

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

Project Title: 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 Ave.

Natural Heritage Atlas overlap?: None

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

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 34-24033-03 Case No. _____
Date Rec'd 8-25-02 Nat. Hort. _____
Earliest Start 9-9-02 Nat. Hort. Imp. _____
River Basin NASHUA Pub. Dr. Wat. MASSACHUSETTS
Gen. Obj. LT ACBC _____

Site Information

Location

Town: Holden 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. Buzzoli
Address: 180 Beaman Rd.
Town, State, Zip: West Boylston, MA, 01583
Phone: 774-261-1841
Type of Preparer: Mass. Licensed Forester
*Mass. Forester License # 25
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name: DCR/DWSP/OWM Westuse/Sudbury
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 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				
Radius, Basal Area (>50%?)				

Service Forester Comments

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

Codes

Type of Crossing	Type of Crossing	Soil Code	Mitigation	Type of Bottom	Note
LF Mass. Lic. For.	CU Culvert	SP Sand	PR Presen.	LD Ledge	Applicant must provide DCR with all relevant information.
TH Lic. Tim. Har.	BR Bridge	MU Muck	DR Dry	ST Slony	Before plan may be approved and cutting may begin.
TD Timber Duct	FO Ford	CO Cobble	OT Other	MJ Mud	Some forestry activities, such as prescribed burning and
LO Landowner	PI Pile	SI Stone		GS Gravel	pesticide or herbicide application may require additional permits.
OL Other	OT Other	DD Dry Ditch		OT Other	Consult with Forestry & DP Manual for further information.

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	27.3	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	10.5
Hemlock		Black Oak	1.4
Spruce		White Oak	1.8
Other Spruce		Other Hardw.	
White Ash		Total Mbf	49.8
Beech		Cardwood (Cds)	138
White Birch		SW Pulp (Tons)	49
B & F Birch		NW Pulp (Tons)	
Black Cherry		Chips (Tons)	

*Notes: Volumes and values indicated in the Plan are as reported by the plan preparator and have not been independently verified by the service forester upon approval. Mbf = thousand board foot.

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WO	OM		
Acres	32.6	8.4		
Landowner Objective	LI	LT		
Designation of Trees	CT	CT		
Type of Cut	SA	SE		
Source of Regeneration	AD	AD		

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 number of record within two hundred feet of the area to be harvested.

I (we) understand that the volumes and values (Cds) entry in this plan have not been independently verified by the service forester upon approval and will report that volume and values to the Director or his/her agent if the final figures differ from those reported.

Kelly M. Fieda

Signature of Landowner(s)

Date

8/9/2022

Determination and Status

Approved	Disapproved	Expires
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>8/25/24</i>
<p><i>Chet Lynn</i></p> <p>Signature of Service Forester/Director's Agent</p>		<p><i>9/12/22</i></p> <p>Date</p>
Extension	<input type="checkbox"/>	Expires
App 1	<input type="checkbox"/>	App 2
Dis 1	<input type="checkbox"/>	Dis 2

Final Report and Comments

I hereby certify that the above described Forest Cutting Plan and all relevant statutes have been substantially complied with.

Signature of Service Forester/Director's Agent

Date

Tree Species	HA	Hardw.	OM	Misc. Tree	Type of Cut	Type of Cut	Source of Regeneration
W.P. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.G. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.H. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.O. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.B. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.S. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.P. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.G. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.H. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.O. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.B. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD
W.S. White Pine	27.3	Hardw.	OM	Misc. Tree	CT	Clear Cut	AD

*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

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: 134-34223-25

BMPs	<u>There are no stream crossings or wetland crossings planned.</u>
Silviculture	<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>
Object	<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>
Other	<u>All haul roads as shown on the map have been flagged.</u>



dcf

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 BOSTON, 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

Doan's Ave lot 5302

Approval Date **9/12/22**

Director's Agent **CHRIS CARONE**

DCR Phone No. **(857) 406-0775**

ISSUED BY:

Priscilla E. Geary's, Director
Division of State Parks and Recreation

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

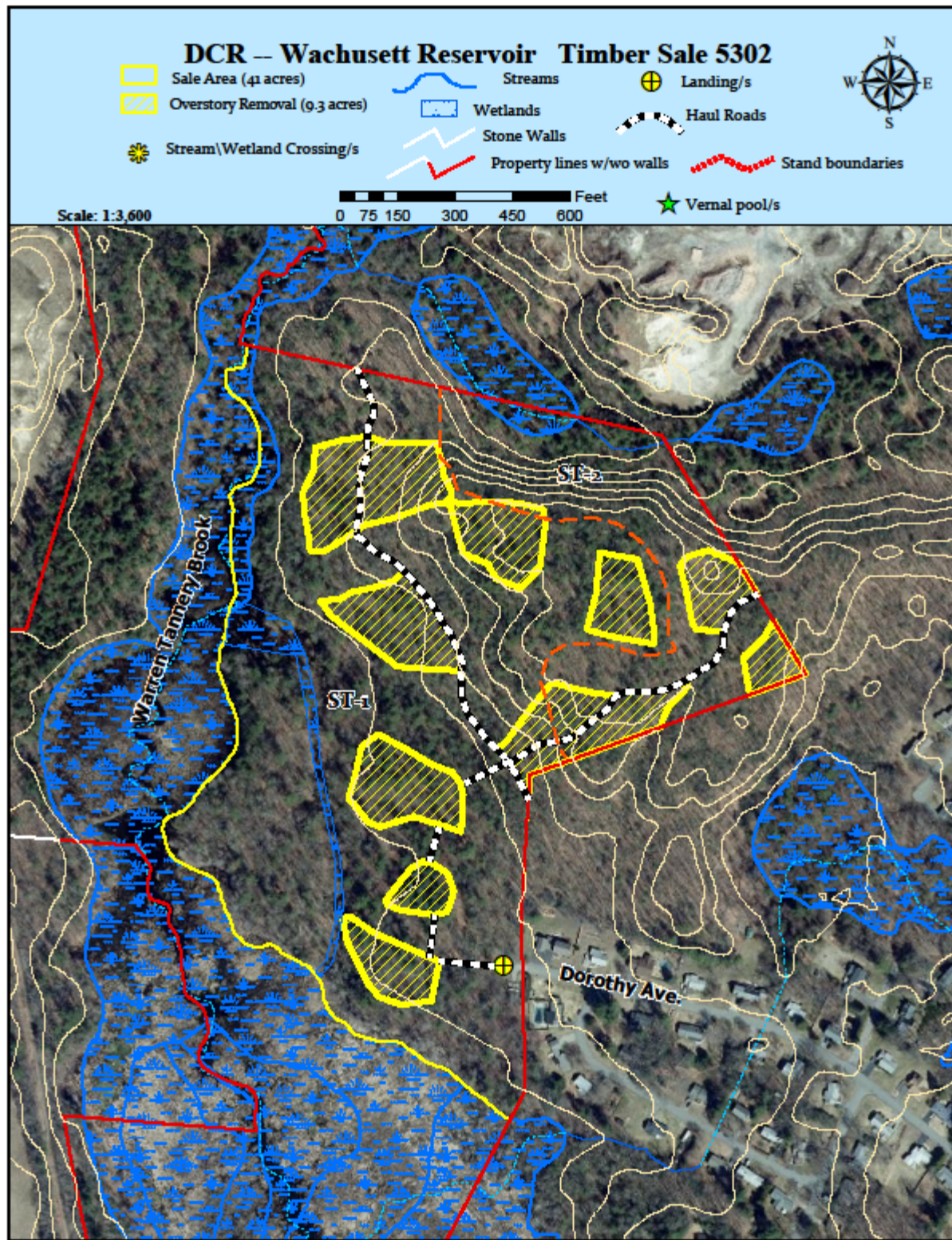


Figure 3. General locus map showing the location of the proposed timber harvest

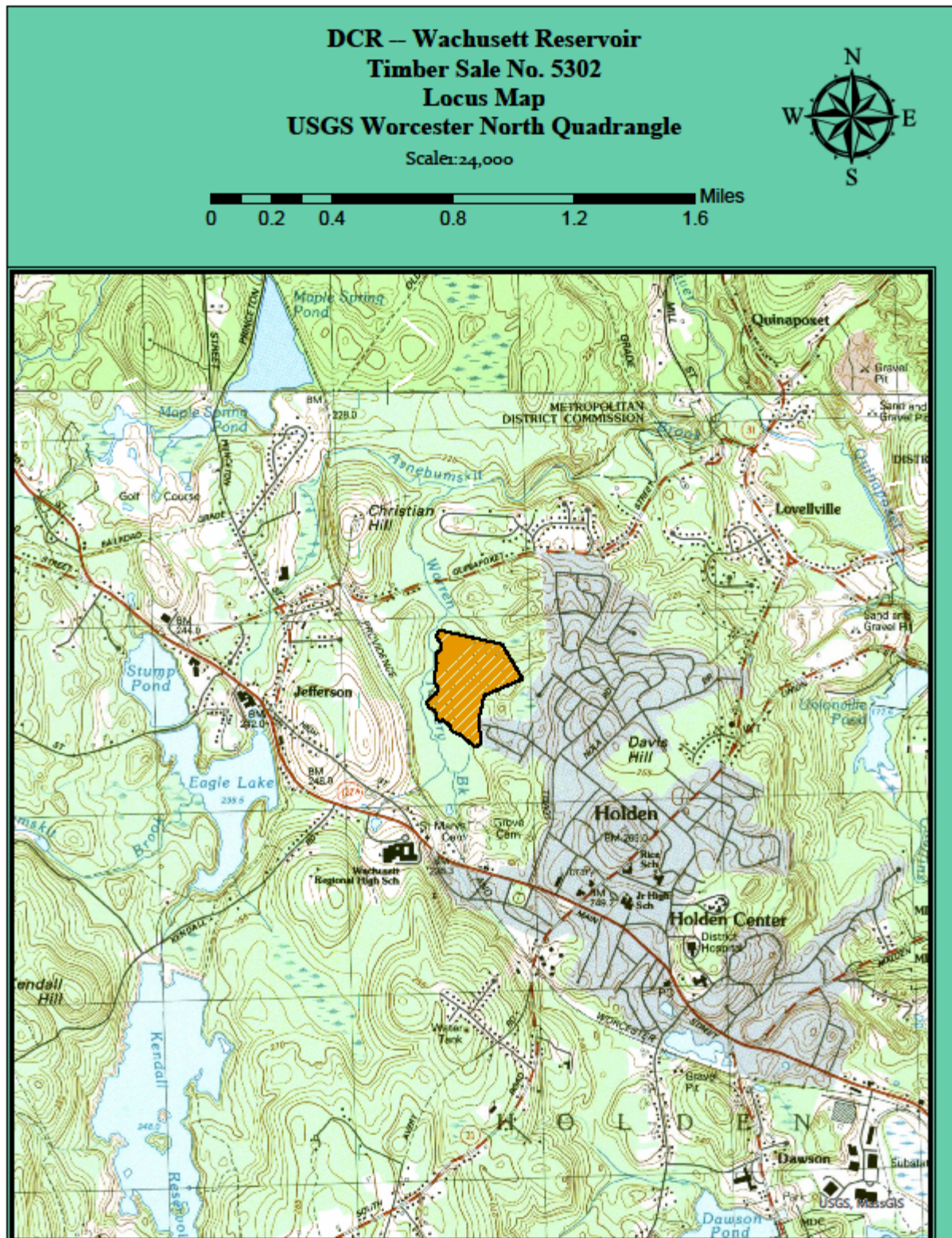


Figure 4. Pre-Harvest Photographs, A-C



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.