



Forest Management Committee Program Update

December 9, 2014

Forest Stewardship Plans

Plans approved by Massachusetts Department of Conservation & Recreation:

- July of 2011
 - Clement Farm Conservation Area
 - Upper East Meadow River (Brandy Brow Road)
- May of 2012
 - Winnekenni Park & Plug Pond Conservation Areas
- June of 2014
 - Crystal Lake (eastern end)
 - Crystal Lake (western end)
 - Dead Hill Reservoir
 - Gale Hill Reservoir
 - John's Woods at Tattersall Farm
 - Meadow Brook Conservation Area
 - Tattersall Farm
 - Wheeler Woods Conservation Area

Total Acreage of Forest Land Dedicated to Stewardship ... 1,620 acres

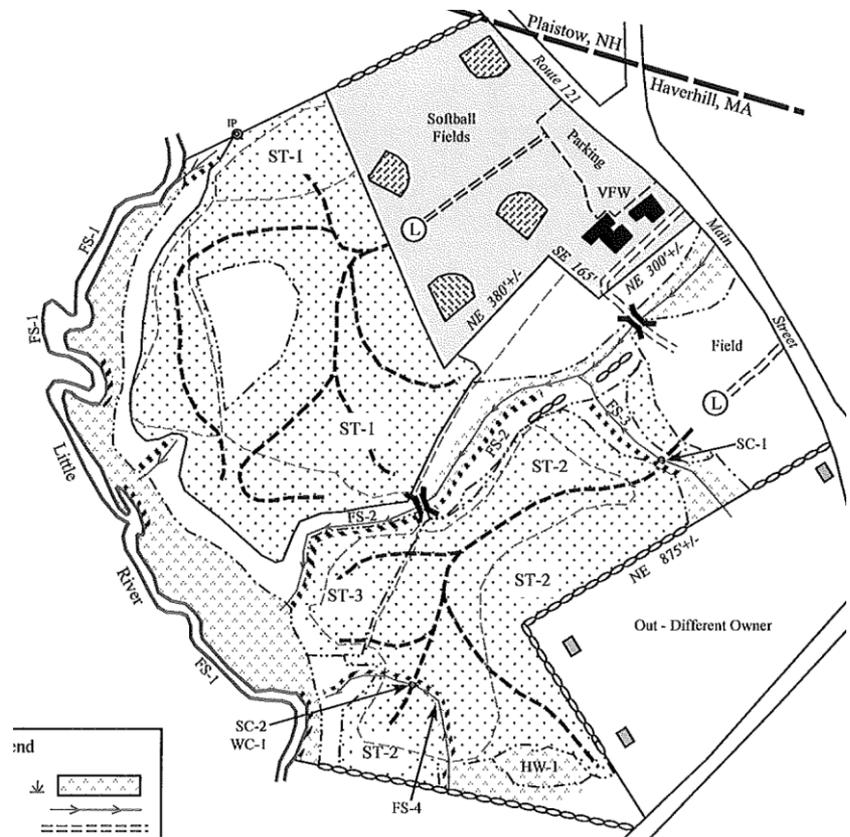
Clement Farm Conservation Area

- Forest Stewardship Plan Approved July, 2011
- Forest Cutting Plan Approved November, 2012
- Harvest Completed August, 2013



Clement Farm – Harvest Details

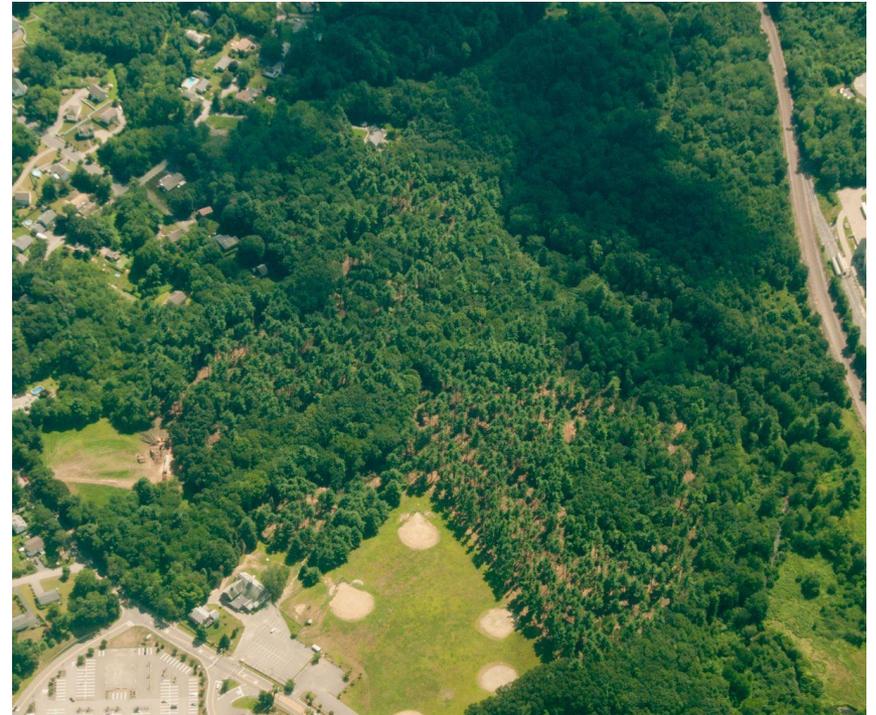
- Land Area: 52± ac
- Harvest Area: 24± ac
- Shelterwood & Old Growth Harvest
- Volume: 100 Mbf
- 93% of this volume is mature white pine
- Sale Price: \$15,789.67



Clement Farm Aerial Photos Provided by Abutting Resident

Pre-Harvest: June 1, 2012

Post-Harvest: August 6, 2013





One Year Post-Harvest – September 3, 2014

A view across the ball fields towards the harvested forest. This was primarily a shelterwood harvest. Shelterwood harvests remove a percentage of mature trees to open the forest floor for regeneration.



One Year Post-Harvest – September 3, 2014

A view of the thinned forest from the main trailhead.

Note the abundance of understory growth.

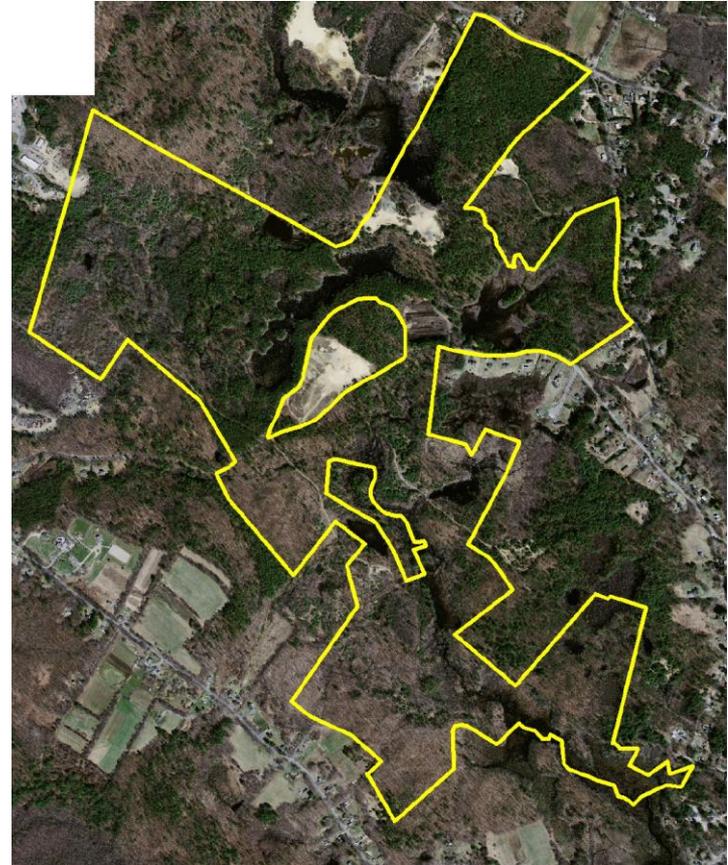


One Year Post-Harvest – September 3, 2014

Another view of the thinned forest in the background,
with new herbaceous cover in the foreground.

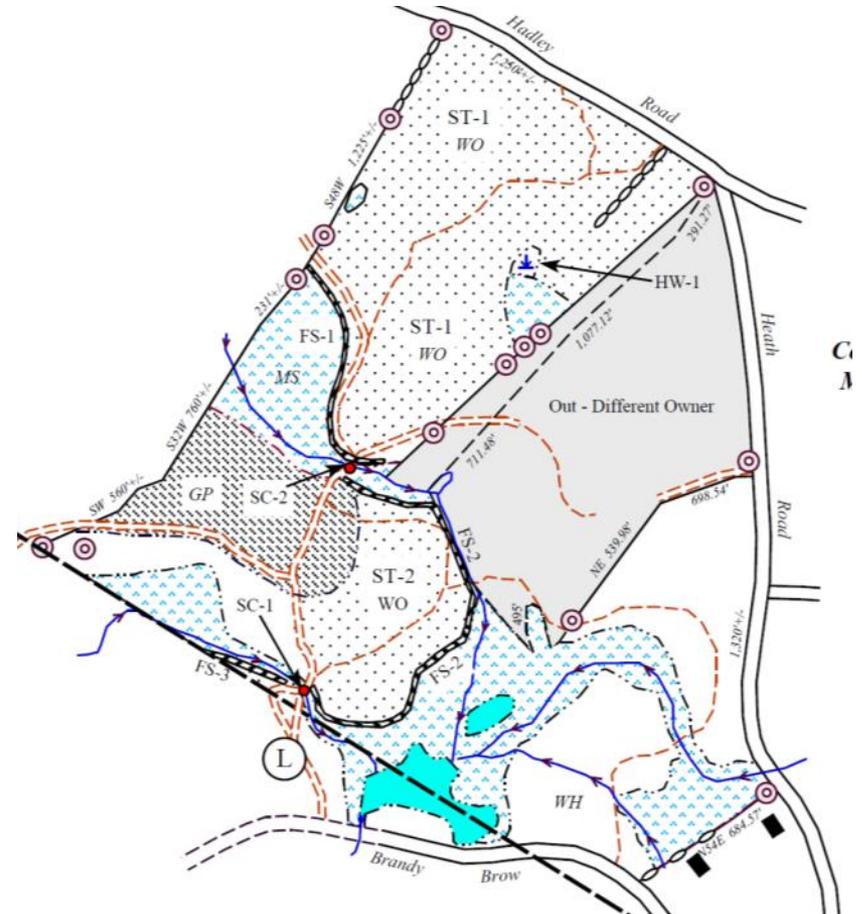
Upper East Meadow River (Brandy Brow Road)

- Forest Stewardship Plan Approved July 2011
- Forest Cutting Plan for Merrimac Land Approved Nov. 2013
- Harvest 100% Complete



Merrimac Land – Harvest Details

- Land Area: 101± ac
- Harvest Area: 49± ac
- Shelterwood & Selection Harvest
- Volume: 200 Mbf
- 94% of this volume is mature white pine
- Sale Price: \$33,257.90





Near Completion of Harvest – November 26, 2014

View into Stand 1 from Hadley Road in Merrimac, MA



Near Completion of Harvest – November 26, 2014

Panoramic View of Interior of Stand 1

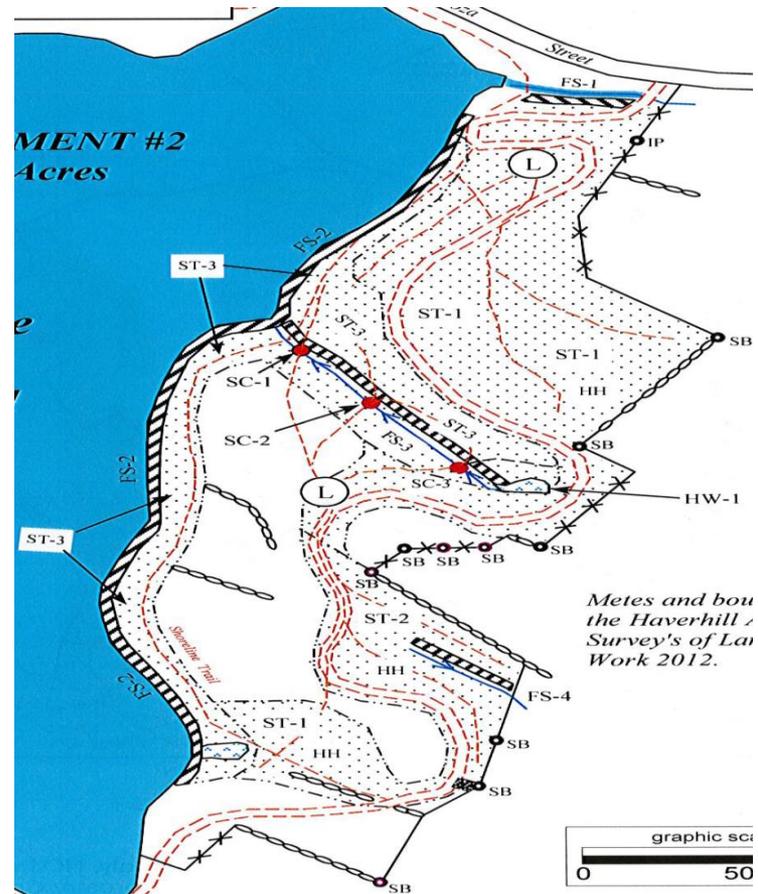
Winnekenni Park Conservation Area

- Forest Stewardship Plan Approved May, 2012
- Forest Cutting Plan for Hemlock Salvage Approved Nov., 2013
- Harvest 75-80% Complete
- Forest Cutting Plan for Castle Vista and Merrill Trail Currently Under Public Review



Hemlock Area – Harvest Details

- Land Area: 102± ac (East Side of Lake)
- Harvest Area: 51 ± ac
- Salvage Harvest – HWA Infestation
- Volume: 317 Mbf
- 98% of this volume is hemlock
- Sale Price: \$11,310.50



Pre- and Post-Harvest Views of Steep Slope off Dudley Porter Road

March 14, 2014



October 17, 2014



Post-Harvest Views of Slope Between Kenoza Lake and Dudley Porter Road

March 11, 2014 (uphill view)

May 28, 2014 (downhill view)



Post-Harvest Views of Slope Between Kenoza Lake and Dudley Porter Road

September 4, 2014



October 17, 2014



Post-Harvest Views of Hill Above Dudley Porter Road

March 11, 2014



May 28, 2014



Post-Harvest Views of Hill Above Dudley Porter Road

September 4, 2014



October 17, 2014



Peer Review - Remaining Hemlock Salvage

- Peer Review completed by MA Forester Kevin Scherer
- Substantiates planned harvest work and recommends additional basal area removal to encourage regeneration
- Recommends a second harvest in 5-10 years to encourage vigorous tree growth
- Recommends against the completion of work in Stand 3 (This change was made during the 1st phase of harvest.)
- Recommends plan of action for controlling invasives
- Recommends against extensive replanting
- Concludes biological controls are not a viable option for managing this HWA infestation.

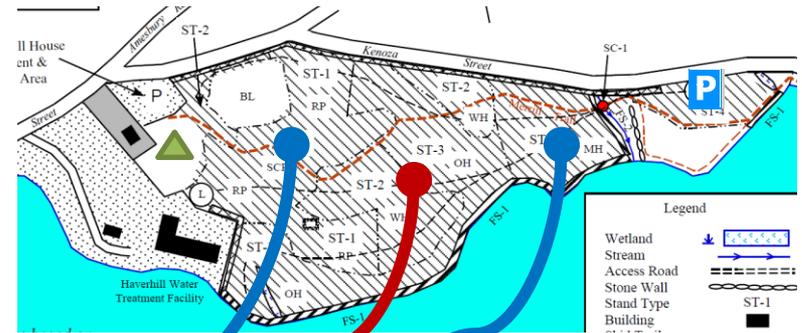
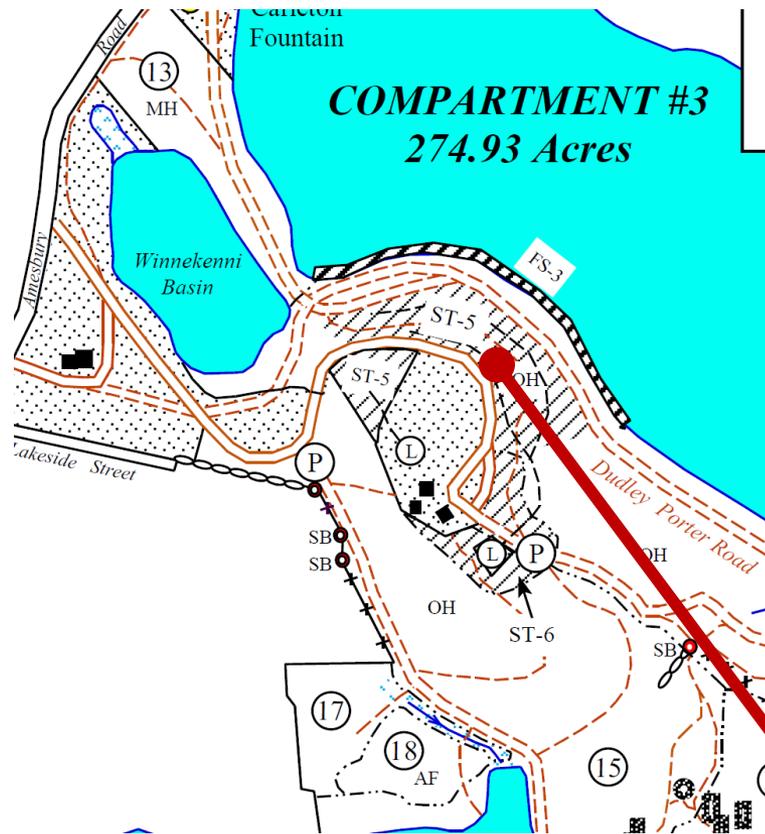
Castle & Merrill – Harvest Details

- Land Area: 275 ± ac (South Side, including Plug Pond Conservation Area)
- Land Area: 65± ac (North Side of Lake)
- Total Harvest Area: 52 ± ac
- Vista, Selection, and Sanitation Harvest
- Volume: 88 Mbf
- Breakdown: 44% white pine; 35% mixed softwood; and 21% mixed hardwood

Castle & Merrill – Harvest Details

Castle Vista Project Area

Merrill Trail Project Area



- Sanitation Harvest
~ 25-33% B. A. Removal
- Selection Harvest
~ 33% B.A. Removal
- Selection Harvest ~ 50% B. A. Removal
(Red & Scotch Pine Plantations)
- Vista Harvest ~ 40% B. A. Removal

New Projects in Our Conservation Areas



Photo Provided Courtesy of J. Wardle, NEMBA

Improved Trail Network at Clement Farm by the Haverhill Trails Committee



Girl Scout Chestnut Planting at Winnekenni Park Conservation Area

May 28, 2014



October 17, 2014



New and Improved Trails at Winnekenni by NEMBA & HTC



Photo Provided Courtesy of J. Wardle, NEMBA

Forest Stewardship and Scenic Bench Projects at Winnekenni by Eagle Scouts



Dudley Porter Road Improvements by Public Works and Water Departments



Where to Go for More Info...

- All Plans and Program Information may be found on the City's Website:
http://www.ci.haverhill.ma.us/departments/forests_tewardship/index.php
- New Materials and Meeting Dates are Also Promoted Through the Conservation Department Facebook Page: <https://www.facebook.com/pages/City-of-Haverhill-MA-Conservation-Department/712685712096386>
- Public Meeting and Site Walk Event – Saturday, December 13, 2014, at 9:00am at Winnekenni Castle