

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: S17NQ

DWSP Proposal ID: PR-20-09

DCR Forest Cutting Plan File Number: 204-33630-22

Site Information

Watershed: Quabbin

Town(s): New Salem

Acres: 34

Nearest Road: Cooleyville

Natural Heritage Atlas overlap?: Yes

Public Drinking Water Supply Watershed?: Yes

Forest Types: Red Oak

ACEC?: No

Soils: Stony till with varying levels of sandy loam

Wetland Resources: None

Vernal Pools: 0

Harvest Information

Harvest Start Date: 12/1/2021

Harvest End Date: 12/15/2023

Number of Wetland Crossings: 0

Number of Stream Crossings: 3

Best Management Practices Applied

Stream Crossings: 3

Filter Strips: 4

Wetland Crossings: 0

Harvesting in Wetlands: 0

DWSP Forester supervising this harvest

Name: Derek Beard

Forester License #: 14

Phone #:

Email: derek.beard@mass.gov

NARRATIVE

General Description/Forest Composition/History:

Located on the Prescott Peninsula the area is accessed from Prescott Brook Rd (approx. 6 miles south of gate 17). Specifically, the project covers east and west facing slopes of a longitudinal ridge east of Prescott Brook.

The project is home to high canopy sawtimber oak (red, black, white and scarlet) the majority of which died from consecutive gypsy moth infestations (2017/18). The main associates are black birch, white ash, hickory and sugar maple. Regeneration consists of sapling/pole size black birch and white pine resulting from thinning in 1964 and 1995.

Prior to state ownership, much of the area was used as rough or semi-improved pasture associated with small scale farming; a common land use of the early 20th century Swift River valley.

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 and future users. In order 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. Forest in this condition is ideally suited to be resilient to and quickly recover from small to large scale disturbances such as disease, insect infestation, ice storms and hurricanes.

Silvicultural Objectives:

The main goal of the project is to salvage the dead oak having succumbed to consecutive years of intense gypsy moth caterpillar defoliation. Specifically, the project follows the pattern of mortality; such that there are uncut pockets due to the oak being alive and healthy or a change in species composition such as white pine or black birch (unaffected by gypsy moth). Furthermore, in areas of heavy mortality, oaks have been retained because they are healthy or have high wildlife value (cavity nesting/denning). In salvaging this resource, the stage will be set for a new forest to develop; with the hope it will be diverse/resilient enough to ward off the myriad issues affecting it today and in the future.

Cultural Resources:

With past agrarian use the area is home to a few stone walls.

Rare or Endangered Species:

Overlapping a habitat bubble, the project was reviewed by the MA Natural Heritage and Endanger Species program who determined that there could be a potential minor restriction.

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: 3/15/16) *Extension 1 (10/23)*

For DCR Use Only:

File Number	204.33630.22	Case No.	NA
Date Rec'd	11/18/2021	Nat. Hert.	True
Earliest Start	12/03/2021	Pub. Dr. Wat.	Yes
River Basin	Chicopee	ACEC	False
Gen. Obj.	LT		

Location

FINAL (2/24)

Town New Salem

Road Prescott Greenwich Rd

Acres 34.00 Proposed Start Date 12/12/2021

Vol. MBF 149.600 Vol. Cds. 282 Vol. Tons 49

Plan Preparer

Name Derek Beard

Address 485 Ware Rd

Town, State, Zip Belchertown MA 01007

Phone 617-780-0631

Type of Preparer LF

*Mass. Forester License # 14

*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR Div. of Water Supply Protection

Mailing Address 485 Ware Rd.

Town, State, Zip Belchertown MA 01007

Phone 413-323-6921

Ch61 ☐ 61A ☐ 61B ☐ Stew ☐ *Case #

FSC ☐ CR ☐ CR Holder

Licensed Timber Harvester**

Name

Address

Town, State, Zip MA

Phone

Mass. Lic. Harvester #

**This information may be supplied after the plan is approved, but before work begins.

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing	BR	BR	CU	
Existing Structure	No	No	Yes	
Type of Bottom	ST,GR	ST,MU	ST	
Bank Height (ft)	4.00	1.00	1.00	
Stabilization	CO	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	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

Heritage Timing Restriction - See Attached

Codes	Type of Preparer LF Mass. Lic. For. TH Lic. Tim. Har TB Timber Buyer LO Landowner OT Other	Type of Crossing CU Culvert BR Bridge FO Ford PO Poled OT Other	Stabilization SE Seed MU Mulch CO Corduroy ST Stone HB Hay Bales OT Other	Mitigation FR Frozen DR Dry OT Other	Type of Bottom LE Ledge ST Stony MU Mud GR Gravel 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.
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If Other (OT) is used in any category an explanation must be given on an attached narrative page

pg 3 of 6

Figure 1b: Forest Cutting Plan pg. 2.

Products to be Harvested*			
Species	Mb/Cds		Mb/Cds
White Pine	10.100	Red Maple	9.300
Red Pine		Sugar Maple	0.800
Pitch Pine		Red Oak	94.100
Hemlock		Black Oak	9.500
Spruce		White Oak	0.200
Other Sftwd.		Other Hdwd.	6.000
White Ash	5.200	Total Mb	149.600
Beech		Cordwood (Cds)	282.000
White Birch		SW Pulp (Tons)	49.000
B & Y Birch	14.400	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. Mb = thousand board feet.

Cutting Standards				
Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	OM	OR	OR	OR
Acres	3.000	17.000	2.000	12.000
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	CT
Type of Cut	SA	SA	SA	SA
Source of Regeneration	AD, SE, C, D	AD, SE, C, D	AD, SE, C, D	AD, SE, C, D

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.

11-16-21 (for 50 am)

Signature of landowner(s)

12/14/2021

Date

Determination and Status				Final Report and Comments	
Cutting Plan	Approved <input checked="" type="checkbox"/>	Disapproved <input type="checkbox"/>	Expires 11/18/2023		
<p><i>[Signature]</i></p> <p>Signature of Service Forester/Director's Agent</p>				<p><i>[Signature]</i></p> <p>Signature of Service Forester/Director's Agent</p>	
Extension	1 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>	Expires 11-18-24	<p>Sent For: Ints. <i>[initials]</i></p>	
Amendment	App 1 <input type="checkbox"/>	Dis 1 <input type="checkbox"/>	App 2 <input type="checkbox"/>	<p>Dis 2 <input type="checkbox"/></p>	

Codes

Forest Types	Designation of Trees	Type of Cut	Source of Regeneration
WP White Pine	HK Hemlock	OM Mixed Oak	CT Cut Tree
WK WP/Hem	HH Hem/Hdwd	RM Red Maple	LT Leave Tree
WH WP/Hdwd	BC Black Cherry	BE Beech	SB Stand Boundary
WO WP/Oak	BB Bee/Bir/Map	SF Spruce/Fir	OT Other
RP Red Pine	OH Oak/Hdwd	SM Sugar Maple	Landowner Objective
SR Red Spruce	OR N Red Oak	PP Pitch Pine	LT Long-term Mgt.
			ST Short-term Har.

Shelterwood

Intermediate Harvests:

CT Commercial Thin

NT Non Com Thin

Non-Standard Systems:

HG Highgrade*

DL Diameter Limit*

OT Other*

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

Figure 1c: Forest Cutting Plan pg 3.

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 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 speciality 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 aware of my (out) 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 are 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.

Signature of landowner(s)



11-16-2021

Figure 1d: Forest Cutting Plan pg. 4.

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 of Water Supply Prote

Town New Salem

File Number 204.33630.22

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.

This is an oak salvage project resulting from a 2017 gypsy moth infestation. 75% of the project's oak volume is dead. Trees to be harvested are marked with blue paint. Main skid roads are marked in orange paint. Retention and wildlife trees are marked in red paint.

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

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

Figure 1e: Forest Cutting Plan pg. 5.

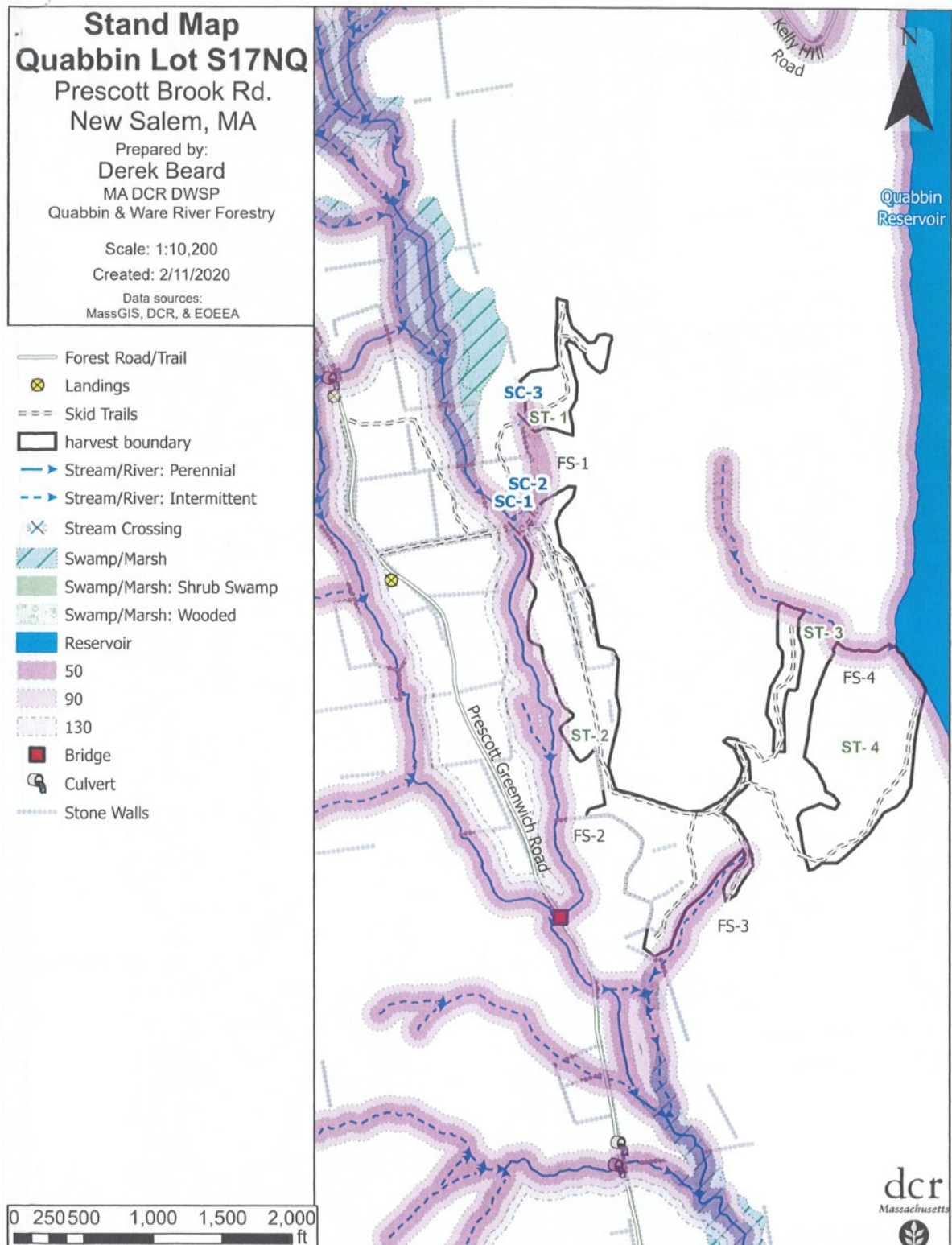


Figure 1f: Forest Cutting Plan pg. 6

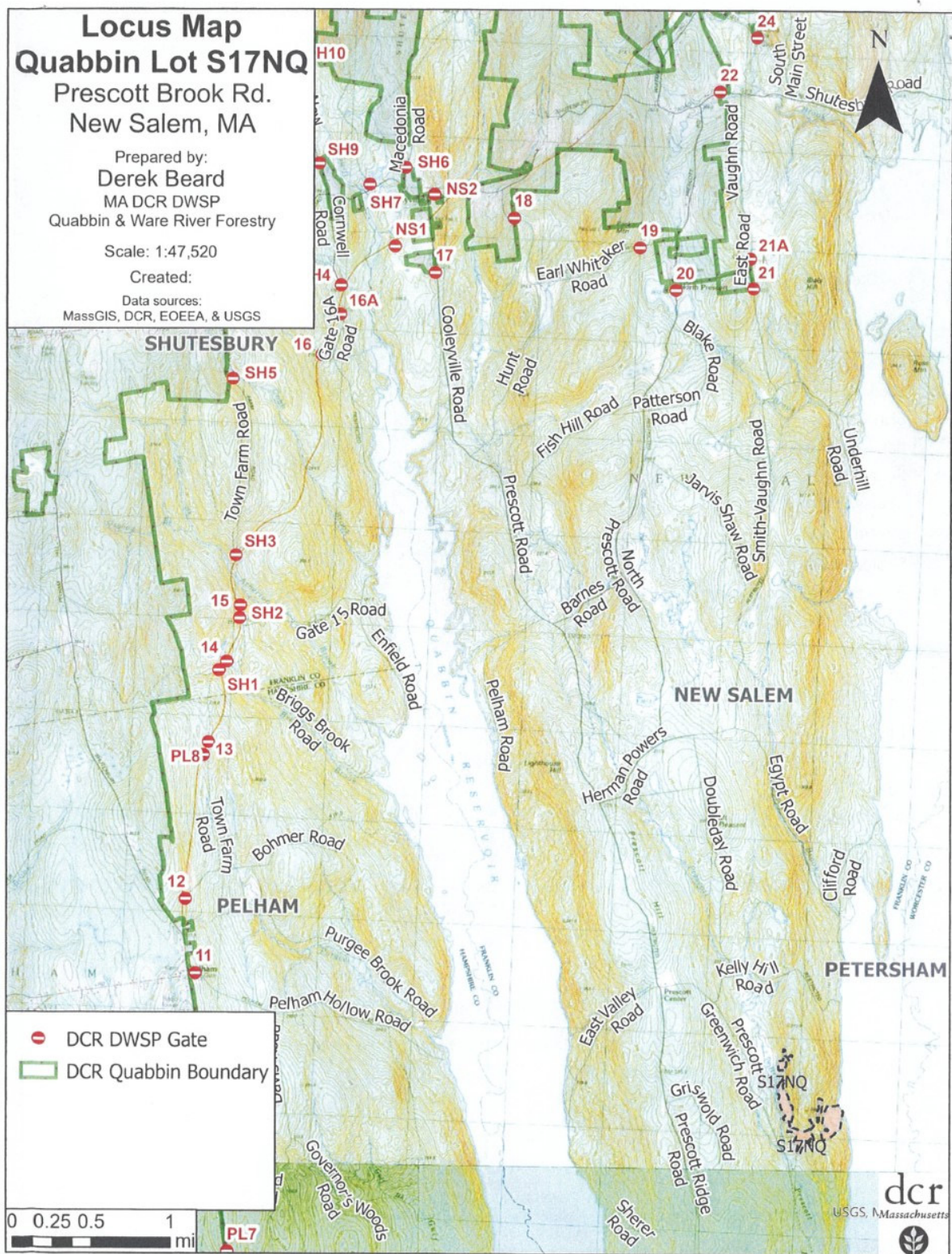




Figure 1g: Forest Cutting Plan pg. 7

	COMMONWEALTH OF MASSACHUSETTS Department of Conservation and Recreation Division of State Parks and Recreation	FILE # <u>204-33630-22</u>
<h1>W</h1>		
<h2>FOREST CUTTING PLAN CERTIFICATE</h2>		
<p>Post this in a conspicuous place within the area in which the harvesting operation is to take place.</p>		
This certifies that <u>DCR-DWSP</u> <u>485 Ware Rd</u> <u>Belchertown, MA 01007</u> in accordance with the (Name of Owner) (Address)		
provision of M.G.L. Chapter 132, Section 40-46, filed in <u>Amherst F.O.</u> with the Dept. of Conservation and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the		
<u>Quabbin State Park</u> (Prescott Brook Rd)		
Approval Date	<u>12/14/21</u>	ISSUED BY: 
Director's Agent	<u>Andrew Rawcliffe</u>	Priscilla E. Geigis, Director Division of State Parks and Recreation
DCR Phone No.	<u>617-549-1677</u>	