

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

Project Title: Oak Hill

DWSP Harvest Permit Number: 4391A
DCR Forest Cutting Plan File Number: 257-8344-17

Site Information

Watershed: Ware River Watershed	Town(s): Rutland
Acres: 14.0	Nearest Road: Oak Hill Rd
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: White Pine/Hardwood	ACEC?: No
Soils: 910 CWoodbridge-Paxton, moderately well drained, 902E Charlton-Paxton, well drained	
Wetland Resources: Wetlands present adjacent to but outside of harvest area.	
Vernal Pools present or within 200 feet of harvest : None Known	

Harvest Information

Harvest Start Date: 8/2/19	Harvest End Date: 11/18/19
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 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 # 431
Phone #: 508-882-3636 X 1603
Email: kenneth.canfield@state.ma.us

NARRATIVE

General Description/Forest Composition/History:

This area was used as pasture land until the 1930's. The 1938 aerial photos show that white pine was already established on areas with a little bit of slope, while the flat areas are completely open. The white pine started under these conditions 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 red, black, and white oak, red and sugar maple, and black and yellow birch trees, they make up a very low percentage of overstory trees. Advanced regeneration of all species is present, 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 30 + 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 14 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 six groups that range in size from 1.4 acres to 4.7 acres, with five of the six groups being 2.0 acres or less.

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. Stonewalls that are present will be crossed using existing barways established in past harvests wherever feasible.

Wildlife/Rare or Endangered Species:

No known vernal pools are present within the lot or within 200 feet of the boundary of the lot.

FIGURES

Figure 1. Final Forest Cutting Plan

Figure 2 A-F. Pre-Harvest Photographs from marked photo points 1 (A-C) and 2 (D-F) taken 9/27/16

Figure 3 A-E: Post-Harvest Photographs taken from marked photo points 1 (A-C) and 2 (D-E) taken 10/15/19

Figure 4 A-E: After 1 growing Season Photographs taken from marked photo points 1 (A-C) and 2 (D-E) taken 8/19/20

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 **AUG 29 2016**
(Effective Date: 1/1/04)

For DCR Use Only:

File Number 257-8344-17 Case No. _____
 Date Rec'd 8/29/16 Nat. Hert. No
 Earliest Start 9/13/16 Nat. Hert. Imp. N/A
 River Basin Chicopee Pub. Dr. Wat. Yes
 Gen. Obj. LT ACEC No

Location

Town Rutland
 Road Oak Hill Rd
 Acres 14 Proposed Start Date 9/16
 Vol. MBF 9.6 Vol. Cds. 184 Vol. Tons 1062

Plan Preparer

Name Kenneth W. Canfield
 Address 578 Old Turnpike Rd
 Town, State, Zip Oakham, MA 01068
 Phone (508) 882-3789 X 1603
 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 # _____
 CR CR Holder _____

Licensed Timber Harvester**

Name TIM ROBINSON
 Address _____
 Town, State, Zip BARRE, MA 01005
 Phone _____
 Mass. Lic. Harvester # 719
 **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

Notify DCR Service Forester when harvest begins

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note:
LF Mass Lic. For	CU Culvert	SE Seed	FR Frozen	LE Lodge	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.
DI Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	SE Stony	
TB Timber Buyer	FO Fod	CO Contour	OT Other	MU Mud	
LO Landowner	PO Poles	ST Stone		GR Gravel	
OT Other	OT Other	HB Hay Bales		OT Other	
		OT Other			

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

Site Information

Best Management Practices

Codes

FINAL

Page 3 of 5

Forest Cutting Plan

Narrative Page (Effective Date: 1/1/04)

Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4.

Landowner MA DCR, DWSP

Town Rutland

File Number 257-8344-17

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 a white pine/hardwood stand dominated by low quality overstory white pine. Five group selection cuts of 1.4, 1.9, 2.2, and 2 acres will be harvested, retaining 5 to 10 square feet of basal area per acre of co-dominant hardwoods, mostly white, red, and black oaks. Stand 2 is a white pine hardwood stand that is dominated by low quality overstory white pine. A clearcut of 4.7 acres will be harvested, retaining 5 to 10 square feet of basal area per acre of co-dominant hardwoods, mostly white, red, and black oaks.

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.

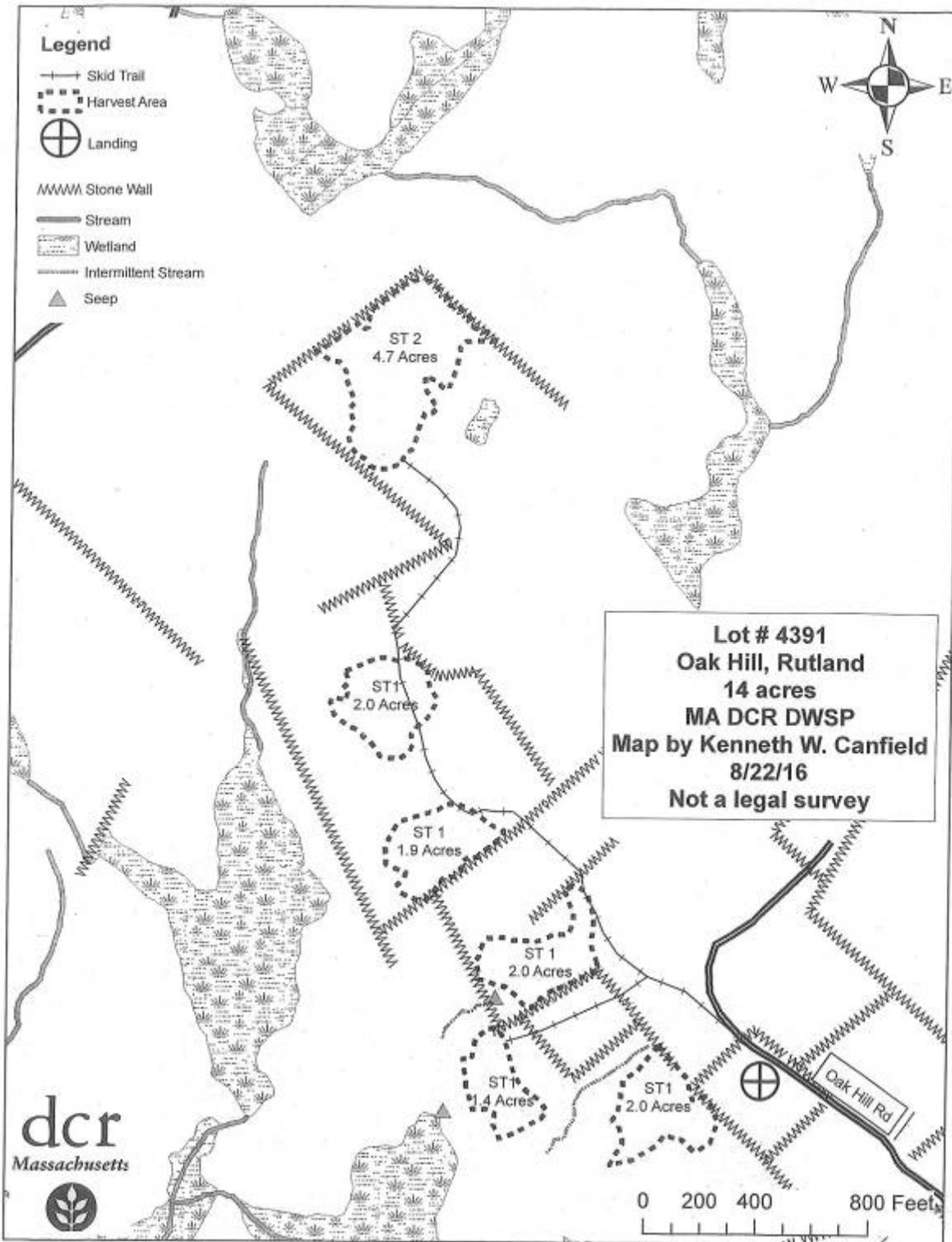
Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed

Regeneration & Future Condition

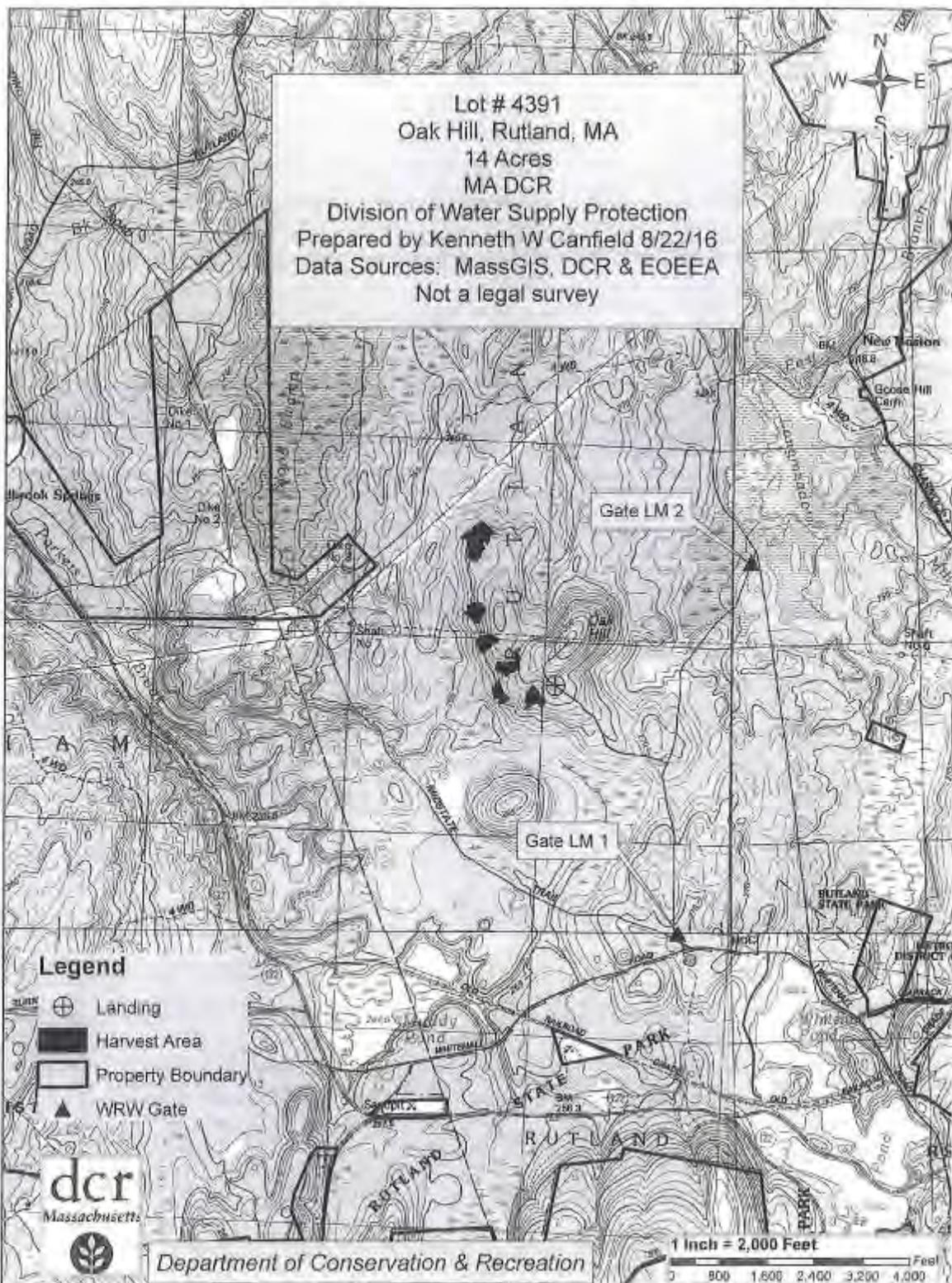
Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, DE, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

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 & understorey



Lot # 4391
Oak Hill, Rutland, MA
14 Acres
MA DCR
Division of Water Supply Protection
Prepared by Kenneth W Canfield 8/22/16
Data Sources: MassGIS, DCR & EOEEA
Not a legal survey



Legend

- Landing
- Harvest Area
- Property Boundary
- WRW Gate



Department of Conservation & Recreation

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

der



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

FILE # 257-8344-17

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 DWSP 475 Ware Rd
(Name of Owner) Belchertown, MA 01021 (Address) 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
Oak Hill lot.

Approval Date: 9/12/16
Director's Agent: Kate Marguis
OCR Phone No.: 413-992-8734

ISSUED BY:

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

Figure 2 A-F: Pre-Harvest Photographs taken from marked photo points 1 (A-C) and 2 (D-F) taken 9/27/16

A. Point 1 taken 9/27/16



B. Point 1 taken 9/27/16



C. Point 1 taken 9/27/16



D. Point 2 taken 9/27/16



E. Point 2 taken 9/27/16



F. Point taken 9/27/16



Figure 3 A-E: Post-Harvest Photographs taken from marked photo points 1 (A-C) and 2 (D-E) taken 10/15/19

A. Point 1 taken 10/15/19



B. Point 1 taken 10/15/19



C. Point 1 taken 10/15/19



D. Point 2 taken 10/15/19



E. Point 2 taken 10/15/19



Figure 4 A-E: After 1 Growing Season Photographs taken from marked photo points 1 (A-C) and 2 (D-E) taken 8/19/20

A. Point 1 taken 8/19/20



B. Point 1 taken 8/19/20



C. Point 1 taken 8/19/20



D. Point 2 taken 8/19/20



E. Point 2 taken 8/19/20

