Beech		Cordwood (Cds)	3
White Birch		SW Pulp (Tons)	121
B & Y Birch	1 Cd	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.

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	RP	WP		
Acres	4.9	0.2		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	CC	CT		
Source of Regeneration	SE	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: 2021.10.28 07:45:49
04'00"

10/28/2021

Date

Signature of landowner(s)

Determination and Status 021-33602-22 Final Report and Comments

Approved ☒ Disapproved ☐ Expires 10/23/23

Signature of Service Forester/Director's Agent Clark Date 12/20/21

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

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

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 Jacob Smith Date 11/4/2022

All BMPs met, buckthorn is unlikely to impede regeneration of native trees.

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 Harvester:	AD	Advanced		
WK	WP/Hem	HH	Hem/Idwd	RM	Red Maple	LT	Leave Tree	ST	Seed Tree	CT	Commercial Thin	SE	Natural Seed	
WH	WP/Hdwd	BC	Blk 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/Idwd	SM	Sugar Maple	Landowner Objective		SA	Salvage	HG	Highgrade*	DS	Direct Seed	
SR	Red Spruce	OR	N Red 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 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 021-33602-20

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.

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.

Describe Trees to be Cut				Describe Trees to be Left			% BA/AC	
Stand No.	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

**Locus Map
Ware River Lot # 4407
MA DCR DWSP**

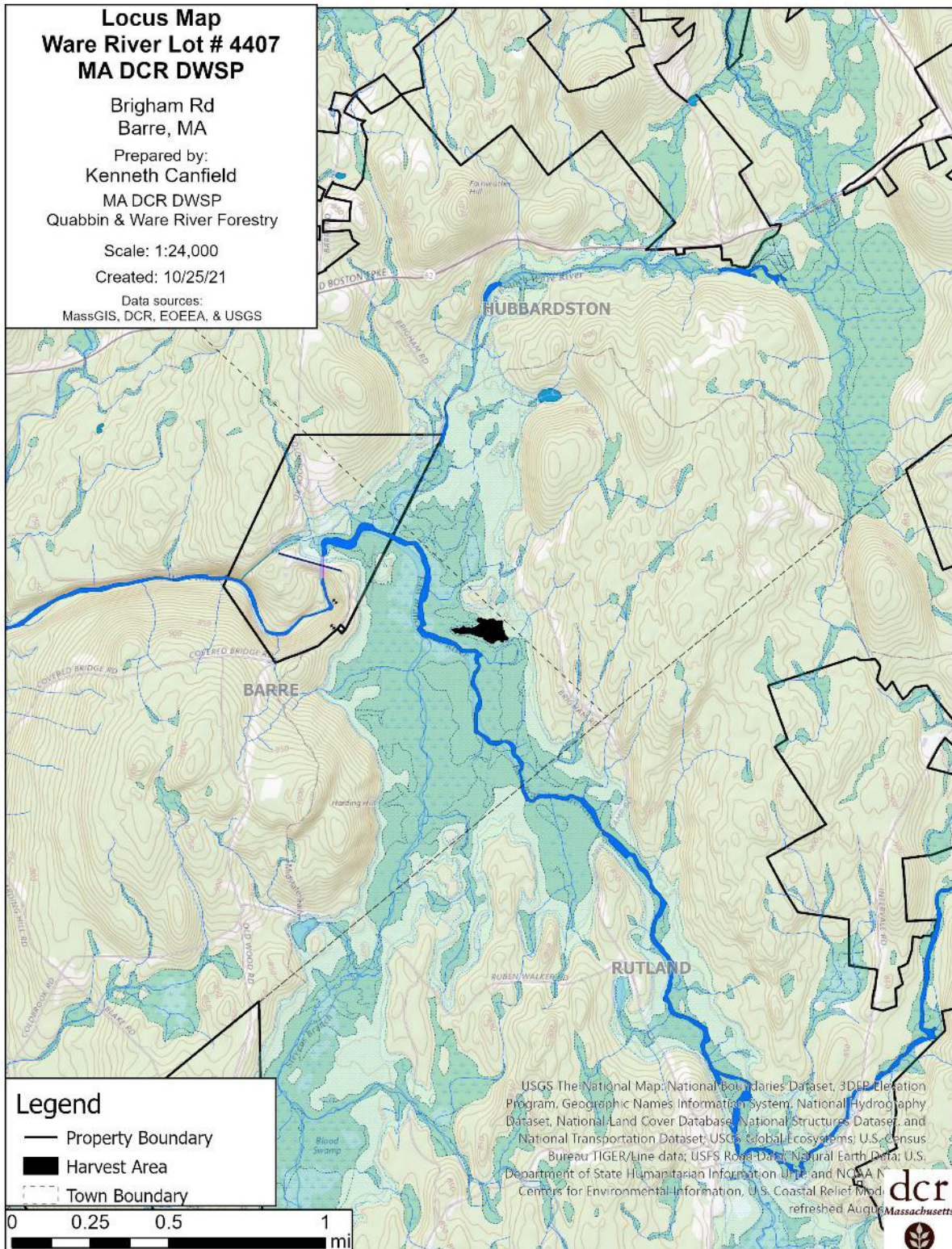
Brigham Rd
Barre, MA

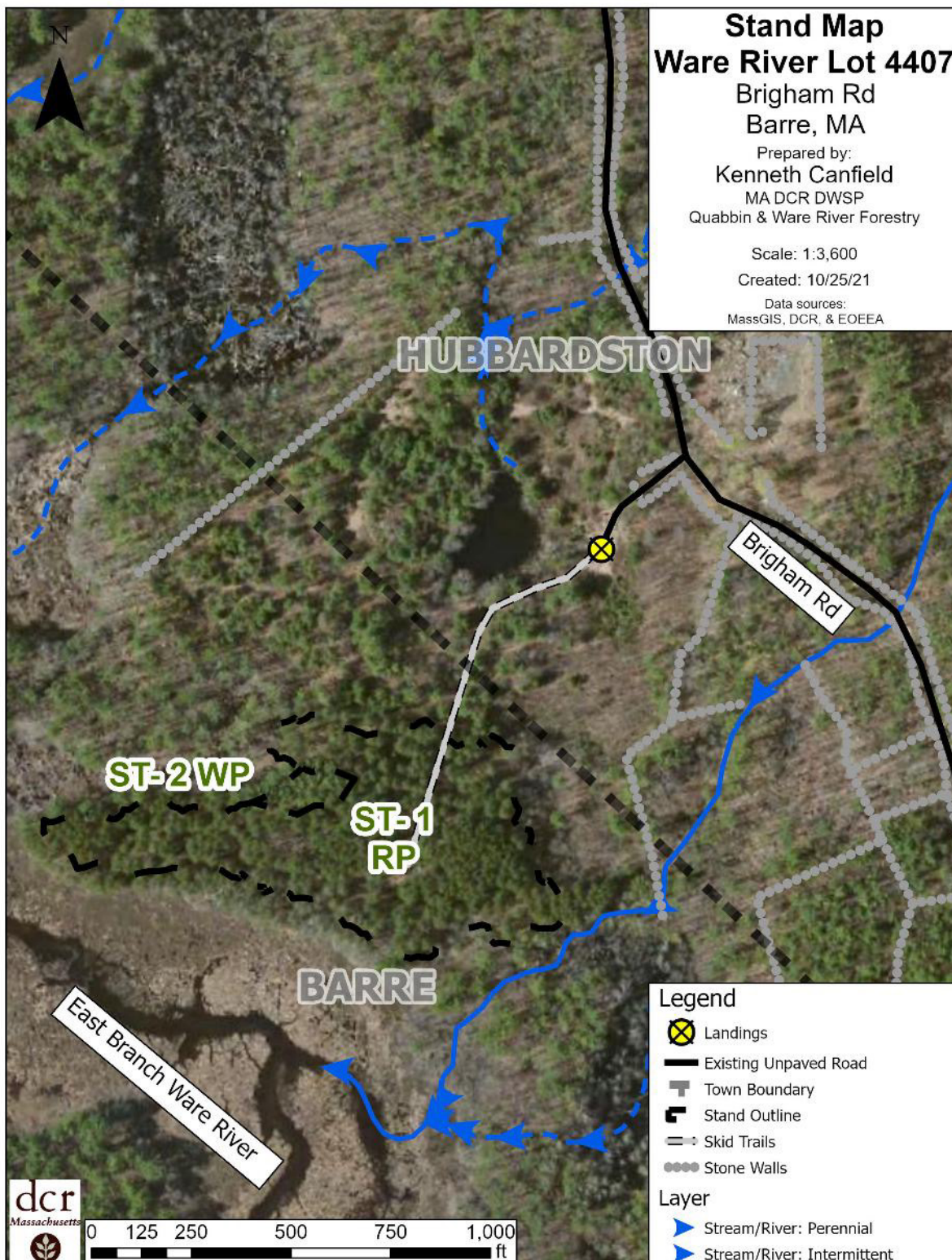
Prepared by:
Kenneth Canfield
MA DCR DWSP
Quabbin & Ware River Forestry

Scale: 1:24,000

Created: 10/25/21

Data sources:
MassGIS, DCR, EOEEA, & USGS







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

FILE # 021.33602 - 22

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) (Address) BELCHERTOWN, MA 01007 in accordance with the

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
BRIGHAM lot.
RD

Approval Date 12/20/21
Director's Agent CHRIS CAPONE
DCR Phone No. (857) 406-0175

ISSUED BY:

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