

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

**Project Title:**

<b>DWSP Harvest Permit Number: 3172</b>
<b>DWSP Proposal ID: PR-17-16</b>
<b>DCR Forest Cutting Plan File Number: 204-32385-21</b>

**Site Information**

<b>Watershed:</b> Quabbin	<b>Town(s):</b> New Salem
<b>Acres:</b> 74	<b>Nearest Road:</b> Cooleyville
<b>Natural Heritage Atlas overlap?:</b> Yes	<b>Public Drinking Water Supply Watershed?:</b> Yes
<b>Forest Types:</b> Oak/Hardwood, White Pine/Oak	<b>ACEC?:</b> No
<b>Soils:</b> Stony till with varying levels of sandy loam	
<b>Wetland Resources:</b> Intermittent brooks	
<b>Vernal Pools:</b> 1	

**Harvest Information**

<b>Harvest Start Date:</b> 09/19/2022	<b>Harvest End Date:</b> 12/16/2024
<b>Number of Wetland Crossings:</b> 0	<b>Number of Stream Crossings:</b> 1

**Best Management Practices Applied**

<b>Stream Crossings</b>	1; will be a temporary skid bridge with corduroyed slash
<b>Filter Strips</b>	1; variable width based on slope
<b>Wetland Crossings</b>	0
<b>Harvesting in Wetlands</b>	0

<b>DWSP Forester supervising this harvest</b>
<b>Name:</b> Derek Beard
<b>Forester License #:</b> 14
<b>Phone #:</b>
<b>Email:</b> derek.beard@mass.gov

## **NARRATIVE**

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

The general location of this harvest is east and south of the intersection (20-8) of Egypt Brook road and end of the Gate 21 road. Specifically, it sets along the east side of Egypt Brook and ascends eastward over a height of land to a steep east facing slope. It is bounded to the west by Egypt Brook, to the north by an old lot line, to the east by steep slope and to the south by Quabbin Salvage Harvest S7NQ (completed in 2019).

High canopy oak/hardwood covers most the area; greatest stocking is red oak followed by white, black and scarlet. Common mid-story hardwoods are red maple, black birch and hickory. The other main forest component of the harvest area is high canopy white pine/oak. Portions of this forest type have very large trees which could be considered exceptional and have not been included in the harvest. An understory composition of sapling/small pole size black birch and white pine was triggered from thinning in 1971 and '82. There has been a minor to moderate level of oak mortality (mostly confined to the lower slope) resulting from repeated Gypsy Moth caterpillar infestation (2016/17).

An old truck road descends from Egypt Brook Rd to an old stone culvert (the projects stream crossing) over Egypt Brook eventually arriving at a ¼ acre stand of vigorous large pole size white pine. It was discovered from discuss (with retired forester), that this locale was the site of a portable sawmill likely used in the 1970s 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 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 harvesting project is to release and/or spur a young forest age class. This will be accomplished by the siting of 10 openings across the harvest area that range between 0.1 and 2 acres in size; and average about 1 acre. Openings over a half-acre (0.5) have live tree retention that will contribute to future forest complexity.

### **Cultural Resources:**

Given the area's distant proximity from the road, other than old property bounds, cultural resources are quite sparse.

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

According to the latest edition of the MA Natural Heritage & Endanger Species Atlas, the project does overlap with any estimated or critical habitat area. Although no harvesting is occurring near it, a portion of the project's east boundary is a vernal pool.

## **FIGURES**

**Figure 1. Forest Cutting Plan**

<h1 style="margin: 0;">Forest Cutting Plan</h1> <p style="margin: 0;">and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00 (Effective Date: 3/15/16)</p>		<b>For DCR Use Only:</b> File Number <u>204-32385-21</u> Case No. <u>NA</u> Date Rec'd <u>06/04/2021</u> Nat. Hist. <u>True</u> Earliest Start <u>06/21/2021</u> Pub. Dr. Wat. <u>Yes</u> River Basin <u>Chicopee</u> ADEQ <u>False</u> Gen. Obs. <u>LT</u>																																																				
Site Information	<b>Location</b>		<b>Landowner</b>																																																			
	Town <u>New Salem</u> Road <u>Egypt Brook</u> Acres <u>74.00</u> Proposed Start Date <u>09/01/2021</u> Vol MBF <u>113,000</u> Vol. Cds <u>153</u> Vol. Tms <u>57</u>		Name <u>DCR Div. of Water Supply Protection</u> Mailing Address <u>485 Ware Rd</u> Town, State, Zip <u>Belchertown Massachusetts 01007</u> Phone <u>413-323-6921</u> Ch61 <input type="checkbox"/> 61A <input type="checkbox"/> 61B <input type="checkbox"/> Stew <input type="checkbox"/> *Case # _____ FSC <input type="checkbox"/> CR <input type="checkbox"/> CR Holder _____																																																			
	<b>Plan Preparer</b>		<b>Licensed Timber Harvester**</b>																																																			
	Name <u>Derek Beard</u> Address <u>485 Ware Rd</u> Town, State, Zip <u>Belchertown MA 01007</u> Phone <u>617-780-0631</u> Type of Preparer <u>LF</u> *Mass. Forester License # <u>14</u> *Required: for land under Ch61, Ch61A or Forest Stewardship		Name _____ Address _____ Town, State, Zip <u>MA</u> Phone _____ Mass. Lic. Harvester # _____ ** This information may be supplied after the plan is approved, but before work begins																																																			
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Figure 1b: Forest Cutting Plan pg. 2.

Products to be Harvested*			
Species	MBF/Cds	Species	MBF/Cds
White Pine	43,200	Red Maple	1,000
Red Pine		Sugar Maple	1,200
Pitch Pine		Red Oak	52,500
Hemlock	1,100	Black Oak	4,200
Spruce		White Oak	1,600
Other Hardw.		Other Hardw.	1,000
White Ash	0,300	<b>Total MBF</b>	<b>113,200</b>
Beech		Cardboard (Cds)	153,000
White Birch		SW Pulp (Tons)	57,000
B & Y Birch	7,100	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.

### Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WO	OH		
Area	27,000	47,000		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	CC	CC		
Source of Regeneration	AD,SE	AD,SE		

### Stand Treatment

### 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.

*[Signature]*

Signature of landowner(s)

07/13/2021

Date

### Determination and Status

	Approved	Disapproved	Expires
Cutting Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	06/04/2023

*[Signature]*

07/13/2021

Signature of Service Forester/Director's Agent

Extension: ☐ ☒ Expires: 1 Ser. Exp. Ints: 1

Amendment: ☐ App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 1

### Final Report and Comments

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

*[Signature]*

Date

Forest Type	Designation of Trees	Type of Cut	Source of Regeneration
WP White Pine	HK Hardlock	OM Mixed Oak	CT Clear Cut
Wk White Pine	HH Hardwood	RM Red Maple	LT Long-term
WH White Pine	DC Dick Cherry	RT Red Oak	ST Short-term
WB White Birch	BB Beech/Birch	ST Spruce/Fir	SH Shelterwood
PP Red Pine	OA Oak/Hardwood	SM Sugar Maple	ST Seed Tree
SR Red Spruce	OR Oak/Red Oak	PP Pitch Pine	CC Clear Cut
			SL Selection
			SA Salvage
			SN Sanitation
			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.

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Signature of landowner(s)



6-4-2021

Figure 1d forest cutting plan pg 4.

<h2 style="margin: 0;">Forest Cutting Plan</h2> <p style="margin: 0;"><b>Narrative Page (Effective Date: 3/15/16)</b>                      Use this page to provide further explanation or if                      Other (OT) was used in any category on pages 3 or 4.</p>		Landowner <u>of Water Supply Prote</u> Town <u>New Salem</u> File Number <u>204.32385.21</u>																																																													
BMPs	<p>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</p> <div style="border: 1px solid black; padding: 5px; min-height: 80px;"> <p>The harvest encompasses 10 patch openings (clearcuts) totaling 9.7 acres across a 74 acre project area. Sizes range from a 10th of an acre to 2.2 acres and average one acre. Openings over a half an acre have some tree retention. About 4 MBF of red oak volume is dead; 0.7 MBF of black oak volume is dead (killed by 2017/18 gypsy moth infestation). Skid roads are marked in orange or red paint. Openings are marked in blue paint.</p> </div>																																																														
	<p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Stand No.</th> <th colspan="3">Describe Trees to be Cut</th> <th colspan="3">Describe Trees to be Left</th> <th colspan="2">% BA/AC</th> </tr> <tr> <th>Species</th> <th>Size</th> <th>Quality</th> <th>Species</th> <th>Size</th> <th>Quality</th> <th>Cut</th> <th>Left</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC		Species	Size	Quality	Species	Size	Quality	Cut	Left																																												
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Regeneration & Future Condition	<p>Stand No. <span style="float: right;"><b>Desired Future Condition</b></span>                      Describe what the stand is expected to look like 100 years from the harvest, including the condition of the overstory &amp; understory.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>																																																														

Figure 1d: Forest Cutting Plan pg. 5.



**DIVISION OF  
FISHERIES & WILDLIFE**

1 Rabbit Hill Road, Westborough, MA 01581  
p: (508) 380-6300 | f: (508) 380-7890  
**MASS.GOV/MASSWILDLIFE**

Andrew Rawcliffe  
Department of Conservation and Recreation  
40 Cold Storage Drive  
Amherst, MA 01004

Cutting Plan No.	<u>204.32385.21</u>
NHESP Tracking No.	<u>18-37992</u>
Town	<u>New Salem</u>
Road	<u>Egypt Brook</u>
Landowner	<u>DCR DWSP, Quabbin</u>
Preparer	<u>Derek Beard</u>
Date	<u>June 28, 2021</u>

Dear Andrew,

The Natural Heritage and Endangered Species Program (NHESP) of the Massachusetts Division of Fisheries and Wildlife ("the Division") has reviewed the above-referenced Forest Cutting Plan ("the Plan") pursuant to the special approval procedures of the Forest Cutting Practices Regulations (304 CMR 11.04(6)). Based on details of the Plan and information in our database, the Division does not expect activities proposed in the Plan to negatively impact Estimated Habitat or result in Take (as defined in 321 CMR 10.02) of plant or animal species protected under the Massachusetts Endangered Species Act (MESA) (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00). Therefore, the Division does not require that the Plan be modified at this time.

Please copy the Division on any proposed amendment, extension and on the approved Plan for the site. If you have any questions about this letter, please contact Rebekah Zimmerer at (508) 389-6354 or [Rebekah.zimmerer@mass.gov](mailto:Rebekah.zimmerer@mass.gov).

Sincerely,

A handwritten signature in black ink, reading "Everose Schlüter".

Everose Schlüter, Ph.D.  
Assistant Director

Cc: New Salem Conservation Commission

**MASSWILDLIFE**

Andrew Rawcliffe  
Department of Conservation and Recreation  
40 Cold Storage Drive



Figure 1e: Forest Cutting Plan page 6.

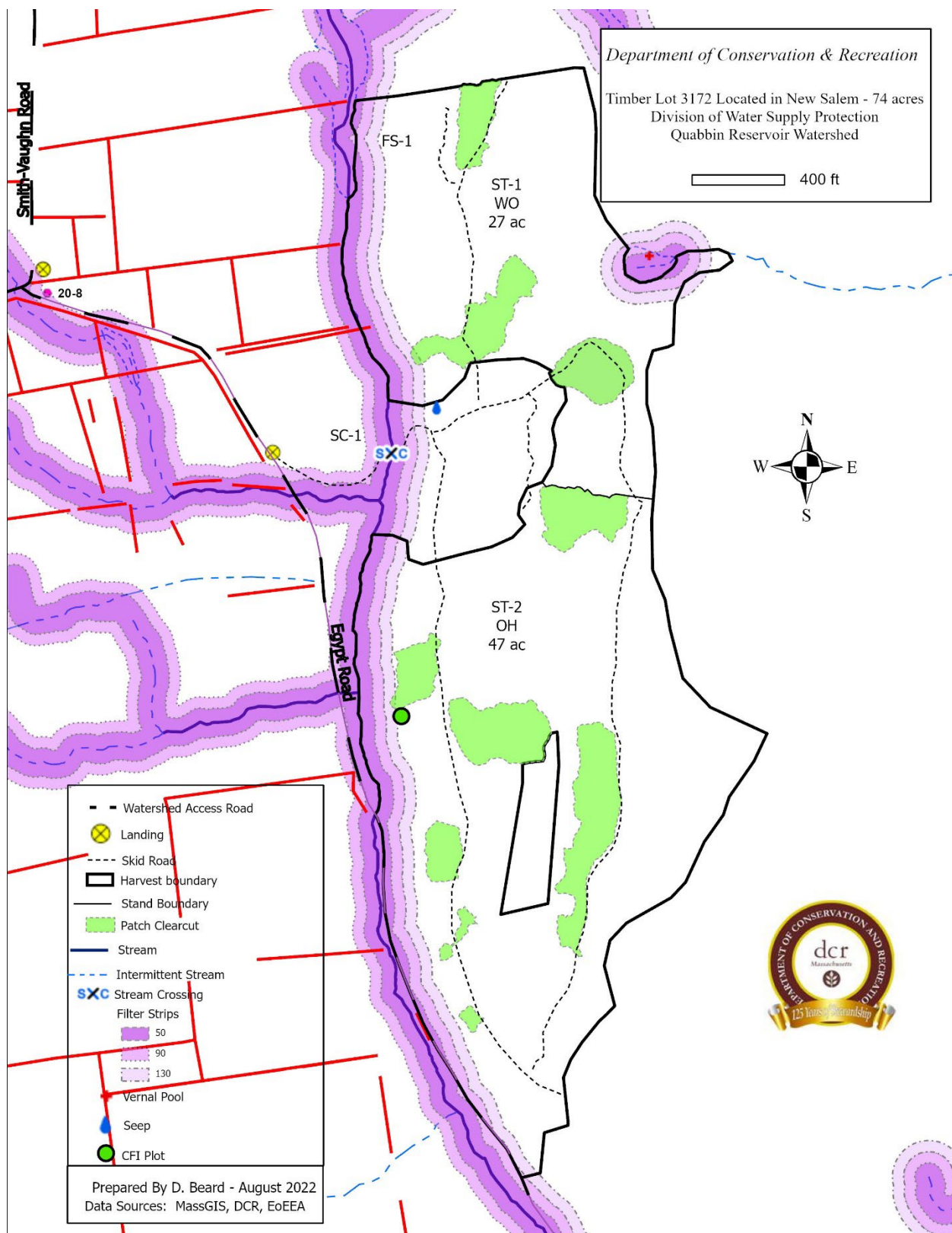




Figure 1f: Forest Cutting Plan pg. 7.

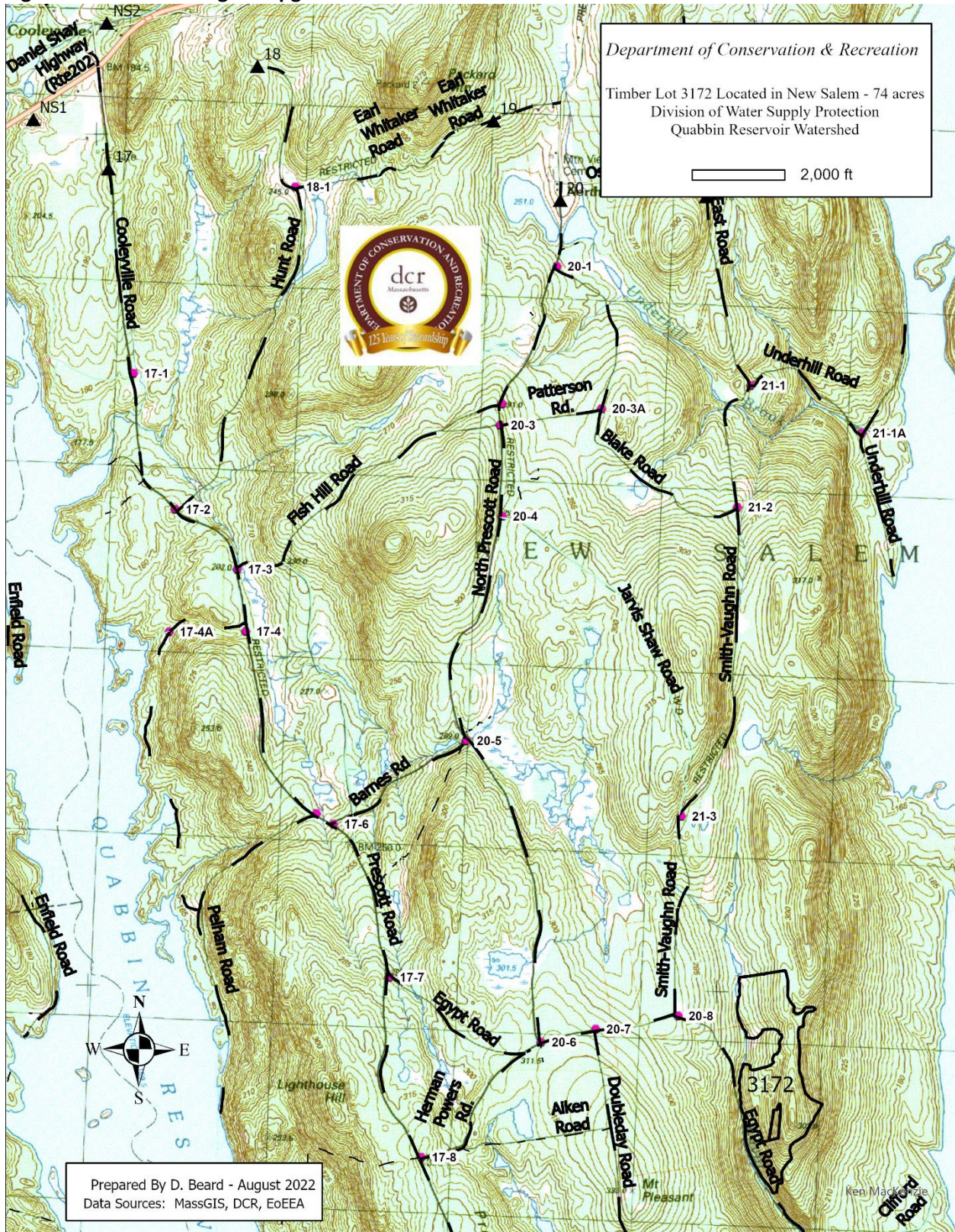







Figure 1g: Forest Cutting Plan pg. 8.

 COMMONWEALTH OF MASSACHUSETTS Department of Conservation and Recreation Division of State Parks and Recreation	FILE # <u>204-32385-21</u>
	
<b>FOREST CUTTING PLAN CERTIFICATE</b>	
Post this in a conspicuous place within the area in which the harvesting operation is to take place.	
This certifies that <u>DCR-DWSP 485 Ware Rd, Belchertown, MA</u> in accordance with the (Name of Owner) (Address) <u>01007</u>	
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>"3166" lot. Egypt Brook Rd, New Salem</u>	
Approval Date <u>6/30/21</u>	ISSUED BY: 
Director's Agent <u>Andrew Rawcliffe</u>	Priscilla E. Geigis, Director
DCR Phone No. <u>617-549-1677</u>	Division of State Parks and Recreation