

# Forest Cutting Plan

Landowner Information Sheet for  
Chapter 132 – The Forest Cutting  
Practices Act, 304 CMR 11.00  
Effective Date: 1/1/04

Please Read **BEFORE** signing your Cutting Plan and keep  
for your own records.

If you have any questions, call the nearest DCR regional  
office (listed on page 2) or

**1 800-783-2311**

<http://www.state.ma.us/dem/forestry/programs/index.htm>

Landowner Information Sheet - Please Read Before Signing Cutting Plan

## The Massachusetts Forest Cutting Practices Act:

The Massachusetts Forest Cutting Practices Act (the “Act”) requires the improvement, maintenance, and protection of forest lands for the purpose of conserving water, preventing floods and soil erosion, improving the conditions for wildlife and recreation, protecting and improving air and water quality, and providing a continuing and increasing supply of forest products. The Act requires that a Forest Cutting Plan be filed with the appropriate Department of Conservation and Recreation (DCR) Regional office before harvesting timber to ensure that these values are protected. The cutting plan is meant to satisfy the law, reflect **your objectives for your land**, and help you understand the proposed harvest.

## Your Objectives:

The most important information on a Forest Cutting Plan is the landowner’s objectives. You will be asked to choose between Long-term Forest Management or a Short-term Harvest. This choice 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.** You will indicate your objective by checking one of two boxes in the Landowner Signature Section on page 4. Information on the two choices is provided below.

## Long-term Forest Management

Long-term Forest Management means the planned management of the forest to achieve one or more of the following objectives: produce immediate and maximize long-term income from harvesting activity, maintain or enhance wildlife habitat, improve recreational opportunities, protect soil and water quality, or produce forest specialty products such as maple syrup.

This strategy employs the science and art of forestry to help you manage your property to achieve multiple objectives, preserve future management options, and maximize economic return.

## Short-term Harvest

Short-term Harvest means the selection of trees for cutting based on the economic value of individual trees which commonly results in a residual forest stand dominated by poor quality trees and low value species. While this strategy produces immediate income and meets the **minimum** standards of the act, it does little to improve the future condition of the forest. A Short-Term harvest can limit future income and management options by:

- Removing trees before they reach economic maturity
- Leaving little value for future harvests
- Retaining slow growing or poor quality trees
- Removing mostly large diameter or high value species (such as oak) that could act as a seed source for growing future high quality trees or provide food for wildlife

**As the landowner, the type of management implemented on your property is ultimately your decision.** The DCR hopes you will consider taking a long-term management approach, but most importantly, we want you to make an informed decision by having your forest management options explained. DCR service foresters can provide more information about these options. Contact the nearest office listed below.

### Your Responsibilities

A harvest of forest products can have significant impact on your forest and your finances. The cutting plan identifies the standards for cutting, logging, and engineering minimally necessary for protecting the named public values established in the Forest Cutting Practices Act (MGL Ch 132). It is your responsibility to ensure that the harvesting activity complies with the approved forest cutting plan.

The DCR recommends that landowners protect their interests when selling timber. You are encouraged to explore all your options including hiring a licensed professional to plan, oversee or conduct your timber sale, obtaining competitive proposals from licensed foresters for their professional services or inviting competitive bids from licensed loggers. In addition, you should have a separate timber sale contract that addresses your own expectations for items such as payment schedules, road conditions, aesthetics, and other concerns not covered by the Forest Cutting Practices Act and its regulations.

### A Forest Management Plan (Chapter 61, Chapter 61A, Forest Stewardship Plans)

The DCR recommends the best way to make decisions about implementing long-term objectives is within the framework of a forest management plan prepared by a Massachusetts licensed forester. Forest management plans provide you with maps, forest stand descriptions, and management recommendations based on objectives that you identify. A forest management plan is one requirement to receive favorable tax treatment for your forestland under M.G.L. Chapter 61 or Chapter 61A. You may also elect to join the Forest Stewardship Program, in which cost-sharing may reimburse a portion of the expense of having a forest management plan prepared. This Stewardship Plan makes you eligible to receive additional cost-share to do a variety of forest management practices. Current DCR policy stipulates that forest cutting plans for forest lands classified under Ch. 61 or 61A or certified under the Forest Stewardship Program must be prepared by a Massachusetts licensed forester or the landowner. Contact a DCR service forester for more information on all of these programs, or visit our website at <http://www.state.ma.us/dem/forestry/programs/index.htm> and click on Service Forestry.

### DCR Regional Offices

Southeastern Massachusetts  
Region 1 Headquarters  
(508) 866-2580

Central Massachusetts  
Region 3 Headquarters  
(978) 368-0126

Berkshires  
Region 5 Headquarters  
(413) 442-8928

Northeastern Massachusetts  
Region 2 Headquarters  
(978) 369-3350

Connecticut Valley  
Region 4 Headquarters  
(413) 545-5993

If you are not sure which  
office to call dial:  
(800) 783-2311

# Forest Cutting Plan

and Notice of Intent under M.G.L.  
Chapter 132 – The Forest Cutting  
Practices Act, 304 CMR 11.00  
(Effective Date: 1/1/04)

## For DCR Use Only:

File Number \_\_\_\_\_ Case No. \_\_\_\_\_  
Date Rec'd \_\_\_\_\_ Nat. Hert. \_\_\_\_\_ / \_\_\_\_\_  
Earliest Start \_\_\_\_\_ Nat. Hert. Imp. \_\_\_\_\_  
River Basin \_\_\_\_\_ Pub. Dr. Wat. \_\_\_\_\_  
Gen. Obj. \_\_\_\_\_ ACEC \_\_\_\_\_

Site Information

### Location

Town Haverhill  
Road Lake Street  
Acres 65.5 +/- Proposed Start Date 9/15/2016  
Vol. MBF 116.352 Vol. Cds. 48+/- Vol. Tons 1,965+/-

### Plan Preparer

Name Gary H. Gouldrup, NEFCo  
Address 72 Townsend Street  
  
Town, State, Zip Pepperell, MA 01463  
Phone 978-433-8780  
Type of Preparer Mass. Licensed Forester - LF  
\*Mass. Forester License # 81  
\*Required for land under Ch61, Ch61A or Forest Stewardship

### Landowner

Name City of Haverhill  
Mailing Address C/o Robert Moore  
City Hall Room 300, 4 Summer Street  
Town, State, Zip Haverhill, MA 01830  
Phone 978-374-2334  
Ch61  Ch61A  CH61B  Stew  \*Case # \_\_\_\_\_  
FSC GC  CR  CR Holder \_\_\_\_\_

### Licensed Timber Harvester\*\*

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Town, State, Zip \_\_\_\_\_  
Phone \_\_\_\_\_  
Mass. Lic. Harvester # \_\_\_\_\_

\*\*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	SC-5
Type of Crossing	BR	BR	BRCU	NA	NA
Existing Structure	No	Yes	No		
Type of Bottom	STMU	Cement	MU		
Bank Height (ft)	0.5	2-3	1		
Stabilization	COMU	ST	ST		

### Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)	WP	MH	MH	OH
Acres to be Harvested	1+/-	3+/-	0.5+/-	0.5+/-
Resid. Basal Area (>50%?)	Yes	Yes	Yes	Yes

### Wetland Crossings

Indicate location on map	WC-1	WC-2	WC-3	WC-4	WC-5
Length of Crossing	60'+/-	30'+/-	75'+/-	30'+/-	15'
Mitigation	DRFR	DRFR	DRFR	DRFR	DRFR
Stabilization	COMU	COMU	COMU	ST	ST

### Filter Strips

Indicate location on map	FS-1	FS-2	FS-3	FS-4	FS-5
Width (50', 100', or VA)	VA	50	VA	50	NA

### Service Forester Comments

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge
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		GR Gravel
OT Other	OT Other	HB Hay 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 burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.

**Products to be Harvested\***

Species	Mbf/Cds		Mbf/Cds
White Pine	98.356	Red Maple	6.730
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	4.726
Hemlock		Black Oak	3.902
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	
White Ash	0.434	<b>Total Mbf</b>	116.352
Beech		<b>Cordwood (Cds)</b>	48+/-
White Birch		<b>HK Pulp (Cds)</b>	
B & Y Birch	2.204	<b>HW Pulp (Tons)</b>	
Black Cherry		<b>Chips (Tons)</b>	1,965+/-

\*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	OH	WP	MH	OH
Acres	5.0+/-	33.0+/-	7.5+/-	4.0+/-
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	CT
Type of Cut	SE	SE	SE	SE
Source of Regeneration	AD-SE	AD-SE	AD-SE	AD-SE

*See Page 5 for Stand 5*

**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 of landowner(s)

\_\_\_\_\_  
Date

**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  \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

**Final Report and Comments**

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

\_\_\_\_\_  
Signature of Service Forester/Director's Agent

\_\_\_\_\_  
Date

<u>Forest Types</u>				<u>Designation of Trees</u>				<u>Type of Cut</u>		<u>Source of Regeneration</u>			
WP	White Pine	HK	Hemlock	OM	Mixed Oak	CT	Cut Tree	SH	Shelterwood	<b>Intermediate Harvests:</b>	AD	Advanced	
WK	WP/Hem	HH	Hem/Hdwd	RM	Red Maple	LT	Leave Tree	ST	Seed Tree	CT	Commercial Thin	SE	Natural Seed
WH	WP/Hdwd	BC	Blck Cherry	BE	Beech	SB	Stand Boundary	CC	Clear Cut	NT	Non Com Thin	PL	Plant
WO	WP/Oak	BB	Bee/Bir/Map	SF	Spruce/Fir	OT	Other	SA	Selection	<b>Non-Standard Systems:*</b>		CO	Coppice
RP	Red Pine	OH	Oak/Hdwd	SM	Sugar Maple	<u>Landowner Objective</u>		SE	Salvage	HG	Highgrade*	DS	Direct Seed
SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt.	SN	Sanitation	DL	Diameter Limit*	OT	Other
						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

# Forest Cutting Plan

Narrative Page (Effective Date: 1/1/04)

Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4.

Landowner City of Haverhill

Town Haverhill

File Number \_\_\_\_\_

## Cutting Standards

Indicate location on map	ST-5	ST-6
Forest Type	WO	NA
Acres	16.0+/-	
Landowner Objective	LT	
Designation of Trees	CT	
Type of Cut	SE	
Source of Regeneration	ADSE	

### Stand Type 1 (ST-1):

This mixed oak and mixed hardwood stand will be treated as an improvement thinning by individual and group selection harvesting aimed at reducing the basal area by approximately 25-33%. The desire is to open the understory for new production of native tree species and to develop wind firm trees with healthy crowns in the overstory. Removing the target canker damaged black birch is a high priority.

### Stand Type 2 (ST-2):

This white pine forest type will be treated in a shelterwood harvesting system where individual and small groups will be removed from the overstory. The desire is to open the understory for new production of native tree species and to develop wind firm trees with healthy crowns in the overstory. Approximately 25-33% of the basal area and overstory volume will be removed in this harvest. A focus will be to harvest trees that have been damaged in past forest fires and are now hazard trees along trails.

### Stand Type 3 (ST-3):

This red maple and mixed hardwood forest type will be treated as an improvement thinning by individual and group selection harvesting aimed at reducing the basal area by approximately 25-33%. The desire is to open the understory for new production of native tree species and to develop wind firm trees with healthy crowns in the overstory.

### Stand Type 4 (ST-4):

This red oak and mixed hardwood forest type will be treated as an improvement thinning by individual and group selection harvesting aimed at reducing the basal area by approximately 25-33%. A focus will be to harvest trees that have been damaged in past forest fires and are now hazard trees along trails.

### Stand Type 5 (ST-5):

This white pine and mixed oak stand will be treated as an improvement thinning by harvesting individual and small groups of trees. The harvest will remove approximately 25-33% of the basal area and overstory volume, although recent forest fires have caused severe damage in sections of this stand and the harvesting intensity will be greater in these areas. A focus will be to harvest trees that have been damaged in past forest fires and are now hazard trees along trails.

Stand Treatment

# Forest Cutting Plan

Landowner City of Haverhill

## Narrative Page (Effective Date: 1/1/04)

Town Haverhill

Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4.

File Number \_\_\_\_\_

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.

- 1) Flag skid trails prior to harvesting. Skid timber when ground conditions are dry, frozen or otherwise stable.
- 2) Bridges will be used at all stream crossings except SC-2. SC-2 is an existing cement ford and spillway which will eventually be replaced.
- 3) Whole-tree chipping will be conducted during the harvest for aesthetics, fire protection, and wood utilization.
- 4) Install water bars on steep slopes where necessary

Information

Use this Section to describe the types of trees to be harvested and/or retained if Other (OT) was used for "Designation of Trees" in the Stand Treatment Section on page 4.

Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed
1	BB, RM, OM, WP, MH	All Sizes	Poor to Good	25-33% +/-
2	WP, MH, OM, MH	All Sizes	Poor to Good	25-33% +/-
3	MH, WP, RM, BB	All Sizes	Poor	25-33% +/-
4 & 5	WP, OM, BB, MH	All Sizes	Poor to Good	25-40% +/-

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.

Regeneration & Future Condition

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
1-5	AD	White pine and mixed hardwood saplings will be protected by directional felling by aid of using a feller-buncher. Skid trails will be flagged prior to harvesting to protect advanced regeneration.
	SE	The source of regeneration will be high quality white pine, mixed oak, and mixed hardwood trees.

Stand No.	Desired Future Condition
All	Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory See Forest Stewardship Management Plan on file with DCR.

SC-2 and WC-3 will be on the east side of the cement dam. This cement dam will eventually be rebuilt.

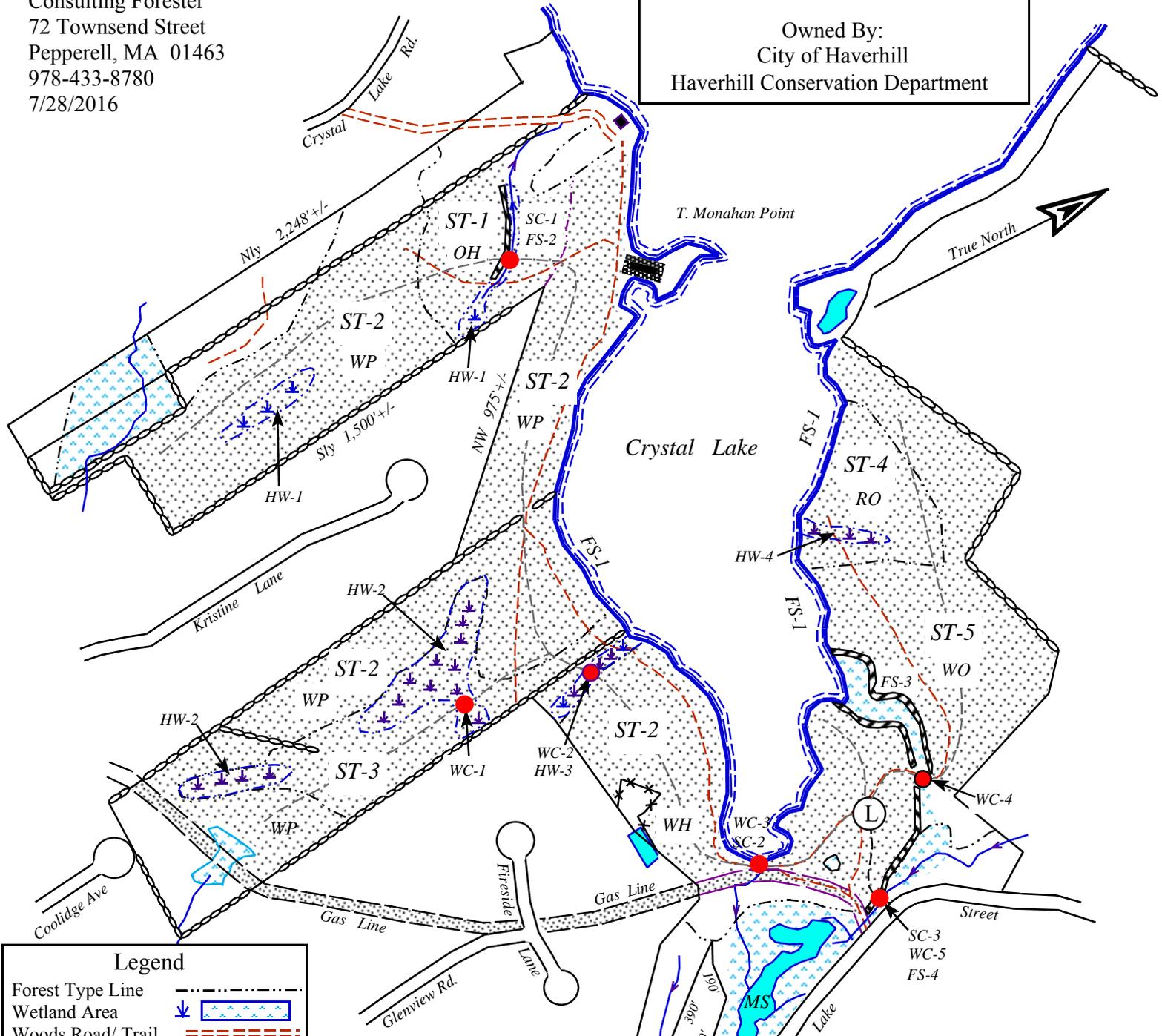


Prepared By:  
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72 Townsend Street  
Pepperell, MA 01463  
978-433-8780  
7/28/2016

**BOUNDARY & STAND TYPE MAP**

Land in Haverhill, MA  
Crystal Lake East Conservation Area  
Lake Street Lot

Owned By:  
City of Haverhill  
Haverhill Conservation Department



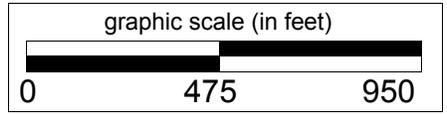
**Legend**

Forest Type Line	- - - - -
Wetland Area	
Woods Road/ Trail	- - - - -
Stone Wall	
Stand Type #	③
Wire Fence	
Stream	
Gas Line	
Oak-Hardwood	OH
White Pine-Hardwoods	WH
Mixed Hardwoods	MH
White Pine	WP
Marsh	MS
Mixed Oak	OM
Building	

**Chapter 132 Codes**

Filter Strip	FS	
Wetland Crossing	WC	
Stream Crossing	SC	
Stand Type	ST	
Wetland Harvest	HW	
Landing	L	
Skid Trail	- - - - -	
Harvest Area		

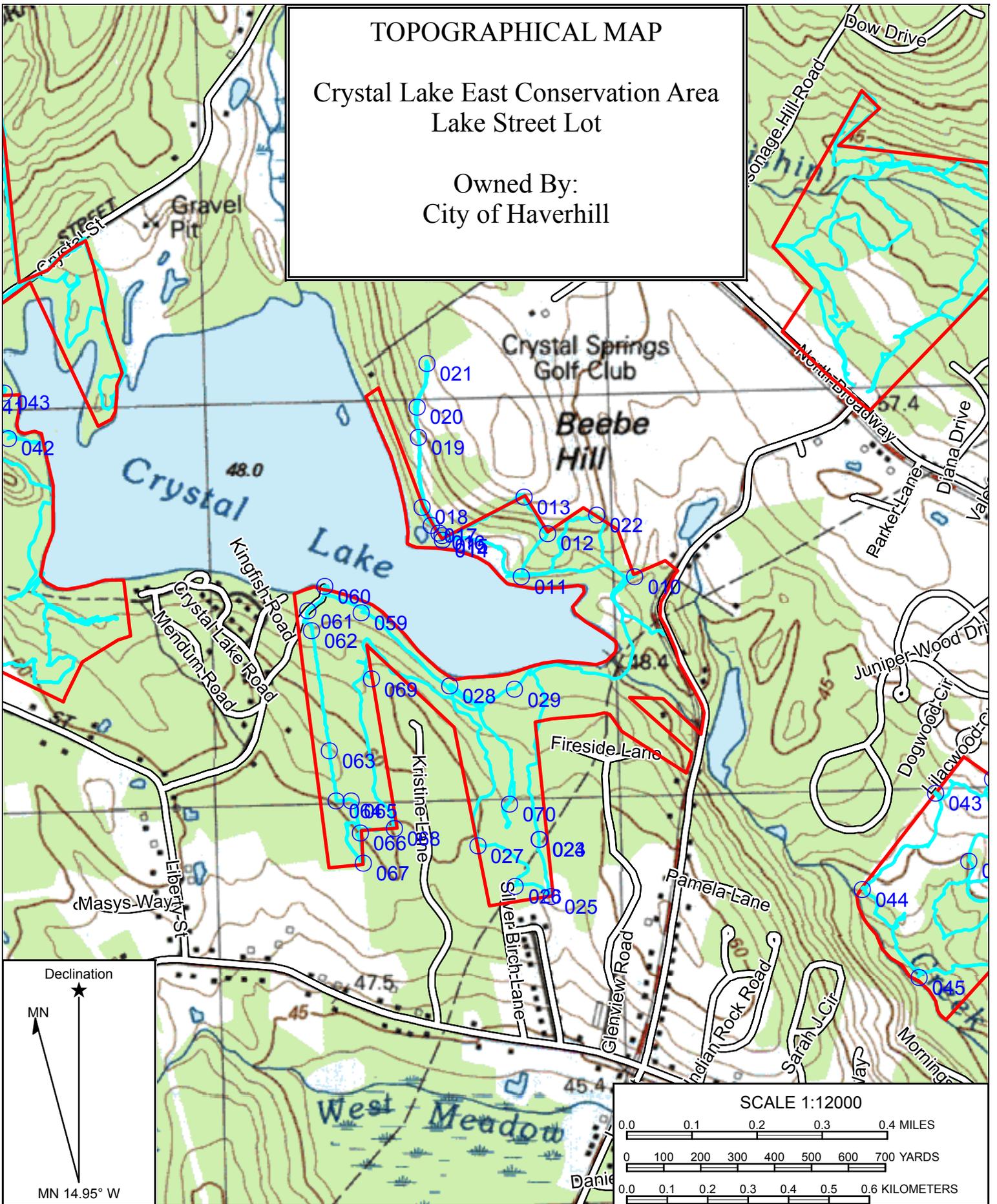
Map based on:  
GPS Field Work and  
City of Haverhill GIS,  
2014



# TOPOGRAPHICAL MAP

## Crystal Lake East Conservation Area Lake Street Lot

Owned By:  
City of Haverhill



Name: HAVERHILL  
Date: 07/28/16  
Scale: 1 inch = 1,000 ft.

Location: 042° 47' 55.38" N 071° 08' 36.55" W  
Crystal Lake - City of Haverhill