

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

**Project Title: Potash Brook**

DWSP Harvest Permit Number: 4393

DWSP Proposal ID: WR-17-17-03

DCR Forest Cutting Plan File Number: 021-8695-17

***Site Information***

Watershed: Ware River Watershed

Town(s): Barre

Acres: 7

Nearest Road: Coldbrook Rd

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Forest Types: White Pine/Hardwood

Area of Critical Environmental Concern (ACEC)?: No

Soils: 253 B & C Hinckley loamy sand excessively drained, and 254 B Merrimac fine sandy loam 3- 8% slopes somewhat excessively drained.

Wetland Resources: Wetlands and a pond are present, adjacent to but outside of harvest area. Potash Brook is adjacent to, but outside of the harvest area. A seasonal brook in the harvest area will be crossed.

Vernal Pools: Yes

***Harvest Information***

Harvest Start Date: 6/5/17

Harvest End Date: 6/27/17

Number of Wetland Crossings: None

Number of Stream Crossings: One

***Best Management Practices Applied***

Stream Crossings: The crossing has been located in the best possible spot. Temporary skidder bridges will be used over the stream channel. The approaches to the crossing may be armored with brush or corduroyed if necessary. The approaches will be seeded post-harvest.

Filter Strips: There is harvesting in filter strips.

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](mailto:Kenneth.canfield@mass.gov)

## **Narrative**

### ***General Description/Forest Composition/History***

The area adjacent to Coldbrook Rd was used as pastureland until the 1930's. The area was probably planted with eastern white pine and European larch. The white pine that now dominates the site is very low quality.

Overstory tree species diversity is relatively low. The harvest area is dominated by low quality "old pasture" white pine trees that are 80+ years old. Although there are scattered black cherry, red maple, European larch, hemlock, and red oak trees, they make up a very low percentage of overstory trees. Advanced regeneration of all species is abundant and is much more balanced in terms of diversity.

### ***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. DWSP recognizes that wildlife habitat management and restoration of rare habitats are important secondary goals, where they are compatible with maintaining high quality drinking water.

This area was specifically targeted because there is a 25 + acre stand dominated by poorly formed pasture white pine. That type of stand is relatively low in diversity of overstory tree species. The white pine trees that are present are also more prone to windthrow in a wind event because they are tall and multi-stemmed. The abundant advanced regeneration present consists of a more balanced species mix and makes it more likely that the resulting stand will be established quickly and will be more diverse.

### ***Silvicultural Objectives***

The silvicultural objective for this lot is to regenerate 7.0 acres of old pasture white pine stand to a more diverse stand with a higher percentage of dominant or co – dominant hardwood species, especially oak. This will be done in four groups that are 2.5 acres, 2.0 acres, 1.7 acres, and 0.8 acres in size.

### ***Cultural Resources***

This land has been determined to not be culturally or archeologically sensitive based on a review by the DCR Archaeologist. Standard practice dictates that every effort is made to avoid disturbing stone walls and other cultural resources.

### ***Rare or Endangered Species***

No known vernal pools are present within the lot. There is 1 vernal pool and 2 potential pools within 200 feet of the boundary of the lot. State CMP's and DWSP policy were implemented to mitigate potential impacts to these areas.

## **Figures**

Figure 1	Final Forest Cutting Plan
Figure 2 (A-B)	Pre-Harvest photographs taken 4/12/17
Figure 3 (A-B)	Post-Harvest photographs taken 7/12/17
Figure 4 (A-B)	Post-Harvest photographs taken 8/16/22 (after 5 growing seasons)

Figure 1 Final Forest Cutting Plan

# Forest Cutting Plan

and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00 **MAR 06 2017**  
(Effective Date: 3/15/16)

**For DCR Use Only:**  
 File Number 021-8695-17 Case No. \_\_\_\_\_  
 Date Rec'd 3/6/17 Nat. Hert. No  
 Earliest Start 3/10/17 Pub. Dr. Wat. Ware River In Lake  
 River Basin Chicopee ACEC No  
 Gen. Obj. LT

Site Information

**Location**

Town Barre  
 Road Coldbrook Rd  
 Acres 7.0 Proposed Start Date 4/1/17  
 Vol. MBF 15.1 Vol. Cds. 38 Vol. Tons 521

**Plan Preparer**

Name Kenneth W. Canfield  
 Address 578 Old Turnpike Rd  
 Town, State, Zip Oakham, MA 01068  
 Phone (508) 882-3636  
 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	BR			
Existing Structure	NO			
Type of Bottom	MU			
Bank Height (ft)	<1'			
Stabilization	SE			

**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**

*Please notify DCR Service Forester when harvest begins*  
*Some of the harvest areas fall into the outer limits of the filter strips. These areas have been viewed by the service forester and were found to be adequately addressed by the plan preparer.*

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 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
		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

Final



# 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 \_\_\_\_\_

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.

Stand 1 is an old field white pine - hardwood stand. A 2.5 acre opening (clearcut) will be established, leaving 5 - 10 square feet of basal area per acre of residual overstory trees, mostly oak and black cherry, for aesthetic purposes. Stand two is an old field white pine - hardwood stand. Three group selection openings of 0.8, 1.7, and 2.0 acres will be established, leaving 5 - 10 square feet of basal area per acre of residual overstory trees, mostly oak, for aesthetic purposes.

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

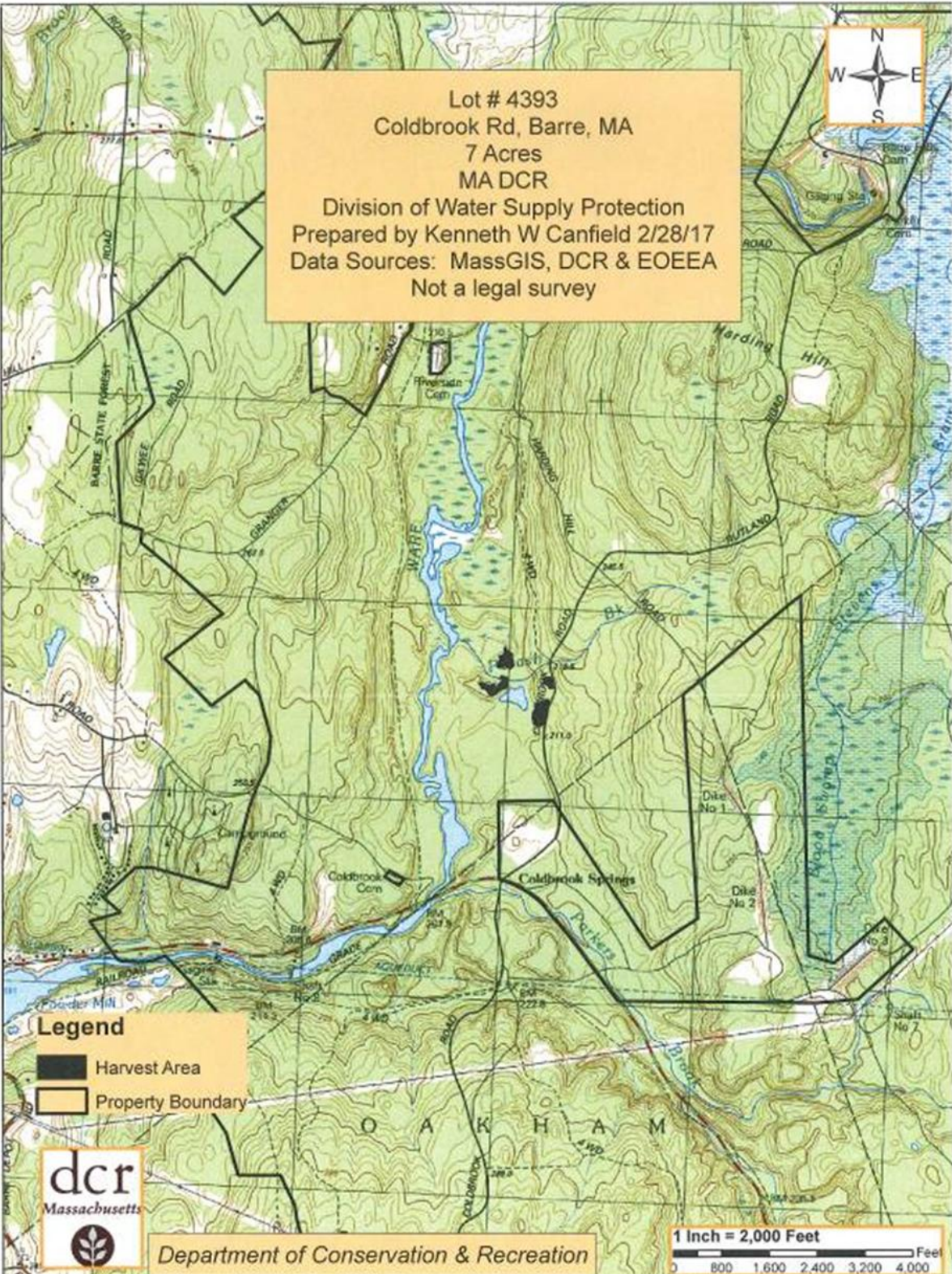
Regeneration & Future Condition

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

Lot # 4393  
Coldbrook Rd, Barre, MA  
7 Acres  
MA DCR  
Division of Water Supply Protection  
Prepared by Kenneth W Canfield 2/28/17  
Data Sources: MassGIS, DCR & EOEEA  
Not a legal survey



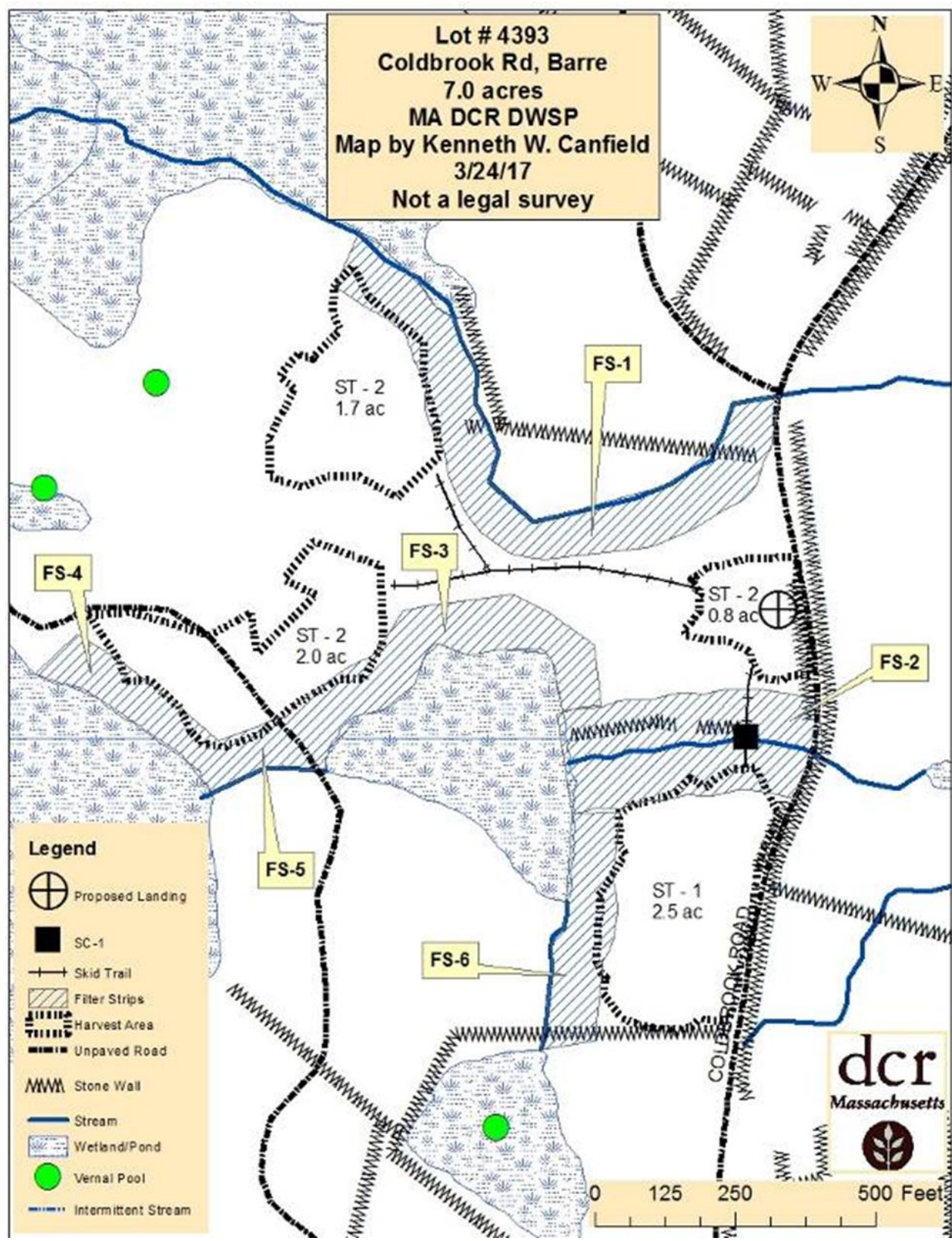
**Legend**  
■ Harvest Area  
□ Property Boundary



Department of Conservation & Recreation

1 Inch = 2,000 Feet  
0 800 1,600 2,400 3,200 4,000 Feet

Lot # 4393  
Coldbrook Rd, Barre  
7.0 acres  
MA DCR DWSP  
Map by Kenneth W. Canfield  
3/24/17  
Not a legal survey



dcr



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

FILE # 021-8695-17

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

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  
Coldbrook Rd lot.

Approval Date 3/28/17  
Director's Agent Kate Marquis  
DCR Phone No. (413)992-8734

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

**Figure 2 (A-B) Pre-Harvest photographs from marked photo point 1 taken 4/12/17**

2A From the edge of Coldbrook Rd Looking west southwest



2B From the edge of Coldbrook Rd looking west northwest



**Figure 3 (A-B) Post-Harvest Photographs taken from marked photo point 1 taken 7/12/17**

**3A From the edge of Coldbrook Rd Looking west southwest**



**3B From the edge of Coldbrook Rd looking west northwest**



**Figure 4 (A-B) Post-Harvest photographs taken 8/16/22 (after 5 growing seasons)**

4A From the edge of Coldbrook Rd Looking west southwest



4B From the edge of Coldbrook Rd looking west northwest

