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

Project Title: Rice Rd

DWSP Harvest Permit Number: 4400 DWSP Proposal ID: WR18-28-05 DCR Forest Cutting Plan File Number: 021-16390-20

Site Information

Watershed: Ware River Watershed Town(s): Barre Acres: 12.1 Nearest Road: Rice Rd Natural Heritage Atlas overlap?: Yes Public Drinking Water Supply Watershed?: Yes Forest Types: white pine Area of Critical Environmental Concern (ACEC)?: No Soils: 253B Hinckley loam sand excessively drained Wetland Resources: This area is adjacent to the Burnshirt River and associated wetlands, and a stream.

Vernal Pools: One known vernal pool is present less than 200 feet outside of the harvest area.

Harvest Information

Harvest Start Date: 10/18/19 Harvest End Date: 11/5/19 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: 508-882-3636 X 1603 Email: <u>kenneth.canfield@state.ma.us</u>

Narrative General Description/Forest Composition/History

The harvest area is located in Barre, adjacent to Gilbert Rd and Rice Rd.

The harvest area is dominated by low quality, old pasture white pine. The excessively drained soils have led to much of the overstory white pine with low vigor. Red and white oak, black cherry, red maple, and eastern hemlock stems are also present in the overstory. A shelterwood harvest of the stand was completed in 1993 which has resulted in abundant red and white oak, hemlock, red maple, black birch, American beech, and black cherry regeneration.

Glossy buckthorn is well established throughout the entire area. Some invasive shrubs were hand-pulled during the marking of this lot

The soil is excessively 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.

This area was specifically targeted because the stand is 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 12.1 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 five groups that are 0.7 acres, 1.6 acres, 2.0 acres, 2.0 acres and 4.3 acres in size.

Cultural Resources

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

Rare or Endangered Species

NHESP restrictions on this lot (see cutting plan) will be complied with. One vernal pool is present adjacent to the harvest area. It will be buffered and protected.

Figures Figure 1. 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 AUG 1 2 2019 (Effective Date: 3/15/16)

For DCR U	se Only:		
File Number	21-16390.2	DCase No.	VIES
Date Rec'd _	8.21.19	Pub. Dr. Wat.	1B
River Basin	CHIKOPEE	ACEC	No
Gen. Obj.	LT	NATHER. IMPAC	TYES

-2 =

Town	Ва	rre			
Road	Gil	bert Rd	and Rice R	d	
Acres	12	.1	Pro	posed S	Start Date 9/15/19
Vol. M	BF	35.6	Vol. Cds.	15	Vol. Tons 89

Plan Preparer

Location

Information

e

Management Practices

Best

Name Kenneth W. Canfield Address 578 Old Turnpike Rd

Town, Stat	e, Zip Oakha	m, MA 0106	8	
Phone	(508) 88	2-3636		
Type of Pro	eparer LF	And the full has		
*Mass. For	rester License	# 431	an-ineresta	a loo an
*Required	for land under	Ch61, Ch61/	A or Forest St	ewardsh

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing	volt Arrestan	11.0 (110-)		and has
Existing Structure	A Line CA	A P Line		
Type of Bottom		8. 1.		
Bank Height (ft)				
Stabilization			-	
Wetland Crossi	ngs	6	2403	
Indicate location on map	WC-1	WC-2	WC-3	WC-4

Indicate location on map	WC-1	mc-2	WC-5	110-4			
Length of Crossing		1 internal	The second				
Mitigation		-					
Stabilization			dia an	1000			
Filter Strips	Filter Strips						

Indicate location on map	FS-1	FS-2	FS-3	FS-4
Width (50', 100', or VA)	VA	VA		

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 <u>CHRIS PIRNER LOGGING</u> Address <u>152</u> WILLIAMSVILLE RD Town, State, Zip <u>HURBARDSTDN</u>, MA 01452 Phone <u>(978) 270-9916</u> Mass. Lic. Harvester # <u>2020 - 587</u> **This information may be supplied after the plan is approved, but before work begins.

Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)	and at the			
Acres to be Harvested				and the second
Resid. Basal Area (>50%?)	a sy		-	

Service Forester Comments

·PREAS	SE NOT	TEL	DCR	SERVICE	FORESTER
AT	START	OF	OPER	ATION	
SEE	ATTAC	1 CE	AHEST	P DETERM	INATION
LE	STER				

· NHESP 50-300 BUFFER ZONE

DELINEATION IS NOT REQUIRED WHEN OPERATING FROM OCTUBER 15-APRIL 14

Type of Preparer Th LF Mass. Lic. For. CT TH Lic. Tim. Har BI TB Timber Buyer FC LO Landowner PC OT Other OT	pe of Crossing J Culvert R Bridge Ford Poled F Other	Stabilization SE Seed MU Mulch CO Corduroy ST Stone HB Hay Bales OT Other	Mitigation FR Frozen DR Dry OT Other	Type of Bottom LE Ledge ST Stony MU Mud GR Gravel 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.
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If Other (OT) is used in any category an explanation must be given on an attached narrative page

Species	Mbf/Cds		Mbf/Cds	by	the service forester upor	approvar	. WIDI the		
White Pine	35.6 Mbf	Red Maple	3 Cds		C. Line Chands	rde			
Red Pine	and the second	Sugar Maple			Cutting Standa	irus			
Pitch Pine		Red Oak	1 Cd	GU		-	1	07.2	CT 4
Hemlock		Black Oak		Ĕ	Indicate location on map	ST-1	ST-2	ST-3	51-4
Spruce		White Oak	3 Cds	at	Forest Type	WP	WP		
Other Sftwd.		Other Hdwd.		re	Acres	7.8	4.3	-	
White Ash		Total Mbf	35.6	F	Landowner Objective	LI	CT		
Beech		Cordwood (Cds)	15	2 2	Designation of Trees				
White Birch		SW Pulp (Tons)		ta	Type of Cut	SE	CC CE		
B & Y Birch	1 Cd	HW Pulp (Tons)		S	Source of Regeneration	ISE	I DE	1	1
Black Cherry	8 Cds	Chips (Tons)	891				mainte service		
Planned ma	monoment of	the forest to achiev	ve one or n	and a second second	I I III VUSL UI LIUU				tores and
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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	021-16390.20

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. Ps BMI 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. % BA/AC Describe Trees to be Left Describe Trees to be Cut of Quality Cut Left Stand No. Quality Species Size Species Size Designation 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. 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. Source of Condition Regeneration (ex. AD, SE) This is an old field white pine stand. The overstory is dominated by low quality, mature eastern white pine. The stand will be harvested in groups of 2.0, 2.0, 1.6, 1.5, and 0.7 acres. ST-1 SE Future This is an old field white pine stand. The overstory is dominated by low quality, mature eastern white pine. The stand will be harvested in a 4.3 acre clearcut. CC ST-2 ø Regeneration 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 This area is dominated by old field eastern white pine. The overtsory trees are low quality, susceptible to windthrow, and losing vigor. There is very little diversity in species or age classes within the stand. Some regeneration was established ST-1 & 2 through past thinnings, but it has stagnated due to lack of available sunlight. The regeneration is more diverse in terms of species composition than the overstory. Removing the overstory in groups of varying size will establish a new crop of regeneration that is more diverse, and release some of the existing regeneration. Approximately 5 square feet of basal area per acre of overstory trees will be retained within the groups. Where possible, the trees retained will be hardwood species, preferably oak. Dead standing trees and cavity trees will also be retained where possible.

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pg 5 of 5





dct COMMONWEALTH OF MASSACHUSETTS Department of Conservation and Recreation Division of State Parks and Recreation	FILE # 021-16390 - 20
FOREST CUTTING PLAN CERTIFICATE	
Post this in a conspicuous place within the area in which the harvesting operation is to take place.	
495 WARE ROAD	
This contifies that DCB DUISP BEICHERT	TONO AM MANY
(Name of Owner) (Address	in accordance with the
provision of M.G.L. Chapter 132, Section 40-46, filed in	WTON with the Dept. of Conservation
and Personation Division of State Parks and Personation a Nation of Intent to get forest and between the	
Guerra on interest products upon the	
CILGENT ND lot.	
Approval Date S2119	ISSUED BY: A .
CURIS CADONE	Junk Jegen
Director's Agent CAPONE	Priscilla E. Caigir, Diractor
DCR Phone No. (857) 406 -0175	Division of State Parks and Recreation