

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

Project Title: Tamplin Road Oak South

DWSP Harvest Permit Number: S12SQ

DWSP Proposal ID: PT-19-04 & 05-S

DCR Forest Cutting Plan File Number: 234-19455-20

Site Information

Watershed: Quabbin

Town(s): Petersham

Acres: 39

Nearest Road: Tamplin Road

Natural Heritage Atlas overlap: None

Public Drinking Water Supply Watershed: Quabbin

Forest Types: Oak hardwood & white pine hardwood

Area of Critical Environmental Concern (ACEC): No

Soil(s): Montauk-Scituate-Canton well to moderately well drained sandy loam

Wetland Resources: One wetland and one stream within the lot

Vernal Pools: None

Harvest Information

Harvest Start Date: 9/20/2019

Harvest End Date: 1/14/2020

Number of Wetland Crossings: 0

Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings: A portable bridge and corduroy were utilized for soil and bank stabilization

Filter Strips: Two variable width filter strips used

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.us

Narrative

General Description/Forest Composition/History

The area to be harvested is in the town of Petersham. The stone walls on this lot attest to its history of being cleared for agriculture, mostly for pasture. When the farmland was abandoned, probably in the late 19th or early 20th century, it reverted to forest.

The primary tree species present are mixed oaks (predominately red oak). Other hardwoods include black, yellow and paper birch, red maple, aspen, ash, and hickories. Some hemlock is present, mainly in the understory.

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. To achieve this, DWSP has determined that the forest should contain a diversity of species in various stages of development (seedlings through large legacy trees). In addition, the forest should be vigorous; actively growing and regenerating. A forest in this condition is resilient to and can quickly recover from small- and large-scale disturbances such as diseases, insect infestations, ice storms and hurricanes.

This site was selected specifically to salvage trees which were killed by spongy moth defoliations which have occurred here yearly since 2016. To maximize value recovery, salvage harvests need to be done promptly. Once oak has been dead for 2 years almost all economic value is lost.

Silvicultural Objectives

The primary goals of this harvest are to salvage the dead and dying oak, establish new tree seedlings, and provide space for existing regeneration to expand and grow. The removal of dying weakened trees will reduce the chance of secondary pests and pathogens becoming established which would negatively impact the surrounding forest.

The harvest in 2004 was a thinning; most of the current regeneration, dominated by black birch, established at the time of the harvest. The stand is now approximately 100 years old and creating diverse regeneration is important. To achieve the desired species diversity larger openings will be made to encourage the establishment of shade intolerant species and oak, both of which are mostly non-existent in understory.

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

Cultural Resources

Stone walls are numerous throughout this area. There are many existing breaks and barways in these walls which will be used to avoid and protect the walls during the harvest.

Rare or Endangered Species

The lot contains no critical habitats or known rare or endangered species, and no vernal pools. The uplands are home to a variety of wildlife including deer, turkey, coyote and moose.

Figures

Figure 1. Final Forest Cutting Plan

Received 8/24/16

Forest Cutting Plan

and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00 (Effective Date: 3/15/16) **Final (1/20)**

For DCR Use Only:	
File Number	234.19465-20
Date Rec'd	8-26-16
Earliest Start	9-10-16
River Basin	Chicopee
Gen. Obj.	LT
Case No.	-
Nat. Hert.	NO
Pub. Dr. Wat.	NO
ACEC	NO

Site Information

Location

Town Petersham (Quabbin Lot S12SQ)
 Road Mary Tamplin Rd.
 Acres 39.3 Proposed Start Date TBD
 Vol. MBF 145.6 Vol. Cds. 117 Vol. Tons 73

Plan Preparer

Name Richard MacLean & Steven Wood
 Address 485 Ware Rd.
 Town, State, Zip Belchertown, MA 01007
 Phone (413) 213-7950
 Type of Preparer Licensed Forester (Wood)
 *Mass. Forester License # 257
 *Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR-DWSP Quabbin Ware River Region
 Mailing Address 485 Ware Rd
 Town, State, Zip Belchertown, MA 01007
 Phone 413-213-7918
 Ch61 61A 61B Stew *Case #
 FSC CR CR Holder

Licensed Timber Harvester**

Name TBD Conroy and Saw Logging
 Address 621 Denial Street Hwy
 Town, State, Zip Belchertown, MA 01007
 Phone 413-429-6372
 Mass. Lic. Harvester # 2069-039
 **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			
Existing Structure	NO			
Type of Bottom	ST			
Bank Height (ft)	<1'			
Stabilization	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	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

**Allow use of mechanized equipment w/in Filter Strips to salvage dead trees in order to maintain the integrity of the stream & water quality in specific areas where needed. - AR*

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 Piled	ST Stone		GR Gravel
OT Other	OT Other	HB Hay Bales		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*

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

*Note: Volumes 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.

Stand Treatment

Cutting Standards

Table with 5 columns: Indicate location on map, Forest Type, Acres, Landowner Objective, Designation of Trees, Type of Cut, Source of Regeneration. Rows include OH, WO, WP, LT, CT, SA, 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.

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.

Handwritten signature of landowner(s)

9-26-19 Date

Determination and Status

Final Report and Comments

Form with checkboxes for Cutting Plan, Extension, Amendment, and Expires. Includes handwritten dates like 8-26-2021 and 9-19-19.

Form for Final Report and Comments with handwritten signature and date 1-16-2020.

Codes

Table of codes for Forest Types, Designation of Trees, Type of Cut, and Source of Regeneration.

*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: 3/15/16)

Use this page to provide further explanation or if

Other (OT) was used in any category on pages 3 or 4.

Landowner DCR DWSP - Quabbin

Town Petersham

File Number 234-19455-20

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.

BLUE PAINT - Cut Trees | ORANGE PAINT - Leave trees | DOUBLE BAND PAINT - End of Sale | Pink Wetland Flagging - wetland or stream channel | Pink and Black Stripe Flagging - Skid Road |

This harvest is a salvage of gypsy moth related oak mortality. Some additional poor form or health growing stock is being harvested along with the salvage to encourage better regeneration conditions.

We request exemption from the 50' mechanized equipment restriction in the filter strips. There are several large salvage oak within the filter strips which hand felling may drop across the stream, and subsequent retrieval scar the stream bed. Allowing mechanized felling of these trees will reduce likelihood of damage to the stream bed.

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. Additional narrative description may be added on a separate page.

Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Left

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
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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
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Stand Map
Quabbin Lot S12SQ

Tamplin Rd.
 Petersham, MA

prepared by:
 Richard G
 MacLean
 MA DCR DWSP

created:
 9/19/2019 10:27 AM

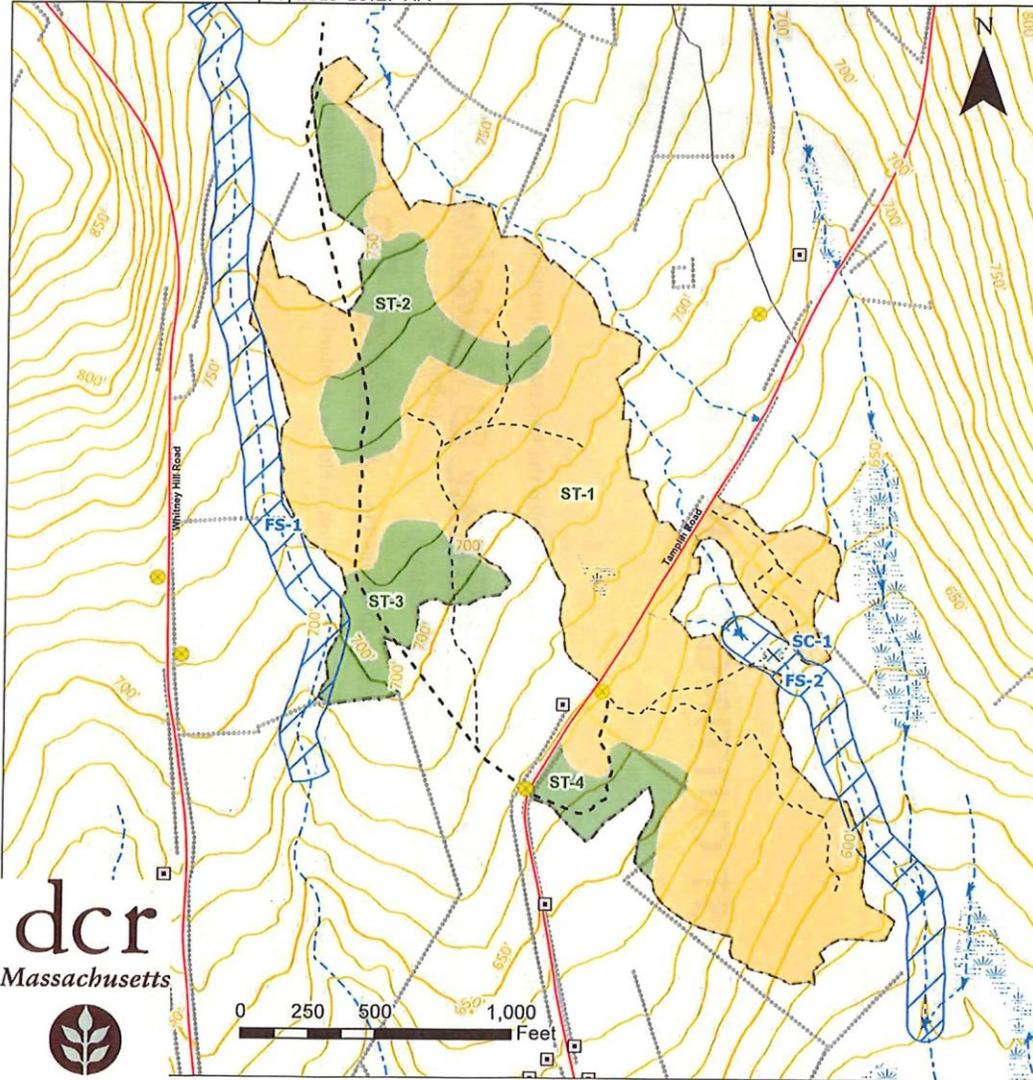
Data sources:
 MassGIS, DCR & EOEEA

- ST-1, OH
- ST-2, WO
- ST-3, WO
- ST-4, WO
- Stone Walls
- Cultural Resource

- DCR Internal Road
- Stream Crossings
- Filter Strip
- Intermittent Stream
- Ditch
- Wetland

- Landings
- Proposed Skid Trail
- Existing Skid Trail
- sale boundary

Scale: 1:5,400



Locus Map
Quabbin Lot S12SQ

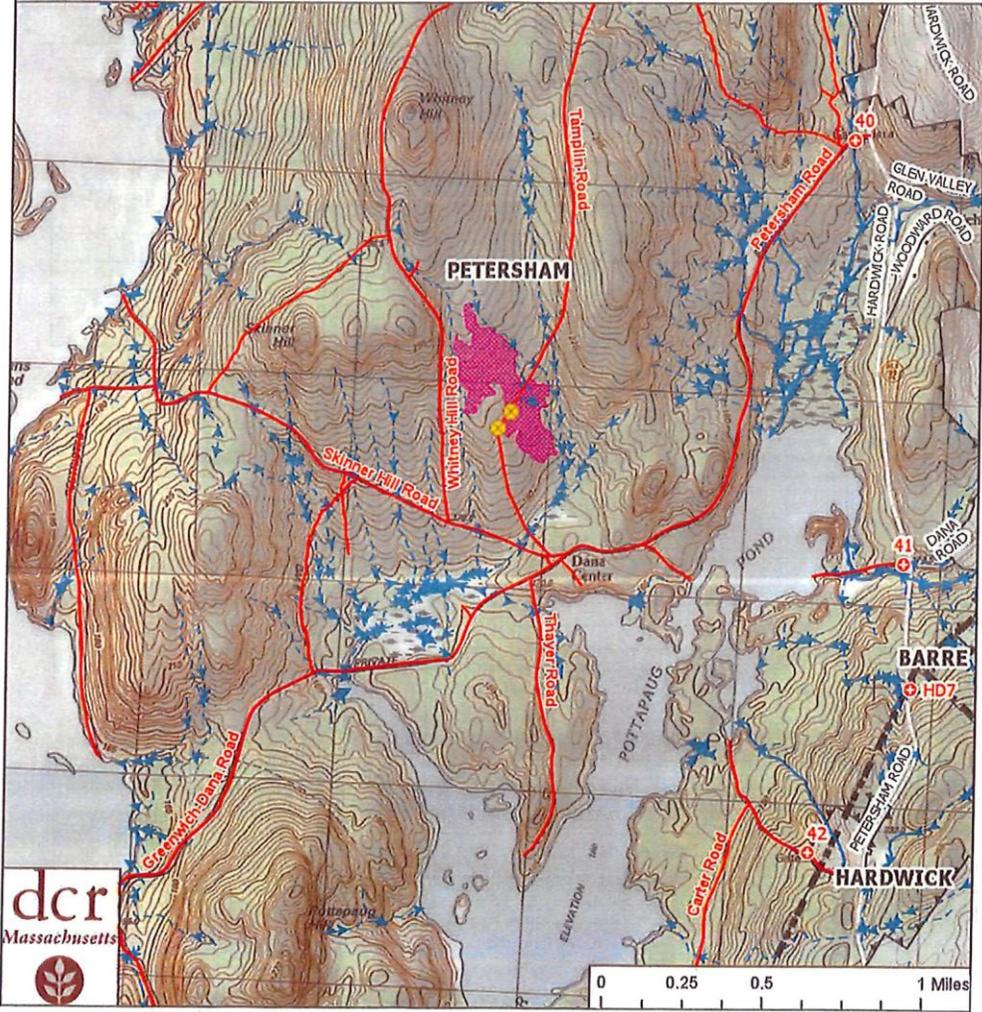
Tamplin Rd.
 Petersham, MA
 Prepared by:
 Richard G MacLean
 MA DCR DWSP
 8/13/2019

Data sources:
 MassGIS, DCR, & EOEEA

-  Town Lines
-  Major Collector
-  local road
-  DCR Roads
-  DCR Boundary
-  DCR Gates
-  Landing
-  Harvest Boundary
-  Stream/River: Perennial
-  Stream/River: Intermittent
-  Stream/River: Ephemeral
-  Canal/Ditch



Scale: 1:24,000



dcr



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

FILE # 234.19455-20

W

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, Belchertown, MA in accordance with the
(Name of Owner) (Address) 01007
(Quabbin Ware River Region)

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

S125Q lot, Petersham

Approval Date 9/19/19

Director's Agent Andrew Lawcliffe

DCR Phone No. 617-549-1677

ISSUED BY: 

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