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Soils information and Soils Table for Forestry

NH Natural Heritage Bureau Report

Additional Pertinent Information

Farnsworth Hill Lot is located on Old Marlow Road, an eroding Class VI road. Access is quite limited for hauling logs as the road had sustained a great deal of erosion damage with exposed ledge along the steeper sections. A few cross drains are found in the road but appear to be in good condition. Efforts are underway to explore feasibility of utilizing abutting property for easier access. The Society for the Protection of New Hampshire Forests (SPNHF) now have ownership of abutting property that was heavily logged two years ago. This would make a helpful access since the town roads are in great condition from the class V access point to near the top of Farnsworth Hill. Costs for improving the road for hauling of timber products all the way to the Farnsworth Hill Lot would significantly impact the economic feasibility of logging this lot.

The lot is in need of a light thinning, removing trees at their economic maturity as well as some less desirable stems, and opening the canopy for increased residual stand growth. Stand treatment should be done within the next two years.



PROJECT SCHEDULE



Year,	Season	Stand	Date Completed	Project
FARNSWORTH HILL LOT:				
2014-16	dry, frozen	all	_____ <input type="checkbox"/>	Establish suitable access and log landing
2014-16,	any	all	_____ <input type="checkbox"/>	Locate boundary lines and freshen if needed
2014-16	any	1-3	_____ <input type="checkbox"/>	Plan and layout silvicultural thinning.
2015-16	spring or fall	2	_____ <input type="checkbox"/>	Lime, fertilize and seed landing/hot yard for dual use as wildlife food plot and future log landing.
2015-16	any	all	_____ <input type="checkbox"/>	Identify sections of skid trails as new loop trail. Clear, mark and map new trail.
2021-24	any	all	_____ <input type="checkbox"/>	Review stand response, growth and condition in 7-10 years.

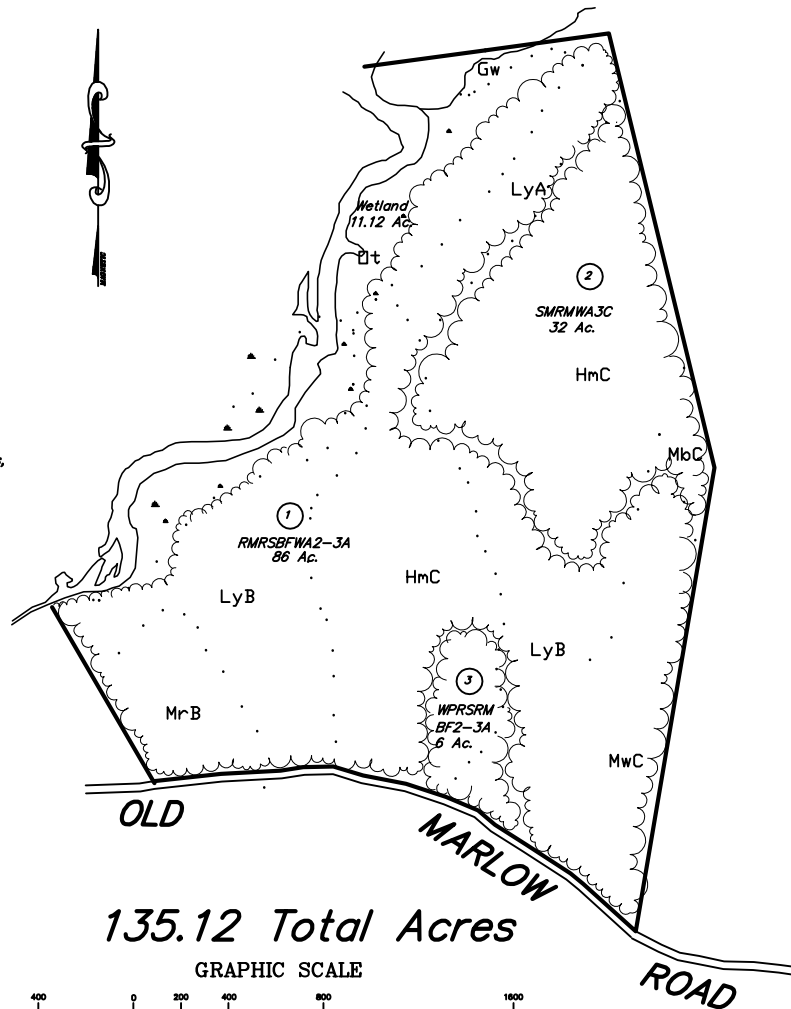
Legend

- trail
- stone wall
- ③ Forest Stand Designation
- Forest Type Boundary

MvC Soil Type Symbol
· Soil Type boundary

Soil Type Classification

- Gw - Greenwood mucky peat
- HmC- Hermon stony fine sandy loam, 8-15% slopes
- LyA - Lyme-Moosilauke stony loams, 0-3% slopes
- LyB - Lyme-Moosilauke stony loams, 3-8% slopes
- MbC - Marlow stony loam, 8-15% slopes
- MrD - Monadnock-Hermon association, 15-25% slopes, very stony, moderately steep
- MwC - Monadnock-Lyman Rock Outcrop Complex
- Ot - Ossipee mucky peat



135.12 Total Acres

GRAPHIC SCALE



(IN FEET)
1 inch = 400 ft.

Prepared By:
WOODLAND ONE FOREST MANAGEMENT
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Forest Stand Designations

Species Code:

- | | |
|------------------|---------------------|
| WP---white pine | RM-----red maple |
| SM---sugar maple | WB-----white birch |
| HM---hemlock | YB-----yellow birch |
| BF---balsam fir | WA-----white ash |
| RS---red spruce | |

Diameter Class:

- 1-----0" to 4" D.b.h. (Sapling)
- 2-----5" to 11" D.b.h. (Poletimber)
- 3---12" to 17" D.b.h. (Small Sawtimber)
- 4---18" D.b.h. and up (Large Sawtimber)

Stand Density:

- A-----Above Average
- B-----Average
- C-----Below Average

FOREST TYPE MAP

Prepared For

WASHINGTON

FORESTRY COMMITTEE

FARNSWORTH HILL LOT

Located In

Washington, NH

APRIL 2015

Area: **135.12 Acres**

Deed Restrictions or otherwise:

Rough access as Old Marlow Road is eroded with areas of exposed ledge

Boundary map 2007 done by Provan & Lorber, Inc.

Last year boundary was identified: 2007 Boundary work needed? _____

Goals/Uses:	Rate their importance			
	<u>HIGH</u>	<u>MEDIUM</u>	<u>LOW</u>	<u>NONE</u>
Income:		√		
Recreation:				
Hiking Trails	√			
Horse Trails				√
Snowmobile Trail				√
Hunting				√
Trapping				√
Other				
Wildlife Habitat:				
Openings		√		
Water	√			
Increase Species richness				√
Other				
Visual and Scenic:				
Enhance Visual access to	√			
Existing opening	√			
Screen an opening	n/a			
Create a new opening				
Other				

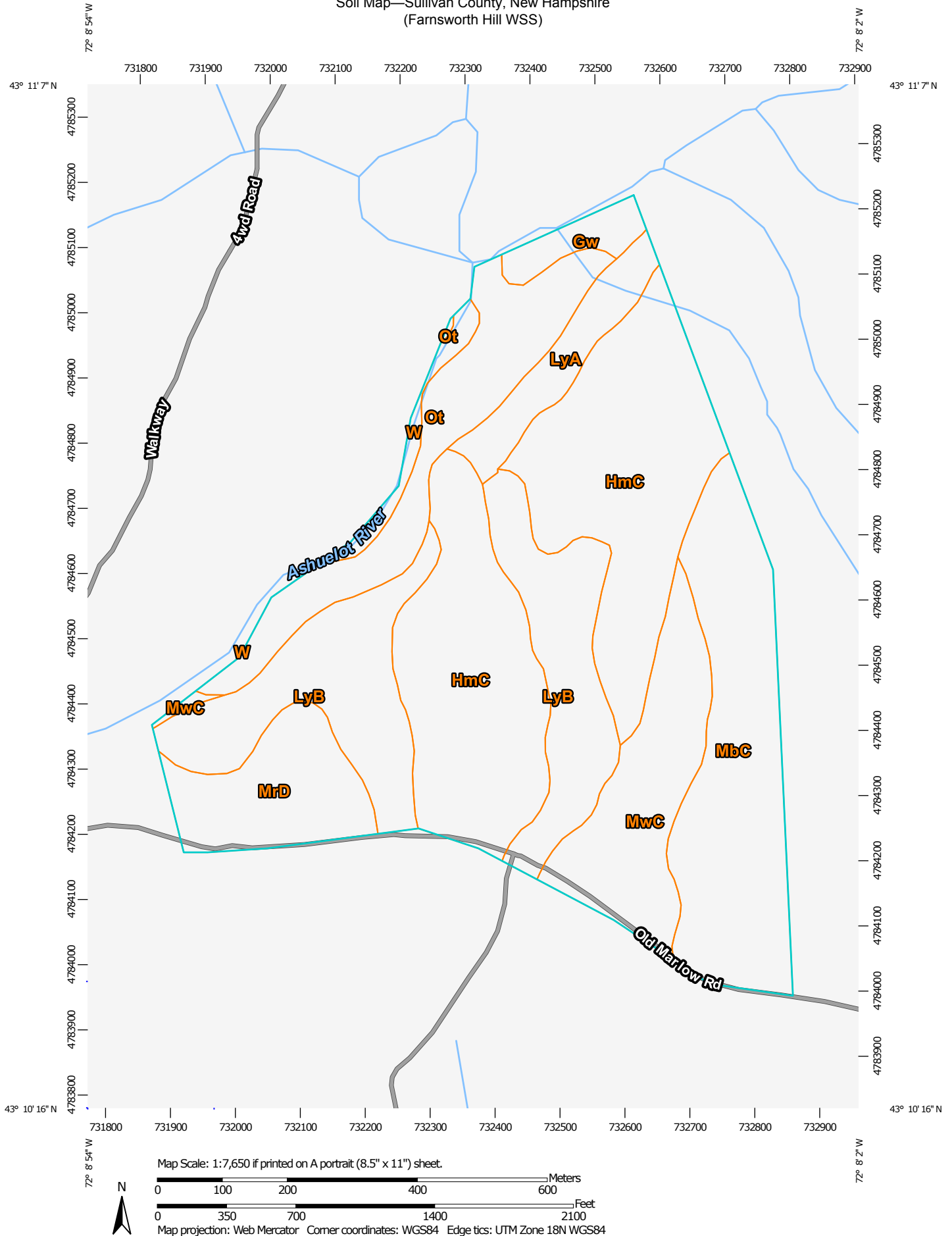
Main Goals for Managing this lot (in order of importance):

1. Timber production
2. Develop a new trail on property, perhaps a looped trail
3. _____





Soil Map—Sullivan County, New Hampshire
(Farnsworth Hill WSS)



Soil Map—Sullivan County, New Hampshire
(Farnsworth Hill WSS)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sullivan County, New Hampshire
Survey Area Data: Version 18, Dec 31, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Map Unit Legend

Sullivan County, New Hampshire (NH019)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Gw	Greenwood mucky peat	3.1	1.9%
HmC	Hermon stony fine sandy loam, 8 to 15 percent slopes	52.0	31.3%
LyA	Lyme-Moosilauke stony loams, 0 to 3 percent slopes	6.7	4.0%
LyB	Lyme-Moosilauke stony loams, 3 to 8 percent slopes	31.1	18.8%
MbC	Marlow stony loam, 8 to 15 percent slopes	26.4	15.9%
MrD	Monadnock-Hermon association, very stony, moderately steep	11.7	7.0%
MwC	Monadnock-Lyman-Rock outcrop complex, 8 to 15 percent slopes	16.2	9.8%
Ot	Ossipee mucky peat	16.4	9.9%
W	Water	2.3	1.4%
Totals for Area of Interest		166.0	100.0%

Farnsworth Hill Lot
SOILS TABLE

Map Symbol	Soil Classification	%		Forest		Tree Species (Site Index)		Erosion		Equipment		Windthrow		Hydric	
		Slope		Soil Grp				Hazard	Limitations	Hazard	SHWT	Soil			
Gw	Greenwood Mucky Peat	0-1		NC		balsam fir (39) black spruce (15)		slight	severe	severe	0"-12"	yes			
HmC	Hermon stony fine sandy loam	8-15		IB		white pine (62) red pine (65) sugar maple (55)		slight	slight	slight	>60"	no			
LyA	Lyme-Moosilauke stony loams	0-3		IIB		white pine (70) red maple (78) yellow birch (75)		slight	severe	severe	0-18"	yes			
LyB	Lyme-Moosilauke stony loams	3-8		IIB		white pine (70) red maple (78) yellow birch (75)		slight	severe	severe	0-18"	yes			
MbC	Marlow stony loam	8-15		IA		white pine (66) sugar maple (59) balsam fir (57)		slight	slight	slight	24"-30"	no			
MrD	Monadnock-Hermon association, very stony, moderately steep	15-25		IB		red pine (65) white pine (62) sugar maple (55) red oak (55)		slight	moderate	slight	>60"	no			
MwC	Monadnock-Lyman Rock Outcrop Complex	8-15		IIA		white pine (60) red oak (55) sugar maple (50)		slight	slight	moderate	>60"	no			
Ot	Ossipee mucky peat	0-2		NC		none		slight	severe	severe	0-6"	yes			



NEW HAMPSHIRE NATURAL HERITAGE BUREAU

DRED - DIVISION OF FORESTS & LANDS

PO Box 1856 -- 172 PEMBROKE ROAD, CONCORD, NH 03302-1856

PHONE: (603) 271-2214 FAX: (603) 271-6488

To: Anita Blakeman, Woodland Care Forest Management
P.O. Box 4
N. Sutton NH 03260

From: Melissa Coppola, NH Natural Heritage Bureau

Date: 8/21/2014

Re: Review by NH Natural Heritage Bureau of request dated 8/19/2014

NHB File ID: 1962

Town: Washington

Project type: Landowner Request

Location: Farnsworth Hill- Tax Map 10 Lot 5, Old Marlow Road

I have searched our database for records of rare species and exemplary natural communities on the property(s) identified in your request. Our database includes known records for species officially listed as Threatened or Endangered by either the state of New Hampshire or the federal government, as well as species and natural communities judged by experts to be at risk in New Hampshire but not yet formally listed.

NHB records on the property(s):

	Mapping Precision	% within tract	Last Reported	Listing Status		Conservation Rank	
Natural Community				Federal	NH	Global	State
Drainage marsh - shrub swamp system	Good	9	2002	--	--	-	S5

NHB records within one mile of the property(s):

	Last Reported	Listing Status		Conservation Rank	
Vertebrate species (For more information, contact Kim Tuttle, NH F&G at 271-6544)		Federal	NH	Global	State
Common Loon (<i>Gavia immer</i>)	2013	--	T	G5	S2B
Invertebrate Species		Federal	NH	Global	State
Little Bluet (<i>Enallagma minusculum</i>)	2003	--	--	G4	--
Plant species		Federal	NH	Global	State
common mare's-tail (<i>Hippuris vulgaris</i>)	1928	--	T	G5	S2

Listing codes: T = Threatened, E = Endangered SC = Special Concern

Rank prefix: G = Global, S = State, T = Global or state rank for a sub-species or variety (taxon)

Rank suffix: 1-5 = Most (1) to least (5) imperiled. "--", U, NR = Not ranked. B = Breeding population, N = Non-breeding. H = Historical, X = Extirpated.

NOTE: This review *cannot* be used to satisfy a permit or other regulatory requirement to check for rare species or habitats that could be affected by a proposed project, since it provides detailed information only for records actually on the property.



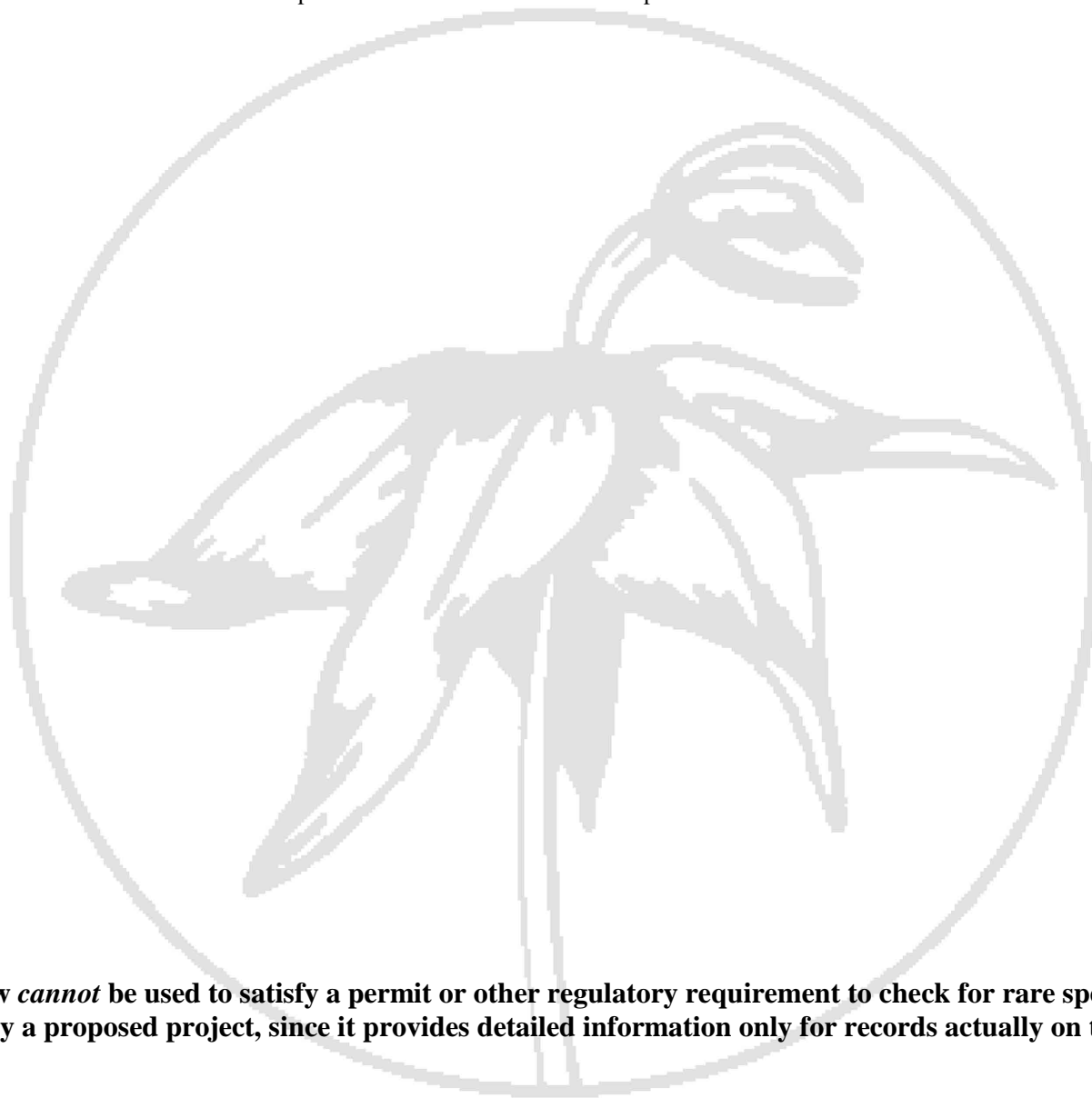
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A negative result (no record in our database) does not mean that no rare species are present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.



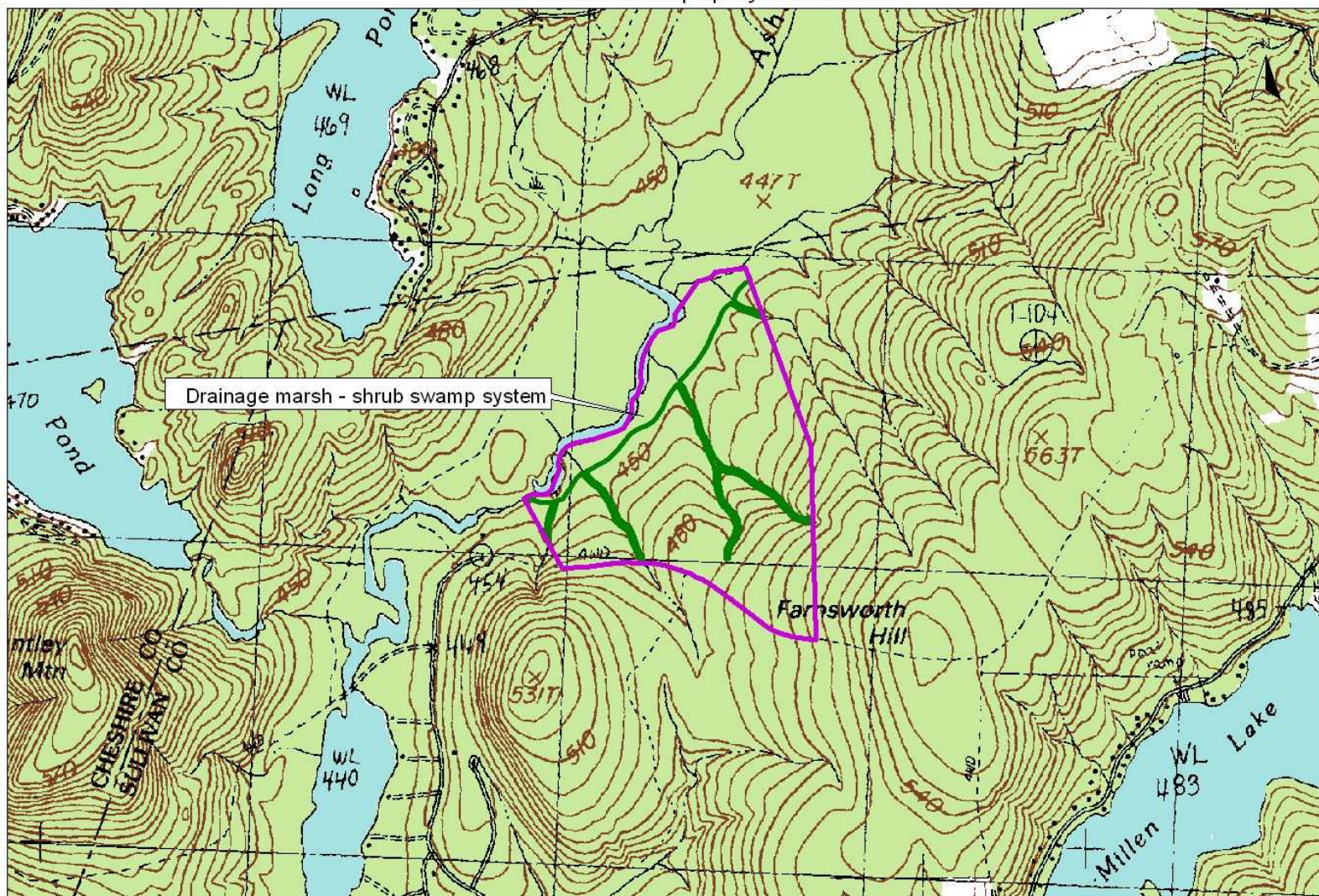
NOTE: This review *cannot* be used to satisfy a permit or other regulatory requirement to check for rare species or habitats that could be affected by a proposed project, since it provides detailed information only for records actually on the property.



Known locations of rare species and exemplary natural communities

Sensitive species are labelled but not mapped. All other records are clipped to the property boundaries.

Occurrences not on the property are not shown.



Property: WTF-Farnsworth Hill

New Hampshire Natural Heritage Bureau - System Record

Drainage marsh - shrub swamp system

Legal Status	Conservation Status
Federal: Not listed	Global: Not ranked (need more information)
State: Not listed	State: Demonstrably widespread, abundant, and secure

Description at this Location

Quality Rank: Good quality, condition and landscape context ('B' on a scale of A-D).

Quality Comments:

Detailed Description: 2002: Extensive areas of open floodplain communities occur in broader river valley areas. Here, emergent marsh and alder moderate-energy riverbank/floodplain dominate. **Red maple floodplain forest** is also common nearer the upland. Small amounts of yellow pond lily-pickerelweed-pondweed **aquatic bed** occur in the shallow water of the river itself. In other riparian sections, the streambed gradient is more sloped and the adjacent floodplain is poorly developed. Upper perennial **aquatic bed** and lowland southern low- to moderate-energy streambank characterize this habitat. Overall, this is a moderately-sized stretch of an upper perennial riparian system in a good landscape context.

General Area: 2002: This exemplary riparian system lies near the headwaters of the Ashuelot River located in Pillsbury State Park. Scattered selective cuts have recently occurred in the adjacent upland. Overall, the surrounding upland forest is in good condition. This stretch of the Ashuelot River crosses Lempster Road and its upstream extent nears Rte. 31 by Pillsbury State Park.

General Comments: 2002: A dam on the Ashuelot River on the east side of Rte. 31 has altered the natural hydrologic flow downstream to a certain extent.

Management

Comments:

Location

Survey Site Name: Ashuelot River
Managed By: Long Pond Town Forest

County: Sullivan	USGS quad(s): East Lempster (4307222)
Town(s): Washington	Lat, Long: 431155N, 0720805W
Size: 322.0 acres	Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: Try Rte. 31 to Lempster Road to Long Pond Road.

Dates documented

First reported: 2001-07-30	Last reported: 2002-09-18
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