

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

Project Title: Clifford Road North
DWSP Harvest Permit Number: S7NQ
DWSP Proposal ID: PR-19-17-S
DCR Forest Cutting Plan File Number: 204-9487-19 & 204-969019

Site Information

Watershed: Quabbin
Town(s): New Salem
Acres: 173
Nearest Road: Route 202, Cooleyville Rd. (Gate 17)
Natural Heritage Atlas overlap?: Yes
Public Drinking Water Supply Watershed?: Yes
Forest Types: Red Oak
Area of Critical Environmental Concern (ACEC)?: No
Soils: Montauk fine sandy loam, Newfields fine sandy loam & Canton fine sandy loam
Wetland Resources: Yes
Vernal Pools: No

Harvest Information

Harvest Start Date: September 24, 2018
Harvest End Date: September 5, 2019
Number of Wetland Crossings: 1
Number of Stream Crossings: 10

Best Management Practices Applied

Stream Crossings: Temporary skid bridges and corduroyed approaches
Filter Strips: Six variable width
Wetland Crossings: Crossing at highest location, matting and corduroying
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 watershed forest management project is approximately 6 miles south/southwest from gate 17 (Cooleyville Rd). The landing is situated on Clifford Rd, which is accessed via Egypt Brook Rd. Specifically, the area sits north of Clifford Rd. on the eastern middle and lower slopes of an unnamed hill. It is bounded to the south by an intermittent brook, east by the reservoir, north by an intermittent brook and steep slope and west by steep/rocky slope.

The project is home to dense tall sawtimber red oak. The main associates are black birch, white ash, hickory and sugar maple. Due to the heavily shaded condition regeneration is sparse. The most common are black birch, ash and sugar maple. Hay scented fern dominates the ground layer.

The project area was dedicated to small scale farming, mainly livestock grazing (rocky soils), prior to state ownership.

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 oak that has died from three consecutive years of intense Spongy moth caterpillar defoliation. Mainly due to its distance from an existing road, there has been no forest management since state ownership. Specifically, the project follows the pattern of oak mortality; such that there will be uncut pockets where forest composition transitions to more black birch/northern hardwoods. Furthermore, in areas of heavy mortality, trees were retained because they did not succumb to defoliation and/or they have high value for wildlife. The project will set the stage for new forest development, building watershed forest diversity and resiliency to ward off the current and future challenges posed by climate change.

Cultural Resources

Stone walls are the preeminent cultural resource in the project area.

Rare or Endangered Species

Maintaining and/or enhancing habitat is a high priority when planning and executing watershed forest management projects. As such, retaining live and dead snags, trees that show sign of use by wildlife for nesting/denning and foraging is a priority. Falling in a natural heritage bubble, the project area was reviewed by MA Natural Heritage and Endanger Species program and deemed to have no impact on the specie(s) within the bubble.

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)

For DCR Use Only:	
File Number	204-9487-19 Case No. <u> </u>
Date Rec'd	9-7-18 Nat. Hert. <u>Y</u>
Earliest Start	9-21-18 Pub. Dr. Wat. <u>N</u>
River Basin	Chicopee ACEC <u>N</u>
Gen. Obj.	LT

Site Information	Location <u>Amendment #1 (11/18)</u>	Landowner
	Town <u>New Salem</u> Road <u>Clifford Rd.</u> Acres <u>173</u> Proposed Start Date <u> </u> Vol. MBF <u>707.2</u> Vol. Cds. <u>965</u> Vol. Tons <u> </u>	Name <u>DCR - DWSP - Quabbin Section</u> Mailing Address <u>485 Ware Rd.</u> Town, State, Zip <u>Belchertown, MA 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 # <u> </u> FSC <input type="checkbox"/> CR <input type="checkbox"/> CR Holder <u> </u>
Plan Preparer Name <u>Derek Beard</u> Address <u>DCR - DWSP - Quabbin Section</u> <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	Licensed Timber Harvester** Name <u>John H. Conkey & Sons Logging</u> Address <u>621 Daniel Shays Highway</u> Town, State, Zip <u>Belchertown, MA 01007</u> Phone <u>(413) 323-7120</u> Mass. Lic. Harvester # <u>2019-039</u> **This information may be supplied after the plan is approved, but before work begins.	

Best Management Practices	Stream Crossings	Harvesting in Wetlands																																																	
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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 Poled	ST Stone		OR Gravel	
OT	Other	OT Other	HB Hay Bales		OT Other	

If Other (OT) is used in any category an explanation must be given on an attached narrative page

Stream Crossings

Indicate location on map	SC-5	SC-6	SC-7	SC-8	SC-9	SC-10
Type of Crossing	BR	BR	BR	BR	BR	BR
Existing Structure	N	N	N	Y	Y	N
Type of Bottom	ST	ST/MU	MU/ST	ST	ST	ST/MU
Bank Height (ft)	1-2'	<1'	<1'	<1'	1-2'	<1'
Stabilization	CO	CO	CO	CO	CO	CO

Wetland Crossings

Indicate location on map	WC-5	WC-6	WC-7	WC-8	WC-9	WC-10
Length						
Mitigation						
Stabilization						

Filter Strips

Indicate location on map	FS-5	FS-6	FS-7	FS-8	FS-9	FS-10
Width (50', 100' or VA)	VA	VA	VA	VA		

Harvesting in Wetlands

Indicate location on map	HW-5	HW-6	HW-7	HW-8	HW-9	HW-10
Forest Type (see pg 2)						
Acres to be Harvested						
Resid. Basal Area (>50%)						

<u>Type of Crossing</u>	<u>Stabilization</u>	<u>Mitigation</u>	<u>Type of Bottom</u>	<u>Note:</u>
CJ Culvert	SE Seed	FR Frozen	LE Ledge	Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin.
BR Bridge	MU Mulch	DR Dry	ST Stony	Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits.
FD Ford	CO Corduroy	OT Other	MU Mud	Consult MA Forestry BMP Manual for further information.
PD Poled	ST Stone		GR Gravel	
OT Other	HB Hay Bales		OT Other	
	OT Other			

If Other (OT) is used in any category an explanation must be given on narrative page

* See Next Page *

Forest Products

Products to be Harvested*

Species	MbFCu	MbFCu	MbFCu
White Pine		Red Maple	3
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	298
Hemlock		Black Oak	9
Spruce		White Oak	1
Other Shrd.		White Hard.	12
White Ash	6	Total MbF	340
Peach		Cardboard (Cds)	442
White Birch		SW Pulp (Tons)	
H & Y Birch	11	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	

*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. MbF = thousand board feet.

Stand Treatment

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	OR	OH	OR	OR
Acres	99	3	8	2
Landowner Objective	LT	LT	LT	LT
Designation of Tract	CT	C1	CT	CT
Type of Cut	SA	SA	SA	SA
Source of Regeneration	SE	SE	SE	SE

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. A forester 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 abuttes of record within two hundred feet of the area to be harvested.
 I (we) understand that the volumes 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)

9-6-18

Date

Service Forester

Determination and Status

	Approved	Disapproved	Expires	
Cutting Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8-16-20	
			9-11-18	
	Signature of Service Forester/Director's Agent		Date	
Extension	<input type="checkbox"/>	<input type="checkbox"/>	Expires	See For Ints
Amendment	App 1 <input type="checkbox"/>	Dis 1 <input type="checkbox"/>	App 2 <input type="checkbox"/>	Dis 2 <input type="checkbox"/>

Final Report and Comments

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



Signature of Service Forester/Director's Agent

9-26-19

Date

Codes

Forest Types		Designation of Tract		Type of Cut		Source of Regeneration	
WP	White Pine	HK	Hemlock	OT	Cut Tree	AD	Advanced
WR	Red Pine	HH	White Hard	LP	Lean Tree	SE	Natural Seed
WL	White Hard	BL	Black Cherry	SB	Stand Boundaries	PL	Plant
WO	White Oak	BB	Beech/Birch	OT	Other	LO	Lopping
RP	Red Pine	OH	White Hard	LT	Long-term Mgt	DS	Direct Seed
RL	Red Spruce	OR	Red Oak	ST	Short-term Har	OT	Other

*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page pg 4 of 5

* See Next Page *

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	3.2	Red Maple	9.7
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	603.8
Henlock		Black Oak	27.2
Spruce		White Oak	16.3
Other Sftwd.		Other Hdwd.	12
White Ash	8	Total Mbf	707.2
Beech		Cordwood (Cds)	965
White Birch		SW Pulp (Tons)	
B & Y Birch	27	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	

*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. Mbf = thousand board feet.

Stand Treatment

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4	ST-5
Forest Type	OR	OH	OR	OR	OR
Acres	69	13	8	3	90
Landowner Objective	LT	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	CT	CT
Type of Cut	SA	SA	SA	SA	SA
Source of Regeneration	SE	SE	SE	SE	SE

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. 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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I (we) understand that the volumes 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

11-5-18

Service Forester

Determination and Status

Approved Disapproved Expires _____

Cutting Plan _____

Signature of Service Forester/Director's Agent _____
Date _____

Extension 1 2 Expires _____ Ser. For. Ints. _____

Amendment App 1 Dis 1 App 2 Dis 2 *AR*
11/5/18

Final Report and Comments

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

Signature of Service Forester/Director's Agent _____ Date _____

Codes

Forest Types	Designation of Trees	Type of Cut	Source of Regeneration
WP White Pine	CT Cut Tree	SH Shelterwood	AD Advanced
WK WP/Hem	LT Leave Tree	ST Seed Tree	SE Natural Seed
WH WP/Hdwd	SB Stand Boundary	CC Clear Cut	PL Plant
WO WP/Oak	OT Other	SE Selection	CO Coppice
RP Red Pine	Landowner Objective	SA Salvage	DS Direct Seed
SR Red Spruce	LT Long-term Mgt.	SN Sanitation	OT Other
	ST Short-term Mgt.	OT Other*	

*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
 Town New Salem
 File Number 204.9487.19

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.

The project objective is to salvage oak that has approximately 50% or more crown mortality from a third consecutive year infestation by the defoliating gypsy moth caterpillar. All timber to be cut is marked in blue paint. All skid roads are marked in orange paint. Three slashes of paint indicates harvest boundary. Some retention trees, mainly sugar maple, are flagged pink for hopeful avoidance during harvest. Pink flag also indicates the edges of small seeps that are to be avoided. Timber has been unmarked (black paint) in stands 3 and 4. These stands represent a 300 ft. buffer from the reservoir shoreline where, although dead, more trees have been retained providing an early stage shelterwood condition from above.

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.	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 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

dcr
Massachusetts



Department of Conservation & Recreation

Timber Lot STNQ Located in New Salem - 83 acres
Quabbin Reservoir Watershed
Division of Water Supply Protection

900

Feet

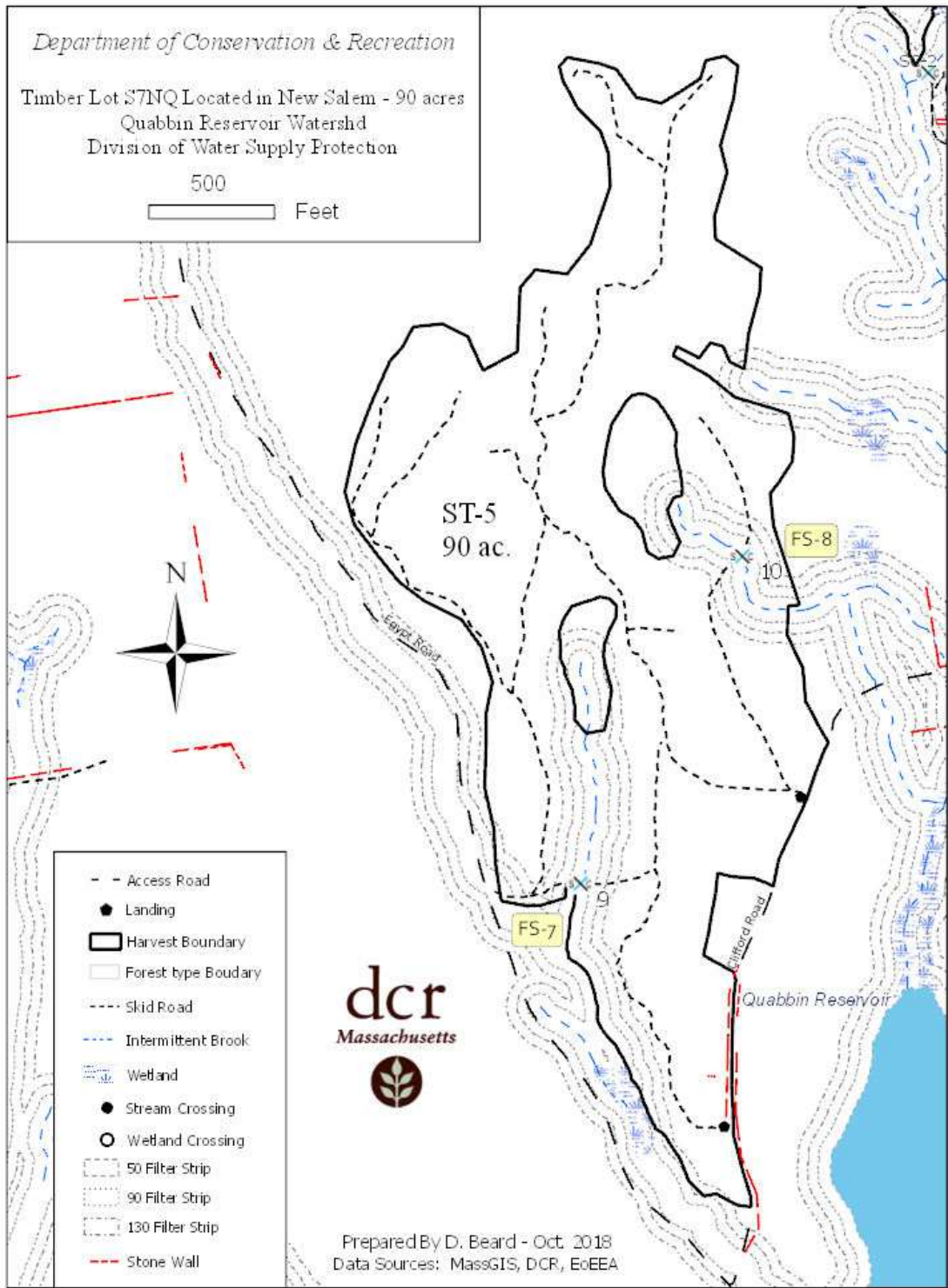


Prepared By: D. Beard - July 2018
Data Sources: MassGIS, DCR, EoEEA

Department of Conservation & Recreation

Timber Lot STNQ Located in New Salem - 90 acres
Quabbin Reservoir Watershed
Division of Water Supply Protection

500
Feet



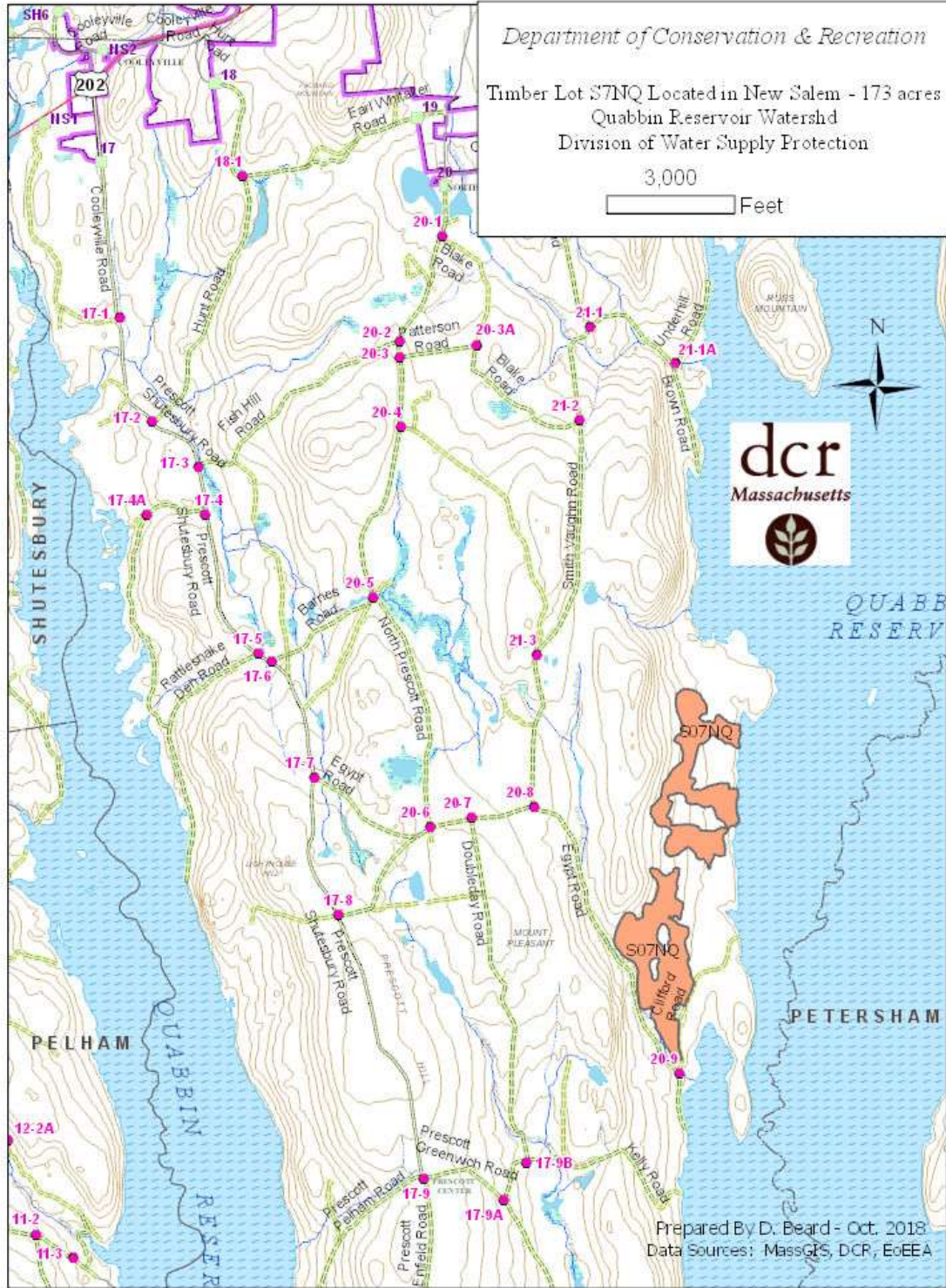
Prepared By D. Beard - Oct. 2018
Data Sources: MassGIS, DCR, EoEEA

Department of Conservation & Recreation

Timber Lot S7NQ Located in New Salem - 173 acres
Quabbin Reservoir Watershed
Division of Water Supply Protection

3,000

Feet



dcrc



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

FILE # 04-9487-19

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

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

Clifford Rd lot, New Salem

Approval Date 9/11/18

Director's Agent Andrew Rauchliffe

DCR Phone No. 617-548-1677

ISSUED BY:

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

WEST SIDE OF EGYPT BROOK RD.

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)

For DCR Use Only:

File Number	201-9690-19	Case No.	
Date Rec'd	12-20-18	Nat. Mgmt.	N/A
Earliest Start	1-8-19	Pub. Dr. Wtd.	N/A
River Basin	Chicopee	ACEC	N/A
Geol. Cds.	L1		

Site Information

Location

Town: New Salem
 Road: Egypt Brook Rd. (Gate 17)
 Acres: 46 Proposed Start Date: _____
 Vol. MBF: 41.4 Vol. Cds.: 94 Vol. Tuns: _____

Plan Preparer

Name: Derek Beard
 Address: DCR - DWSP Quabbin Section
484 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-DWSP Quabbin Section
 Mailing Address: 484 Ware Rd
 Town, State, Zip: Belchertown, MA 01007
 Phone: 617-780-0631
 Ch61: Ch61A: Ch61B: Stew: *Case # _____
 FSI: CR: CR Holder

Licensed Timber Harvester**

Name: John H. Conkey & Sons Logging
 Address: 621 Daniel Shay Highway
 Town, State, Zip: Belchertown, MA 01007
 Phone: (413) 323-7120
 Mass. Lic. Harvester # 2019-039

**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				
Existing Structure				
Type of Bottom				
Dam 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)	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				
Road, Road Area (>50%)				

Service Forester Comments

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom
LF: Mass Lic For	CR: Culvert	SE: Road	FR: Fences	LE: Ledge
LI: Lic. Lim. Har	DR: Bridge	MU: Mulch	CR: Dry	ST: Story
TS: Timber Buyer	FO: Ford	CO: Contour	OT: Other	MU: Mud
LD: Landowner	PO: P.O. Rd	ST: Stone		GR: Gravel
OT: Other	OT: Other	IIB: Ice Bales		OT: Other
		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 fire and periods of realistic application may require additional permits. Consult MA Forests BMP Manual for further information.

If Other (O1) is used in any category, an explanation must be given on an attached narrative page

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

Town New Salem

File Number 20H-9690-19

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.

The project objective is to salvage oak that has approximately 50% or more crown mortality from a third consecutive year infestation by the defoliating gypsy moth caterpillar. All timber to be cut is marked in blue paint. All skid roads are marked with orange 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.

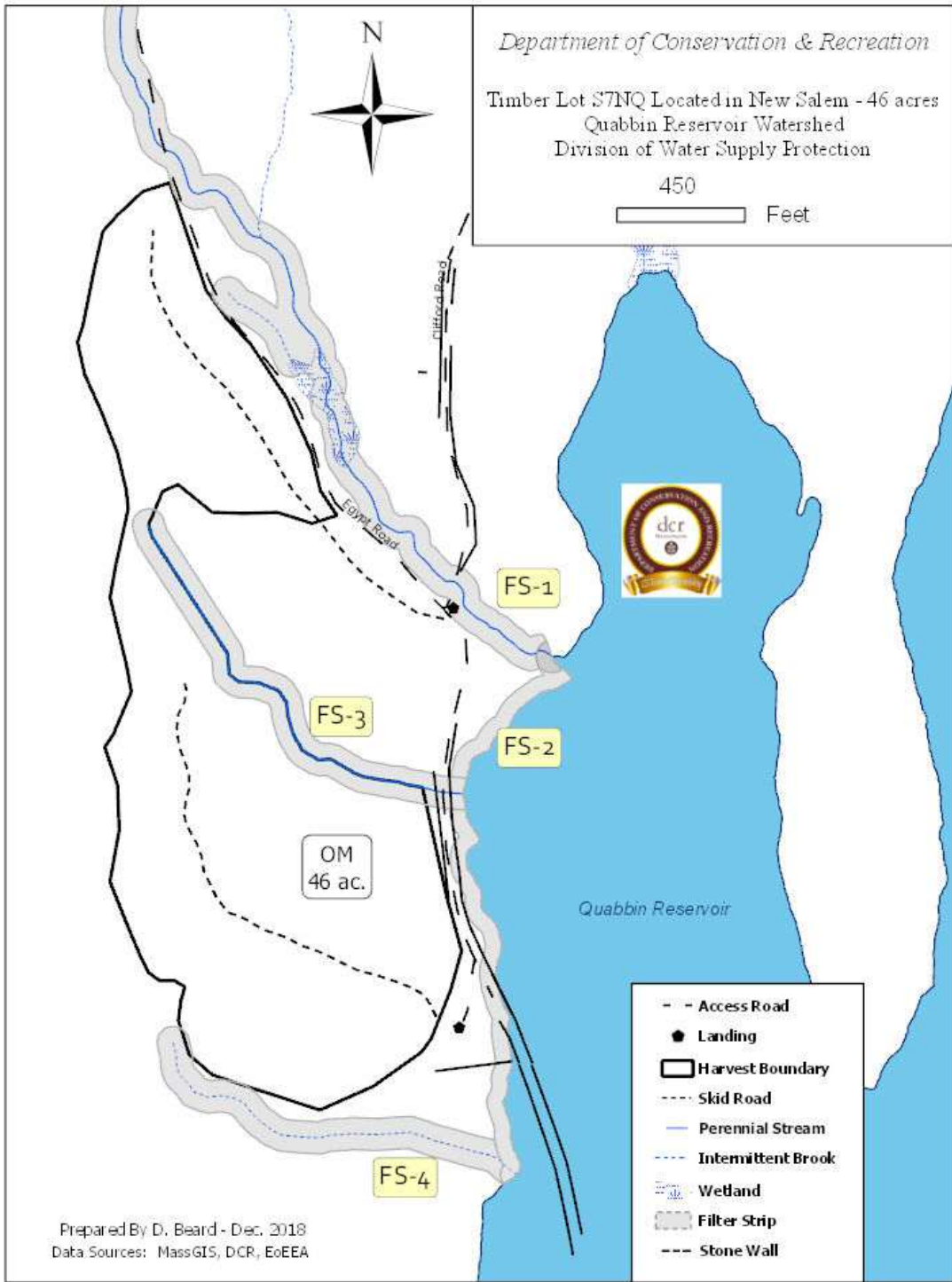
Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Ret.

Regeneration & Future Condition

Use this Section to describe how Chapter 112 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 next cut, including the condition of the overstory & understorey.



dcr



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

FILE # 204-9690-19

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 Quabbin 484 Ware Rd Belchertown, 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

Egypt Brook Rd, New Salem
(Gate 17)

Approval Date 1/3/19

Director's Agent Andrew Rawcliffe

DCR Phone No. 617-549-1677

ISSUED BY:

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