

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

Project Title: 32A Red Pine West

DWSP Harvest Permit Number: 1059

DWSP Proposal ID: HA-18-13

DCR Forest Cutting Plan File Number: 234-32415-21

Site Information

Watershed: Quabbin

Town(s): Petersham

Acres: 49

Nearest Road: Carter Road

Natural Heritage Atlas overlap: No

Public Drinking Water Supply Watershed: Yes

Forest Types: Red Pine, White Pine-hardwoods, Oak-hardwoods

Area of Critical Environmental Concern (ACEC): No

Soil(s): Excessively well drained fine sandy loam to well drained sandy loam

Wetland Resources: Two streams within the harvest area

Vernal Pools: None

Harvest Information

Harvest Start Date: 12/6/2021

Harvest End Date: 3/15/2022

Number of Wetland Crossings: Zero

Number of Stream Crossings: Two

Best Management Practices Applied

Stream Crossings: Portable bridges utilized for bank and soil stabilization

Filter Strips: One of variable width

Wetland Crossings: N/A

Harvesting in Wetlands: N/A

DWSP Forester supervising this harvest

Name: Steven J. Wood

Forester License number: 257

Phone number: (413) 323-6921

Email: steven.wood@state.ma.gov

Narrative

General Description/Forest Composition/History

The focus of the harvest is the removal of the red pine plantations in decline. The cutting of over stocked and/or poorly formed white pine and white pine/hardwood stands, along with areas with hemlock, will also be prioritized.

All the red pine plantations have some mortality from red pine scale or root rot and will continue to deteriorate. The plantations on the west side of Route 32A were last harvested in 1999 and 2000. These areas now have an understory comprised mainly of sapling and pole sized black birch or a diverse mix of most native hardwoods with white pine and hemlock. In contrast to the east side of Rte. 32, the west side has a higher deer density, which may partially explain the decreased understory species diversity. The overstory is mostly white pine with scattered red and sugar maple, mainly red but also white and black oak, ash, white and black birch, and occasional black cherry. In the richer, wetter soils, the volume of hardwood species tends to increase, and their form and vigor is generally average to good.

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 site was chosen because of the amount of declining red pine and a general lack of diversity in the age, structure and health of the overstory tree species.

Silvicultural Objectives

The goals of this harvest are to establish new tree seedlings and provide space for existing regeneration to expand and grow. The diversity of native species present is being maintained. This combination of structural and species diversity builds resistance and resilience into the forest.

To establish a new age class, some of the overstory will be harvested in small groups to foster regeneration. Groups were placed in clusters of dead or declining trees, or trees with weak stem form, often due to insects, diseases, or storm damage. Where there were groups of regeneration created from previous harvests, these were expanded upon by cutting a new abutting group. Red and white oak, black cherry, hickory, sugar maple and white birch were favored for retention in hopes that they will seed in and be more common in the future stand.

Wherever possible wildlife habitat features were maintained and protected, such as snags (dead trees) and trees with cavities or nests. Exceptional individuals of all species present were retained in the stand for seed and to enhance diversity.

Cultural Resources

There are numerous cellar holes, foundations and stone walls.

Rare or Endangered Species

No rare or endangered species. Coyote, bear, deer, raccoon, turkey and moose are some of the species known to inhabit this area.

Figures

Figure 1. Final Forest Cutting Plan

06-18-01P01:17 RCVD

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)

Final (4/22)

For DCR Use Only:

File Number 234-224/15-21 Case No. N/A
 Date Rec'd 6-16-21 Nat. Hert. Gen/col
 Earliest Start 7-1-21 Nat. Hert. Imp. N/A
 River Basin Chicago Pub. Dr. Wat. Yes
 Gen. Obj. LT ACEC No

Site Information

Location

Town Petersham DWSP lot 1059
 Road Carter Road inside gate 43
 Acres 49 Proposed Start Date TBD
 Vol. MBF 254.6 Vol. Cds. 307 Vol. Tons 557

Plan Preparer

Name Steven J. Wood
 Address DCR, Division of Water Supply Protection
485 Ware Rd.
 Town, State, Zip Belchertown, MA 01007
 Phone (413) 213-7944
 Type of Preparer Mass. Licensed Forester
 *Mass. Forester License # 257
 *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 Ch61A Stew *Case # _____
 Est. Stumpage Value \$23,000

Licensed Timber Harvester**

Name _____
 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	BR	BR		
Existing Structure	N	N		
Type of Bottom	ST	ST		
Bank Height (ft)	0.3	0.3		
Stabilization	CO	CO		

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

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note:
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge	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.
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 Piled	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

Forest Products

Products to be Harvested*

Table with 4 columns: Species, Mbff/Cds, Mbff/Cds, Mbff/Cds. Rows include White Pine, Red Pine, Pitch Pine, Hemlock, Spruce, Other Sftwd., White Ash, Beech, White Birch, B & Y Birch, Black Cherry.

*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. Mbff = thousand board feet.

Cutting Standards

Table with 5 columns: Indicate location on map, ST-1, ST-2, ST-3, ST-4. Rows include Forest Type, Acres, Landowner Objective, Designation of Trees, Type of Cut, Source of Regeneration.

Stand Treatment

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.

[X] 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.

[Handwritten Signature]

6-15-2021

Signature of landowner(s)

Date

Service Forester

Determination and Status

Form with checkboxes for Approved, Disapproved, Expires, Extension, Amendment. Includes handwritten date 6/16/23 and signature.

Final Report and Comments

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

[Handwritten Signature] 4-7-21

Signature of Service Forester/Director's Agent

Date

Codes

Table with 4 columns: Forest Types, Designation of Trees, Type of Cut, Source of Regeneration. Lists various codes and their corresponding tree types and regeneration methods.

*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 (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 DCR, DWSP

Town Petersham

File Number _____

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.

Cut trees are marked with blue paint, some save trees are marked with orange, opening edges marked with orange slash and dot, sale boundary is double orange stripe. Streams on lot are all intermittent and were dry throughout April and May 2021 but portable bridges will be required at crossings.

Cut in red pine is overstory removal of most of the remaining overstory, rest of area is group selection creating small openings of 1/10-2.7 acres with openings over 0.5 acres having 5-10 square feet of basal area retained. Openings over .25 acre are mapped and identified on ground with orange perimeter. Most of area is thinned between openings. Good white pine, b. birch, sugar maple, mixed hardwood and oak regeneration present throughout

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, DL, 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 & understory

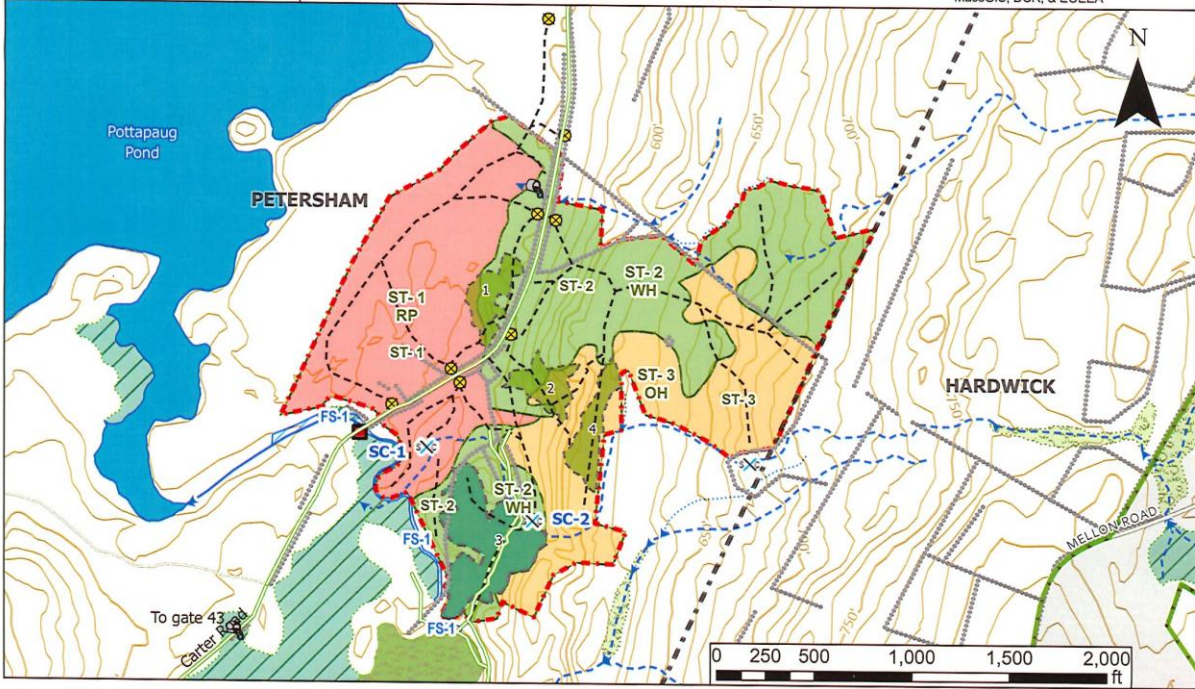
Stand Map
Quabbin Lot 1059
 Carter Rd.
 Petersham, MA
 Prepared by:
Steven J. Wood
 MA DCR DWSP
 Quabbin & Ware River Forestry

- | | | | |
|-------------------------------|----------------------------|--------------------------|----------------------------|
| Town Boundary | Skid Trails | Stream/River: Ephemeral | Oak/Hdwtd |
| Minor Street | Stream Crossing | Swamp/Marsh | Red Pine |
| Quabbin Reservoir Reservation | Filter Strips | Swamp/Marsh: Shrub Swamp | WP/Hardwood |
| Forest Road/Trail | Bridge | Swamp/Marsh: Wooded | Harvest boundary |
| Other DCR Road | Culvert | Reservoir: 43600 | Group with green retention |
| Landings | Stream/River: Perennial | Stand Outline | Clear cut with retention |
| | Stream/River: Intermittent | | Stone Walls |

Created: 6/16/2021

Scale: 1:7,000

Data sources:
 MassGIS, DCR, & EOEEA



Locus Map

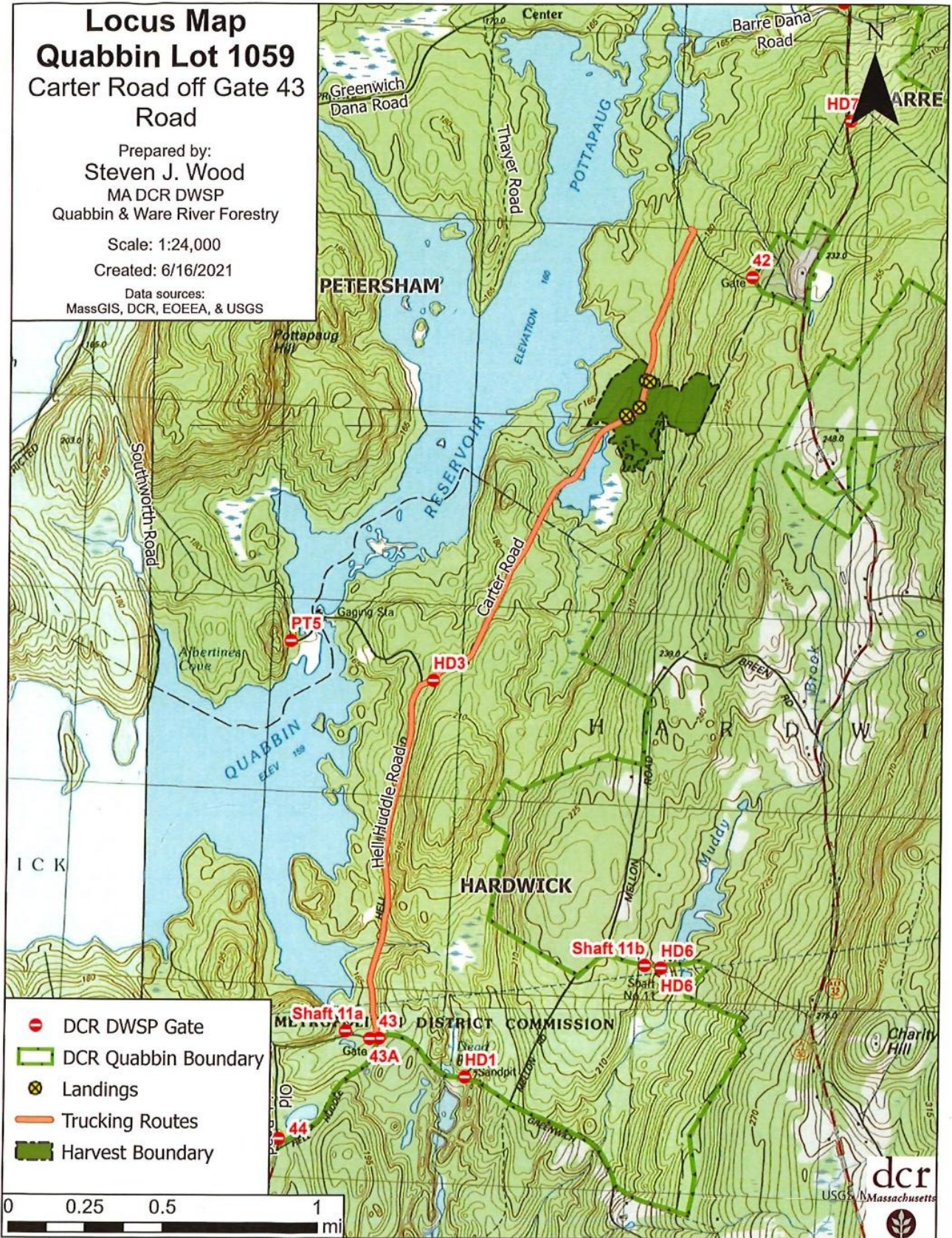
Quabbin Lot 1059

Carter Road off Gate 43 Road

Prepared by:
Steven J. Wood
 MA DCR DWSP
 Quabbin & Ware River Forestry

Scale: 1:24,000
 Created: 6/16/2021

Data sources:
 MassGIS, DCR, EOEEA, & USGS





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

FILE # 234.32415.21



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 485 Ware Rd Belchestown, MA in accordance with the
(Name of Owner) (Address) 01007

provision of M.G.L. Chapter 132, Section 40-46, filed in Amherst F.O. with the Dept. of Conservation
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the
"1059" lot, Carter Rd, Petersham

Approval Date 6/30/21
Director's Agent Andrew Rowcliffe
DCR Phone No. 617.549.1677

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