

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

Project Title: Lot 5302

DWSP Harvest Permit Number: 5302

DWSP Proposal ID: WA-22-315

DCR Forest Cutting Plan File Number: 134-34023-23

Site Information

Watershed: Wachusett

Town(s): Holden

Acres: 40

Nearest Road: Dorothy Avenue

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Forest Types: White pine/Oak, Mixed Oak, White Pine

Area of Critical Environmental Concern (ACEC)?: No

Soils: Windsor, Hinckley and Merrimac loamy sands and Sudbury fine sandy loam

Wetland Resources: Warren Tannery Brook and its associated wetlands form the western boundary of this sale area.

Vernal Pools: None

Harvest Information

Harvest Start Date: 9/6/2022

Harvest End Date: 12/12/2024

Number of Wetland Crossings: None

Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings: There are no stream crossings.

Filter Strips: There are no filter strips.

Wetland Crossings: There are no wetland crossings.

Harvesting in Wetlands: There is no harvesting in wetlands.

DWSP Forester supervising this harvest

Name: Greg Buzzell

Forester License number: 025

Phone number: 774-261-1841

Email: greg.buzzell@mass.gov

Narrative

General Description/Forest Composition/History

The forest overstory in this area is dominated by red oak, white pine, black oak, white oak and red maple. In the southern part of the area there is some black cherry and hemlock as well. In the northern end there are paper birch mixed into the overstory. Most of this property was logged about 30 years ago prior to DCR acquisition. The result has been the establishment of an excellent understory of regeneration. This regeneration is primarily hardwoods in the southern end made up of red maple, red oak, black cherry, bigtooth aspen and some white pine. There is also quite a lot of shadbush. In the northwestern corner of the area where many of the overstory trees have fire scars from a wildfire several decades in the past, there's significantly more oak in the understory. The central and northeastern parts of this area on the hill, along with having much shorter overstory trees also have a far larger component of white pine in the understory. The shrub layer in this area is made up of mt. laurel and huckleberry. In the lower areas in the south end of this working unit there is highbush blueberry along with the ubiquitous mountain laurel while sheep laurel is present with the mountain laurel in the previously burned northwest corner.

The age structure of this area is as follows; 0%, 0-20 years old; 0%, 21-40 years; 0%, 41-60 years; 13%, 61-80 years; 41%, 81-100 years and 46%, >100 years old. The oldest stands date to about 1900 making them just over 120 years old.

Site Selection

The ideal watershed protection forest is one which best serves the function of the land as a producer of high quality drinking water in both short- and long-term. This forest must be vigorous and diverse in tree species and ages, be actively accumulating biomass and actively regenerating. Such a forest will be ideally suited to be resilient to and quickly recover from small- and large-scale disturbances such as diseases, insect infestations, ice storms and hurricanes.

Silvicultural Objectives

With good advance regeneration present comprised of a diversity of species well suited to this site, the goal is to make openings in the overstory, giving the young trees the space and light they need to continue to thrive. To that end, 10 openings are being made totaling 9.3 acres. These range in size from 0.4 to 1.77 acres. These openings are well distributed throughout the area taking advantage of where the advance regeneration is best. Large trees are being retained in most of these openings that are larger than ½ acre both singly and in small clusters. These trees provide valuable structural diversity to these openings and it is expected that most of these retained trees will be allowed to grow indefinitely into the future.

Cultural Resources

This lot was reviewed by the DCR archaeologist and all recommendations will be followed. There is no known cultural significance to this area, either historically or pre-European contact.

Rare or Endangered Species

Stick nests were noted and although they appeared to be inactive, care will be taken to protect any that are found prior to or during the harvest operation.

Figures

- Figure 1. Forest Cutting Plan
- Figure 2. Maps of harvest area showing approximate boundary, proposed openings and other features
- Figure 3. General locus map showing the location of the proposed timber harvest
- Figure 4. Pre-Harvest Photographs, A-C
- Figure 5. Post-Harvest Photographs, A-C

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 (Effective Date: 1/1/04)

For DCR Use Only:

File Number 34-2403-03 Case No. _____
 Date Rec'd 8-25-02 Net. Her. _____
 Earliest Start 9-9-02 Net. Her. Imp. _____
 River Basin NASHUA Pub. Dr. Wat. MASSACHUSETTS
 Gen. Obj. LT ACBC _____

Site Information

Location

Town: Holland Lot 5302
 Road: Dunstable Ave
 Acres: 40 Proposed Start Date: 10-22
 Vol. MBF: 49.8 Vol. Cds: 138 Vol. Tons: 40

Plan Preparer

Name: Gregory S. Buzzell
 Address: 180 Beaman Rd.
 Town, State, Zip: West Boylston, MA, 01583
 Phone: 771-261-1811
 Type of Preparer: Mass. Licensed Forester
 *Mass. Forester License # 25
 *Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name: DCR/DWSP/OWM West/East/Studbury
 Mailing Address: 180 Beaman St.
 Town, State, Zip: West Boylston, MA 01583
 Phone: 608-792-7806
 Ch61 Ch61A Stew *Case # _____
 Est. Stumpage Value: _____

Licensed Timber Harvester**

Name: To be supplied when known.
 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 YA)				

Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)				
Acres to be Harvested				
Local, Basal Area (>50%)				

Service Forester Comments

* PLEASE NOTIFY DCR SERVICE FORESTER AT START OF HARVEST OPERATION.

Codes

Code	Category	Description	Code	Category	Description	Code	Category	Description	
LF	Mass. Lic. For.	CU	Culvert	SP	Seed	PR	Prezer	LD	Log
TH	Lic. Tim. Har	BR	Bridge	MJ	Mulch	DR	Dry	ST	Stump
TD	Timber Dept	FO	Fuel	CO	Conifer	OT	Other	MJ	Mud
LO	Landowner	PI	Pile	SI	Stone	GS	Gravel	OT	Other
OL	Other	OT	Other	DI	Dry Ditch	OT	Other	OT	Other

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

Forest Cutting Plan

Narrative Page

Use only if further explanation is required of information on pages one or two or if "other" was used in any category.

Landowner: DCR/DWSP

Town: Holden

File Number: 134-34223 AS

BMPs	<p><u>There are no stream crossings or wetland crossings planned.</u></p>
Silviculture	<p><u>In order to release advance regeneration, 10 openings in the overstory are being created, covering 9.3 acres. These openings range from 0.38 acre to 1.77 acres in size with an average of 0.93 acres. They are well distributed throughout the area taking advantage of the advance regeneration comprised of white pine, oaks, and other hardwoods.</u> <u>No cutting will occur between any of these patches.</u></p>
Object	<p><u>The objective of this operation is to diversify the age structure of the forest by removing the overstory in patches thereby releasing the advance regeneration. The current age structure is limited with an insufficient component of young forest.</u></p>
Other	<p><u>All haul roads as shown on the map have been flagged.</u></p>



dcr

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

FILE # **134.34023.23**

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** **WEST BOLLSTON, MA** in accordance with the
(Name of Owner) (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

DOROTHY AVE lot **5302**

Approval Date **9/12/22**

Director's Agent **CHRIS CARONE**
DCR Phone No. **(857) 406-0775**

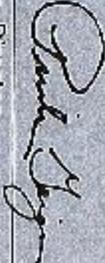
ISSUED BY: 
Priscilla E. Geigis, Director
Division of State Parks and Recreation

Figure 2. Maps of harvest area showing approximate boundary, proposed openings and other features

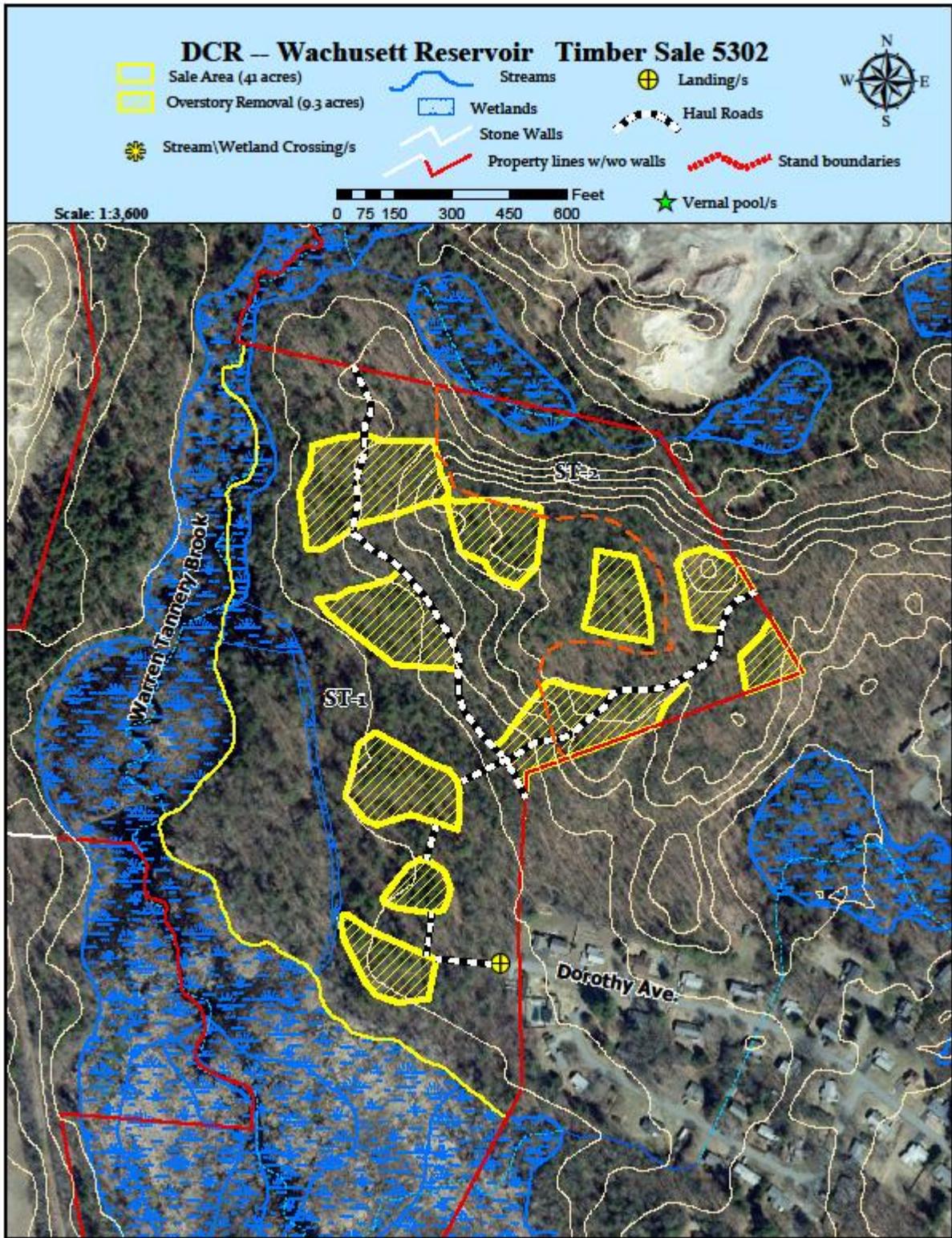


Figure 3. General locus map showing the location of the proposed timber harvest

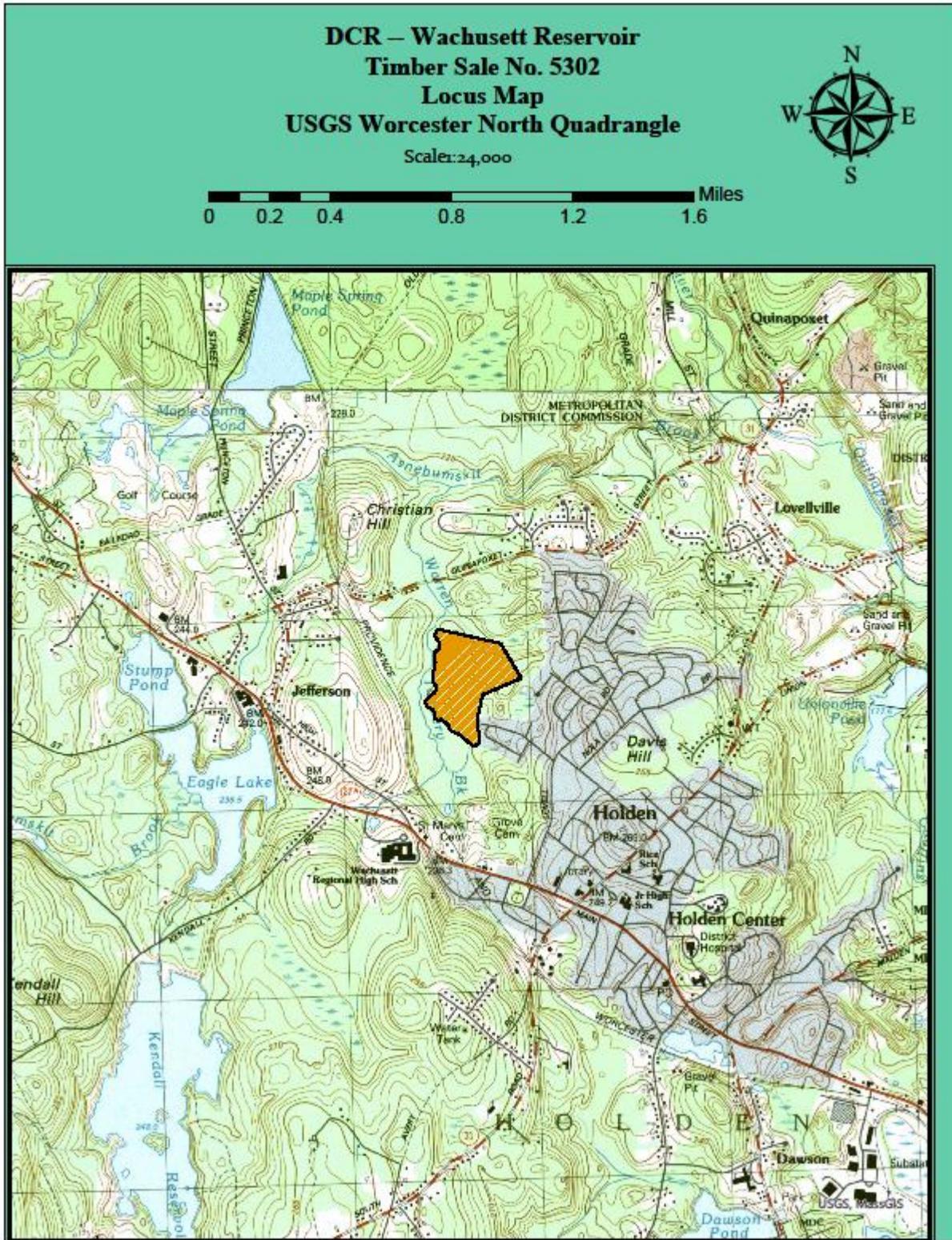


Figure 4. Pre-Harvest Photographs, A-B



A. Looking easterly into a 1.5-acre opening. There is good hardwood and pine regeneration present. Note the white pine in the right foreground which is being retained to provide valuable structural complexity.



B. Looking southwesterly from within a 1.2 acre opening along the west side of a well used walking path.



C. Looking northeasterly from within the 1.77 acre opening in the far north end of the sale area. This is the area where a fire decades ago left many of the overstory trees with fire scars but there is also more oak in the understory.

Figure 5. Post-Harvest Photographs, A-C



A. The landing immediately after the last off the piled wood was removed.



B. The 1.77-acre opening were the fire occurred decades ago. There is good white pine and hardwood regeneration that is now free to grow. There is a white pine and several white oaks that are retained.



C. A good amount of the larger white pine and hardwood saplings were undamaged during the operation. The large white pine in the left of the picture was retained and will provide a long-term source of seed as well as structural diversity of decades to come.