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

Forest Management Project Summary

Project Title:
DWSP Harvest Permit Number: 5310
DWSP Proposal ID: WA-24-51
DCR Forest Cutting Plan File Number: 134-46163-25

Site Information
Watershed: Wachusett
Town(s): Holden
Acres: 29.6
Nearest Road: Manning Street
Natural Heritage Atlas overlap?: Yes
Public Drinking Water Supply Watershed?: Yes
Forest Types: White Pine/Oak, Mixed Oak, White Pine
Area of Critical Environmental Concern (ACEC)?: No
Soils: Hinckley sand loam, Winooski very fine sandy loam, Paxton fine sandy loam
Wetland Resources: None
Vernal Pools: None

Harvest Information
Harvest Start Date: 3/26/2025
Harvest End Date: 6/28/2027
Number of Wetland Crossings: None
Number of Stream Crossings: None

Best Management Practices Applied
Stream Crossings: There are no stream crossings.
Filter Strips: No trees will be cut in the filter strip.
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 primary species in the forest overstory in this area is white pine along with red oak, hemlock (which looks pretty good though not devoid of hemlock wooly adelgid) is found in the gullies, white oak, black cherry, gray birch, red maple and black birch. The understory is comprised of excellent advance regeneration in almost all areas with some small pockets of witch-hazel, mountain laurel or no regeneration. The youngest stand dates to the 1970's and is along the Quinapoxet River. There are a couple of small groups of white oak now dead from spongy moth infestation, but otherwise the oaks and white pines look good. The land in the area where Trout Brook joins the Quinapoxet River has been altered several times over the years...probably from high water flows, ice flows in bad winters and the resident beaver. A forest management operation took place in about 5.5 acres of the white pine stands adjacent to Manning St. This took place in 1984 with the intent of encouraging the establishment of regeneration beneath this white pine stand that had been planted in 1938.

Site Selection

This working unit was selected due both to the lack of age diversity in the forests of this subwatershed and in this working unit itself. Most of this area is within subwatershed #15 (Trout Brook). Only 12% of the forest stands within this subwatershed are 20 years old or less. 74% of the stands are more than 80 years old. Within the 28 manageable acres of this working unit, there are no stands that are 20 years old or less. The full age structure is as follows: 0%, 0-20 years old; 0% 21-40 years; 11%, 41-60 years; 2%, 61-80 years; 42%, 81-100 years and 45% > 100 years old. Given the lack of young stands in this area and given the presence of good advance regeneration comprised of species well suited to this site, the primary goal will be to increase the proportion of young forest stands in this area.

Silvicultural Objectives

With adequate regeneration found throughout the working unit, openings will be made on 7.5 acres thereby obtaining the goal of creating a new age class on not more than 1/3rd of the unit. This will be accomplished by removal of the overstory in eight (8) patches. These patches average 0.9 acres in size and range from 0.5 to 1.6 acres in size. These have been placed according to where the regeneration is best and the lay of the land has helped shape each individual opening

Cultural Resources

There is a cellar hole about 550’ inside the gate just off the woods road. It seems this is likely related to the old sawmill that once stood on Trout Brook. There is a series of cellar holes and other artifacts related to the J. Heppler shoddy mill on the Quinapoxet River just downstream from the confluence with Trout Brook. All of these structures will be flagged and protected from disturbance as needed.

Rare or Endangered Species

NHESP has determined that certain state-listed sensitive species or habitats may exist within the lot proposal area. To protect them from unnecessary disturbance, detailed information regarding affected species and their locations is not included in this report. DWSP will coordinate with NHESP and follow recommendations to protect these species during the proposed activity.

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-B
- Figure 5. Post-Harvest Photographs, A-B

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)

JAN 23 2025

For DCR Use Only:

File Number	134.43163.25	Case No.	—
Date Rec'd	01-23-25	Nat. Hert.	/ Y
Earliest Start	02-07-25	Nat. Hert. Imp.	N
River Basin	NASHUA	Pub. Dr. Wat.	WACHUSETT
Gen. Obj.	LT	ACEC	N

Site Information

Location

Town Holden Lot 5310
Road Manning Street
Acres 26.2 Proposed Start Date 3/25
Vol. MBF 78.2 Vol. Cds. 59 Vol. Tons 121

Plan Preparer

Name Gregory S. Buzzell
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 Wachusett/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)	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 AT START OF HARVEST OPERATION

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 Mulch	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

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	68.9	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	8.0
Hemlock		Black Oak	
Spruce		White Oak	1.3
Other Sftwd.		Other Hdwd.	
White Ash		**Total Mbf**	78.2
Beech		**Cordwood (Cds)**	59
White Birch		**SW Pulp (Tons)**	121
B & Y Birch		**HW Pulp (Tons)**	
Black Cherry		**Chips (Tons)**	

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

Stand Treatment

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	OM	WP	WO	
Acres	11.6	7.7	6.9	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	CT	
Type of Cut	SH	SH	SH	
Source of Regeneration	AD	AD	AD	

Landowner

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 abutters of record within two hundred feet of the area to be harvested.
I (we) understand that the volumes and values (Ch61 only) in this plan have not been independently verified by the service forester upon approval and will report final values and volumes to the Director or his/her agent if the final figures differ from those reported.

Kelley Frida — Signature of landowner(s)

1/22/2025 — Date

Service Forester

Determination and Status 13443163.25

	Approved	Disapproved	Expires
Cutting Plan	☒	☐	01-23-27

Signature of Service Forester/Director's Agent — Date 2/14/25

Extension	1☐	2☐	Expires /	Ser. For. Ints. /

Amendment	App 1	Dis 1	App 2	Dis 2	/
	☐	☐	☐	☐	

Final Report and Comments

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

Signature of Service Forester/Director's Agent — Date

Codes

Forest Types
WP White Pine
WK WP/Hem
WH WP/Hdwd
WO WP/Oak
RP Red Pine
SR Red Spruce
HK Hemlock
HH Hem/Hdwd
BC Blck Cherry
BB Bee/Bir/Map
OH Oak/Hdwd
OR N Red Oak
OM Mixed Oak
RM Red Maple
BE Beech
SF Spruce/Fir
SM Sugar Maple
PP Pitch Pine

Designation of Trees
CT Cut Tree
LT Leave Tree
SB Stand Boundary
OT Other

Landowner Objective
LT Long-term Mgt.
ST Short-term Har.

Type of Cut
SH Shelterwood
ST Seed Tree
CC Clear Cut
SE Selection
SA Salvage
SN Sanitation

Intermediate Harvests:
CT Commercial Thin
NT Non Com Thin

Non-Standard Systems:*
HG Highgrade*
DL Diameter Limit*
OT Other*

Source of Regeneration
AD Advanced
SE Natural Seed
PL Plant
CO Coppice
DS Direct Seed
OT Other

***If Other (OT) or a non-standard system is used an explanation must be given on 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/DWM Wachusett/Sudbury

Town: Holden

File Number: 134.43163.25

BMPs

No trees are marked in the filter strips or roadside buffer strip which is not shown on the map.

Silviculture

In order to release advance regeneration, 8 openings in the overstory are being created, covering 7.5 acres. These openings range from 0.5 acre to 1.6 acres in size with an average of 0.9 acres. They are well distributed throughout the area taking advantage of the advance regeneration comprised of white pine, oaks, hemlock and other hardwoods.

Trees are only being cut within these 8 openings.

Object

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.

Other

Haul roads have been flagged.

Trees are only being cut within the 8 overstory removal patches and, of course, as needed at the landing and along haul roads.

Portions of the sale area are within NHESP Priority Habitats of Rare Species polygon PH 1337.

dcr

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

FILE # 134.43163.25

FOREST CUTTING PLAN CERTIFICATE

W

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that DCR/DWSP/OWM Wachusett/Sudbury (Name of Owner) 180 Beaman St. W. Boylston (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 Manning St. lot.

Approval Date 2/14/25

Director's Agent Chris Capone

DCR Phone No. 857-406-0175

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

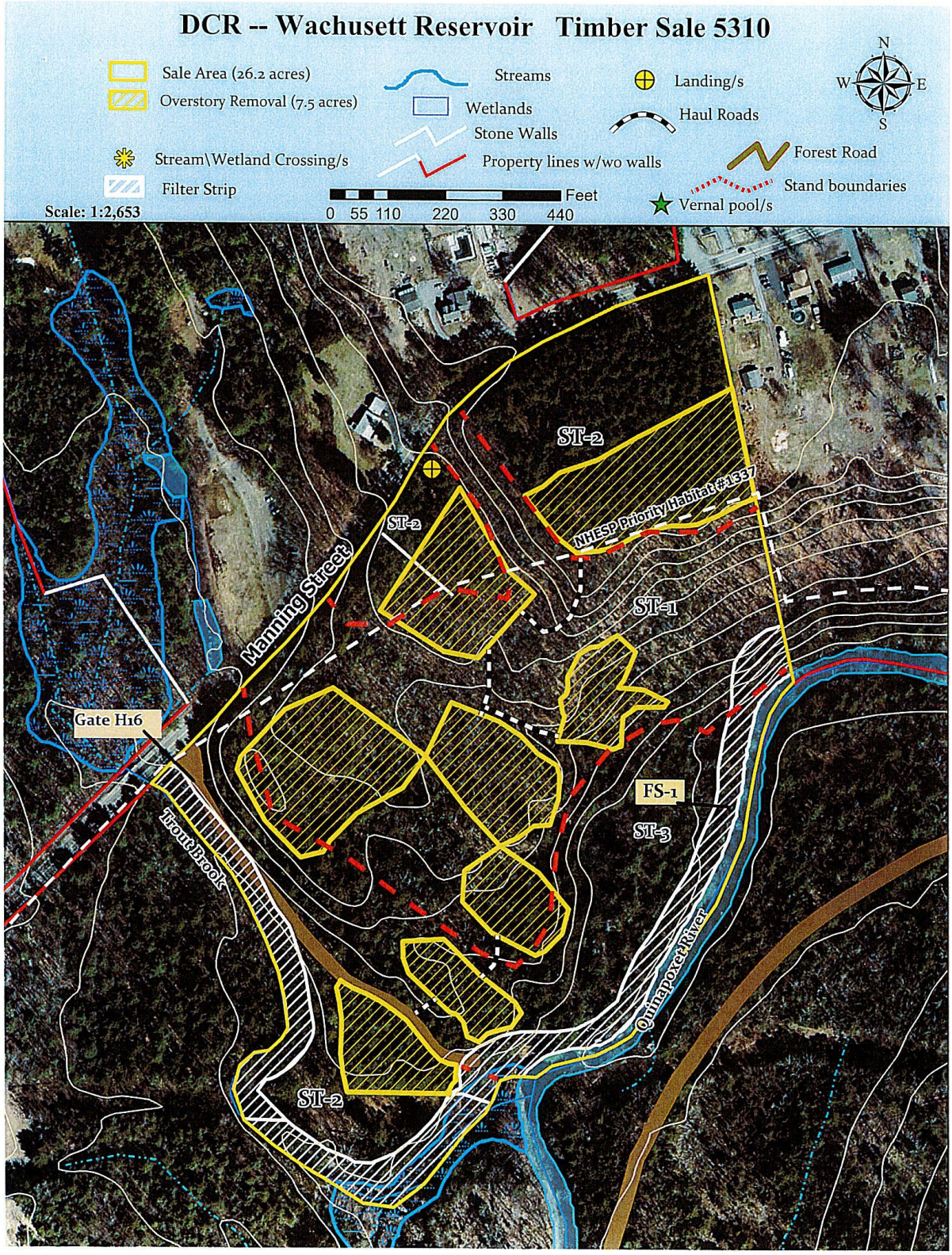

Figure 3. General locus map showing the location of the proposed timber harvest

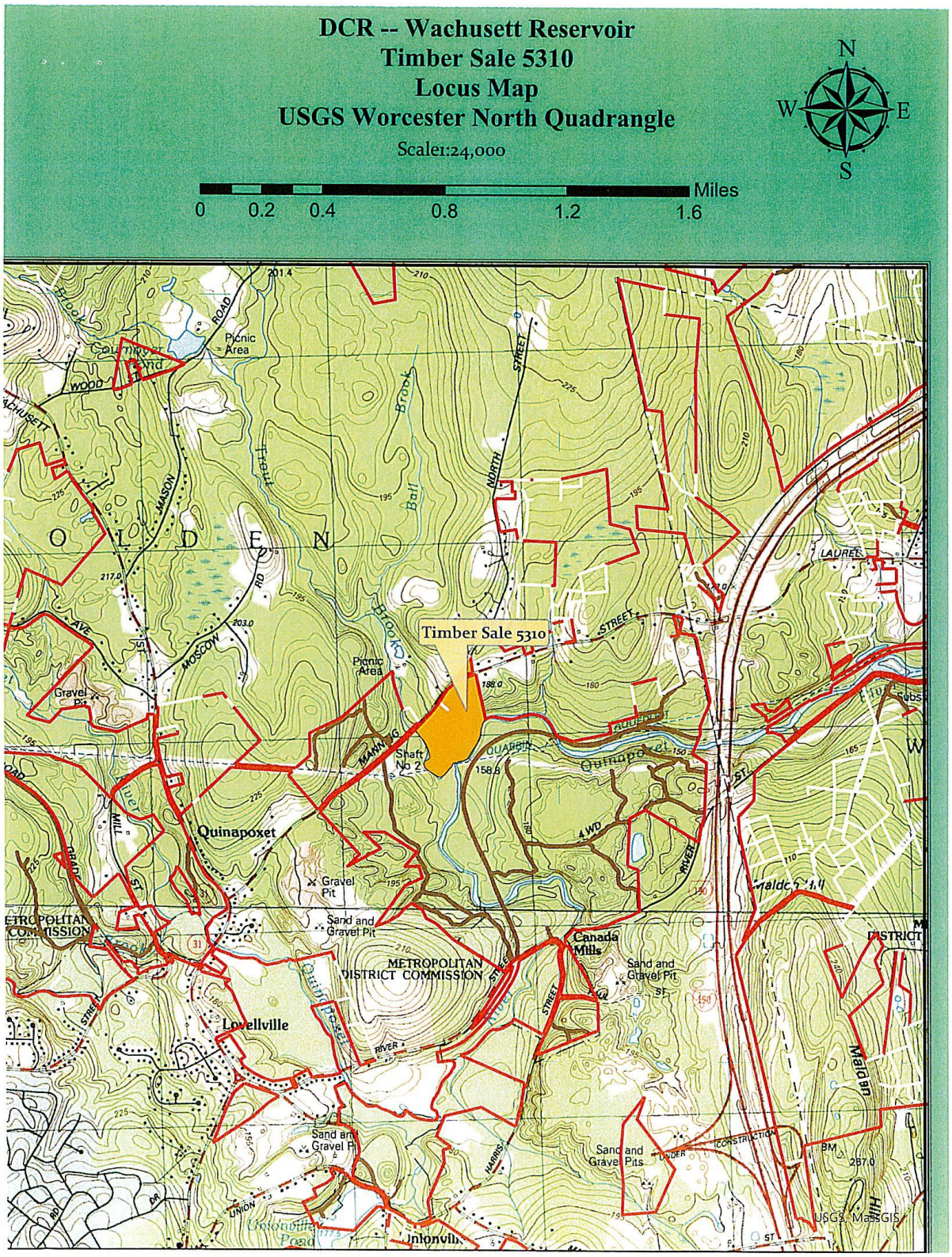

Figure 4. Pre-Harvest Photographs, A-B

A. The excellent understory of white pine and hardwood regeneration is being released by the removal of the overstory. The large pine in the left-foreground is being retained to provide valuable structural diversity and wildlife habitat.

B. Another area of overstory removal where there is an excellent understory. The large white oak in the foreground with a hollow stem and cavity is an excellent example of retention for wildlife habitat.

Figure 5. Post-Harvest Photographs, A-B

A. An area with a good understory where the overstory has been removed.

B. Several white pines in the overstory were retained in this opening.