

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

**Project Title:** West of Munberry Brook  
DWSP Harvest Permit Number: 3140  
DWSP Proposal ID: PT-15-06  
DCR Forest Cutting Plan File Number: 204-6847-14

***Site Information***

Watershed: Quabbin  
Town(s): Petersham  
Acres: 37  
Nearest Road: Tamplin Road & Route 32A (Hardwick Road)  
Natural Heritage Atlas overlap?: No  
Public Drinking Water Supply Watershed?: Yes  
Forest Types: Red Oak  
Area of Critical Environmental Concern (ACEC)?: No  
Soils: Montauk-Scituate-Canton fine sandy loam  
Wetland Resources: No  
Vernal Pools: No

***Harvest Information***

Harvest Start Date: February 22, 2016  
Harvest End Date: June 3, 2016  
Number of Wetland Crossings: 0  
Number of Stream Crossings: 0

***Best Management Practices Applied***

Stream Crossings: Not Applicable  
Filter Strips: Two 50 foot filters  
Wetland Crossings: Not Applicable  
Harvesting in Wetlands: Not Applicable

***DWSP Forester supervising this harvest***

Name: Derek Beard  
Forester License number: 14  
Phone number: 617-780-0631  
Email: derek.beard@mass.gov

## **Narrative**

### ***General Description/Forest Composition/History***

This project is situated on the lower east slope of Whitney Hill on the east side of Mary Tamplin Road. Forest cover consists of red oak sawtimber, mid canopy of mixed hardwood poles (red maple and birch) and scattered understory of mainly black birch saplings. The mid-section of the project is home to a two-acre inclusion of white pine sawtimber. The scattered sapling/pole understory was triggered by a mid-1980s shelterwood harvest.

### ***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. 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- and large-scale disturbances such as disease, insect infestation, ice storms and hurricanes.

The area has an overabundance of high canopy large diameter trees and little to no young forest. Regeneration harvesting should rebalance species diversity and forest structure.

### ***Silvicultural Objectives***

Diversification of species and forest size class structure is the primary objective of this timber harvesting project. This will be accomplished by making a series of small forest openings randomly spaced through the area. Specifically, there are 14 openings covering 6 of the 37 acres with an average opening size of 0.4 acres. The well drained till soils are suited for hardwood regeneration. However, white pine is a possibility if the harvest is completed during a seed year.

### ***Cultural Resources***

The project is home to myriad stone walls associated with an old home site/farmstead located in the north central part of the area. The farmstead includes a cellar hole, fieldstone well and barn foundation. The area is also home to a long-term permanent forest inventory plot also known as a continuous forest inventory plot (CFI).

### ***Rare or Endangered Species***

The project does not overlap with any rare and/or endangered species habitat. No unusual wildlife was observed during the planning or set up process for the project.

## **Figures**

- Figure 1. Forest Cutting Plan
- Figure 2. Photo Point Pictures

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 234-792-16 Case No. \_\_\_\_\_  
Date Rec'd 10-1-2015 Nat. Hert. No  
Earliest Start 10-1-2015 Nat. Hert. Imp. N/A  
River Basin Quincy Pub. Dr. Wat. Quincy  
Gen. Obj. LT ACEC No

10-01-15 P12:48 IN

**FINAL**

Site Information

### Location TIMBER LOT 3140

Town Petersham  
Road Tamplin (Gate 39)  
Acres 37 Proposed Start Date \_\_\_\_\_  
Vol. MBF 44.4 Vol. Cds. 157 Vol. Tons 11

### Plan Preparer

Name Derek Beard  
Address DCR – Div. of Water Supply Protection  
21 Elm St.  
Town, State, Zip New Salem, MA 01355  
Phone 978-544-6343  
Type of Preparer LE  
\*Mass. Forester License # 14  
\*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 412-323-6921  
Ch61  61A  61B  Stew  \*Case # \_\_\_\_\_  
CR  CR Holder \_\_\_\_\_

### Licensed Timber Harvester\*\*

Name Allard Brothers Logging  
Address \_\_\_\_\_  
Town, State, Zip Hadley MA  
Phone 413-320-2158  
Mass. Lic. Harvester # 1513, 1590

\*\*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) | 50'  | 50'  |      |      |

### 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.                  |
| TH Lic. Tim. Har  | BR Bridge        | MU Mulch      | DR Dry     | ST Stony       | Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. |
| TB Timber Buyer   | FO Ford          | CO Corduroy   | OT Other   | MU Mud         | Consult MA Forestry BMP Manual for further information.  |
| LO Landowner      | PO Poled         | 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 columns: Species, Mb/Cds, Mb/Cds. Rows include White Pine, Red Pine, Pitch Pine, Hemlock, Spruce, Other Sftwd., White Ash, Beech, White Birch, B & Y Birch, Black Cherry.

TIMBER LOT 3/40

\*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

Table with 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.

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.

Signature of landowner(s)

Date 9-29-15

Service Forester

Determination and Status 234-7820-16

Approved [X] Disapproved [ ] Expires 10/14/2017. Signature of Service Forester/Director's Agent [Signature] Date 10/14/15

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 [Signature] Date 5/4/16

Codes

Table with columns: Forest Types, Designation of Trees, Type of Cut, Source of Regeneration. Rows include WP White Pine, HK Hemlock, GM Mixed Oak, CT Cut Tree, SH Shelterwood, Intermediate Harvests, AD Advanced, etc.

\*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.

TIMBER LOT 3140

Landowner DCR-DWSP-Quab

Town Petersham

File Number 234-7820-16

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 harvest is an aggregation of 14 canopy openings (patches) spread across 37 acres. Opening size ranges from 0.2 to 0.5 acres with an average of 0.4 of an acre. The 14 openings cover a total of 5.7 acres. Wildlife trees in openings have been identified (flagged) for retention.

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.

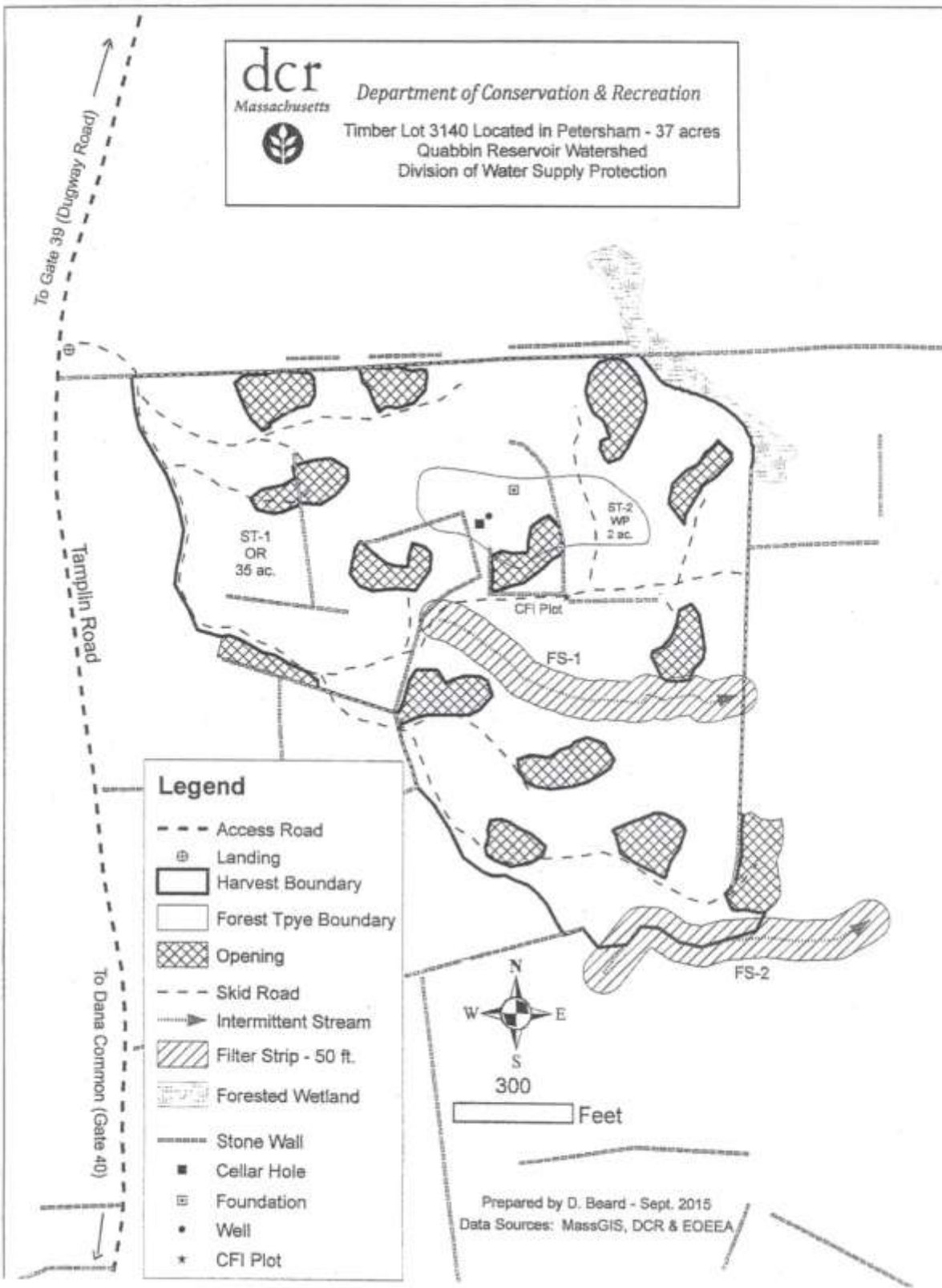
| Stand No. | Source of Regeneration (ex. AD, SE) | How will Regeneration be obtained/protected?<br>If using AD - Describe the species present and how the regeneration will be protected<br>If using SE - Describe the source of the seed and the number of seed trees/acre |
|-----------|-------------------------------------|--|
|           |                                     |  |
|           |                                     |  |
|           |                                     |  |
|           |                                     |  |
|           |                                     |  |

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

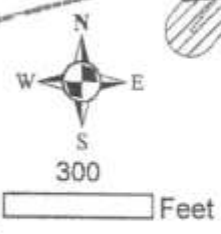
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|  |  |
|  |  |



Department of Conservation & Recreation  
Timber Lot 3140 Located in Petersham - 37 acres  
Quabbin Reservoir Watershed  
Division of Water Supply Protection



- Legend**
- - - Access Road
  - ⊕ Landing
  - ▭ Harvest Boundary
  - ▭ Forest Type Boundary
  - ▨ Opening
  - - - Skid Road
  - Intermittent Stream
  - ▨ Filter Strip - 50 ft.
  - ▨ Forested Wetland
  - Stone Wall
  - Cellar Hole
  - ⊞ Foundation
  - Well
  - ★ CFI Plot

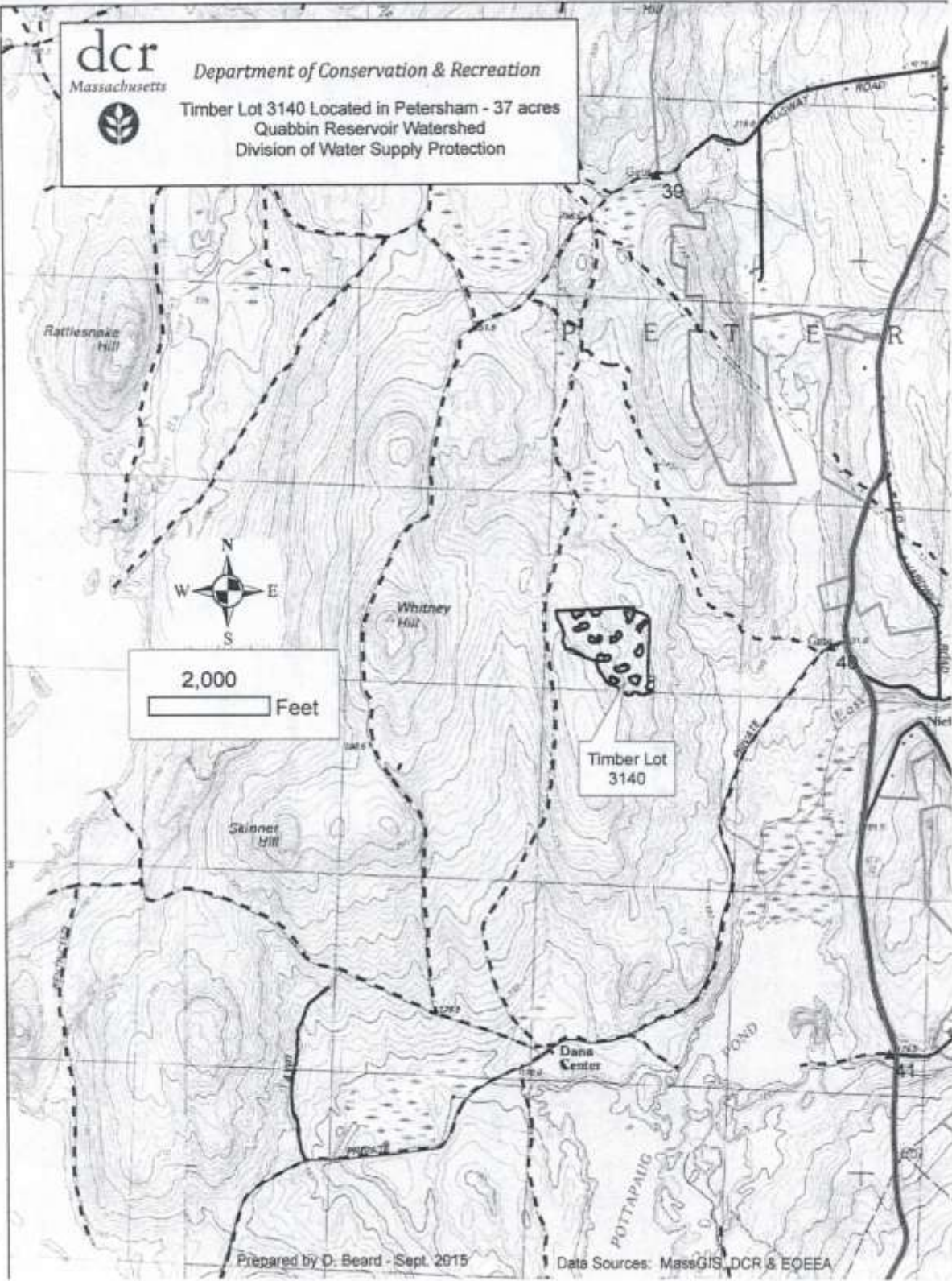


Prepared by D. Beard - Sept. 2015  
Data Sources: MassGIS, DCR & EOEEA



Department of Conservation & Recreation

Timber Lot 3140 Located in Petersham - 37 acres  
Quabbin Reservoir Watershed  
Division of Water Supply Protection



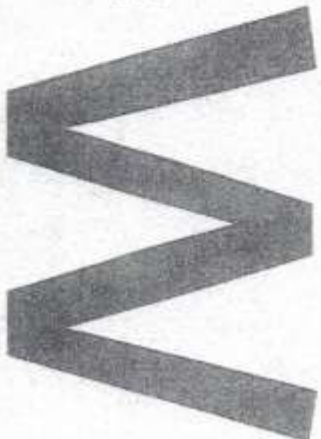
Prepared by D. Beard - Sept. 2015

Data Sources: MassGIS, DCR & EOEEA



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

FILE # 234-7820-16



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-DUSSP 485 Shore Rd Galderham MA 01007 in accordance with the  
 (Name of Owner)

provision of M.G.L. Chapter 132, Section 40-46, filed in Auburn MA with the Dept. of Conservation  
 and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the

340 lot. GATE 39

Approval Date 10/14/15

Director's Agent Fletcher Clark

DCR Phone No. 413-242-2367

ISSUED BY:

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

**Figure 2.** *Photo Point Pictures*

Pre-Harvest, December 2015



Post Harvest, March 2016



June 2025 (10 years of growth)

