

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>

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		

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

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

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*

Table with 4 columns: Species, Mbf/Cds, (blank), Mbf/Cds. Rows include White Pine, Red Pine, Pitch Pine, Hemlock, Spruce, Other Sftwd., White Ash, Beech, White Birch, B & Y Birch, Black Cherry.

*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

Table with 5 columns: Indicate location on map, ST-1, ST-2, ST-3, ST-4. Rows include Forest Type, Acres, Landowner Objective, Designation of Trees, Type of Cut, Source of Regeneration.

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.

[X] 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) [Handwritten Signature]

Date 9/1/2014

Determination and Status

Form with checkboxes for Approved, Disapproved, Expires, Extension, Amendment, and App 1/2, Dis 1/2.

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

Table with 4 columns: Forest Types, Designation of Trees, Type of Cut, Source of Regeneration. Rows include WP White Pine, WK WP/Hem, WH WP/Hdwd, WO WP/Oak, RP Red Pine, SR Red Spruce, HK Hemlock, HH Hem/Hdwd, BC Blek Cherry, BB Bee/Bir/Map, OH Oak/Hdwd, OR N Red Oak, OM Mixed Oak, RM Red Maple, BE Beech, SF Spruce/Fir, SM Sugar Maple, PP Pitch Pine, CT Cut Tree, LT Leave Tree, SB Stand Boundary, OT Other, Landowner Objective, ST Short-term Har, SH Shelterwood, ST Seed Tree, CC Clear Cut, SE Selection, SA Salvage, SN Sanitation, Intermediate Harvests, Non-Standard Systems*, AD Advanced, SE Natural Seed, PL Plant, CO Coppice, DS Direct Seed, DL Diameter Limit*, OT Other.

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 _____

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	MII, 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 (IIG, 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

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
	Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory

All	See Forest Stewardship Management Plan on file with DCR.

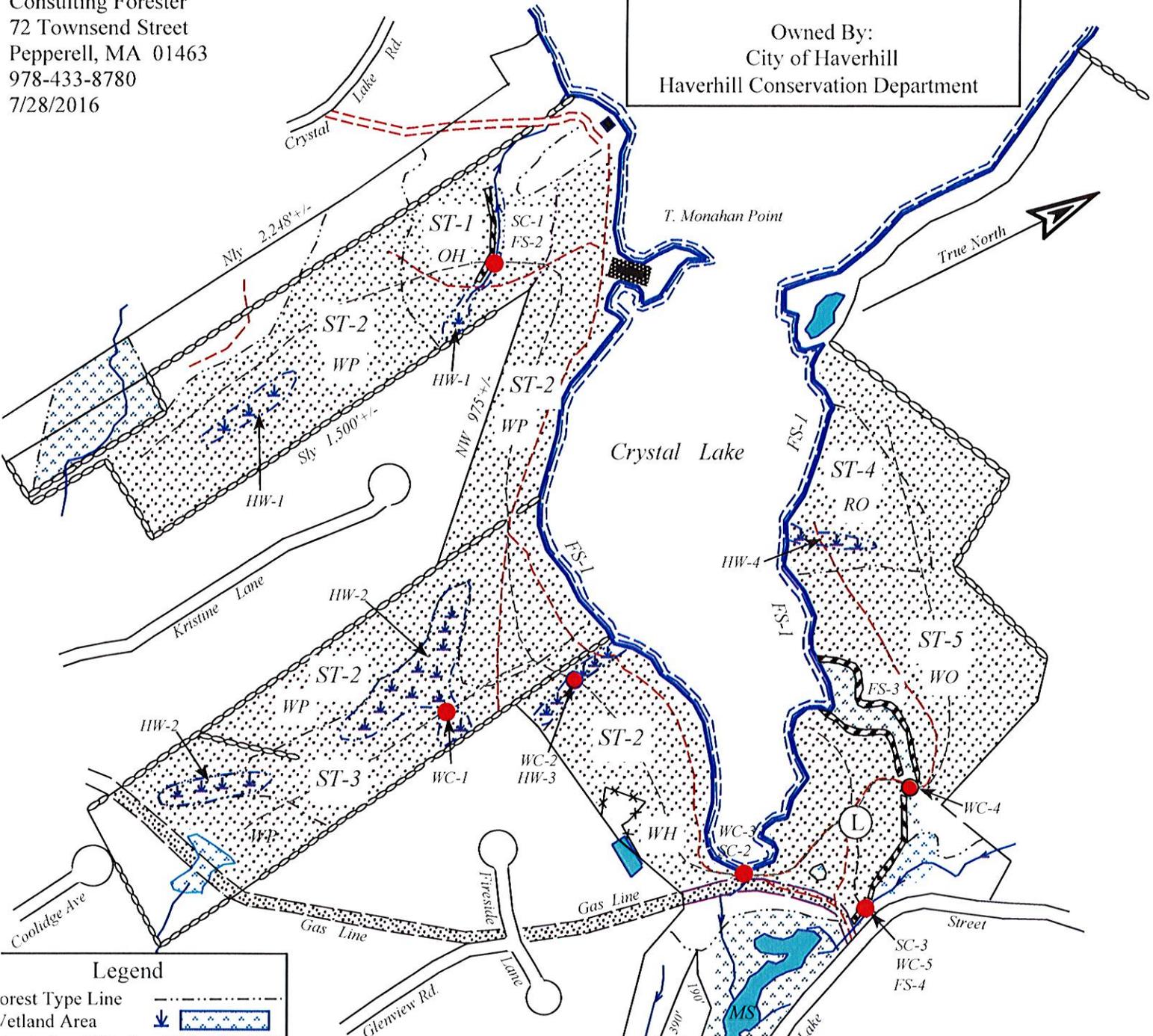
Regeneration & Future Condition

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

Prepared By:
 Gary H. Gouldrup
 Consulting Forester
 72 Townsend Street
 Pepperell, MA 01463
 978-433-8780
 7/28/2016

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

Owned By:
 City of Haverhill
 Haverhill Conservation Department



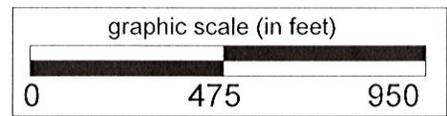
Legend

Forest Type Line	
Wetland Area	
Woods Road/ Trail	
Stone Wall	
Stand Type #	
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		

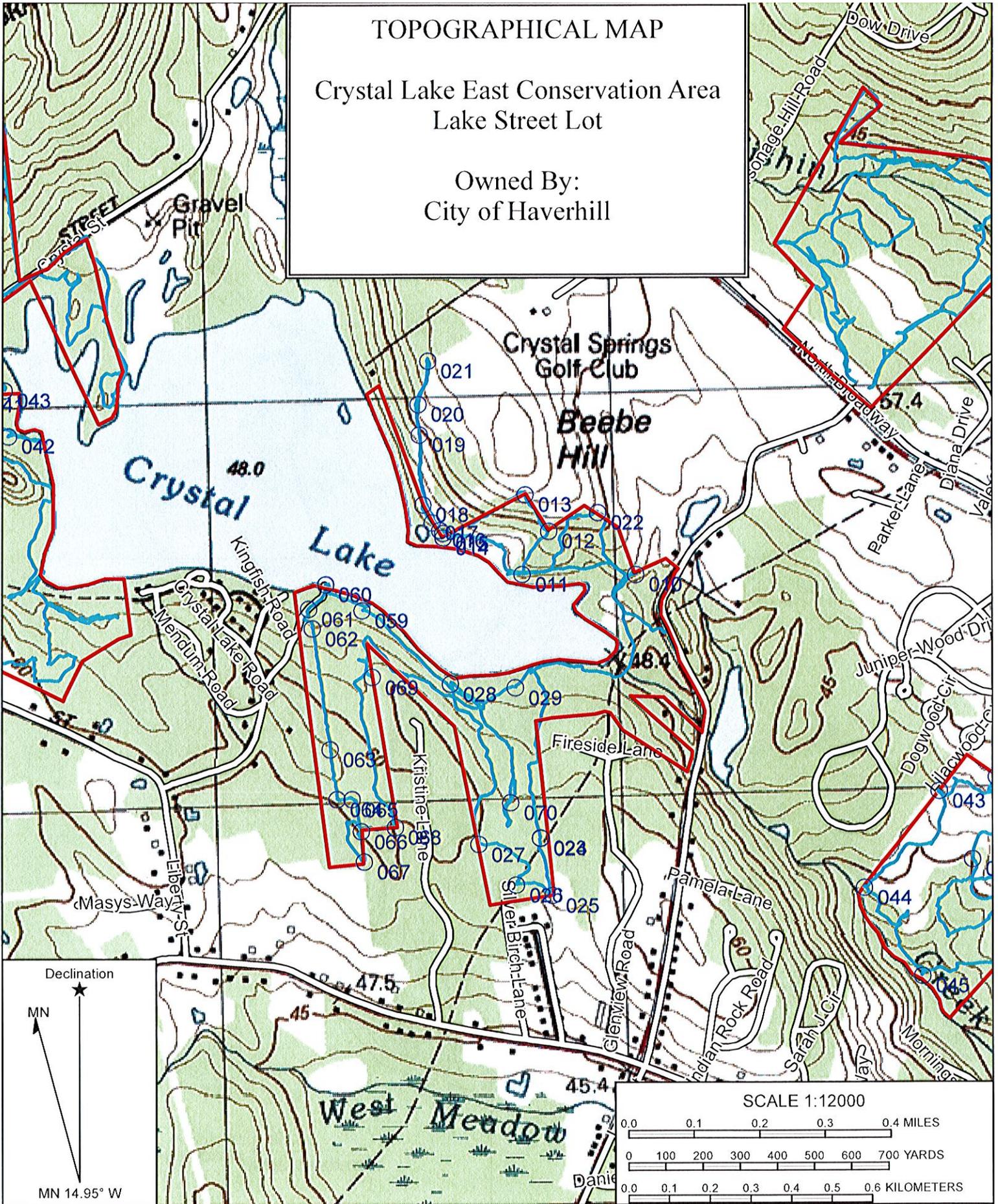
Map based on:
 GPS Field Work and
 City of Haverhill GIS,
 2014



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