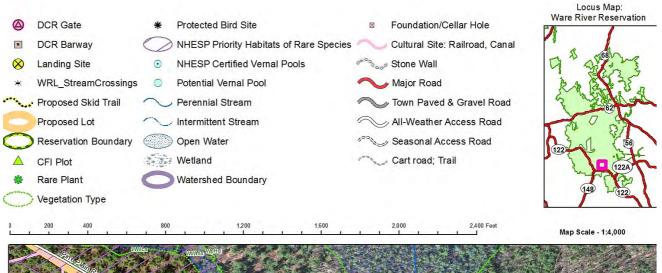


# FY2017 Proposed Forestry Project WR-17-7-1

Ware River Reservation Proposed Forestry Lot Review





File Path: W:\GIS\Projects\Forestry Section\ProposedHarvestLots\WR EnvReview.mxd

Date: 2/16/2016

# **DCR-DWSP** Forestry Lot Proposal wr-17-7-1 for Public Review

Lot Review Nu	mber <u>wr-17-7-1</u>		Date:	2/4/2016	Forester:	<u>Canfield</u>
Watershed:	WR	Acres	48			
Boundary Description:	2			,		rail to the south and west, a e walls adjacent to a

#### **GENERAL LOT DESCRIPTION**

	Overstory Type(s)	Acres		Understory Type(s)
Dominant	Red pine	23	Dominant	Tree seedlings/saplings dominate site
Secondary	White pine/oak	20	Secondary	
Other				

**Description of forest** This lot consists of a 23 acre red pine stand to the west, and a 20 acre white pine/hardwood stand to the east.

Red pine - This is a planted planted red pine stand that has been harvested in at least twice. The overstory red pine is mature and good quality. This stand was part of harvest lot #175, a shelterwood cut that removed 60 - 70 ft<sup>2</sup> basal area/acre of mostly low value red and white pine, and was completed in 6/92. The stand was revisited in 1998 as part of harvest lot #264, a seed tree cut, that removed approximately 60 ft<sup>2</sup> basal area/acre of sawlog red and white pine, leaving approximately 20 -30 ft<sup>2</sup> basal are/acre of mostly good quality healthy saw log size red pine. The stand now is two aged, with approximately 30 ft<sup>2</sup> basal are/acre of overstory good quality red pine. The sub canopy consists of low quality white pine, hemlock, and advanced regeneration hardwoods. Pitch pine is present in the area. Approximately 40 ft<sup>2</sup> BA/acre of the white pine is 5 - 12 inches dbh.

White pine/oak - This stand transitions from white pine dominated adjacent to the red pine stand to more oak/hardwood dominated up hill towards Pine Plains Rd. It is overstocked with approximately 120 ft^2 BA/acre, with approximately 40 ft^2 BA/ acre of acceptable growing stock. The white pine quality is low to fair. Oak quality is fair to good. Low quality red maple and black cherry are also present. Regeneration present is white pine, red maple, and oak.

Highbush and low bush blueberry, juniper, raspberry, blackberry, and hawthorn are present. This site is considered suitable for conversion to pitch pine/white oak barren.

Describe invasives present, assessmentStechniques used, and concerns:li

Some buckthorn present at landing. Invasives not observed but are most likely present within stands.

#### SOILS

% Excessively drained soils: % Well drained soils:

% Poorly to Very Poorly drained soils:

#### Further comments on soil

Soils present include 254B Merrimac fine sandy loam, somewhat excessively well drained, and 927C Montauk-Scituate-Canton association, extremely stony, well drained.

#### **WETLANDS**

Wetlands present?:	Yes	
Streams present?:	Yes	
Vernal pools present?:	Yes	
Seeps present?:	None known	

Are stream crossings required?:	
Are wetlands crossings required?:	
Is logging in filter strips planned?:	
Is logging in wetlands planned?:	

No	
No	
Yes	
No	

47

53

0

# DCR-DWSP Forestry Lot Proposal wr-17-7-1 for Public Review

**Further comments** Variable width filter strip will be applied to the stream on the west edge of the lot so that some red pine can be harvested where it occurs within the filter strip. There is one known vernal pool and another potential vernal pool within the lot. All vernal pools will be buffered according to state BMP's and DWSP's CLMP.

#### SILVICULTURE

Acres in Intermediate cuts:	0
Acres in prep/establishment cuts:	0
Acres in Regeneration cuts:	15
Average regen opening size:	1
Maximum regen opening size:	4.5

#### Description of advance regeneration in proposal area:

Beneath the red pine stand is a thick layer of low quality white pine, hemlock, and advanced regeneration hardwoods. The regeneration beneath the pine/oak stand is white pine, red maple, and mixed oak.

#### General comments on silviculture proposed:

Within the red pine stand, the scattered overstory red pine will be removed while preserving as much of the abundant regeneration as possible. There is enough 5 + inch dbh regeneration currently present that a large opening will not be created as long as the regeneration is carefully protected. All skid trails will be marked and spaced throughout this stand to ensure that harvesting equipment stays on defined trails and regeneration in between trails is protected.

Within the white pine/oak stand 5 to 10 small (1/4 acre to 1 acre) groups will be established targeting areas with low quality white pine and hardwood for removal. At least 5 ft of basal area per acre will be retained in groups.

#### Subwatershed Analysis

Sub- Watershed Number	Total DCR-owned Acres in this Sub- Watershed	Acres Regenerated on DCR Land in the last 10 years in this Sub- Watershed	Total DCR-owned Acres Remaining for Regerating Up to the 25%/10 Year Limit for this Sub- Watershed	Acres in this Sub- Watershed that are part of this proposed lot
8061	2654	76.5	587	45.5
8021	1147	60	227	2.5

#### Additional comments on Subwatershed analysis

Parker Subshed 8061 - 76.5 acres regenerated in last 10 years, 153.7 acres worked, lot 4385 currently sold, not harvested will add another 5.1 acres regenerated on 34 acres worked. Proposal wr-17-7-2, 137 acres proposed, is also within subshed. Portions of proposals wr-16-3-1 (5 acres) wr-16-4-2 (54 acres) and wr-16-10-3 (76 acres) are also located within the subshed.

Rutland State Park Subshed 8021 - 60 acres regenerated on 234 acres worked in the last 10 years.

#### HARVESTING LIMITATIONS

Forwarder required: □ Feller/processor required: □

Steep slopes present?

**Comments on harvesting limitations:** 

CULTURAL	RESOURCES	5			
Foundations?:	None known	Stone Walls?:	Yes	Quarries?:	Unknown
Cellar holes?:	None known	Wells?:	None known	Dams?:	None known

# DCR-DWSP Forestry Lot Proposal wr-17-7-1 for Public Review

#### **Comments on Cultural Resources:**

Stone walls are present. Stone walls may have to be crossed to access some areas. Barways are present and will be used where possible. DCR's Archeologist has identified this lot as Not Sensitive, with recommendations to flag, map and avoid any cultural resources that may be located.

#### WILDLIFE RESOURCES:

Nests?: None known

Comments on any Unique or Unusual Sites or Habitats on the Lot:

Site suitable for pine/oak barrens restoration per NHESP.

#### General Wildlife comments:

#### **RARE/ENDANGERED SPECIES**

At the time of posting all available NHESP maps and data had been consulted and there were no Estimated or Priority Habitats for listed species found in the lot proposal area. Should new information become available DWSP will follow recommendations as needed.

#### **ENVIRONMENTAL QUALITY ENGINEERING**

#### **Comments on EQ Issues:**

No expected water/environmental quality issues for the proposed activity. Specific requirements and BMPs for reducing the potential threats from erosion or pollution will be included in the harvesting permit.

#### FOREST ACCESS ENGINEERING

Gravel needed: 
Landing work needed: 
Culverts needed:

Work needed on permanent bridges:

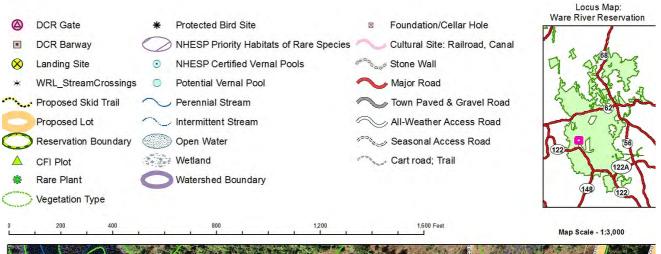
Beaver Issue:

#### Further comment on access needs:

Existing infrastructure is expected to accommodate all access needs for this activity.

# FY2017 Proposed Forestry Project WR-17-17-3

Ware River Reservation Proposed Forestry Lot Review





File Path: W:\GIS\Projects\Forestry Section\ProposedHarvestLots\WR EnvReview.mxd

Date: 2/16/2016

Lot Review	Number <u>v</u>	<u>wr-17-17-3</u>	Date:	2/4/2016	Forester:	Canfield		
Watershed:	,	WR Acres	31					
Boundary Description:This lot is bound by the Ware River and associated wetlands to the west, Potash Brook to the north, Coldbrook Rd to the east, and a stone wall and wetlands to the south.								
GENERA	L LOT D	ESCRIPTION						
	Overetory	Turno(a)	Acres		Understory Typ	$\mathbf{v}_{\mathbf{c}}(\mathbf{c})$		
Dominant	Overstory White pine		27	Dominant		aplings dominate site		
Secondary	White pine		4	Secondary				
Other		, 		Secondary				
Description ( composition/		This lot is mostly do	-		-			
		mature white pine w of low quality co do ft^2 BA/acre of low maple, white pine, a abundant close to Co The rest of the lot is mature white pine, th maple, black cherry, average of 170 ft^2 of which is red oak. stand, some of which evidenced by old ski captured by the harv red maple, and red s	ith approxim minant hardw quality co de nd hemlock. oldbrook rd. more of a w here is a high paper birch. BA/acre. Ap There is als n appears to id roads and est database pruce is press esent include	hately 180 ft^2 BA/a wood, mostly black ominant european la Glossy buckthorn hite pine/hemlock s her component of cc , and musclewood a pproximately 20 ft^2 o a component of la have relatively good stumps, but not any . Regeneration, cor sent in adequate abu	acre. There is app cherry and red march. Regeneration is present through tand. Though still o dominant hemlo re also present. The 2 BA/acre is acce urge 36"+ dbh wh d form. The stand time recently. The sisting of white pundance throughout	here is no harvest on record pine, mixed oak, hemlock,		
		Cove Rd to the west	. Some drain ditch from C	nage ditches associa Coldbrook Rd heade	ated with the old red the same direct	rook downhill to Sibley road are present. There is tion near the proposded		
Describe inv techniques t		ent, assessment oncerns:				but most abundant close to ry was also observed on the		
<u>SOILS</u>								
	% Excessively drained soils:       87         % Well drained soils:       0         % Poorly to Very Poorly drained soils:       0         13       13    Further comments on soil Soils present include 253B & C Hinckley loamy sand (approx 70% of the lot) excessively well drained, and 254B Merrimac fine sandy loam (approx 17% of the lot) somewhat excessively drained.							
			wetla		e lot. Harvesting	Potash Brook and the g on these soils will be		

# DCR-DWSP Forestry Lot Proposal wr-17-17-3 for Public Review

#### WETLANDS

on wetlands:

Wetlands present?:	Yes	Are stream crossings required?:	Yes
Streams present?:	Yes	Are wetlands crossings required?:	No
Vernal pools present?:	Yes	Is logging in filter strips planned?:	Yes
Seeps present?:	None known	Is logging in wetlands planned?:	No

**Further comments** A stream crossing will be required to access approximately 4 acres of old field white pine on the south end of the lot adjacent to Coldbrook Rd. It could be possible to build a second landing within that area to avoid crossing the stream, but the low volume and value of wood to be harvested within the stand makes that option economically difficult.

> Two potential vernal pools were found in the northwest section of the lot. Vernal pools where they exist will be buffered according to state law and DWSP's CLMP.

There is an old road that leaves Coldbrook Rd and parallels Potash Brook downhill to Sibley Cove Rd to the west. Some drainage ditches associated with the old road are present. There is also an old drainage ditch from Coldbrook Rd headed the same direction near the proposded landing. It does not appear to be running any water.

## **SILVICULTURE**

Acres in Intermediate cuts:	0
Acres in prep/establishment cuts:	0
Acres in Regeneration cuts:	8
Average regen opening size:	1.5
Maximum regen opening size:	3

#### **Description of advance regeneration in proposal area:**

Regeneration consisting of white pine, mixed oak, hemlock, red maple, and red spruce is present in adequate abundance throughout most of the proposal area.

Shrubs and herbs present include high bush blueberry, ground pine, hay scented fern, hawthorn, and some native honeysuckle.

#### General comments on silviculture proposed:

The low quality white pine stand adjacent to Coldbrook Rd to the south of the lot will be a 2 to 3 acre opening. The size will be limited by filter strips from streams and the pond that are present. Some partial harvesting will be done in accordance to variable width filter strip standards where soils are well drained. At least 5 ft<sup>2</sup> basal area/acre will be retained for aesthetic purposes. Retained trees will be comprised of well formed healthy crowned white pine where possible, as well as healthy crowned hardwood, particularly black cherry.

Several 0.5 to 2 acre groups will be established within the white pine/hemlock stand. At least two groups will be over an acre, with 4 to 6 groups between 0.5 and 1 acre. Groups will be targeted in areas where overstory white pine quality is the poorest. Many of the larger, good quality white pine stems will be retained in small groups to help meet our late-seral structure goals. Within groups, at least 5 ft<sup>2</sup> basal area/acre will be retained for aesthetic purposes. Retained trees will consist of healthy crowned oaks where possible.

#### **Subwatershed Analysis**

Sub- Watershed Number			Total DCR-owned Acres Remaining for Regerating Up to the 25%/10 Year Limit for this Sub- Watershed	Acres in this Sub- Watershed that are part of this proposed lot
8063	2816	121	583	31

#### Additional comments on Subwatershed analysis

Ware Subshed 8063 - 121 acres regernerated in last 10 years on 186 acres worked. Lot # 4386 sold but not yet cut will add 4.5 acres regenerated on 21 acres worked. Proposed lot wr-16-3-1 (36 acres) is also within subshed.

This DCR-DWSP Forestry Lot Proposal wr-17-17-3 is intended for public review

HARVESTING LIMITATIC Forwarder required:	DNSSteep slopes present? □		
Comments on harvesting limitation	15:		
CULTURAL RESOURCES			
Foundations?: None known	Stone Walls?: Yes	Quarries?:	Unknown
Cellar holes?: None known	Wells?: None known	Dams?:	None known
Comments on Cultural Resources.			

#### Comments on Cultural Resources:

A low wall along Coldbrook Rd will have to be breached to establish a landing on Coldbrook Rd. DCR's Archeologist has identified this lot as Not Sensitive, with recommendations to flag, map and avoid any cultural resources that may be located.

#### WILDLIFE RESOURCES:

Nests?: Stick nests

Comments on any Unique or Unusual Sites or Habitats on the Lot:

#### **General Wildlife comments:**

Recent beaver activity noticed within the stand. Sapling oaks being harvested. Coyote, deer, and moose sign throughout the lot.

#### **RARE/ENDANGERED SPECIES**

NHESP has determined that certain state-listed sensitive species or habitats may exist within the lot proposal area. To protect them from unnecessary disturbance, detailed information regarding affected species and their locations is not included in this report. DWSP will coordinate with NHESP and follow recommendations to protect these species during the proposed activity.

## **ENVIRONMENTAL QUALITY ENGINEERING**

#### **Comments on EQ Issues:**

No expected water/environmental quality issues for the proposed activity. Stream will be crossed in accordance with Land Management Plan requirements. Specific requirements and BMPs for reducing the potential threats from erosion or pollution will be included in the harvesting permit.

#### FOREST ACCESS ENGINEERING

Gravel needed: Landing work needed:

Culverts needed: 

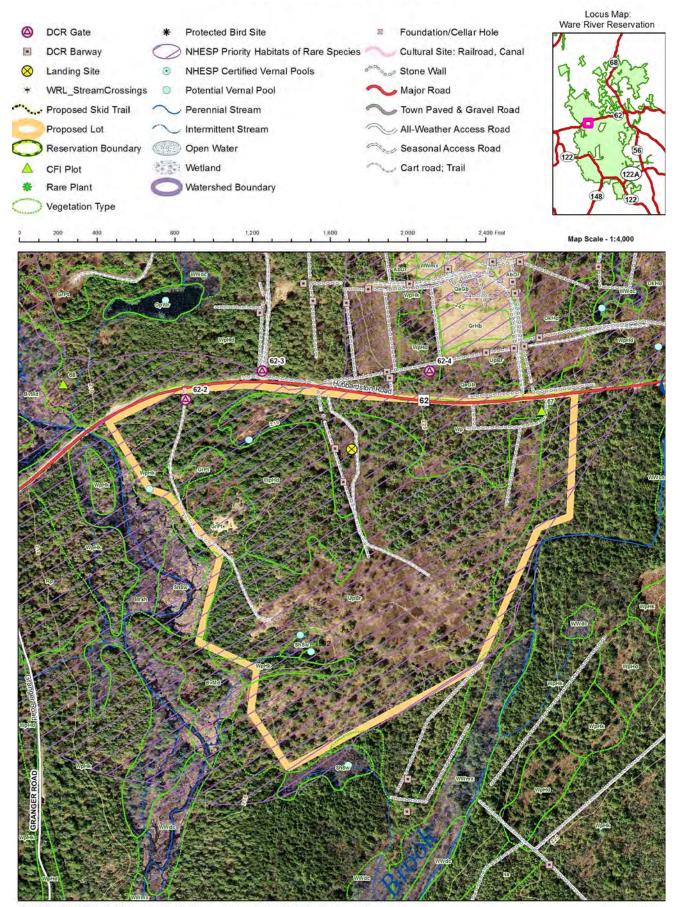
Further comment on access needs:

Work needed on permanent bridges: Beaver Issue:

69

# FY2017 Proposed Forestry Project WR-17-21-4

Ware River Reservation Proposed Forestry Lot Review



FilePath: W:\GIS\Projects\Forestry\_Section\ProposedHarvestLots\WR\_EnvReview.mxc

Date: 3/7/2016

DCR	-DWSP	Forestry	Lot Proposal	wr-17-21-4	for Public Review
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Lot Review Nu	mber <u>wr-17-21-4</u>		Date:	3/2/2016	Forester:	<u>Canfield</u>
Watershed:	WR	Acres	67	]		
Boundary Description:	This is the area sout western boundary is boundary is a wetlar	the Burns				rn boundary is rt 62, the k, and the southern

## **GENERAL LOT DESCRIPTION**

	Overstory	Type(s)	Acres		Understory Type(s)
Dominant	White pine/	pitch pine	40	Dominant	Dry site - blueberry/huckleberry
Secondary	Oak, mixed	- dry site	7	Secondary	
Other				]	
composition/condition: acres qualit		acres has been propo	sed as wr-1 ith pockets	6-21-5 and hopefull of pitch pine, and 5	ng forest/brush. Another approximately 20 y sold at this point. What is left is low to 20 ft^2 BA/acre of mixed oak, mostly to present.

Describe invasives present, assessment techniques used, and concerns:

There is a heavy buckthorn presence throughout the lot, with barberry, bittersweet, burning bush, and autumn olive present near Rt 62.

#### SOILS

% Excessively drained soils:	
% Well drained soils:	

% Poorly to Very Poorly drained soils:

#### Further comments on soil

Most of area appears to have been stripped of top soil years ago. Whole are is situated on excellent quality gravel (where exposed is 3" minus). There is also evidence of past fires over much of site. 58 acres of the proposal 253 Hinckley loamy sand associations which are excessively drained. There are muck soils that are mapped adjacent to wetlands which will be avoided, including an old landing on the road adjacent to the stream to the west of the lot. That road and landing are not proposed to be used for the timber harvest, but may be needed for a prescribed burn.

#### WETLANDS

- Wetlands present?: Streams present?: Vernal pools present?: Seeps present?: No
  - Yes Yes Yes None known

Are stream crossings required?:	
Are wetlands crossings required?:	
Is logging in filter strips planned?:	
Is logging in wetlands planned?:	

No	
No	
Yes	
No	

Further commentsMultiple vernal pools are present. Pools were confirmed by NR last year during review on lot wr-16-<br/>21-5.

#### **SILVICULTURE**

Acres in Intermediate cuts: Acres in prep/establishment cuts: Acres in Regeneration cuts: Average regen opening size: Maximum regen opening size:

0
0
25
25
0

97

3

0

#### Description of advance regeneration in proposal area:

Information not applicable for this habitat restoration project. Goal will be to suppress regeneration and encourage heath habitat through burning.

#### General comments on silviculture proposed:

This is a heath restoration project to remove current forest where it exists and encourage heath habitat using mowing and prescribed burning.

Ideally all white pine, red maple, and black cherry on the site would be harvested. Oak, particularly white, will be retained where present to at least 5 ft<sup>2</sup> BA/acre. Where oak stocking is higher, lower quality oak may be harvested until canopy closure is 40% or less. Aspen will be retained to avoid root sprouting.

With existing heath and young forest, and lot 4389 (wr-16-21-5), an exemption from DWSP's current policy of not creating openings larger than 5 acres may be required. Draft CLMP may allow for this trype of habitat management without an exemption.

#### Subwatershed Analysis

Sub- Watershed Number	Total DCR-owned Acres in this Sub- Watershed	Acres Regenerated on DCR Land in the last 10 years in this Sub- Watershed	Total DCR-owned Acres Remaining for Regerating Up to the 25%/10 Year Limit for this Sub- Watershed	Acres in this Sub- Watershed that are part of this proposed lot	
8058	2158	65.7	473.8	27	

#### Additional comments on Subwatershed analysis

Sub-Watershed # 8058 - See also proposed lot wr-16-31-6 (74 acres in subshed) and wr-16-21-5 (20 acres in subshed)

#### HARVESTING LIMITATIONS

Forwarder required:	

Steep	slopes
-------	--------

Feller/processor required:

present?

**Comments on harvesting limitations:** 

Due to the habitat objectives, whole tree harvesting with utilization down to at least 3" is preferred.

#### **CULTURAL RESOURCES**

Foundations?: None known	Stone Walls?:	Yes	Quarries?:	Unknown
Cellar holes?: None known	Wells?:	None known	Dams?:	None known

#### **Comments on Cultural Resources:**

Stonewalls are present and will be protected. Existing barways will be used where necessary to access lot. DCR's Archeologist has identified this lot as Not Sensitive, with recommendations to flag, map and avoid any cultural resources that may be located.

#### WILDLIFE RESOURCES:

Nests?: None known

#### Comments on any Unique or Unusual Sites or Habitats on the Lot:

Heath of "global significance" is present on the lot. Object of the harvest will be to maintain and expand heath characteristics of the area.

#### **General Wildlife comments:**

Heavy moose and deer activity.

#### **RARE/ENDANGERED SPECIES**

This DCR-DWSP Forestry Lot Proposal wr-17-21-4 is intended for public review

# DCR-DWSP Forestry Lot Proposal wr-17-21-4 for Public Review

NHESP has determined that certain state-listed sensitive species or habitats may exist within the lot proposal area. To protect them from unnecessary disturbance, detailed information regarding affected species and their locations is not included in this report. DWSP will coordinate with NHESP and follow recommendations to protect these species during the proposed activity.

## **ENVIRONMENTAL QUALITY ENGINEERING**

#### **Comments on EQ Issues:**

No expected water/environmental quality issues for the proposed activity. Specific requirements and BMPs for reducing the potential threats from erosion or pollution will be included in the harvesting permit.

#### FOREST ACCESS ENGINEERING

Gravel needed: 
Landing work needed: 
Culverts needed:

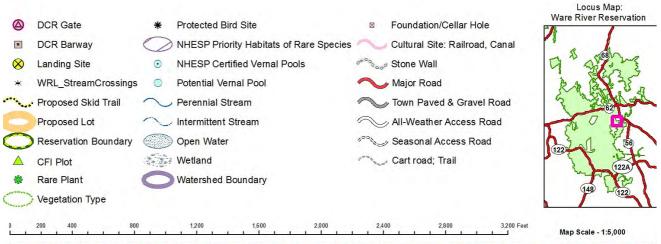
Work needed on permanent bridges: Beaver Issue:

Further comment on access needs:

Existing infrastructure is expected to accommodate all access needs for this activity.

# FY2017 Proposed Forestry Project WR-17-27-5

Ware River Reservation Proposed Forestry Lot Review





File Path: W:\GIS\Projects\Forestry Section\ProposedHarvestLots\WR EnvReview.mxd

Date: 2/16/2016

# DCR-DWSP Forestry Lot Proposal wr-17-27-5 for Public Review

Lot Review Nu	mber <u>wr-17-27-5</u>	Date:	2/4/2016	Forester: <u>C</u>	Canfield
Watershed:	WR Acres	62	]		
Boundary Description:	This lot is bound by Interva and a brook to the west. N need to be located, hopeful location of boundary in unc	o boundary evidently with the help	ence was seen in	the field around the	house lot. That line will

## **GENERAL LOT DESCRIPTION**

	<b>Overstory Type(s)</b>	Acres		Understory Type(s)
Dominant	White pine/hardwood	38	Dominant	Tree seedlings/saplings dominate site
Secondary	White pine/hemlock	24	Secondary	
Other				

**Description of forest** No past harvests are recorded on this lot, though old skid trails and stumps are present. **composition/condition:** 

The white pine/hardwood stand adjacent to Intervale Rd is mostly mature old field pine, white red and white oak, red maple, aspen, and pitch pine are also present. The quality is low to fair. The stand is over stocked, with an average BA/acre of 160 ft^2. Pitch Pine was present through out the pine stand, especially near Intervale Rd. Much of the PP has been outcompeted by white pine and is dead or severely declining. Several large PP are still alive and fairly healthy.

The white pine/hemlock stand is fully stocked. The overall quality is low. The average BA/acre is approximately 120 ft<sup>2</sup>, with the majority of BA being hemlock. The hemlock looks healthy with no HWA observed. White pine, red and white oak, and red maple are also present.

Mountain Laurel, low bush blueberry, ground pine are present.

Describe invasives present, assessment	No invasive shrubs obeserved on the lot but may be present. Small groups
techniques used, and concerns:	of Mountain Laurel present.

# SOILS % Excessively drained soils: 1 % Well drained soils: 80 Soils present include 927 C Montauk-Scituate-Canton association extremely stony (roughly 64% of lot) moderately well drained, 91

extremely stony (roughly 64% of lot) moderately well drained, 915E Mauntauk-Canton association extremely stony (roughly 13% of lot) well drained, 902E Charlton-Paxton association extremely stony (roughly 3% of lot) well drained, and 253B Hinckley loamy sand (roughly 1% of lot) excessively drained.

918B Ridgebury-Whitman association extremely stony (roughly 12% of lot) poorly drained soil and some muck soils are mapped adjacent to the brook to the west of lot and adjacent to intervale road to the east of the house lot. Harvesting on these soils will be avoided as much as possible where they exist.

#### **WETLANDS**

Wetlands present?:	Yes	Are stream crossings required?:	Yes
Streams present?:	Yes	Are wetlands crossings required?:	Yes
Vernal pools present?:	Yes	Is logging in filter strips planned?:	Yes
Seeps present?:	Yes	Is logging in wetlands planned?:	No

This DCR-DWSP Forestry Lot Proposal wr-17-27-5 is intended for public review

# DCR-DWSP Forestry Lot Proposal wr-17-27-5 for Public Review

Further comments on wetlands:	A small seasonally wet area exists directly behind the landing. The area was crossed in previous logging operations. It will be avoided as much as possible during this operation but equipment may
on wettands.	have to cross a narrow piece (20-50') of it to access the lot. Bridges and/or brush will be used to
	armor any crossing. A variable width filter strip will be applied to the stream on the western edge of
	the lot. Some harvesting and a skid trail may be located on the outside edge of the filter strip,
	especially where the boundary line gets close to the filter strip. There is at least one potential vernal
	pool within the lot. All vernal pools will be buffered according to state BMP's and DWSP's CLMP.
	A seep was found just south of the boundary line of the abutter to the north and will be buffered
	appropriately.

#### **SILVICULTURE**

Acres in Intermediate cuts:	0
Acres in prep/establishment cuts:	0
Acres in Regeneration cuts:	10
Average regen opening size:	1
Maximum regen opening size:	2

#### Description of advance regeneration in proposal area:

Regeneration in the white pine/hardwood stand is adequate and consists of white pine, hemlock, oak, and red maple. Regeneration is sparser under the white pine/hemlock stand, and consists mainly of hemlock, though pockets of white pine and oak regeneration are present.

#### General comments on silviculture proposed:

1/2 to 2 acre group openings will be established. Larger groups will be targeted where low quality white pine dominates. One or two up to 2 acre groups will be located in the white pine hardwood stand, along with several openings of about an acre. Surviving pitch pine will be released as much as possible. All groups will retain 5 - 10 ft<sup>2</sup> of healthy, large crown trees, especially oak where possible. The smaller openings will be established mostly in the white pine/hemlock stand and will target patches of low quality white pine, hemlock, and red maple, while retaining as much oak and well formed white pine as possible.

#### Subwatershed Analysis

Sub- Watershed Number	Total DCR-owned Acres in this Sub- Watershed	Acres Regenerated on DCR Land in the last 10 years in this Sub- Watershed	Total DCR-owned Acres Remaining for Regerating Up to the 25%/10 Year Limit for this Sub- Watershed	Acres in this Sub- Watershed that are part of this proposed lot
8039	2159	81	458	16

#### Additional comments on Subwatershed analysis

East Branch Ware Subshed 8006 - 16 acres regenerated on 43 acres worked in last 10 years.

West Branch Ware Subshed 8039 - 81 acres regenerated on 86 acres worked in last 10 years.

#### HARVESTING LIMITATIONS

Forwarder required: 🗌

Feller/processor required:

Steep slopes present?

**Comments on harvesting limitations:** 

CULTURAL RESOUR	CES		
Foundations?: None know	n Stone Walls?: Yes	Quarries?:	Unknown
Cellar holes?: Yes	Wells?: None known	Dams?:	None known

# DCR-DWSP Forestry Lot Proposal wr-17-27-5 for Public Review

#### **Comments on Cultural Resources:**

DCR's Archeologist has identified this lot as Not Sensitive, with recommendations to flag, map and avoid any cultural resources that may be located.

#### WILDLIFE RESOURCES:

Nests?: Stick nests

Comments on any Unique or Unusual Sites or Habitats on the Lot:

#### General Wildlife comments:

#### **RARE/ENDANGERED SPECIES**

NHESP has determined that certain state-listed sensitive species or habitats may exist within the lot proposal area. To protect them from unnecessary disturbance, detailed information regarding affected species and their locations is not included in this report. DWSP will coordinate with NHESP and follow recommendations to protect these species during the proposed activity.

#### **ENVIRONMENTAL QUALITY ENGINEERING**

**Comments on EQ Issues:** 

#### FOREST ACCESS ENGINEERING

Gravel needed: 
Landing work needed: 
Culverts needed:

Work needed on permanent bridges:

Beaver Issue:

Further comment on access needs:

Existing infrastructure is expected to accommodate all access needs for this activity.