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: 3138	
DCR Forest Cutting Plan File Number: 204-7705-16 and 204-7749-16	

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 116	Nearest Road: Route 202, East Main St.
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: Hemlock/White Pine/Oak/Mixed Hdwd	ACEC?: No
Soils: Gneiss and Schist derived well drained tills	
Wetland Resources: None	
Vernal Pools: Two	

Harvest Information

Harvest Start Date: September 15, 2015	Harvest End Date: December 1, 2017
Number of Wetland Crossings: None	Number of Stream Crossings: 5

Best Management Practices Applied

Stream Crossings	temporary bridging when flowing
Filter Strips	8 filter strips ranging between 50 and 100' in width
Wetland Crossings	
Harvesting in Wetlands	

DWSP Forester supervising this harvest	
Name: Derek Beard	
Forester License #: 14	
Phone #: 978-544-6343	

NARRATIVES

General Description/Forest Composition/History

This project encompasses two harvest areas that are a mile apart and linked by a watershed access road. The south area is in the Giles Brook watershed and the north area is in the Moosehorn Brook watershed. These forest areas have relatively dense concentrations of hemlock along with white pine, mixed oak and other hardwoods. There are also two small red pine plantations. Stone walls, a staple of the New England landscape, are indicative of a much more open and agrarian landscape created by past inhabitants generations ago.

The hemlock is aggregated while the white pine/hardwoods component is dispersed across harvest areas. The hemlock component has been in steady decline for the past two decades due to infestations of hemlock woolly adelgid and other pathogens. Early 1980s and 1990s improvement thinning spurred a scattered of regeneration currently composed of sapling/pole size black birch, hemlock and red maple.

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.

Diseased and dying hemlock coupled with an insufficient young forest layer indicates some regeneration cutting begin in order to trigger development of a healthier, more balanced and diverse forest structure.

Objectives

Reducing stocking of diseased hemlock and diversifying the area's forest structure are the primary objectives of the project. This will be accomplished by making a series of small forest openings randomly spaced through the area. Specifically, there are 35 openings covering 13 of the 116 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

In addition to stone walls mentioned above, there is a cellar hole located on the east side of the north harvest area.

Wildlife Resources

The south harvest area is home to several vernal pools. Maintaining unique habitats, like vernal pools, is a primary goal when performing forestry operations. To that end no harvesting occurs within 15 feet of the pool; a shaded or thinned condition is maintained within 100 feet of the pool; and no significant rutting is permitted within 200 feet of the pool.

For DCR Use Only: **Forest Cutting Plan** Case No. File Number Nat. Hert. and Notice of Intent under M.G.L. Date Rec'd 7-17-15 Nat. Hert. Imp. N/A Earliest Start Chapter 132 - The Forest Cutting Chicopic / Orthin Pub. Dr. Wat. yes. River Basin Practices Act, 304 CMR 11.00 Gen. Obj. (Effective Date: 1/1/04) TIMBER LOT 3138 SECTION A Landowner Location Name DCR - Division of Water Supply Protection New Salem Town Millington Rd. aka Belden Hill Rd. (Gate 27) Mailing Address 485 Ware Rd. Proposed Start Date_ Informati Town, State, Zip Belchertown, MA 01007 Vol. Cds. 110 Vol. Tons 437 Vol. MBF 77 412-323-6921 Ch61 61A 61B Stew *Case # Plan Preparer CR CR Holder Site Derek Beard Licensed Timber Harvester** DCR - Div. of Water Supply Protection Alland Bros. Lissing 21 Elm St. Town, State, Zip New Salem, MA 01355 Reckender Ad Town, State, Zip Halley, MA 00035 978-544-6343 Phone Phone 414-586-8838 Type of Preparer LF Mass. Lic. Harvester # 1513 *Mass. Forester License # 14 **This information may be supplied after the plan is approved, but before *Required for land under Ch61, Ch61A or Forest Stewardship Harvesting in Wetlands Stream Crossings Indicate location on map HW-I HW-2 HW-3 SC-4 Indicate location on map SC-1 SC-2 Type of Crossing BR Forest Type (see pg 2) Acres to be Harvested N N **Existing Structure** Resid. Basal Area ST ST Type of Bottom (>50%?) Bank Height (ft) co CO Stabilization Management Wetland Crossings Service Forester Comments WC-I WC-2 WC-3 WC-4 Indicate location on map Length of Crossing Mitigation Stabilization Best Filter Strips FS-4 Indicate location on map FS-1 FS-2 FS-3 Width (50', 100', or VA) 100° 50 Type of Bottom Type of Crossing CU Culvert Type of Preparer LF Mass Lic. For. NOSE. 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. Ledge Stony MU Mulch BR Bridge FO Ford DR Dry ST Lic. Tim. Har Corduroy OT Other MU Mud Timber Buyer Gravel Poled. ST Hay Bales Other Other

Landowner

Species

White Pine

Red Pine

Pitch Pine

Hemlock

Spruce

Beech

Other Sftwd.

White Ash

White Birch

B & Y Birch

Black Cherry

Products to be Harvested*

Mbt/Cds

13.1

40.9

0.8

3.0

Red Maple

Red Oak

Black Oak

White Oak

Other Hdwd.

Total Mbf

Cordwood (Cds)

SW Pulp (Tons)

HW Pulp (Tons)

Chips (Tons)

Sugar Maple

TIMBER LOT 3138 SECTION A

*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

Mb@Cds 10.5 3.3 0.7 4.7 77.0 110 437

Cutting Standards Stand Treatment

Indicate location on map	ST-1	ST-2	ST-3	ST-
Forest Type	HH	WK	OW	
Acres	16	8	30	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	CT	
Type of Cut	SE	SE	SE	
Source of Regeneration	SE/AD	SE/AD	SE/AD	

Landowner Signature	Lar	ıdo	wne	r Sig	ına	tur	e
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The most important information on a cutting plan is the Landowner's objective, as this will determine which trees will be harvested a 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.

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 resul in a forest dominated by poor quality and low value spo

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 small values and volumes to the Director or his/her agent if the final figures differ from those reported. SAM

Willinz	Les	
Signature of landowner(s)	100	•

June 26,2015

-	NAME AND ADDRESS OF THE OWNER, OWNER, THE OW	ACCRECATE VALUE OF TAXABLE PARTY.	-		-		Date	
	Determin	nation	and S	tatus		_	Final Report and Comments	
Forester	Cutting Plan Signature of Se	Approved		approve	_7	7-15-15	I hereby certify that the afore described Forest Cutting Pland all relevant statutes have been substantially complied All Signature of Service Forester/Director's Agent	with.
Service	Extension	1 App 1		App 2	Expires Dis 2	Ser. For. Ints.		
es	Amendment Eurest Types WP White Pine	BK Hz	In lock	OM N	Exced Oak	Designation of Trees	Type of Cut Source of Repo	meration

띡	WP	White Pine	HK	Hemio
91	WK	WP/Hem	HH	Hem/H
뭐	WH	WP/Hdwd	BC	Blck C
2	WO	WP/Ouk	BB	Bee/Bit
	RP	Red Pine	OH	Oak/Hr

Idwel RM Red Maple Beech Spruce/Fir SF Sugar Manie OR N Red Oak

LT Leave Tree SB Stand Boundary OT Other Landowner Objective Long-term Mgt.

ST Short-term Her

Seed Tree CC Clear Cut SE Selection Salvage

Commercial Thin Nos Com Thin NT Non-Standard Syste Highgrade! DL Dismoter Limit* Other*

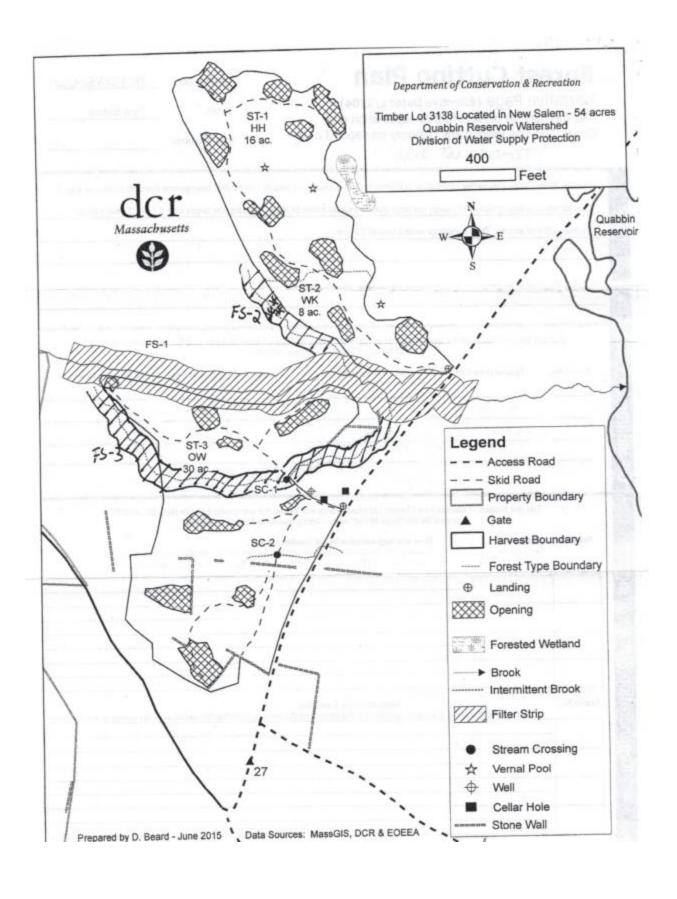
SE Natural Seed Pf. Pinet CO Coppice DS Direct Seed OT Other

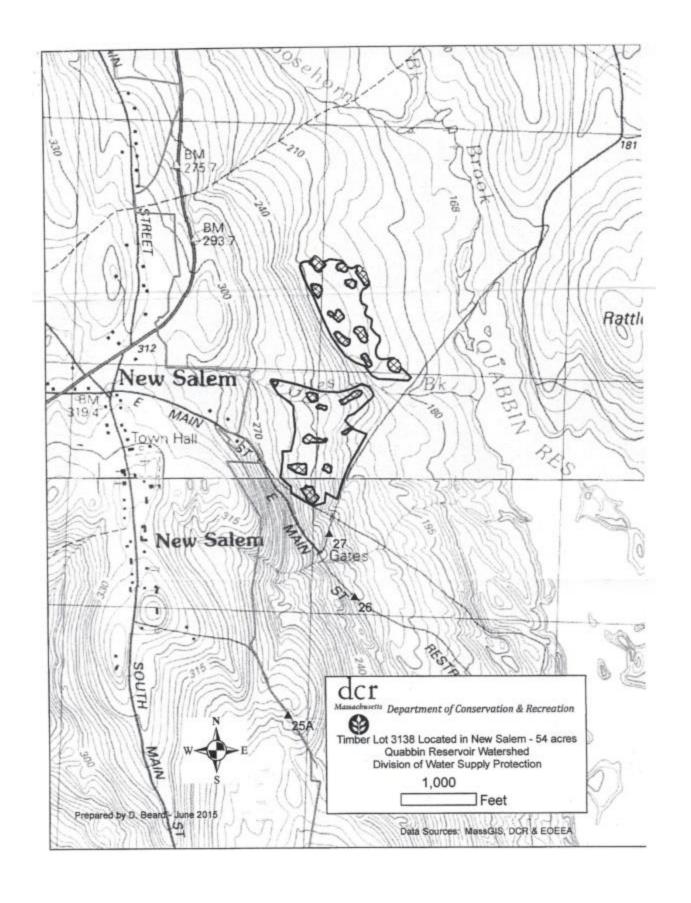
Narrative Page (Effective Date: 1/1/04)
Use this page to provide further explanation or if
Other (OT) was used in any category on pages 3 or 4.

TIMBER LOT 3138 SECTION A

Landowner	DCR-DWSP-Quab
Town	New Salem
File Number	

average of 0.	f of an acre. The 19 on			to 0.7 acres with an
	of all acre. The 15 op.	enings cover a total of 7.5 acres.	-	
In the second				
Use th	his Section to describe th	he types of trees to be harvested and/or re in the Stand Treatment Sect	tained if Other (OT) was used for "De ion on page 4.	esignation of Trees"
Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Remove
				_/.:
				1.
		1.2		13
			ς	1
				7
97			المساعة معال والمساعة	
Stand No.	Source of Regeneration	s used for the "Type of Cut" in the Cuttin How will Regeneration be obtain If using AD - Describe the species	ed/protected? present and how the regeneration wil	l be protected
	(ex. AD, SE)	If using SE - Describe the source of	of the seed and the number of seed tre	es/acre
	(ex. AD, SE)	If using SE - Describe the source of	f the seed and the number of seed tre	es/acre
	(ex. AD, SE)	If using SE - Describe the source of	f the seed and the number of seed tre	es/acre
	(ex. AD, SE)	If using SE - Describe the source of	f the seed and the number of seed tre	es/acre
	(ex. AD, SE)	If using SE - Describe the source of	f the seed and the number of seed tre	es/acre
	(ex. AD, SE)	If using SE - Describe the source of	f the seed and the number of seed tre	es/acre
Stand No.		Desired Future Condition	00	es/acre
Stand No.			00	es/acre
Stand No.		Desired Future Condition	00	es/acre
Stand No.		Desired Future Condition	00	es/acre



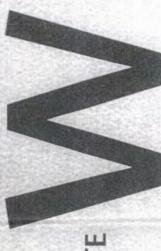


COMMONWEALTH OF MASSACHUSETTS

Department of Conservation and Recreation Division of State Parks and Recreation

FILE # 204-7706-16





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 (DWSP)	DCA (Dwsp) (Name of Owner)	Mare Road, Belcherbinn, N (Address)	Mace Road, Belcherbing, MA in accordance with the (Address)
provision of M.G.L	provision of M.G.L. Chapter 132, Section 40-46, filed in the Amherst office.		with the Dept. of Conservation
and Recreation, Di	and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the	Notice of Intent to cut forest pr	oducts upon the
Millington Road	lot.		(

Approval Date 7/15/2015

Director's Agent Fletcher Clack

DCR Phone No. (413) 262-2367 (Forester)
(413) 445-5752 (CLECK)

ISSUED BY:

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

and Notice of Intent under M.G.L. Chapter 132 - The Forest Cutting Practices Act, 304 CMR 11.00

For DCR U	se Only:		
File Number Date Rec'd	X113/2015	Case No. Nat. Hert.	No 1
Earliest Start	8/28/2015	Nat. Hert. Imp.	NIA
River Basin	Chicpee	Pub. Dr. Wat.	authin
Gen. Obj.	LT	ACEC	No

ctive Date: 1/1/04)		100	FINA	L 6/1	
Location	TIME	BER	LOT 3	145	Landowner
Town New Salem	V Inco		- 3	3138	SECTION B Name DCR - Division of Water Supply Protection
Road Moosehorn				100	Mailing Address 485 Ware Rd.
Acres63 Vol. MBF 83.8V	/ol. Cds. 65	sed Start V	ol. Tons	358	Town, State, Zip Belchertown, MA 01007
101.1111		_		1000	Phone 412-323-6921
Plan Preparer					Ch61 61A 61B Stew *Case #
Plati Flebater			_		CR CR Holder
Name Derek Be				_	Licensed Timber Harvester**
Address DCR - D	Div. of Water	Supply I	rotectio	in	
21 Elm S	St.				Name Allard Bris. Lyshy
Town, State, Zip Ne	w Salem, MA	01355		_	Address Breckmidge Md
Phone 971	8-544-6343				Town, State, Zip Hadley, MA 01035
Type of Preparer LF				_	Phone 4/3-586-9938
*Mass. Forester Licen					Mass. Lic. Harvester # /5/3
*Required for land un	der Ch61, Ch	61A or F	Forest St	ewardship	**This information may be supplied after the plan is approved, but before work begins.
Stream Crossin	ngs				Harvesting in Wetlands
Indicate location on map	SC-1	SC-2	SC-3	SC-4	Indicate location on map HW-1 HW-2 HW-3 HW-4
Type of Crossing	CU	BR	CU	BR/PO	Forest Type (see pg 2)
Existing Structure	Y	N	Y	N	Acres to be Harvested
Type of Bottom	ST	ST/Mu	ST	ST/Mu	Resid. Basal Area

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing	CU	BR	CU	BR/PO
Existing Structure	Y	N	Y	N
Type of Bottom	ST	ST/Mu	ST	ST/Mu
Bank Height (ft)	<1'	<1'	<1'	1'
Stabilization	co	co	CO	CO

Wetland Crossings

Indicate location on map	WC-1	WC-2	WC-3	WC-4
Length of Crossing	1			
Mitigation				
Stabilization	1			

Filter Strips

Indicate location on map	FS-1	FS-2	FS-3	FS-4
Width (50', 100', or VA)	100*	50"	50"	50"

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)		1 -170	MAN TO	35
Acres to be Harvested				
Resid. Basal Area (>50%?)				19

Service Forester Comments

-	7 7	1 . 1	1000	1
reas	to be	retained	n 57-3	Glong
hufter	Strips	re flagge	ed in Pint	<
IE 8	122/15	0		

Type of Pr LF Mas TH Lie TB Tim LO Land	s. Lic. For. Tim. Har ber Buyer downer	Type of C CU 'Cul BR Brix FO Fon PO Pole	lvert dge d ed	tabilizat E Sec MU Mu TO Cor T Sto	ed ulch oeduroy one	FR	Frazen Dry Other	ST MU GR	Stony Mud Gravel	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 perm
OT Othe		OT Oth	ner 1	ill Hay	y Bales				Other	Consult MA Forestry BMP Manual for further information.

Products to be Harvested*

Mbf/Cds Mb@Cds Red Maple White Pine 11.8 Red Pine 13.1 Sugar Maple Pitch Pine Red Oak 8.1 45.2 Black Oak Hemlock White Oak 0.2 Spruce Other Hdwd. 1.6 Other Sftwd. 83.8 Total Mbf White Ash 65 Reech Cardwood (Cds) White Birch SW Pulp (Tons) 358 25 HW Pulp (Tons) B & Y Birch 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	HK/WP	OH	RP	WP/RP
Acres -	39.5	19	.5	4
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	CT
Type of Cut	SE	SE	CT	SE
Source of Regeneration	SE/AD	SE/AD	SE	SE/AD

Land	owner	Sign	nature

The most important information on a cutting plan is the Landowner's objective, as this will determine which trees will be harvested an 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.

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 result in a forest dominated by poor quality and low value spec

pg 4 of 5

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.

and work	8-10-15	
Signature of landowner(s)	Date	

-	Signature of autowner(s)						
	Determination and Status				Final Report and Comments		
Service Forester	Cutting Plany Signature of Se Extension	rvice Forester/Direc	<u> 4/U</u>	2017 2017 8/27/15 Date Ser. For. Ints.	and all relevant sta	at the afore described Forestutes have been substanting	11y complied with. 5/6/17
Codes	Egrest Types WP White Pine WK WP/Hem WH WP/Hew WO WP/Oak RP Red Pine SR Red Spruce	HK Hemlock HH HemvHdwd BC Blck Cherry BB Bee/Bir/Ma OH Osk/Hdwd OR N Red Osk		Designation of Trees CT Cut Tree LT Leave Tree SB Stand Boundary OT Other Landowner Objective LT Long-term Mgs. ST Short-term Far.	Type of Cut SH Shelterwood ST Seed Tree CC Clear Cut SE Selection SA Salvage SN Senitation	Intermediate Harvests: CT Commercial Thin NT Non-Com Thin Non-Standard Systems:* HG Highgrade* DL Diameter Limit* OT Other:	Source of Resemention AD Advanced SB Natural Seed PL Plant CO Coppice DS Direct Seed OT Other

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.

Landowner	DCR-DWSP-Quab
Town	New Salem
File Number	

TIMBER LOT 3140 3138 CECTION R

		ngs (patches) and one half acre (0.5) thi	4 N	
reduction of di	seased/dying hemlock is t	he primary goal of the project and the m	ain criterion used in sighting opening	s. A secondary compone
is to reduce pla	antation red pine which als	so has pathogen vulnerability. The open	ings cover 6 acres, range between 0.1	and 0.5 acres and have a
average of 0.3	acres. Live and dead snag	s are present in most openings and have	been reserved (not marked) for habit	at and structure.
Use t	this Section to describe the	types of trees to be harvested and/or re in the Stand Treatment Sect	tained if Other (OT) was used for "Do	esignation of Trees"
Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Remove
				and the same
				-
		_		
Stand No.	Use this Section to descrives was Source of Regeneration	ribe how Chapter 132 requirements will used for the "Type of Cut" in the Cuttin; How will Regeneration be obtain If using AD - Describe the species	g Standards Section on page 4.	
	Source of	How will Regeneration be obtain If using AD - Describe the species.	g Standards Section on page 4.	be protected
	Source of Regeneration	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source of	g Standards Section on page 4. ed/protected? present and how the regeneration will the seed and the number of seed tree	be protected
	Source of Regeneration	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source of	g Standards Section on page 4. ed/protected? present and how the resenension will	be protected
	Source of Regeneration	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source of	g Standards Section on page 4. ed/protected? present and how the regeneration will the seed and the number of seed tree	be protected
	Source of Regeneration	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source of	g Standards Section on page 4. ed/protected? present and how the regeneration will the seed and the number of seed tree	be protected
	Source of Regeneration	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source of	g Standards Section on page 4. ed/protected? present and how the regeneration will the seed and the number of seed tree	be protected
	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source o	g Standards Section on page 4. ed/protected? present and how the regeneration will the seed and the number of seed tree	be protected s/acre
	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source of	g Standards Section on page 4. ed/protected? present and how the regeneration will the seed and the number of seed tree	be protected s/acre
	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source o	g Standards Section on page 4. ed/protected? present and how the regeneration will the seed and the number of seed tree	be protected s/acre
	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtain If using AD - Describe the species If using SE - Describe the source o	g Standards Section on page 4. ed/protected? present and how the regeneration will the seed and the number of seed tree	be protected s/acre

DCR-DWSP-Quab.

Narrative Page Continued

New Salem

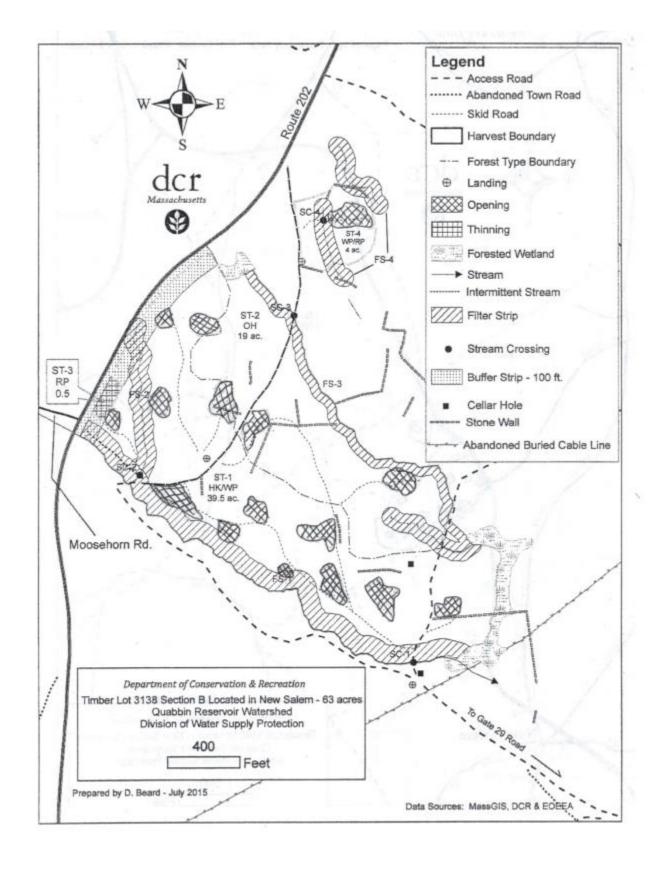
Timber Lot 3140 3138 SEC. B

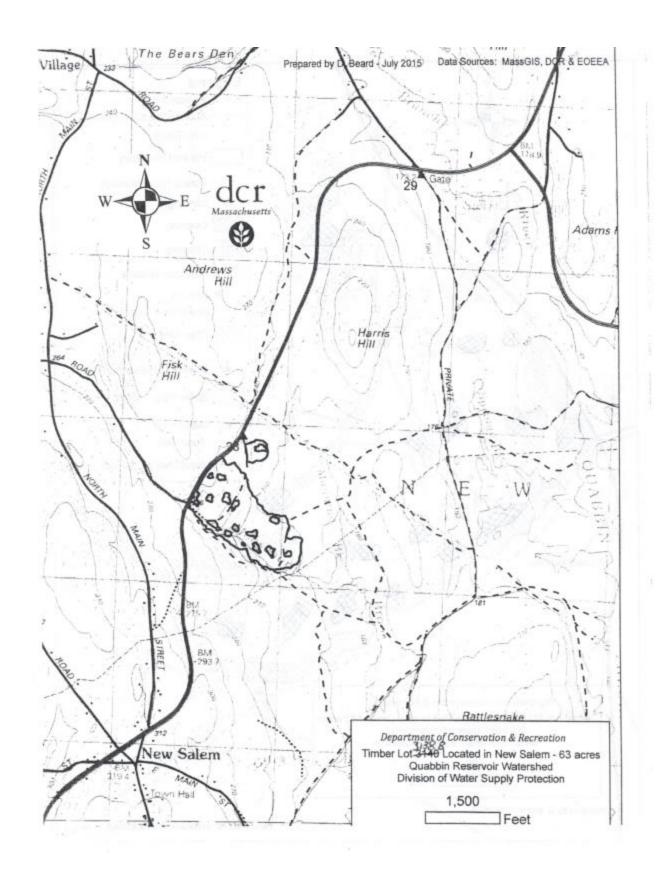
Stream Crossings - Cont.

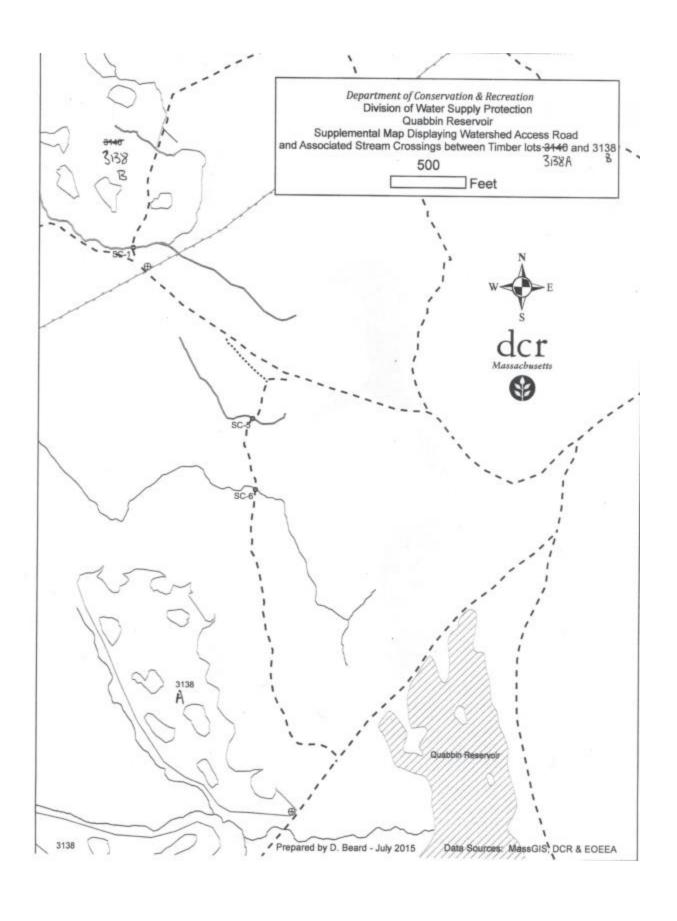
	SC-5	SC-6
Type of Crossing	FO/BR	CU
Existing Structure	N	Y
Type of Bottom	ST	ST
Bank Height (ft.)	<1'	<1'
Stabilization	CO	CO

BMPs cont.

Supplemental map is being filed displaying stream crossings on an existing watershed access road the DWSP may use to operationally link timber lots 200 and 3138. Travel of the road by logging equipment would be a onetime event when moving to one of the projects after completion of the other.







COMMONWEALTH OF MASSACHUSETTS

Department of Conservation and Recreation Division of State Parks and Recreation

FILE # 204-7749-16





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 - Division of Mater Supply Protection Ware Rd., Beldechama, M.A. in accordance with the (Address)

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

Approval Date 8/27/2015

Director's Agent Fletcher Clark

DCR Phone No. (413) 262-2307 (forester) (413)545-5752 (clerk)

ISSUED BY:

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

Figure 2: Pre Harvest Photograph (July, 2015)



Post Harvest (April 2017)



After 1 growing season, (August 2017)



After 2 growing seasons (July 2018)



Pre Harvest Photograph (July, 2015)



Post harvest (April 2017)



After 1 growing season (August 2017)



After 2 growing seasons (July 2018)



Pre Harvest (July 2015)



Post Harvest (April 2017)



After 1 growing season (August 2017)



After 2 growing seasons (July, 2018)



Pre harvest (July 2015)



Post harvest (April 2017)



After 1 growing season (August 2017)



After 2 growing seasons (July, 2018)



Pre harvest (July 2015)



Post harvest (April 2017)



After 1 growing season (August 2017)

After 2 growing seasons (July 2018)



Pre harvest (July 2015)



Post harvest (April 2017)



After 1 growing season (August 2017)



After 2 growing seasons (July, 2018)

