404 US Army Corps of Engineers Application

For



THE HERMITAGE



AT HAYSTACK MOUNTAIN

Prepared for:

US Army Corps of Engineers Marty Abair & Mike Adams

August 2015

Owner & Applicant: Hermitage Inn Real Estate Holding Company, LLC

PO Box 2210

West Dover, VT 05356

Email: rrubin@hermitageclub.com

(Bob Rubin)

Prepared by: Harrington Engineering, Inc.

PO Box 248

North Pomfret, VT 05053 Email: heinet@aol.com

(Bob Harrington)

Assisted by: Arrowwood Environmental

950 Bert White Road Huntington, VT 05462

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Exhibit List # Hermitage Club – Haystack Mountain Wilmington & Dover, Vermont

No.	Date Admitted	Ву	Subject
1	8-5-2015	HEI	Cover Letter – Dated: 8-5-2015 From Harrington Engineering, Inc.
1a	8-5-2015	HEI	Additional Information Hermitage Club
2	8-5-2015	HEI	Application
3	8-5-2015	HEI	Abutters List
4	8-5-2015	HEI	Project Purpose, Avoidance, Minimization and Compensations 8-05-2015
5a	7-15-2015	Matthew Trokel	Letter from Matthew Trokel - 07-15-2015
5b	6-23-2015	Ben Joyce	Cold Brook Properties Map
5c	6-23-2015	Ben Joyce	Brook bound EC Map 06-23-15
6	8-18-2015	Arrowwood	Wetland Field Data Forms
7	5-7-2014	Arrowwood	Vernal Pool Protocol Haystack (5-7-14)
8	9-22-2014	Arrowwood	Wetland and Vernal Pool Inventory Report (9-22-14)
9	10-12-2014	Arrowwood	Haystack Fish Sample Memo (10-12-14)
9a	7-1-2015	Arrowwood	Biomonitoring Site Visit Memo 07-01-15
9b	7-2-2015	Arrowwood	Hermitage WQ Locations Map 07-02-2015
10	5-8-2015	Arrowwood	Stream Buffer Analysis (05-08-15)
11	6-9-2015	Arrowwood	RTE Plant Species Report (06-09-15)
12	5-7-2015	HEI	Stormwater Treatment & Detention Table
12a	8-14-2015	-	Stormwater Correspondence 08-14-2015
13	12-5-2014	VHB	NAA Analysis (12-5-2014)
14	08-2014	Hartgen	Archeological Resource Assessment-August 2014
15	10-16-2014	Hartgen	Email from Hartgen re Sensitive Areas (10-16-14)

Exhibit List # Hermitage Club – Haystack Mountain Wilmington & Dover, Vermont

No.	Date Admitted	Ву	Subject
15a	8-7-2015	Hartgen	High Country Homes IB EOF
15b	8-7-2015	Hartgen	Siegel Pond IB EOF
16	4-6-2015	Conley Associates	Transportation Executive Summary (4-6-15)
17	9-2014	Conley Associates	Transportation Master Plan-9-2014
18	12-15-2014	Conley Associates	Addendum to Traffic Study-prop roadway and TDM (12-15-14)
19	8-19-2015	HEI	Wetlands ACOE Plans
19a	7-13-2015	TECHNICON	Withdrawal Plans
20	7-20-2015	Arrowwood	Ski Tunnel - Riparian Mgmt Plan 07-20-15
21	8-19-2015	HEI/ Arrowwood	401 Application

HARRINGTON ENGINEERING, INC.

CIVIL•ENVIRONMENTAL•DEVELOPMENT•PERMITS P.O. Box 248, North Pomfret, VT 05053 Phone (802) 457-3151 Email: HEINET@aol.com

Celebrating 33 Years

August 5, 2015

US Army Corps of Engineers Attn.: Ms. Marty Abair 11 Lincoln Street, Room 210 Essex Junction, Vermont 05452

Re: The Hermitage Club – Haystack Mountain; 404 Application

Dear Ms. Abair:

Enclosed is the U.S. Army Corp of Engineers Permit Application for the Hermitage Club Development at Haystack Mountain. During the past two years we have come a long way with the review and design of this development. The project includes a year-round recreational resort in Southern Vermont including a ski-in/out residential development, a club house, restaurants and commercial facilities, as well as snowmaking facilities.

We have developed a design that allows the establishment of a one-of-a-kind resort, enhances the tourism in Dover and Wilmington VT, and minimally impacts the natural resources of the State of Vermont. I believe that you will find that the enclosed plans and materials complete and you can approve the proposed development.

We are asking that this development is phased into 2 components:

- Residential and commercial development
- Snowmaking facilities: Mirror Lake expansion and brook withdrawals.

We are looking forward to hearing back from you.

Sincerely,

Desislava Pomeroy Desislava Pomeroy, EIT

Robert S. Harrington, PE

Cc: **James Barnes**

Robert Rubin Robert Fisher Jay Kenlan Beth Afalat

HARRINGTON ENGINEERING, INC.

CIVIL•ENVIRONMENTAL•DEVELOPMENT•PERMITS
P.O. Box 248, North Pomfret, VT 05053
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Celebrating 33 Years

August 5, 2015

US Army Corps of Engineers Attn.: Ms. Marty Abair 11 Lincoln Street, Room 210 Essex Junction, Vermont 05452

Re: Hermitage; Additional Information Request June 26, 2015

- Please clarify that there will be no work in any of the identified archaeologically sensitive areas.

OK. Exhibit 14A.

- Please provide mailing labels for the abutters. From my review of the plans, I only need the following:
 - o Town of Wilmington
 - Town of Dover
 - USFS Green Mountain National Forest
 - o Rushing Creek LLC
 - Stratfield Assoc LP
 - Cold Brook Fire District
 - o Jacob Brown & Elizabeth O'Brien
 - Robert Mannarino
 - Mount Snow LTD
 - Joseph Willen
 - o Green Mountain Power Corp.

Please double-check that there are no other property owners that abut the wetlands or streams that are being impacted. I'll let you know if there are any others that I think should be included. Double-check to be sure these are good addresses.

OK. Mailing labels provided.

- Block 1 of Application Form Just one individual should be designated as agent.
 Block 1 has been modified.
- Block 22 of the Application Form This totals 2.13 acres of impact. There are discrepancies between the summary in attachment 6 and the full scale plans. Break out wetland and stream impacts in this block, and break out direct, secondary and indirect impacts for both streams and wetlands.
- I will need a copy of your application for water quality certification before I can consider the Corps application complete.

401 Water Quality Certification is attached as Exhibit 20.

Exhibit 1a: Page 1 of 4

The functions and values summary is using VTDEC functions and values. The Corps uses a different suite of categories: Groundwater recharge, Groundwater discharge, Floodflow alteration, Finfish habitat, Sediment, toxicant/pathogen retention, Nutrient removal/retention/transformation, Production export, Sediment/shoreline stabilization, Recreation, Wildlife habitat, Educational/scientific value, Uniqueness/heritage, Visual quality/aesthetics, and Endangered species habitat. Please modify the summary to reflect these functions and values.

Dori fixed that.

- Wetland 121 is missing from Wetland Summary Tables Locational data.
 Dori fixed that.
- Clean up Table 3 Wetland Hydrologic Summary Data. Wetlands 535-708 are included on both pages.
 Dori fixed that.
- Wetlands 708 and A14 are missing from Wetland Characterization Summary Data.
 Dori fixed that.
- Table 5 Wetlands Impact Summary Table
 - Break out direct, secondary and indirect impacts. Provide a total for each type of impact and a grand total.
 - \circ Wetland 124 8½" x 11" plans and full-scale plans indicate 493 sq. ft. of impact; this indicates 964 sq. ft.

Dori fixed that.

- Stream Summary Table Siegel Pond CW100 Plan indicates 281 sq. ft. of impact; this table indicates 140 sq. ft.
 Fixed
- I will need a brief alternatives discussion to touch on the alternative of providing the residential components elsewhere on other lands owned by Hermitage.

The Wilmington Town Plan and Zoning ordinance have zones the Haystack Mountain and Hermitage Inn Lands for high density residential development, as proposed. These lands (subject to this 404 application) as zoned by Wilmington as residential Resort and Commercial Resort properties. The Hermitage Club has designed the Mountain Master plan with approximately 450 units, as was previously agreed through zoning as appropriate number of units for this resort area. The applicant owns no other lands suitable for this type of residential development. Other lands are environmentally restricted (by wetlands, streams, and wildlife), already developed to their maximum potential.

- Please expand on your narrative describing the avoidance and minimization that has taken place. Include the progression of impact reduction over the last several years. Please see Exhibit 4.
- Fish Sampling
 - o It would be informative to have a plan showing where the sampling locations were. Plan has been attached. AN initial site recon was performed in late June by Arrowwood Environmental plus VT Fish and Game to identify appropriate fish sampling locations. The initial six sampling points have been identified on Oak Brook, Cold Brook and Haystack Brook. HIREHC LLC has agreed in writing to allow this sampling by VT Fish and Game to proceed.

Exhibit 1a: Page 2 of 4

- Would Hermitage be willing to do some remedial work at the Oak Brook culvert(s) as a piece of the mitigation?
 - HIREHC LLC has agreed to do some remedial replacement of existing perched culvert on Oak Brook. This is being reviewed by VT Fish and Game and VT Rivers Management Division. One such culvert is on Chamonix trail leading from the Base Lodge north over Oak Brook and present maintenance area. This is planned for construction in year 2016. Additionally round culvert SC__ and SC__ (south and West of existing maintenance facility) are being replaced with open channel arch or box culvert as part of this 404application. Based on discussions with VT Fish and Game these remedial replacements should give fish passage to the cooler waters upstream on Haystack Mountain.
- NAA Modeling You will need to modify the NAA to evaluate the potential of a withdrawal downstream of the confluence of Haystack Brook with Cold Brook.
 Due to third party ownership this is not a viable alternative. Please see Exhibit 25.

PLANS

- General
 - o Darken the property lines on all sheets.

Done

- What is "Unknown Stream" in the legend on each sheet?
 The label has been changed to unassessed stream.
- o Provide a typical section of a culverted crossing and of a bridge crossing.
- Legend Sheet
 - All of the different grays become pretty indistinguishable and you can't use color.
 Adjusted the colors and patterns.
 - Where is the VT Land Trust Conservation Easement?
 Taken off of plan & legend.
 - Darken the property line graphic, both here and on the plan sheets.
 Done.
- Sheet #1
 - What is the outlined area in the lower left of the sheet?
 Restricted Bear Habitat.
- Sheet #2
 - SC #1 crossing You indicate that OHW width of this stream is 15', yet you're proposing a 6' wide bridge. Are you sure your OHW width is correct?
 - SC #2 crossing You indicate that OHW width of this stream is 20', yet you're proposing a 6' wide culvert. Are you sure your OHW width is correct?
 - SC #3 crossing You indicate that OHW width of this stream is 15', yet you're proposing a 6' wide culvert. Are you sure your OHW width is correct?

 Corrected.
- Sheet #4
 - The notes for the SC#5 crossing came out as WingDings.
 Fixed.
- Sheet #5
 - SC #4 crossing If the OHW width of this stream is 40', how is a 10' wide bridge going to provide an adequate hydraulic opening?

Corrected.

- Sheet #7

SC#6 – What is this crossing? Culvert/Bridge size?
 The crossing is labeled, enlarged the label.

Sheet #9

- SC #9 crossing You indicate that OHW width of this stream is 6', yet you're proposing a 3' wide culvert. Are you sure your OHW width is correct?
- SC #8 crossing You indicate that OHW width of this stream is 10', yet you're proposing a 3' wide culvert. Are you sure your OHW width is correct?
- SC #10 crossing You indicate that OHW width of this stream is 9', yet you're proposing a 6' wide culvert. Are you sure your OHW width is correct?
- SC#10 Note says a 10 sq. ft. impact; table indicates 810 sq. ft. of impact.
 Corrected.

- Sheet #11

- Wetland 124 Summary table indicates 964 sq. ft. of impact.
 493 sq.ft. is correct.
- Please provide a separate plan view and sections for the Cold Brook withdrawal.

Sheet #13

 Please provide a separate plan view and sections for the Haystack Brook withdrawal.

OK

I don't think your proposal to take the four ponds near the Hermitage offline will provide much benefit.

This proposal has been withdrawn.

Exhibit 1a: Page 4 of 4

U.S. ARMY CORPS OF ENGINEERS APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved -OMB No. 0710-0003 Expires: 30-SEPTEMBER-2015

Public reporting for this collection of information is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters, Executive Services and Communications Directorate, Information Management Division and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)								
1. APPLICATION NO.	2. FIELD OFFICE CODE	DATE RECEIVED 4. DATE APPLICATION COMPLE						
	(ITEMS BELOW TO BE	FILLED BY APPLICANT)						
5. APPLICANT'S NAME		8. AUTHORIZED AGENT'S NAME A	AND TITLE (agent is not required)					
First - James Middle -	Last - Barnes	First - Robert Middle - S.	Last - Harrington					
Company - Hermitage Inn Real Est	tate Holding Company, LLC	Company - Harrington Engineeri	ng, Inc.					
E-mail Address - jbarnes@hermitage	eclub.com	E-mail Address - HEInet@aol.com	1					
6. APPLICANT'S ADDRESS:		9. AGENT'S ADDRESS:						
Address- PO Box 2210		Address- PO Box 248						
City - West Dover State - V	Zip - 05356 Country - USA	City - N. Pomfret State -	VT Zip - 05053 Country -USA					
7. APPLICANT'S PHONE NOs. w/ARI	EA CODE	10. AGENTS PHONE NOs. w/AREA	CODE					
a. Residence b. Business		a. Residence b. Business c. Fax						
802-464-73		802-457-	3151					
		AUTHORIZATION						
11. I hereby authorize, <u>Bob Ha</u> supplemental information in support of	to act in my behalf as this permit application.	my agent in the processing of this app	olication and to furnish, upon request,					
	NAME, LOCATION, AND DESCRI	PTION OF PROJECT OR ACTIVITY						
12. PROJECT NAME OR TITLE (see	instructions)							
The Hermitage Club Resort								
13. NAME OF WATERBODY, IF KNOW	WN (if applicable)	14. PROJECT STREET ADDRESS ((if applicable)					
Deerfield River		Address 10 Gate House Road						
15. LOCATION OF PROJECT Latitude: •N 42.920049/42.924552	Longitude: °W 72.884994/72.895493	City - Wilmington S	State- VT Zip- 05363					
16. OTHER LOCATION DESCRIPTIO								
State Tax Parcel ID	11.11 21.14.11.11.11.11.11.11.11.11.11.11.11.11	lmington/Dover						
Section - Tow	wnship - Wilmington/Dover	Range -						

17. DIRECTIONS TO THE SITE		
Route 9 to Wilmington, Route 100 north 3 mil	les, Cold Brook Road on left, 2 miles	s, 10 Gate House Road on left, Haystack.
		, -
18. Nature of Activity (Description of project, include	e all features)	
		ATV's, snowmobiles, restaurants, and residential
19. Project Purpose (Describe the reason or purpos	se of the project, see instructions)	
Please see Exhibit 4.	,	
HEE BLOCKE 3	A CALL DEED CED AND OD EU L MATER	
	0-23 IF DREDGED AND/OR FILL MATER	RIAL IS TO BE DISCHARGED
20. Reason(s) for Discharge See attached engineering plan set for impact t	ables.	
 Type(s) of Material Being Discharged and the A Type Amount in Cubic Yards 	mount of Each Type in Cubic Yards: Type Amount in Cubic Yards	Type Amount in Cubic Yards
NA NA	NA	NA
22. Surface Area in Acres of Wetlands or Other Wa		IVA
Acres Primary Impact =1.50 acres, Secondar	•	ct = 0.55 acres
or		
Linear Feet		
23. Description of Avoidance, Minimization, and Co	mpensation (see instructions)	э.
Please see Exhibit 4.		•

24. Is Any Portion of	the Work Already Complete?	XYes No IFYE	S, DESCRIBE THE COMPL	ETED WORK	
16 inch snow-making of 2011/12.	g line lower mountain inst	alled along side existin	ng 12 inch line as emerg	ency repair to keep ski ar	ea open in fall/winter
				4	
25. Addresses of Adjo	ining Property Owners, Lesse	es, Etc., Whose Property	Adjoins the Waterbody (if m	ore than can be entered here, please	attach a supplemental list).
a. Address-]	Please See Exhibit 3: A	Abutters List		
City -		State -	Zip -		
b. Address-					
City -		State -	Zip -		
c. Address-					
City -		State -	Zip -		
d. Address-					
City -		State -	Zip -		
e. Address-					
City -		State -	Zip -		
26. List of Other Certifi	cates or Approvals/Denials re		I, State, or Local Agencies	for Work Described in This A	application.
AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
VT ANR	Act 250 (Master Plan)	700002-25	05-01-2015		
Wilmington DRB	Zoning - Mountain	2014-113		04-09-2015	
VT DEC	404 WDC		08-19-2015		
* Would include but is r	not restricted to zoning, buildir	ng, and flood plain permit			
27. Application is here complete and accurate applicant.	by made for permit or permits . I further certify that I posses	to authorize the work des s the authority to underta	scribed in this application. I ke the work described here	certify that this information in or am acting as the duly a	n this application is uthorized agent of the
αρριισαι ιτ.			Robert	Houngton	08/07/2015
SIGNATUR	E OF APPLICANT	DATE	SIGNA	TURE OF AGENT	DATE
	t be signed by the person		ake the proposed activity	(applicant) or it may be s	igned by a duly

authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

JESSE PELTON & ALISON S. WATT 43 GOVERNOR PECK RD JERICHO, VT 05465 MOUNT SNOW LTD 39 MOUNT SNOW ROAD WEST DOVER, VT 05356

RICHARD & NANCY ST. JEAN 92 BARTON'S WAY CONCORD, MA 01742 HAROLD A. & FIONA S. NEU 158 ELDERWOOD AVENUE PELHAM, NY 10803 JOHN & BARBARA O'MARA PO BOX 2104 WEST DOVER, VT 05356

Hermitage Inn Real Estate Holding Company LLC PO Box 2210 West Dover, VT 05356

Rushing Creek, LLC PO Box 2210 West Dover, VT 05356 DAVID P. RENEHAN TRUSTEE 202 LUDLOW AVENUE SPRING LAKE, NJ 07762

GREEN MOUNTAIN NATIONAL FOREST 231 NORTH MAIN ST. RUTLAND, VT 05701 AARON KEHOE & CARA MACSOUD 1160 85TH STREET BROOKLYN, NY 11228

ALEX HAMMETT 246 E4 32ND STREET APT 1 NEW YORK, NY 10016-6376

SUSAN MCCANN PO BOX 285 MIDDLE HADDAM, CT 05456 GARY ROTHSCHILD 141 LORING AVENUE PELHAM, NY 10803

George F III & Patricia J Fay	Alfred W Sieffert	Ronald J & Laureen Shriberg
1925 Main St	Po Box 977	10 Saltaire Ln
Glastonbury, CT 06033	Wilmington, VT 05363-0977	Bayville, NY 11709
George F Iii & Patricia J Fay	William J & Elizabeth Weidmann	Brian & Amanda G Leroux
1925 Main St	131 Old Tappan Road	124 Bailey Rd
Glastonbury, CT 06033	Old Tappan, NJ 07675	North Haven, CT 06473
William J Claine	Stanislaw Szczepanik Trust	102 Garmisch Court Llc
Po Box 1173	52 Foxcroft Ct	18 Hemlock Dr
Wilmington, VT 05363-1173	Southington, CT 06489	Essex, CT 06426
Dale Ribaudo	John & Robin Pavia	Ronald & Lora Greene
26 Country Club Lane	311 Silver Hill Road	97 Fairview Ave.
East Granby, CT 06026	Easton, CT 06612	Rye, NY 10580
Seth & Noah Goodman	Paul Verrochi	David & Elizabeth Mercier
90 Crestview Circle	33 Beaver Place	32 Horizon Ln
Longmeadow, MA 01106	Boston, MA 02108	Glastonbury, CT 06033
Haystack 201, LLC	Old Ark LLC	Luke & Caitlyn Walsh
39 Keoffernan Road	74 Cedar Cliff	65 Edgewater Drive
Old Greenwich, CT 06870	Riverside, CA 06878	Wilton, CT 06897
George F & Patricia J Fay 1925 Main St Glastonbury, CT 06033	Brian & Amanda G Leroux 124 Bailey Rd North Haven, CT 06473	
William J Claine	William & Virginia Tennison	John E & Rebecca Nesland
Po Box 1173	800 Riverbank Rd	400 Beechwood Rd
Wilmington, VT 05363-1173	Stamford, CT 06903	Ridgewood, NJ 07450
Gregory & Margaret Ziolkowski	Vincent D & Kristen A Crudo	James & Kathleen Moriarty
Po Box 397	427 Bartlett Dr	30 Heide Ct S
Wilmington, VT 05363-0397	Madison, CT 06443	Saint James, NY 11780-3052
John R Chernock, Trustee	Anthony P Dicrosta	Warren & Sigrid Davis
1115 W River St	15 Chittenden Hill Rd	38 Beach Ave
Milford, CT 06460	Clinton, CT 06413	Larchmont, NY 10538

TROKEL MATTHEW J & SWICK SUSAN D WILLIAM J LEONARDI MAGEE-BROWN MARY ELLEN 9 SAXON RD PO BOX 1407 66 MILFORD POINT ROAD MILFORD, CT 06460 NEWTON HIGHLANDS, MA 02461 JAMESPORT, NY 11947-1407 **DULIN GARY** STAIB C ET AL & OCONNOR LOIS **GUY E JR NIDO** C/O DULIN UTOMOTIVE C/O LOIS O'CONNOR 68 LISLE HILL RD 79 BRIDGEPORT AVE 55 MYSTIC COVE RD WILMINGTON, VT 05363 MILFORD, CT 06460 RAYMOND, ME 04071 FRANK DAMMEYER KENNTH M & PAMELA M CORRIVEAU PETER WEDEEN 15 OLD ORCHARD RD PO BOX 816 383 MAIN ST RIVERSIDE, CT 06878 WILMINGTON, VT 05363-0816 CENTER MORICHES, NY 11934-3539 MARK & LONNIE A ALMEIDA HERMITAGE INN RL EST HOLDING CO LLC SETH LAWRENCE-SLAVAS 195 BABBS RD PO BOX 2210 PO BOX 1424 SUFFIELD, CT 06093 **DOVER, VT 05356** WEST DOVER, VT 05356-1424 STRATFIELD ASSOC LP TOWN OF WILMINGTON GEORGE F III & PATRICIA J FAY 60 KATONA DR SUITE 23 PO BOX 217 1925 MAIN ST WILMINGTON, VT 05363-0217 GLASTONBURY, CT 06033 FAIRFIELD, CT 06824-3544 RONALD J & LAUREEN SHRIBERG WILLIAM J & ELIZABETH WEIDMANN CAMEO BUILDERS LLC 10 SALTAIRE LN 131 OLD TAPPAN ROAD 801 NORTH MAIN ST EXTENSION BAYVILLE, NY 11709 OLD TAPPAN, NJ 07675 WALLINGFORD, CT 06492 LEROUX BRIAN & AMANDA G CLAINE WILLIAM J JAMES & KATHLEEN MORIARTY 124 BAILEY RD PO BOX 1173 315 BEACH 143RD ST WILMINGTON, VT 05363-1173 NEPONSIT, NY 11694 NORTH HAVEN, CT 06473 LORISTA HOLDINGS LLC VINCENT D & KRISTEN A CRUDO BROWN JACOB II & OBRIEN ELIZABETH 70 WILLIAM ST 427 BARTLETT DR 53 ABBINGTON TERRACE WALLINGFORD, CT 06492 MADISON, CT 06443 GLEN ROCK, NJ 07452 JAMES & RIOS TANYA ET AL DUNPHY COLD BROOK FIRE DISTRICT NO 1 ROBERT MANNARINO 34 SHELBY RD 18 COLD BROOK RD UNIT 1 400 CHAPEL RD UNIT 3F E NORTHPORT, NY 11731-4931 WILMINGTON, VT 05363 SOUTH WINDSOR, CT 06074 NICHOLAS A & MEREDITH A BRAWER JOSH T & PETER TOLK LOVELL PETER H & SHEA LOVELL PATRICIA 11 LEAFY LN 3 WILLOW DR 48 POINT LOOKOUT E LARCHMONT, NY 10538 WESTON, CT 06883 MILFORD, CT 06460

STEPHEN & FRANCES WEISS CHARLES & KATHARINA DARCY MARK T VARLEY 58 POST OFFICE RD 211 JOANNE DR 201 CARRIAGE DR WACCABUC, NY 10597-1211 EGG HARBOR TOWNSHIP, NJ 08234 SOUTH WINDSOR, CT 06074 THOMAS & CYNTHIA GARTEN JOHN M & NANCY KATCHMAR JOHN S & PHYLLIS LOGAN 77 BLUFF POINT RD 700 SHORE RD APT 3F PO BOX 849 SOUTH GLASTONBURY, CT 06073 LONG BEACH, NY 11561 ISLAND HEIGHTS, NJ 08732-0849 **DENISE PIFFARD** ANDREW & JEANNE MANEGGIA VIRZI MOLETI TRUST 36 33 209TH ST 70 STONY RD PO BOX 382 BOLTON, CT 06043 BAYSIDE, NY 11361 WEST DOVER, VT 05356-0382 GEORGE E & CHRISTA K CONLIN WILLIAM & ANGELA I ALLEN BOGDA MICHAEL J TRST& SUSAN M TRST 4 ALPINE DR 1055 MINE HILL RD 5 NORTH RD WESTBOROUGH, MA 01581 FAIRFIELD, CT 06430 KINNELON, NJ 07405 L DEBRA &LOUIS R CHENEVERT MICHAEL G & REGINA A D'ANTUONO HOWARD MITTLEMAN TRUSTEES 2000 10 FLETCHER RD 42 MADISON AVE 8 ATWATER TERR WESTFORD, MA 01886 MONTVALE, NJ 07645 FARMINGTON, CT 06032 HARRIS ROBERT P & KAREN G TR MARCELA M GROVER HAMILTON JOE M & KUWATA KAREN L PO BOX 2730 21 SPRING ST 132 EAST ST PALM BEACH, FL 33480 RIVERSIDE, CT 06878 SOUTH SALEM, NY 10590 CLAIRE CORNELL JACOBS FAMILY LTD PRTNSHP LISA M BAISLEY 955 26TH ST NW APT 509 5 FOREST PARK DR 49 VIEW ACRE DR WASHINGTON, DC 20037 FARMINGTON, CT 06032 **HUNTINGTON, NY 11743** MICHAEL & TERESA PACKMAN BARRY D & JILL A GOLDBERG MARGARET DECESARE 24 AMALIA LN 82 FOUR MILE RD 9-5 FOXWOOD DR RENSSELAER, NY 12144-8468 WEST HARTFORD, CT 06107 PLEASANTVILLE, NY 10570 JAMES & PAIGE BOYLE DALE RIBAUDO PAVIA III JOHN P & ROBIN 858 VAN ANTWERP PL 26 COUNTRY CLUB RD 311 SILVER HILL RD ORADELL, NJ 07649-1930 EAST GRANBY, CT 06026 EASTON, CT 06612 102 GARMISCH COURT LLC SZCZEPANIK STANISLAW TR DAVID & ELIZABETH MERCIER 18 HEMLOCK DR 52 FOXCROFT CT 32 HORIZON LN ESSEX, CT 06426 GLASTONBURY, CT 06033 SOUTHINGTON, CT 06489

RONALD T & LORA L GREENE 97 FAIRWAY AVE RYE, NY 10580 GOODMAN NOAH & LORI A ET AL 90 CRESTVIEW CIR LONGMEADOW, MA 01106 RUSHING CREEK LLC PO BOX 2210 WEST DOVER, VT 05356

PAUL M VERROCHI 33 BEAVER PL BOSTON, MA 02108 JOHN E & REBECCA NESLAND 400 BEECHWOOD RD RIDGEWOOD, NJ 07450 DANIEL & WENDY SIRACUSA 55 OXBOW LN S WINDSOR, CT 06074

SEAN R & HILLARY R GROGAN 22 MARKS RD RIVERSIDE, CT 06878

MICHAEL & CHRISTINE AMAROSA 37 CARMINE STREET NEW YORK, NY 10014

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GNEPP DOUGLAS & DIANE 59 EAST ORCHARD AVE PROVIDENCE, RI 02906 SIEFFERT ALFRED W PO BOX 977 WILMINGTON, VT 05363-0977 FLUCK LINTON A III & BONITA S 64 E ORCHARD AVE PROVIDENCE, RI 02906-5515

CARYN S & CHRISTIAN URCIUOLI 504 WEST 111TH ST APT 15 NEW YORK, NY 10025

JOSEPH M & KIMBERLY A WILLEN 29 BLUFF POINT NORTHPORT, NY 11768

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Celebrating 35 Years

19. Project Purpose

The purpose of this project is to rehabilitate the existing ski area at Haystack Mountain and Hermitage Inn lands into a year-round resort, which will include ski lifts, adequate snow-making facilities, new maintenance facilities, recreational trails, approximately 550 residential homes, and a new Club House and amenities. The project will bring vitality to the Deerfield Valley and surrounding areas and create economic growth; thus, serving the region as a job-creator, local business booster and revenue creator for the local municipalities. Approximately 550 ski-in/ski-out residential units are proposed to offer residence to the members of the Hermitage Club, and allowing for an open recreational area supporting green lifestyle and minimizing motor vehicle commuting. The outdoor recreational activities include ski, snowmobiling, snowshoeing, skating, sleigh rides, and tubing, as well as summer activities: hiking, biking, boating, and ATV and UTV riding. All facilities are open to the public with limitations, since this is a private resort with 1,500 memberships. Hermitage Club is a family orientated all-year recreational resort which will include multiple facilities; please see below Table for Phasing of Construction, detailed description of proposed development.

(Fatimated)								
Drainat	Description	(Estimated)						
Project	Description	Year Start	Year End					
Club House w/ parking (Base Lodge) (700002-19 Final)	The Club House serves as the main restaurant and gathering place for the resort. It also contains a gym, spa and small retail stores for outdoor gear. It is located	2012	2014					
	between the upper and the lower mountain in the heart of the resort.	Comp	oleted					
Club House Enclosure/Expansion for	Expansion of the Hermitage Base Lodge, including: enclosing existing porches and patio on basement level.	2015	2015					
Retail Area (700002-19G)		Comp	oleted					
CBFD Water System Upgrade	This upgrade involves putting Well #9 online in order to increase the water capacity from 30,000 gpd to 150,000 gpd in order to adequately fulfill the commercial and residential water supply needs and fire safety requirements over the next 10 years.	2017	2019					
CBFD Phase I Wastewater Upgrade	2014	2014						
(2W0204-7)	was expanded; a new blower and a channel grinder are installed. This increases the capacity by 30,000 gpd.	Comp	oleted					
CBFD Phase II Wastewater Upgrade	The second phase of the wastewater treatment plan will allow for a total capacity of the plant of 350,000 gpd. The upgrade includes tertiary treatment with de-nitrification and phosphorus removal.	2017	2019					
GMP Substation (Needs PSB approval under Section 248; therefore Act 250 exempt)	(Needs PSB approval transmission line between Wilmington and Mount Snow is already utilized. A new substation will provide the needed voltage for the Hermitage Club development, as well as		2019					
Stag's Leap Phase I (6 SFD's & Chapel)	This residential development consists of a total of 14 single family homes plus a chapel that would be owned by	2014	2020					
(700002-20)	members of the Hermitage Club.	Construction in Progress						
Stag's Leap Phase I (Remaining 8 Homes)	Construction of the remaining 8 homes on Stag Leap Lane in Phase I of Stag's Leap. The main utility lines and roads	2015	2018					
(700002-20A)	for these units were constructed previously under LUP 700002-20 along with the first 6 homes.		iction in Iress					
Windmill Power Generator @ Summit (700002-19B & 700002- 19B-A)	Windmill will be used to supply power for Summit Building at Haystack Ski Area.	2020	2022					
Tage Ski Lift (700002-19 Final)	This lift connects the existing Haystack Ski area with the Hermitage Inn creating an integrated Ski Resort.	2013	2013					
		Comp	oleted					

Pro	oject	Description	Year	nated) Year				
	•	•	Start	End				
Tage Ski Trail		The trail connects the existing Haystack ski area with the	2013	2013				
(700002-19 Final)		Hermitage Inn.		oleted				
Upper Parki Road	ng Lot &	This parking lot is used by guests for the Club House and surrounding attractions. (Will be requesting construction	2013	2020				
(700002-19	Final)	extension completion date.)	Constru					
,		The last term of the second se		ress				
Chamonix T	E – <i>Pending)</i> Rd Loop	The loop is needed to provide a second access point to the heart of the resort; thus providing safety in case of emergency. (Rolled into Hermitage Hotel 700002-26).	2017	2019				
Chamonix Trail and Fannie Hill Road Improvement (700002-26A – Pending)		In accordance with Hearing Recess Memo (8/12/15), we submitted an amendment application to include all improvements needed for completion of the Chamonix Trail and Fannie Hill Road (rolled into Hermitage Hotel 700002-26).	2016	2018				
Chamonix Trail Ski Tunnel (700002-19E – Pending)		Finish the Chamonix Trail ski tunnel bridge (rolled into 700002-26).	2017	2017				
Snowmaking Withdrawals & Mirror Lake		The existing skiable terrain covered by the snowmaking system is to expand from 127.4 acres to 193.3 acres. First step will include coverage of 154.4 acres of ski terrain and Mt Snow ceasing the usage of Mirror Lake, this will involve some structural changes to the Cold Brook withdrawal. Next, the current water storage capacity for Mirror Lake of 14.6 Mgal may increase to 28.4 Mgal. With this expansion, it is unclear if the Hermitage Club will have the needed water storage; thus a second pond, Siegel Pond, may be proposed for an additional 22 Mgal of storage.	2019	2023				
Ski Trails	Jennifer's Run (700002-26 – Pending) Outcast (700002-26 – Pending)	The bottom portions of existing Jennifer's Run and Outcast Trails will be regraded in the area of the Hermitage Hotel.	2013	2022				
	Inn Chute Trail	The Hermitage Hotel (93 units) with Duplex Villas (14 units), McGovern lots (7 SFD's) and the Inn Home SFD will make use of this trail system as a ski-in/ski-out access. Together with the Tage Lift, the trail system brings together the Haystack Mountain development and the Hermitage Inn site, creating an integrated ski resort.	Page 3 o					

		(Estir	nated)	
Project	Description	Year	Year	
		Start	End	
Mountain Cabins (4) (700002-20 – MC#1 & MC#2 – only)	The Mountain cabins will be mini-restaurants for social events such as birthday parties or family gatherings. One mountain cabin has been constructed.	2015 2024 Construction in Progress		
Six Pac Lift – New 6	This is the main lift connecting the summit with the heart of	2015	2015	
Passenger Bubble Chair Lift top/bottom (replaced Barnstormer) (700033-2)	the resort and the Club House.	Com	Completed	
New Maintenance / Snowmaking Building	The site of the existing maintenance building will be used for the 93-unit Hermitage Hotel. Thus the new maintenance / snowmaking building and associated parking area will house snowmaking pump and controls as well as snow cats and groomers, and will be located near the CBFD Treatment Plant.	2017	2020	
Hermitage Hotel (93 units) (700002-26 – Pending)	This 93-unit condominium hotel with an underground parking garage will be located on the north side of the base area between Inn Chute Trail and Outcast Trail providing ski-in/ski-out access for guests of the hotel.	2017	2024	
Condo Hotel (90 units)	This hotel will be located immediately south of the existing Club House and will provide residential accommodation to the Club members and guests. (MP-1 #21)	2017	2024	
Condo Hotel (90units)	This hotel will be located to the south of the Club House in the southern end of the Upper Parking Lot, and it will provide residential accommodation to the Club members and guests. (MP-1 #22)	2020	2026	
Hotel Villas (7 villas with 14 units)	The Villas will be located to the north of the Hermitage Hotel and will provide residential accommodation to the Club members and guests.	2017	2024	
Chamonix Village Townhomes (13 townhomes; 52 total units) (700002-18)	Residential development: 13 townhomes (52 units) that will be owned by members of the Hermitage Club. a) Three of the townhomes have been constructed.	2011	2026	
(700002-18K – 3, 5, 6 Garmisch Court Way)	 (Complete) b) Three townhomes are currently under construction (3, 5 & 6 Garmisch Court Way construction in progress). 			
(700002-18L – Grenoble Way - Pending)	c) Approval for units 8 & 13 is now pending approval of the Master Plan application, plus obtaining wetlands/401 approval.			
	The majority of the units will look out to the Beginner slope, and have easy ski-in/ski-out access.			

		(Estimated)		
Project	Description	Year	Year	
Stag's Leap Phase II Townhomes (28 units)	This residential development will consist of 7 townhomes (total of 28 units) that would be owned by members of the Hermitage Club.	Start 2020	End 2026	
Mountain Coaster	The coaster will offer scenic ride down the beautiful Haystack Mountain. It's essential for establishing the existing ski area as a four season year round resort.	2019	2020	
Upper Mountain Trailside Homes (36)	The residential development will consist of 36 high-end single family homes that would be owned by members of the Hermitage Club. The majority of the units will have easy ski-in/ski-out access.	2019	2026	
High Country SFD (7)	The residential development will consist of 7 high-end single family homes that will be owned by members of the Hermitage Club. The majority of the units will have easy ski in/ski out access.	2017	2020	
Tage Tubing Chute (700002-19 Altered) This is a small 300 foot long bermed chute for winter sliding on large plastic or rubber tubes, located just north of the Tage Lift.		2013	2013	
	rage Liit.	Completed		
Future Inn Units (10)	In order to better incorporate the Hermitage Inn Site and the rest of the resort, more residential units are proposed. These 2 buildings with 5 units each (10 units total), this expansion will provide accommodation for members next to the renowned Hermitage Inn restaurant.	2017	2022	
Inn Homes SFD (1)	This single family house will provide accommodation for members next to the Hermitage Inn creating a balanced resort development, linking the Hermitage Inn to the larger Haystack resort to the south	2017	2019	
Snowmobile Garages (14) (700002-28 – Pending)	The temporary location of these snowmobile garages is located in the future Hermitage Hotel Villas area. Permanent location of these snowmobile garages will be east of the Upper Mountain Trailside Homes.	2015	2017	
Temporary Snowsports Tent (700002-20C – Pending)	This 70' X 90' tent is needed for ski school and all other snow recreational activities	2016	2019	
Temporary Rescue Facility (700002-19C; C-A; C-B; C-C) & (700002-19C-D – Pending Extension)	Rescue building, lavatory facility at base area used as temporary facility, to be also used as warming hut. Seeking three year extension.	2016	2019	

		(Estir	mated)			
Project	Description	Year	Year			
		Start	End			
Lower Mountain Transfer Lift	bottom of the Mountain (near proposed Stag's Leap Phase					
(700002-20)	II) up to the Six Pac Lift.	Com	pleted			
Putting Green @ Club House, ATV tours, Hiking Trails (700002-22 – Pending)	To add a small putting green and driving range adjacent to the new Base Lodge; provide guided ATV tours during holidays and weekends using existing work roads and trails on the mountain; add a designated pedestrian hiking trail for use from May to November only; and offer scenic daytime tours on all lifts, mostly on weekends and holidays from May to November.	2014	2017			
Lot D West (700002-23 – Permitted)	Development of single-family home with driveway, and utilities on 2.05 acre lot.	2016	2016			
			uction in gress			
Maintenance Building (700002-27 – Withdrawn)	Add a 20 x 20 foot addition onto an existing 50-foot by 80-foot Morton metal building (existing maintenance building)	2015	2015			
Beginner Slope	The upper trail of the Beginner Slope was completed in 2015. The lower half of the Beginners Slope (west of Gate House Trail Road) will be constructed to allow skiers passage to the Lower Mountain.	2011	2018			
Snowmobile / Cross- Country / Hiking Trail	These existing trails throughout the property can be used all year round and are essential for the resort recreational	2013	2015			
(See Exhibit 67)	activities.	Completed				
		1				

23. Description of Avoidance, Minimization, and Compensation (see instructions):

During the design process we have modified the site layout and eliminated some of the proposed residential and commercial facilities in order to decrease the environmental footprint of the development.

Off-Site Alternative:

This resort is planned as a ski in/ski out development; thus eliminating the use of vehicles once the resort destination is reached by tourist. Although Hermitage Club Real Estate Holding Company, LLC owns land in surrounding areas, off-site development is not possible for any of the residential units, if the key concept of ski in/ski out resort is to be accomplished.

The ski-in/ski out concept is especial to making this development profitable. The integration of residential, commercial and recreational facilities is the celling point for this resort at sets it aside from other Vermont reports. Non-essential other venues such as the originally proposed Equestrian center were relocated to off-site locations with less environmental impact.

The concentration of the residential and commercial development of this ski resort on Haystack Mountain also follows the policy 7 of the Windham Regional Plan 2014: "Concentrate ski resort expansion and secondary growth to minimize the trend toward dispersed/sprawl development."

On Site Plan Modifications:

Through the course of this wetland impact permit application process there have been many changes in layout and location of the various parts of this overall project that is The Hermitage Club, as well as wetlands & steam mapping. Arrowwood Environmental provided first full update of wetlands mapping on 09/12/2013. Many efforts have been made to reduce and eliminate impacts as much as practicable while still making the most of the land available for development. The major part of the wetland impact is generated from the expansion of Mirror Lake, which accounts to approximately 55% of the primary impact for this development. Unfortunately, there is no viable alternatives to the design of Mirror Lake that could accommodate the snowmaking needs of this development, refer to Exhibit 13: NAA Analysis. Below is a summary of those efforts:

Significant changes to plans 10/16/2013 (prior to & including) to 02/21/2014:

These plans use Arrowwood Environmental wetlands / streams delineation updated on 01/17/2014:

- Upper Mountain Trailside The development was laid out and impacts to wetland A19 was eliminating;
- Impacts to 337 & 338 was removed as trails are existing;
- High Country Homes / Old Powderhorn Village number of homes was reduced from 32 down to 16, was well as the layout was changed to reduce stream crossings from 4 to 3;
- Equestrian Center the layout was reworked to reduce number of wetlands impacted;
- Chamonix Village (now Grenoble Way) –building locations were shifted to reduce impacts to wetlands 118, 119 and 213;
- New England Village (now Chamonix Village) the layout was changed to remove impacts to wetland 334;
- New England Village (now Stag's Leap Phase II) the entrance drive was changed to eliminate wetland/stream crossing, layout was changed and the 24/30" stormwater pipe was relocating to remove impacts to wetland 304, and reduce impacts to wetlands 332, 120 & 121:
- McGovern Lots the road was realigned to eliminate impacts to 515;
- Hermitage Inn Lots the ski trail size was reduced crossing wetlands, realigned roadway farther from wetlands.

Significant changes to plans 02/21/2014 to 04/21/2014:

• Chamonix Village (Grenoble Way) – The parking and building layout was changed to reduce impacts to wetland 118 & 213.

Significant changes to plans 04/21/2014 to 09/25/2014:

These plans use Arrowwood Environmental wetlands/streams delineation updated on 07/16/2014 and 07/30/2014:

- Equestrian Center this development was moved near airport to eliminate all impacts from proposed location;
- Stag's Leap Phase I the building was moved out of wetland 302 eliminating impacts;
- Lot D West crossing of Cold Brook was removed.

Significant changes to plans 09/25/2014 to 02/02/2015:

These plans use Arrowwood Environmental wetlands/streams delineation updated on 12/03/2014 and 01/14/2015:

- High Country Homes / Old Powderhorn Village one of the driveways was relocated to eliminate stream a crossing;
- Chamonix Village (Grenoble Way) the layout was changed to eliminate impacts to wetland 213 and 118;
- Hermitage Inn Lots the layout was changed to reduce impacts to wetlands, streams and buffers, the entrance location to the development was changed and up-sized bridge was proposed to clear the wetland in that area;
- Proposed Maintenance Building the layout of building and parking was changed to eliminate impacts to wetland 215, eliminate stream impacts and reduce buffer impacts;
- Stag's Leap Phase II the layout was changed to reduce impacts to wetland 121;
- Cold Brook Trail the trail was removed completely eliminating wetland and stream impacts.

Significant changes to plans 02/02/2015 to 05/07/2015:

These plans use Arrowwood Environmental wetlands / streams delineation updated on 04/30/2015 and 06/26/2015:

- Chamonix Village Building 7 was reoriented to nearly eliminate impacts to wetland 335, interconnector ski trail was narrowed to reducing impacts to wetland 334;
- Hermitage Inn Lots the driveways and building envelopes revised to further reduce impacts to stream and wetland buffers;
- Stag's Leap Phase I the proposed stormwater pocket pond was moved to eliminate impacts to wetland 218.

Significant changes to plans 05/07/2015 to 10/01/2015:

These plans use Arrowwood Environmental wetlands/streams delineation updated on 04/30/2015 and 06/26/2015:

- Chamonix Village Eliminate Building 7 and Building 8 in order to minimize impacts to wetlands 336 and stream buffer impact to Oak Brook. The 8 units will be added to the Condo Hotel 146.
- Hermitage Inn Lots House 1 and 2 are eliminated in order to minimize the impact to the perennial stream at that area. The 2 units will be added to the Condo Hotel 146.
- Haystack Withdrawal This withdrawal is being eliminated from the plans for the next 5 years. Since this is a private resort with low terrain usage compare to other ski resorts the need for snowmaking capacity is hard to predict. Hermitage Club will observe the need for snowmaking water at Haystack Mountain during the next 5 years and might propose changes to the withdrawal structure as needed after that 5 years period.

Significant changes to plans 10/01/2015 to 12/15/2015:

These plans use Arrowwood Environmental wetlands/streams delineation updated on 04/30/2015 and 06/26/2015:

• Stream impact consolidation per ANR request. Stream buffer impact changes: proposed trees to restore stream buffers.

Significant changes to plans 12/15/2015 to 11/14/2016:

- Arrowwood Environmental wetlands / streams updates 06/16/2016, 11/01/2016, 11/07/2016;
- 02/25/2016 Stream impact changes @ SC#4, SC#6, SC#14, Siegel Pond adjustment of impacts to better match design;
- 03/18/2016 Removed Mountain Coaster from 2 year project list removed impacts to Wetland 706; Added impacts to Wetland 707;
- 06/24/2016 Streams removed SC#2B, added impacts to SC#2A (Changed design of two shorter culverts to one long one). Wetlands – buffer Impacts to 118 reduced (Lower Mountain Lift), removed impacts to 332 (related to existing snowmaking line), adjusted buffer impacts to 359 to better match design, 707 to include buffer impacts;
- 07/11/2016 Wetlands removed all impacts to 118 (Lower Mountain Lift), changed notes to impacts to 332 (removed snowmaking line);
- 11/04/2016 New Arrowwood wetland delineation study found Wetlands 343 & 344 to be one wetland, and reclassified it as such as 343. This increased the buffer impact to 343.

We ask that the mitigation for this development is accepted as in-lieu fee.

Matthew Trokel

9 saxon rd Newton, Ma 02461 617 823 4898 mtrokel@verizon.net

July 15, 2015

Robert Fisher 114 Main St Brattleboro, VT 05302

Dear Mr Fisher,

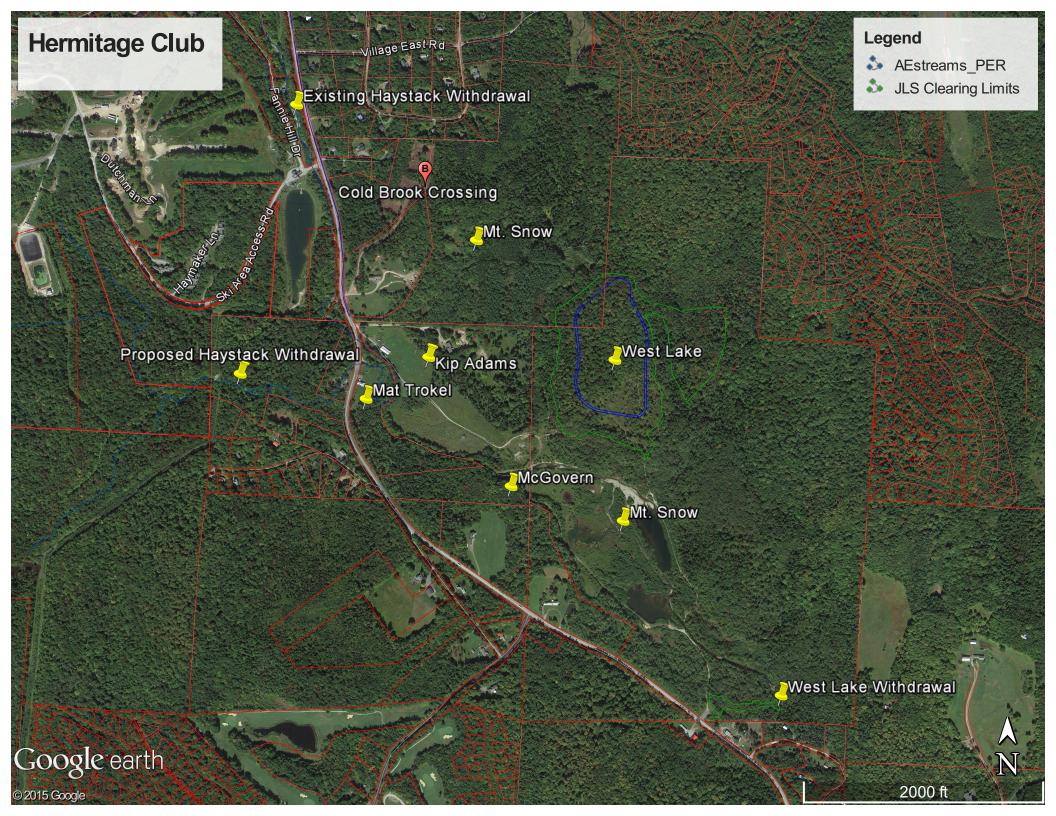
Thank you for reaching out to me and explaining the current situation with water use and the Hermitage Holding co. My understanding is that the State is requesting that the Hermitage Co purchase some of my land in order to expand water flow into Mirror Lake for snowmaking purposes via a new wier. This request is due to a new needs analysis performed recently by the State.

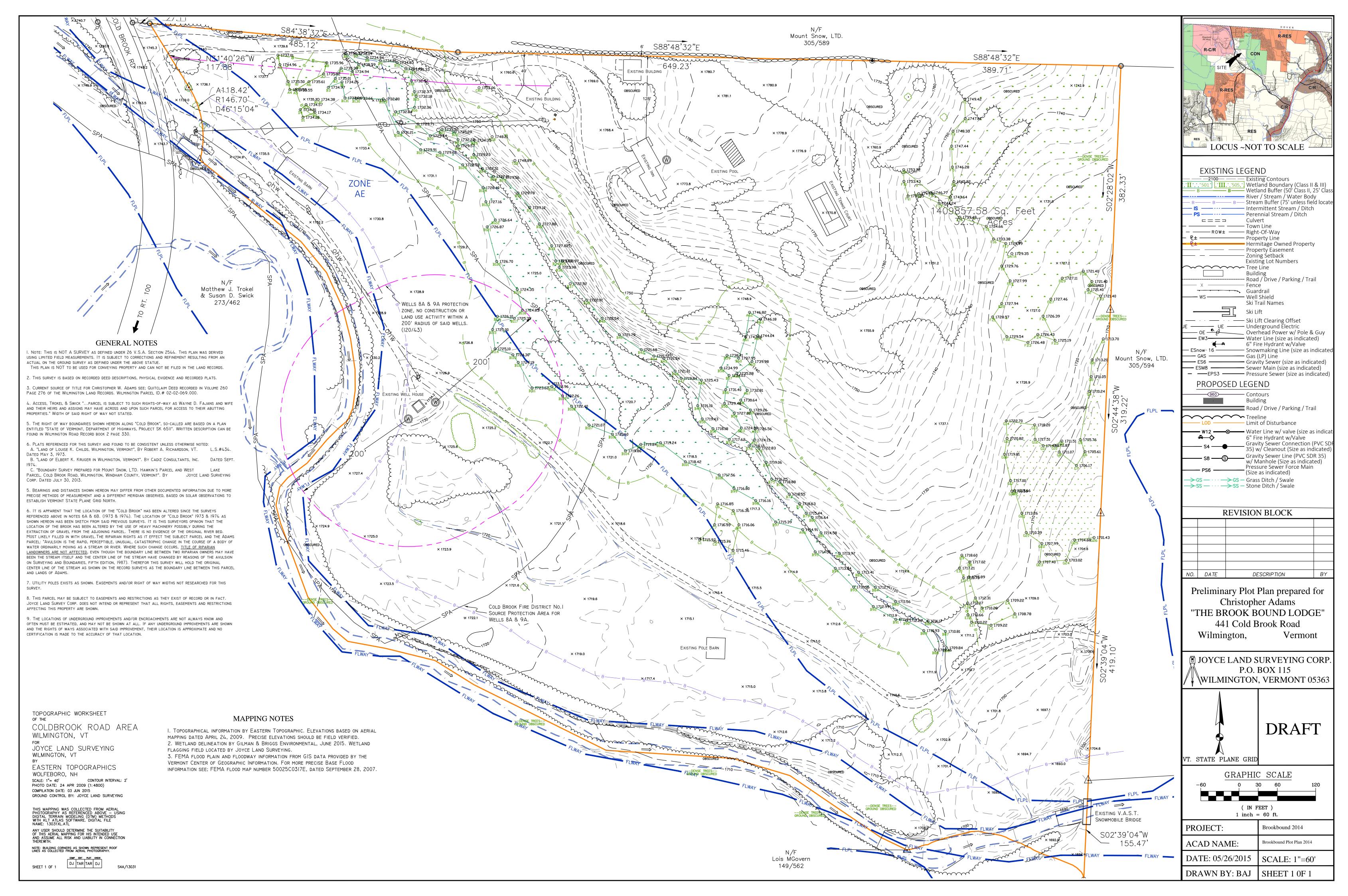
Unfortunately, I am not interested in selling any land at this time. We use our land for various recreational activities and I have no desire to lessen my own access to the beautiful land surrounding our property. I am also not interested in having any new construction on our land or any new water pumping systems, so leasing or conveying land rights would also not be a reasonable alternative at this time.

Hopefully this situation can be resolved without resorting to using my land. Thank you for your time.

Sincerely yours,

Matthew Trokel





Hermitage Club at Haystack Mountain Mountain Master Plan Project Wetland Summary Tables

Table 1: Functions and Values Summary

Wetland ID	Floodflow Alteration	Sediment/Toxicant Retention	Groundwater Recharge	Nutrient Removal Retention	Fish and Shellfish Habitat	Wildlife Habitat	Production Export	Unique/Heritage	RTE Species	Educational/ Scientific Value	Recreation	Visual Aesthetics	Erosion Control
118	x	х		х		х							х
119		х											
120	х	х											
121	х	х											
124		х											
216		х											
305		х											
332		х							х				
334		х											
335		х	х	х									х
336		х											
346		х		х		x							х
356		х											
417		х	x	х									х
510		х	x										
514		х	x										
531		х	x										
535		х	x										
536		х											
706		х	х						х				
707		х		х									х
708		х											
A14	x	x	х										

Hermitage Club at Haystack Mountain Mountain Master Plan Project Wetland Summary Tables Table 2. Locational Data

Wetland ID	Wetland	Latitude Longitude		Site Visit w/
	Classification			State District
				Ecologist
118	2	42.922209	-72.893538	9/12/2013
119	3	42.922178	-72.891967	9/12/2013
120	3	42.921944	-72.885925	NA
121	3	42.922884	-72.886353	NA
124	3	42.921664	-72.885283	10/29/2013
216	3	42.920918	-72.891972	10/29/2013
305	3	42.922624	-72.88691	10/29/2013
332	2	42.924307	-72.887712	10/29/2013
334	3	42.923432	-72.890076	10/29/2013
335	3	42.92322	-72.891385	10/29/2013
336	3	42.92302	-72.891739	NA
346	3	42.927061	-72.891611	9/12/2013
356	3	42.924948	-72.896686	10/29/2013
417	2	42.918581	-72.885594	8/21/2013
510	3	42.927265	-72.890528	9/25/2013
514	3	42.925536	-72.891864	9/12/2013
531	3	42.920164	-72.883929	9/12/2013
535	2	42.920406	-72.885434	8/21/2013
536	2	42.919741	-72.885403	8/21/2013
706	2	42.922535	-72.897747	NA
707	2	42.924656	-72.896737	NA
A14	3	42.922307	-72.885315	10/29/2013

Wetland ID	Size of Wetland Complex (sf)	Natural Community Types Present	Landscape Position	Wetland Hydroperiod	Direction of Flow	Influence of Hydrology on Wetland Complex	Surrounding Landuse	Pre-Project Cumulative Impacts to Wetland
				Seasonal		Surface water runoff is primary		
118	12512.3922	Shallow emergent marsh	Terrace	ponding	North to south	hydrologic input	Ski area	Clearing for lift line
110	12312.3322	Shahow chiergene marsh	remace	porturing	North to south	Surface water	Ski di ca	cicaring for int line
				Seasonal		runoff is primary		Roadside
119	2714.83344	Shallow emergent marsh	Terrace	ponding	No streams	hydrologic input	Road/Forest	maintenance
				Saturation,		Surface water		
				Seasonal		runoff is primary		
120	48015.92664	Alder swamp	Terrace	ponding	No streams	hydrologic input	Ski trails	Ski trail maintenance
						Surface water		
		Alder swamp/Shallow		Seasonal		runoff is primary		
121	25964.67852	Emergent Marsh	Terrace	saturation	No streams	hydrologic input	Ski trails	Ski trail maintenance
						Surface water		
124	2220 05222		_	Seasonal		runoff is primary	C1 :	C1
124	2229.05232	Shallow emergent marsh	Terrace	saturation	No streams	hydrologic input Surface water	Ski trails	Ski trail maintenance
				Seasonal		runoff is primary		
216	1108.42776	Shallow emergent marsh	Terrace	saturation	No streams	hydrologic input	Forest	NA
210	1100.42770	Shahow chicigent marsh	TCTTacc	Saturation	NO 3ti cams	Surface water	Torest	INA
				Seasonal		runoff is primary		
305	1756.29564	Wet Meadow	Terrace	saturation	No streams	hydrologic input	Ski trails	Ski trail maintenance
						Surface water		
				Seasonal		runoff is primary		
332	9925.62516	Wet Meadow	Terrace	saturation	No streams	hydrologic input	Ski trails	Ski trail maintenance
						Surface water		
				Seasonal		runoff is primary		
334	10549.92708	Wet Meadow	Terrace	ponding	No streams	hydrologic input	Ski trails	Ski trail maintenance
				Saturation,		Groundwater		
				Seasonal		discharge/surface		Roadside
335	11500.929	Seep	Headwaters	ponding	south to north	water runoff	Road/Forest	maintenance
						Surface water		
226	2224 55502	Challana and and and	T	Seasonal	No standard	runoff is primary		Roadside
336	3331.55592	Shallow emergent marsh	Terrace	ponding Saturation,	No streams	hydrologic input Groundwater	road/forest	maintenance
				Seasonal		discharge/surface		
346	4406.70384	Seep	Hillslope	ponding	south to north	water runoff	forest	NA
			,	F		Surface water		
				Seasonal		runoff is primary		
356	448.75512	Shallow emergent marsh	Terrace	ponding	No streams	hydrologic input	Forest	Clearing
				Saturation,		Groundwater		
				Seasonal		discharge/surface	Forest/Mirror	
417	7329.44916	Seep	Hillslope	ponding	west to east	water runoff	Lake	NA
						Groundwater		
		_				discharge/surface		
510	1795.19472	Seep	Hillslope	Saturation	No streams	water runoff	Forest	NA
				Conconni		Groundwater	Forest/Desiden	
E14	3570.30828	Soon	Hillsland	Seasonal	No strooms	discharge/surface	Forest/Residen tial	Residential clearing
514	JJ / U.3U0ZÕ	Seep	Hillslope	saturation	No streams	water runoff Groundwater	ciai	nesidential clearing
				Seasonal		discharge/surface		1
531	924.25608	Seep	Hillslope	saturation	No streams	water runoff	Forest/Road	NA
		r				Groundwater	,	1
				Seasonal		discharge/surface	Forest/Mirror	Clearing on shores of
535	6217.84152	Seep	Hillslope	saturation	No streams	water runoff	Lake	Mirror Lake
						Surface water		
				Seasonal		runoff is primary	Forest/Mirror	Clearing on shores of
536	21354.4188	Alder swamp	Hillslope	saturation	No streams	hydrologic input	Lake	Mirror Lake
						Groundwater		
				Seasonal		discharge/surface		1
706	27744.06096	Seep	Hillslope	saturation	No streams	water runoff	Ski trails	Ski trail maintenance
				seasonal		Surface water		1
707	2240.0455			saturation;drain	L	runoff is primary		GIV. II
707	2318.9166	Wet Meadow	Hillslope	age patterns	North to south	hydrologic input	ski trails/forest	Ski trail maintenance

						Surface water		
				seasonal		runoff is primary		
708	2248.04448	Wet Meadow	Hillslope	saturation	North to south	hydrologic input	ski trails/forest	Ski trail maintenance
						Groundwater		
				Permanently		discharge/surface		Roadside
A14	11415.50784	Seep	Terrace	saturated	No streams	water runoff	Road/Forest	maintenance

Table 4. Wetland Characterization Summary	Data

	Description of Subject Wetland					Description of Surrounding Upland			
Wetland ID	Context of Congrel Landway		Wetland			Upland			
	Wetland	General Landuse	Vegetation	Wetland Soils	Wetland Hydrology	General Landuse	Vegetation	Upland Soils	
							Fagus grandifolia,		
							Acer		
			Doellingeria		Oxidized		pensyvanicum,		
	Northern		umbellata,		rhizospheres, water		Dryopteris		
118	boundary	Naturally vegetated	Onoclea sensibilis	Sandy redox	stained leaves	Forest/Road	marginalis	Worden	
			Onoclea sensibilis,						
			Aster umbellatus,						
			Solidago rugosa,	Redox dark	Oxidized		l		
119	Overall wetland	Cleared roadside	Willow sp.	surface	rhizospheres	Road	NA	Worden	
			Onoclea sensibilis,						
			Carex sp., Salix	Depleted matrix,					
	Northern		sp., Betula	depleted below					
120	boundary	Ski trails	alleghaniensis	dark surface	Saturation	Ski trail	Mown ski trail	Worden	
	,								
	Western			Redox dark	Oxidized				
121	Boundary	Ski trails	Carex crinita	surface	rhizospheres	Ski trail	Mown ski trail	Sheepscot	
			Onoclea sensibilis,						
	Northern		Carex sp., Salix		Oxidized				
124	boundary	Forest/ski trails	sp., Spiraea sp.	Sandy redox	rhizospheres	Ski trail	Mown ski trail	Sheepscot	
							Red spruce		
					Oxidized		northern		
					rhizospheres,		hardwood		
216	Overall wetland	Naturally vegetated	Onoclea sensibilis	LoamGley	saturation	naturally vegetated	forest	Worden	
	Southern		Carex gynandra,	Redox dark	Oxidized				
305	boundary	Ski trails	Onoclea sensibilis	surface	rhizospheres	Ski trail	Mown ski trail	Worden	
303	boundary	JKI CIUIIS	Onocica sensionis	Surrece	THEOSPHEICS	JKI CIGII	Wiewii Ski tran	Worden	
			Onoclea sensibilis,						
			Phalarus	Redox dark	oxidized			Houghtonville-	
332	Overall wetland	Ski trails	arundinacea	surface	rhizospheres	Ski trail	Mown ski trail	Rawsonville	
							Hemlock		
							Northern		
					Oxidized		Hardwood	Houghtonville-	
334	Overall wetland	2ki traiis	Onoclea sensibilis	depleted matrix	rhizospheres	Ski trail	Forest	Rawsonville	
							Fagus grandifolia,		
							Acer		
			Betula		Oxidized		pensylvanicum		
	Western		alleghaniensis,	Redox dark	rhizospheres,		, Mitchella	Houghtonville-	
335	Boundary	Forest	Onoclea sensibilis	surface	Drainage patterns	Road/forest	repens	Rawsonville	
							Red spruce		
							northern		
			Onoclea sensibilis,		Oxidized		hardwood	Houghtonville-	
336	Overall wetland	Cleared roadside	Thyphasp.	Depleted matrix	rhizospheres	Road/forest	forest	Rawsonville	
							Hemlock		
	Western		Osmundastrum	Depleted dark			Northern Hardwood		
346	Boundary	Forest	cinnamomeum	surface	Saturation	Forest	Forest	Mundal	
5 70	25anaar y		ccum	Surface	Saturation		Northern	andui	
	Northern		Carex gynandra,	Redox dark	Oxidized		Hardwood	Houghtonville-	
356	boundary	Cleared/disturbed	Spiraea alba	surface	rhizospheres	Forest/clearing	Forest	Rawsonville	
								1	

n	1		ı	1	1	ı	ı	1
417	Overall wetland	Forest	Onoclea sensibilis, Carex crinita	Histosol	Surface water, high water table, saturation	Forest/Mirror Lake	Betula alleghaniensis, Acer saccharum, Fraxinus americana, Parathelypteri s noveboracensi s, Dryopteris intermedia	Houghtonville- Rawsonville
510	Overall wetland	Forest	Impatiens capensis, Onoclea sensibilis, Osmunda claytonia	Redox dark surface	Saturation	Forest	Hemlock Northern Hardwood Forest	Mundal
514	Overall wetland		Osmundastrum cinnamomeum, Onoclea sensibilis, Carex scabrata, Glyceria sp, Impatiens capensis, Carex	Depleted matrix		Forest/Residential	Hemlock Northern Hardwood Forest	Rawsonville-hogback
			Carex torta, Parathelypteris noveboracensis, Solidago rugosa, Carex scabrata, Glyceria striata,		Oxidized	Forest/Road/Mirror	Hemlock Northern	
531	Overall wetland	Forest		Sandy redox	rhizospheres	Lake Forest/Road/Mirror	Forest Hemlock Northern	Worden
535	Overall wetland Overall wetland	Forest/cleared Forest/cleared	sensibilis, Salix sp.,Onoclea sensibilis, Juncus	Depleted Matrix Depleted matrix, depleted below dark surface	Saturation Saturation	Lake Forest/Mirror Lake	Forest Betula populifolia, Populus tremuloides, Acer saccharum, Solidago canadensis	Sheepscot Sheepscot
			Onoclea sensibilis,		Oxidized		Fagus grandifolia, Acer pensylvanicum , Dryopteris	
706 707	Overall wetland Overall wetland		Carex crinita Carex sp.	Sandy redox Very shallow dark surface	rhizospheres Oxidized rhizospheres	Ski trail ski trail/forest	marginalis Northern Hardwood Forest	Rawsonville-hogback Houghtonville- Rawsonville
708	Overall wetland		Carex sp.	Very shallow dark surface	Oxidized rhizospheres	ski trail/forest	Northern Hardwood Forest Northern	Houghtonville- Rawsonville
A14	Southern boundary	Naturally vegetated	Scrub shrub	NA	NA	Road/forest	Hardwood Forest	Sheepscot

Hermitage Club at Haystack Mountain Mountain Master Plan Project Wetland Summary Tables Table 5. Wetlands Impact Summary Table

	PRIMARY-	SECONDAR		
	Grading	Y- Clearing	INDIRECT	
Wetland ID	(sf)	(sf)	(sf)	IMPACT DESCRIPTION
118		2,521	9,984	Tree Clearing for Lower MTN Lift
119	364		2,353	Roadway & Parking construction, grading
120	11,272		30,935	Roadway construction, Snowmaking Line
121	2,225		25,965	Snowmaking Line
122			1,561	Indirect only
124	493		1,736	Roadway construction
125			2,881	Indirect only
213			7,201	Indirect only
215			3,338	Indirect only
216	1,108			Maintenance Building construction, grading
217			1,096	Indirect only
218			728	Indirect only
302			4,219	Indirect only
304			2,825	Indirect only
305	125		1,632	Future Utilities
306			351	Indirect only
307			2,301	Indirect only
312			362	Indirect only
316			9,845	Indirect only
330			3,954	Indirect only
331			1,449	Indirect only
332	1,341		8,591	Snowmaking Line
334		2,174	8,376	Roadway construction, Future Trail - Tree Clearing
335	57		11,445	Roadway construction, retaining wall
336	3,332			Building #7 construction, grading
337			10,158	Indirect only
338			3,596	Indirect only
339				Indirect only
340			14,328	Indirect only
341			541	Indirect only
342			2,215	Indirect only
343			3,552	Indirect only
344			2,015	Indirect only
345			2,042	Indirect only
346		859	3,547	Future Trail - Tree Clearing
347			1,561	Indirect only

348			678	Indirect only
350			2,016	Indirect only
351			1,277	Indirect only
352			1,073	Indirect only
356	449			Grading - Fill
357			5,327	Indirect only
358			1,686	Indirect only
359			11,140	Indirect only
361			4,902	Indirect only
362			114	Indirect only
365			499	Indirect only
374			1,177	Indirect only
415			2,710	Indirect only
416			697	Indirect only
417	7,330			Mirror Lake Expansion
419			891	Indirect only
420			2,459	Indirect only
507			3,215	Indirect only
508			499	Indirect only
509			1,534	Indirect only
510		446	1,346	Indirect only
514	3,571			Roadway construction
515			4,476	Indirect only
530			262	Indirect only
531	925			Mirror Lake Expansion
				Indirect only
532			4,360	
			,	
				Indirect only
533			30,777	·
			,	
				Indirect only
534			718	,
				Mirror Lake Expansion
535	6,218			<u> </u>
	, -			
				Mirror Lake Expansion
536	21,355			<u> </u>
	,			
				Indirect only
700			19,314	,
			-,	

П			1	
701			898	Indirect only
701			050	
				Indirect only
705			20,649	
706		1835	27,743	Tree Clearing for Mountain Coaster
700		1833	27,743	
707	2,319			Grading - Fill
708	2,248			Grading - Fill
700	2,240			Grading 1 iii
781			582	Indirect only
782			1 245	Indirect only
702			1,243	man cet only
783			2,001	Indirect only
784			667	Indirect only
704			007	man cet only
785			2,204	Indirect only
786			1.683	Indirect only
7.50			2,003	
312b			624	Indirect only
418a			229	Indirect only
1200			003	
800a			2,235	Indirect only
800b			1 912	Indirect only
2002			1,512	man cee omy

A14	320		10,530	Roadway Fill, Utilities
A1			2,425	Indirect only
A2			6,075	Indirect only
A23			15,766	Indirect only
A24			1,534	Indirect only
A3			276	Indirect only
A5		_	6,116	Indirect only
A8			7,218	Indirect only
A9			1,826	Indirect only

				PRIMARY	PRIMARY	INDIRECT				
STREAM ID				STREAM	STREAM	IMPACTS				
(or LOCATION)	New Consusts Dridge	SHEET #	OHW (ft)	Grading LF	Grading SF	100' DS	IMPACT NOTES	Stream	Structure Size	Project Description
	New Concrete Bridge w/ Open Bottom for									
SC#1	roadway	CW-101B	8	120	1,800	1,500	New Open Bottom Arch Culvert for Roadway	OB-T7	6'x100'x4' Precast Concrete Bridge	Upper Mtn Trailside Road
	Replace Ex. Culvert				_,	_,	,	00 .7		opper men manside nodd
	with Open Bottom									
	Arch Culvert for						Replace Ex. Culvert with Open Bottom Arch		15' x 40' and 15' x 80' open bottom	Upper Mtn Trailside Trail/Road
SC#2	Roadway, Trails	CW-102A1	15	220	2,702	2,000	Culvert for Roadway, Trails	Oak Brook	culverts	Culvert Replacement
	Replace Ex. Culvert with Open Bottom									
	Arch Culvert for Hotel						Replace Ex. Culvert with Open Bottom Arch			
SC#3	fill & Trail	CW-102A1	15	75	901		Culvert for Hotel fill & Trail	Oak Brook	15' x 50' open bottom culvert	Work Road Culvert Replacement
	Replace Ex. Culvert								·	
	with Open Bottom									
	Arch Culvert for						Replace Ex. Culvert with Open Bottom Arch			Oak Brook/Fannie Hill Culvert
SC#4	Roadway Replace Ex. Culvert	CW-102A1	30	105	1,279	4,000	Culvert for Roadway	Oak Brook	30' x 60' open bottom culvert	Replacement
	with Open Bottom									
	Arch Culvert for						Replace Ex. Culvert with Open Bottom Arch		3'x40' Open Bottom Arch Culvert to	
SC#5	Roadway	CW-102B	3	60	180		Culvert for Roadway	CB-T6-S9	Replace Culvert	High Country Road
	New Open Bottom								·	,
	Arch Culvert for									
SC#6	Roadway	CW-102D	2	50	100	200	New Open Bottom Arch Culvert for Roadway	OB-T2	6'x40' Open Bottom Arch Culvert	Chamonix Village Road
	New Bridge Crossing									
SC#7	for Hermitage Inn Lots	CW-102F	13	0	0	n	New Bridge Crossing for Hermitage Inn Lots	CB-T6	24'x40' Bridge	Hermitage Lots Road
JCII 7	New Open Bottom	CW 1021	13	•	•		New Bridge crossing for Hermitage IIII 2015	CB-10	24 A40 Bridge	Hermitage Lots Road
	Arch Culvert for									
SC#8	Roadway	CW-102F	4	70	700	1,000	New Open Bottom Arch Culvert for Roadway	CB-T6	6'x50' Open Bottom Arch Culvert	Hermitage Lots Road
	New Open Bottom									
CC#0	Arch Culvert for	CW 1025		50	200		New Open Bottom Arch Culvert for Proposed	CD TC C7 C4	AlvAOLOGGE Bettern Arch Culvert	Longlor of Tari
SC#9	Proposed Ski Trail New Open Bottom	CW-102F	4	50	300	600	Ski Trail	CB-T6-S7-S1	4'x40' Open Bottom Arch Culvert	Inn Chute Ski Trail
	Arch Culvert for						New Open Bottom Arch Culvert for Proposed			
SC#10	Proposed Ski Trail	CW-102F	3	90	810		Ski Trail	CB-T6	6'x60' Open Bottom Arch Culvert	Inn Chute Ski Trail
	New Bridge Crossing								1-Span Bridge to replace snowmobile	
SC#11	for the Ratheau Lot	CW-102G	30	0	0	0	New Bridge Crossing for the Ratheau Lot	Cold Brook	bridge	Kingsley Bridge
	Cald Dual Nith do									
SC#12	Cold Brook Withdrawal upgrades	CW-102K	70	15	1,050	7,000	Cold Brook Withdrawal upgrades	Cold Brook	Upgrades to Cold Brook Withdrawl	Cold Brook Withdrawl
JC#12	upgraues	CAA-TONK	7.0	1.0	1,030	7,000	Cold brook Withurawai upgrades	COIU BIOOK	opgrades to cold blook withdrawl	COIG BLOOK WILLIGIAMI
SC#13	Mirror Lake Expansion	CW-102M	6	70	420	600	Mirror Lake Expansion	CB-T3	Mirror Lake Outlet Structure	Mirror Lake Expansion
	, and the second					-	pro re-r		4'x40' Open Bottom Arch Culvert	
SC#14		CW-102M	6	365	2,190	600	Mirror Lake Expansion	Isolated- 1	(remove culvert DS)	Haystack Brook Withdrawl
	Proposed Haystack									
SC#15	Brook Withdrawal	CW-102L	30	20	600	3,000	Proposed Haystack Brook Withdrawal	Haystack Brook	Haystack Brook Withdrawl	Mirror Lake Expansion
Lower MTN Lift	Tree Clearing for Lower MTN Lift	CW-102D	4	0	0	0	Troo Clearing for Lower MTN Lift	UD TO	Lower Mountain Lift Clearing	Lauran Marutain Lift
Lower MTN Lift	Mountain coaster	CVV-102D	4	U	U	U	Tree Clearing for Lower MTN Lift	HB-T3	Lower Mountain Lift Clearing	Lower Moutain Lift
MTN Coaster	clearing	CW-101C	4	0	0	0	Mountain coaster clearing	OB-T4-S2	Mountain Coaster Clearing	Mountain Coaster
	Siegel pond		1	-	-	_				- Courter
Siegel Pond	construction	CW-102L	2	70	281	392	Proposed Siegel Pond	HB-T1	Siegel pond construction	Seigel Pond

Project/Site: Mountain Tract		City/County: Do	over	Sampling Date: 9/18/14		
Applicant/Owner: Hermitage/Haystack			State:	VT Sampling Point: 2		
Investigator(s): DB		Section, Townsl	nip. Range:			
Landform (hillside, terrace, etc.): hillslope			ive, convex, none): none	Slope (%): 15		
Subregion (LRR or MLRA): LRR R	Lat: 42.921643	`	Long: -72.893351	Datum: Upland		
	Lat. 42.021040		<u>-</u>	· · · · · · · · · · · · · · · · · · ·		
Soil Map Unit Name: Worden				sification: 2		
Are climatic / hydrologic conditions on the		-	 `	n in Remarks.)		
Are Vegetation, Soil, or H	ydrologysignifica	ntly disturbed?	Are "Normal Circumstances" p	oresent? Yes x No		
Are Vegetation, Soil, or H	ydrologynaturally	problematic?	(If needed, explain any answer	rs in Remarks.)		
SUMMARY OF FINDINGS – Attac	ch site map showing	g sampling po	int locations, transects	s, important features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sam	pled Area			
Hydric Soil Present?	Yes No X	within a W		No X		
Wetland Hydrology Present?	Yes No X		nal Wetland Site ID: Wetland			
NH Forest/shallow bedrock/bouldery						
HYDROLOGY				_		
Wetland Hydrology Indicators:			Secondary Ind	licators (minimum of two required)		
Primary Indicators (minimum of one is rec	uired; check all that apply	')	Surface S	oil Cracks (B6)		
Surface Water (A1)	Water-Staine	ed Leaves (B9)	Drainage I	Patterns (B10)		
High Water Table (A2)	Aquatic Faun	na (B13)				
Saturation (A3)		arl Deposits (B15) Dry-Season Water Table (C2)				
Water Marks (B1)		Ifide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)		zospheres on Livin	· · · —	Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Reduced Iron (C4)		r Stressed Plants (D1)		
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck S	Reduction in Tilled		Geomorphic Position (D2) Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery		n in Remarks)		graphic Relief (D4)		
Sparsely Vegetated Concave Surface		ii iii rieiiiaiks)		ral Test (D5)		
Field Observations:	(20)			14. 1001 (20)		
Surface Water Present? Yes	No x Depth (inch	es):				
Water Table Present? Yes						
Saturation Present? Yes	No x Depth (inch		Wetland Hydrology Preser	nt? Yes No_X_		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, INA	monitoring well, aerial pho	tos, previous inspe	ections), if available:			
Remarks:						

				Sampling Point	2
Profile Description: ([Describe to the de	epth needed to document the indicator or co	nfirm the absence of in	dicators.)	
DepthN	1atrix	Redox Features			
inches) Color (mo	oist) %	Color (moist) % Type ¹ Loc ²	Texture	Remark	KS
0-7 5yr 3/2	2 100		loamy/clayey	loose/d	ry
	— —				
	·	M=Reduced Matrix, CS=Covered or Coated San		n: PL=Pore Lining	
Hydric Soil Indicators:				oblematic Hydric	
Histosol (A1)		Polyvalue Below Surface (S8) (LRR R,		(10) (LRR K, L, MI	
Histic Epipedon (A2	<u>2</u>)	MLRA 149B)		Redox (A16) (LRF	
Black Histic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 149		Peat or Peat (S3) (
Hydrogen Sulfide (A	44)	High Chroma Sands (S11) (LRR K, L)	Polyvalue Be	low Surface (S8) (RR K, L)
Stratified Layers (A	5)	Loamy Mucky Mineral (F1) (LRR K, L)	Thin Dark Su	rface (S9) (LRR K ,	L)
Depleted Below Da	rk Surface (A11)	Loamy Gleyed Matrix (F2)	Iron-Mangane	ese Masses (F12)	(LRR K, L, R)
Thick Dark Surface	(A12)	Depleted Matrix (F3)	Piedmont Flo	odplain Soils (F19)	(MLRA 149B)
Sandy Mucky Mine		Redox Dark Surface (F6)		(TA6) (MLRA 144	
Sandy Gleyed Matr		Depleted Dark Surface (F7)	Red Parent M		, , ,
Sandy Redox (S5)	()	Redox Depressions (F8)		Dark Surface (TF1	2)
Stripped Matrix (S6)	Marl (F10) (LRR K, L)		n in Remarks)	-/
Dark Surface (S7)	,	Man (170) (Entry, E)	Other (Explain	ir iii ricinans)	
Blanding to the column of	:	weathered by release are the consequent well and elicitive			
Restrictive Layer (if ob		wetland hydrology must be present, unless distu	irbed or problematic.		
Type: Bedrock					
Depth (inches):	7		Hydric Soil Presen	t? Yes	No X
Remarks:					

	Absolute 6 Cover 25 70 1 5	Dominant Species? Yes Yes	Indicator Status FACU FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
 Fagus grandifolia Prunus serotina Acer saccharum 	70 1	Yes	FACU	That Are OBL, FACW, or FAC: (A)
3. Prunus serotina 4. Acer saccharum	1			That Are OBL, FACW, or FAC: (A)
4. Acer saccharum		No	FACU	
	5			I Total Number of Deminent
5.		No	FACU	Total Number of Dominant Species Across All Strata: 4 (B)
				Persont of Descinant Creation
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B
7.				Prevalence Index worksheet:
	101	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 0 x 1 = 0
1. Fagus grandifolia	5	No	FACU	FACW species 0 x 2 = 0
2. Acer pensylvanicum	35	Yes	FACU	FAC species 1 x 3 = 3
3. Acer rubrum	1	No	FAC	FACU species 157 x 4 = 628
4.				UPL species 0 x 5 = 0
5.				Column Totals: 158 (A) 631 (B
6.				Prevalence Index = B/A = 3.99
7.				Hydrophytic Vegetation Indicators:
	41	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)		-10tal 00vci		2 - Dominance Test is >50%
Dryopteris marginalis	15	Yes	FACU	3 - Prevalence Index is ≤3.0¹
	1	No	FACU	4 - Morphological Adaptations ¹ (Provide supportin
		INO	FACO	data in Remarks or on a separate sheet)
3				
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				•
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	16	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30x30)				Mondaysing Allowed wines greater their 0.00 ft in
1. Not present				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
				Hydrophytic
4.				Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separate		=10tai 00vci		I

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/18/14			
Applicant/Owner: Hermitage/Haystack		State: VT Sampling Point: 1			
Investigator(s): DB	Section, Township, Range:				
Landform (hillside, terrace, etc.): bowl/depre					
Subregion (LRR or MLRA): LRR R	Lat: 42.921604 Long: -72				
Soil Map Unit Name: Worden		NWI classification: 2			
Are climatic / hydrologic conditions on the site	typical for this time of year? Yes x No	(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydr	· · · · · · · · · · · · · · · · · · ·	ircumstances" present? Yes x No			
Are Vegetation, Soil, or Hydr		blain any answers in Remarks.)			
	site map showing sampling point location	ns, transects, important features, etc.			
Hydrophytic Vegetation Present?	es x No Is the Sampled Area				
	es x No within a Wetland?	Yes X No			
	es x No If yes, optional Wetland S				
Remarks: (Explain alternative procedures he Shallow Emergent Marsh	ere or in a separate report.)				
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is requir		Surface Soil Cracks (B6)			
Surface Water (A1)	x Water-Stained Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)			
Saturation (A3) Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	x Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (E	·	X FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes	No x Depth (inches): Depth (inches):				
Saturation Present? Yes N	No x Depth (inches): Wetland Hy	drology Present? Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo NA	nitoring well, aerial photos, previous inspections), if avai	lable:			
Remarks: Obvious Topo break					

Depth Matrix Redox Features Incinces Color (moist) % Type Loc² Texture Remark	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thin Calcators for Problematic Hydric Sands (SIL RR R, L) Thin Calcators for Problematic Hydric Sands (SIL RR K, L) To peletion (A2) Thin Dark Surface (S9) (LRR R, LL) Think Dark Surface (A12) Think Dark Surface (A12)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. PL=Pore Lining, Pydric Soil Indicators: Histosoil (A1) Polyvalue Below Surface (S8) (LRR R, L) Coast Prairie Redox (A16) (LRR K, L) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (L Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) P	<u>s</u>
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, ML Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, ML Histic Epipedon (A2) MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LR K, L)	
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Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (Inches): 7 Iron-Manganese Masses (F12) (Inches): Iron-Manganese Masses (F12) (Inches) Iron-Manganese	RR K, L)
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Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144/2014) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF1: Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: till Depth (inches): 7 Hydric Soil Present? Yes X emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric	
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF1) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Stripped Matrix (S4) Other (Explain in Remarks) Hydric Soil Present? Yes X Type: till Depth (inches): Type: till Typ	
X Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF1: Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: till Depth (inches): 7 Hydric Soil Present? Yes X emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric	, -, -
Stripped Matrix (S6)	2)
Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydric Soil Present?	-/
estrictive Layer (if observed): Type: till Depth (inches): 7 Hydric Soil Present? Yes X emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric	
Type: till Depth (inches): 7 Hydric Soil Present? Yes X emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric	
Depth (inches): 7 Hydric Soil Present? Yes X emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric	
ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric	No
· · · · · · · · · · · · · · · · · · ·	
.0 March 2013 Errata. (http://soils.usda.gov/use/hydric)	Soils version

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. Not present				Number of Dominant Species
2				That Are OBL, FACW, or FAC:3 (A)
3				Total Number of Dominant
4				Species Across All Strata: 3 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 0 x 1 = 0
. · _ ·	5	Yes	FACW	FACW species 101 x 2 = 202
0	-	163	TAOW	
3.				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals: 101 (A) 202 (B)
6				Prevalence Index = B/A = 2.00
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	60	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Doellingeria umbellata	30	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Impatiens capensis	5	No	FACW	data in Remarks or on a separate sheet)
4. Fraxinus nigra	1	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
	-			
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·				
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub - Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	96	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30x30)				Woody vines – All woody vines greater than 3.28 ft in
1. Not present				height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
		- I Ulai UUV U I		

Project/Site: Mountain Tract	City/County: D	over	Sampling Date: 9/18/14			
Applicant/Owner: Hermitage/Haystack		State:	VT Sampling Point:			
Investigator(s): DB	Section, Towns	ship, Range:				
Landform (hillside, terrace, etc.): hillslope		ave, convex, none): None	Slope (%): 3			
Subregion (LRR or MLRA): LRR R Lat	: 42.921220	Long: -72.888344	Datum: Upland			
Soil Map Unit Name: Houghtonville-Rawsonville		NWI classif				
Are climatic / hydrologic conditions on the site typical f	for this time of year? Yes	x No (If no, explain				
Are Vegetationx, Soil, or Hydrology		Are "Normal Circumstances" pr	,			
Are Vegetation , Soil , or Hydrology		(If needed, explain any answers				
SUMMARY OF FINDINGS – Attach site m		oint locations, transects,	important features, etc.			
Hydrophytic Vegetation Present? Yes	No x Is the Sam	npled Area				
Hydric Soil Present? Yes			No X			
Wetland Hydrology Present? Yes		onal Wetland Site ID: Wetland				
Remarks: (Explain alternative procedures here or in a Mowed Ski Trail	a separate report.)					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)			
Primary Indicators (minimum of one is required; chec	k all that apply)		il Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)			
High Water Table (A2)	_Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Bu				
Sediment Deposits (B2)	Oxidized Rhizospheres on Livi	· · · —	Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stressed Plants (D1)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)	duction in Tilled Soils (C6) Geomorphic Position (D2) face (C7) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		opographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Hemarks)	FAC-Neutra				
Field Observations:		1710 110411	1 1001 (100)			
	Depth (inches):					
Water Table Present? Yes No x	Depth (inches):					
Saturation Present? Yes No x	Depth (inches):	Wetland Hydrology Present	? Yes No X			
(includes capillary fringe)	_ = 0 0111 (1110101)1	,	· · · · · · · · · · · · · · · · · · ·			
Describe Recorded Data (stream gauge, monitoring v	well, aerial photos, previous insp	ections), if available:				
Remarks:						
Hemans.						

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) % Color (moist) Type¹ Loc² % Texture Remarks 0-5 7.5yr 3/2 100 sandv loose/dry ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: bedrock Depth (inches): **Hydric Soil Present?** Yes No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://soils.usda.gov/use/hydric)

EGETATION – Use scientific names of pla	Absolute	Dominant	Indicator		Sampling	· Oiiit.		
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test	worksheet:			
1. Not present 2.				Number of Domir That Are OBL, FA		0	_ (A)	
3. 4.				Total Number of I Species Across A			3	_(B)
5				Percent of Domin That Are OBL, FA			0.0%	_ (A/B)
7				Prevalence Inde	x workshee	t:		
		=Total Cover		Total % Cov	er of:	М	ultiply by:	
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species	0	x 1 =	0	
. Not present				FACW species_	15	x 2 =	30	
2				FAC species	1	x 3 =	3	
·				FACU species	0	x 4 =	0	
				UPL species	76	x 5 =	380	
·				Column Totals:	92	(A)	413	(B)
i				Prevalence	e Index = B/A	A =	4.49	
·				Hydrophytic Veg	etation Indi	cators:		
		=Total Cover		1 - Rapid Tes	st for Hydrop	hytic Ve	egetation	
lerb Stratum (Plot size: 5' radius)				2 - Dominano	e Test is >5	0%		
. Galium mollugo	30	Yes	UPL	3 - Prevalenc	e Index is ≤	3.0 ¹		
2. trifolium pratense	20	Yes	UPI	4 - Morpholog	gical Adaptat	tions¹ (F	Provide su	pportin
3. Vicia cracca	25	Yes	UPL	data in Rei	marks or on	a separ	ate sheet)	
. Onoclea sensibilis	15	No	FACW	Problematic	Hydrophytic '	Vegetat	tion ¹ (Expl	ain)
5. Salix sp.	1	No	FAC	¹ Indicators of hyd	ric soil and w	uetland	hydrology	muet
6. Bromus inermis	1	No	UPL	¹ Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.			must	
. Unknown grass	5	No		Definitions of Ve	getation St	rata:		
3.				Tree – Woody pla				heiaht.
10.				Sapling/shrub –	Woody plan	ts less t	than 3 in. [•
11				and greater than	or equal to 3	.28 ft (1	m) tall.	
12		=Total Cover		Herb – All herbac of size, and wood				ardless
Woody Vine Stratum (Plot size: 30 x 30) 1. Not present				Woody vines – A	all woody vin	es grea	ter than 3.	28 ft in
2.								
				Hydrophytic				
4				Vegetation Present?	Yes	N	lo	
· ,		=Total Cover						
Remarks: (Include photo numbers here or on a sepa		-10141 00101		<u> </u>				

Project/Site: Mountain Tract	С	ity/County: Dover		Sampling Date:	9/18/14
Applicant/Owner: Hermitage/Haystack			State:	— VT Sampling	Point: 1
Investigator(s): DB	S	ection, Township, Range:			
Landform (hillside, terrace, etc.): hillslope		al relief (concave, convex, no		Slo	ope (%): 3
Subregion (LRR or MLRA): LRR R	Lat: 42.921160	Long: -72.		-	m: Wetland
Soil Map Unit Name: Houghtonville-Rawso			NWI classi		
Are climatic / hydrologic conditions on the		? Yes x No		in Remarks.)	
Are Vegetation, or H			ircumstances" pr		No x
			olain any answers	_	NOX
Are Vegetation, Soil, or H			,	,	
SUMMARY OF FINDINGS – Attac	ch site map showing sa	mpling point location	is, transects,	, important fea	itures, etc.
Hydrophytic Vegetation Present?	Yes x No	Is the Sampled Area			
Hydric Soil Present?	Yes x No	within a Wetland?	Yes_X	No	
Wetland Hydrology Present?	Yes x No	If yes, optional Wetland Si	ite ID: Wetland	302	
Remarks: (Explain alternative procedures	s here or in a separate report.)				
Mowed Ski Trail					
HYDROLOGY					
			Casandani Indi	actore (minimum e	f two rocuired)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is rec	ruired, aback all that apply)			cators (minimum of	r two requirea)
Surface Water (A1)	water-Stained Le	2V0C (R0)		oil Cracks (B6) Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B			Lines (B16)	
Saturation (A3)	Marl Deposits (B1			n Water Table (C2)	١
Water Marks (B1)	Hydrogen Sulfide			urrows (C8)	,
Sediment Deposits (B2)		heres on Living Roots (C3)		Visible on Aerial In	nagery (C9)
Drift Deposits (B3)	Presence of Redu	• , ,		Stressed Plants (D	
Algal Mat or Crust (B4)		ction in Tilled Soils (C6)		ic Position (D2)	· · · /
Iron Deposits (B5)	Thin Muck Surface		Shallow Aq	, ,	
Inundation Visible on Aerial Imagery				raphic Relief (D4)	
Sparsely Vegetated Concave Surface	` ' — ` ` '	· iomano,	X FAC-Neutra		
Field Observations:	. ,				
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes	No x Depth (inches): No x Depth (inches):				
Saturation Present? Yes	No x Depth (inches):	Wetland Hyd	drology Present	t? Yes X	No
(includes capillary fringe)					
Describe Recorded Data (stream gauge,	monitoring well, aerial photos,	previous inspections), if avail	lable:		
NA					
Remarks:					

Depth (inches)	Pepth Inches Color (moist) % Color (moist) % Type Loc² Texture Remarks		scription: (Describ	e to the de	epth needed to docu	ment the	e indicat	or or cor	nfirm the absence of	Sampling Point:1 indicators.)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thiologous Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Tindicators for Problematic Hydric Soils*: 1	pepth			-					,
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type:	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thoraction Type: C=Concentration Pt=Pore Lining, M=Matrix, M=Matrix, Pt=Pore Lining, M=Matrix, M=Matrix, Pt=Pore Lining, M=Matrix,	inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix.** *tydric Soil Indicators: Histos Polywalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L) 2 cm Muck (A10) (LRR K, L, R) 2 cm Muck (A10) (LRR K, L) 2 cm Muck (A10) (LRR K, L) 2 cm Muck (A10) (LRR K, L, R) 2 cm Muck (A10) (LRR K,	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. PL=Pore Lining, M=Matrix. Pydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histo Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F8) Dark Surface (A17) Sirtiped Matrix (S4) Depleted Dark Surface (F8) Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Retrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes x No Retrarks:	0-7	10yr 3/2	100					loamy/clayey	Loose
ydric Soil Indicators: Histosol (A1)	ydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Redox Depressions (F8) Sandy Redox (S5) Braified Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Mydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Indicators of Hydric Soils version	7-11	2.5y 5/2	98	2.5y 5/4	2	С	pl	loamy/clayey	Distinct redox concentration
Hydric Soil Indicators: Histosol (A1) Histosol (A2) Black Histic (A3) High Chroma Sands (S11) (LRR R, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Bedox Depressions (F8) Marl (F10) (LRR K, L) Dark Surface (S7) Marl (F10) (LRR K, L) Depleted Dark Surface (F7) Sandy Redox (S5) And Redox Depressions (F8) Dark Surface (S7) Marl (F10) (LRR K, L) Mydric Soil Present? Mesic Spodic (TA6) Mesic	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Locate Problematic Hydric Soils ³ : Listosol (A1) Polyvalue Below Surface (S8) (LRR R, Locate Prairie Redox (A10) (LRR K, L, R) Polyvalue Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Some Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Some Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Redox Depressions (F8) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Redox form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version									
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thic Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Redox Depressions (F8) Dark Surface (S7) Marl (F10) (LRR K, L) Hydric Soil Present?	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Locate Problematic Hydric Soils ³ : Listosol (A1) Polyvalue Below Surface (S8) (LRR R, Locate Prairie Redox (A10) (LRR K, L, RLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L) Thick Dark Surface (A12) x Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version									
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Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) T	Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Thin Dark Surface (S9) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Depleted Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10) (LRR				·					•
Black Histic (A3)	Black Histic (A3)	Histos	ol (A1)		Polyvalue Below	Surface	(S8) (LR	RR,	2 cm Muck	(A10) (LRR K, L, MLRA 149B
Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Remarks:	Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Histic I	Epipedon (A2)		MLRA 149B)				Coast Prai	rie Redox (A16) (LRR K, L, R)
Stratified Layers (A5)	Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S9) Marl (F10) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version								· ·	
Depleted Below Dark Surface (A11)	Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:Till Depth (inches):		-							
Thick Dark Surface (A12)	Thick Dark Surface (A12)							(, L)		
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Stripped Matrix (S6)	Stripped Matrix (S6)				Depleted Dark S	•	-7)		Red Paren	t Materiai (F21)
Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Remarks:	Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Sandy	Gleyed Matrix (S4)		Daday Danrasa				Van Chall	our Dork Curtons (TE10)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Remarks:	Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Sandy Sandy	Gleyed Matrix (S4) Redox (S5)			, ,				
Restrictive Layer (if observed): Type: Till	Restrictive Layer (if observed): Type: Till Depth (inches): 11	Sandy Sandy Strippe	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6)			, ,				
Type: Till Hydric Soil Present? Yes X No Remarks: No No No No	Type: Till Depth (inches): 11 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Sandy Sandy Strippe	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6)			, ,				
Depth (inches): 11 Hydric Soil Present? Yes X No Remarks:	Depth (inches): 11 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Sandy Sandy Strippe Dark S	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7)	ation and v	Marl (F10) (LRF	K, L)	esent, unl	ess distur	Other (Exp	
Remarks:	Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Sandy Sandy Strippe Dark S Indicators Restrictive	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) of hydrophytic veget e Layer (if observed		Marl (F10) (LRF	K, L)	esent, unl	ess distur	Other (Exp	
	Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Sandy Sandy Strippe Dark S Indicators Restrictive	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) of hydrophytic veget e Layer (if observed		Marl (F10) (LRF	K, L)	esent, unl	ess distur	Other (Exp	
Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version		Sandy Sandy Strippe Dark S Indicators Restrictive Type: Ti	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) of hydrophytic veget e Layer (if observed):	Marl (F10) (LRF	K, L)	esent, unlo	ess distur	Other (Exp	olain in Remarks)
	'.0 March 2013 Errata. (http://soils.usda.gov/use/hydric)	Sandy Sandy Strippe Dark S Indicators Restrictive Type: Ti Depth (in	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) of hydrophytic veget e Layer (if observed):	Marl (F10) (LRF	K, L)	esent, unl	ess distur	Other (Exp	olain in Remarks)
		Sandy Sandy Strippe Dark S Indicators Restrictive Type: Ti Depth (in Remarks:	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Gurface (S7) of hydrophytic veget e Layer (if observed II nches):	11 central and	Marl (F10) (LRF) wetland hydrology mu	st be pre			Other (Expression of the Control of	ent? Yes X No
		Sandy Sandy Strippe Dark S Indicators Restrictive Type: Ti Depth (in Remarks:	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Gurface (S7) of hydrophytic veget e Layer (if observed II nches):	11 central and	Marl (F10) (LRF) wetland hydrology mu	st be pre			Other (Expression of the Control of	ent? Yes X No
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		Sandy Sandy Strippe Dark S Indicators Restrictive Type: Ti Depth (in Remarks:	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Gurface (S7) of hydrophytic veget e Layer (if observed II nches):	11 central and	Marl (F10) (LRF) wetland hydrology mu	st be pre			Other (Expression of the Control of	ent? Yes X No
		Sandy Sandy Strippe Dark S Indicators Restrictive Type: Ti Depth (in Remarks:	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Gurface (S7) of hydrophytic veget e Layer (if observed II nches):	11 central and	Marl (F10) (LRF) wetland hydrology mu	st be pre			Other (Expression of the Control of	ent? Yes X No
		Sandy Sandy Strippe Dark S Indicators Restrictive Type: Ti Depth (in Remarks:	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Gurface (S7) of hydrophytic veget e Layer (if observed II nches):	11 central and	Marl (F10) (LRF) wetland hydrology mu	st be pre			Other (Expression of the Control of	ent? Yes X No
		Sandy Sandy Strippe Dark S Indicators Restrictive Type: Ti Depth (in Remarks:	Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Gurface (S7) of hydrophytic veget e Layer (if observed II nches):	11 central and	Marl (F10) (LRF) wetland hydrology mu	st be pre			Other (Expression of the Control of	ent? Yes X No

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. Not present	-			Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 2 (A)
3				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 0 $x = 0$
1. Salix sp.	5	Yes	FAC	FACW species 70 x 2 = 140
2.				FAC species 6 x 3 = 18
				FACU species 0 x 4 = 0
1				UPL species 1 x 5 = 5
				<u> </u>
5.				
6.				Prevalence Index = B/A = 2.12
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)				X 2 - Dominance Test is >50%
Doellingeria umbellata	10	No	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2				4 - Morphological Adaptations ¹ (Provide supporting
3. Bromus inermis	1	No	UPL	data in Remarks or on a separate sheet)
4. Onoclea sensibilis	60	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Salix sp.	1	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Continuo (alemante de la continuo Cire DDI)
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	72	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 x 30)		-10101 00101		
1. Not present				Woody vines – All woody vines greater than 3.28 ft in height.
				neight.
2.	-			Hydrophytic
3.	-			Vegetation
4.	-			Present? Yes X No No
		=Total Cover		

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/18/14
Applicant/Owner: Hermitage/Haystack		State: VT Sampling Point: 2
Investigator(s): DB	Section, Township, Range:	
Landform (hillside, terrace, etc.): hillslope	Local relief (concave, convex, no	
Subregion (LRR or MLRA): LRR R	Lat: 42.923015 Long: -72	
· /		NWI classification: 3
Soil Map Unit Name: Hougtonville-Rawsonville	about four this time of cooper.	
Are climatic / hydrologic conditions on the site type		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolo		ircumstances" present? Yes x No
Are Vegetation, Soil, or Hydrolo	naturally problematic? (If needed, exp	olain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	te map showing sampling point locatior	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No. V. In the Complet Area	
, , , ,	No X Is the Sampled Area within a Wetland?	Yes No X_
Wetland Hydrology Present? Yes		
Remarks: (Explain alternative procedures here		· · · · · · · · · · · · · · · · · · ·
NH Forest		
LIVEROLOGY		
HYDROLOGY		
Wetland Hydrology Indicators:	ale a de all Mark avail. A	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	x Depth (inches):	
Water Table Present? Yes No	x Depth (inches): x Depth (inches):	
Saturation Present? Yes No	x Depth (inches): Wetland Hy	drology Present? Yes No X
(includes capillary fringe)		
, , ,	oring well, aerial photos, previous inspections), if avai	lable:
NA		
Remarks:		
nomano.		
T .		

0-6 10y	Matrix %		x Features				
0-6 10y	` 	Calar (maint)	x i caluics				
		Color (moist)	% Ty	pe ¹ Loc ²	Texture	Remar	ks
6-12 10y	yr 3/1 100				loamy/clayey	loose/pet	obles
	yr 4/4 100				loamy/clayey		
Type: C=Concentra	ation, D=Depletion, RM	 M=Reduced Matrix, C	S=Covered o	r Coated San	d Grains. ² Location	: PL=Pore Lining	ı, M=Matrix.
Hydric Soil Indicate	· · · · · · · · · · · · · · · · · · ·	·			Indicators for Pro		•
Histosol (A1)		Polyvalue Belov	v Surface (S8)	(LRR R,	2 cm Muck (A1	0) (LRR K, L, M	LRA 149B)
Histic Epipedon	(A2)	MLRA 149B)			Coast Prairie F	Redox (A16) (LRF	R K, L, R)
Black Histic (A3	3)	Thin Dark Surfa	ce (S9) (LRR	R, MLRA 149	9B) 5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfid		High Chroma Sa				w Surface (S8) (
Stratified Layers		Loamy Mucky M				ace (S9) (LRR K	
				, L)			
	Dark Surface (A11)	Loamy Gleyed I				se Masses (F12)	
Thick Dark Surf		Depleted Matrix				dplain Soils (F19	
Sandy Mucky M	lineral (S1)	Redox Dark Sur	face (F6)		Mesic Spodic (TA6) (MLRA 14 4	IA, 145, 149B)
Sandy Gleyed N	Matrix (S4)	Depleted Dark S	Surface (F7)		Red Parent Ma	iterial (F21)	
Sandy Redox (S	S5)	Redox Depressi	ons (F8)		Very Shallow [Oark Surface (TF	12)
Stripped Matrix	(S6)	Marl (F10) (LRF	₹ K, L)		Other (Explain	in Remarks)	
Dark Surface (S			, ,		<u> </u>	,	
	phytic vegetation and v	vetland hydrology mu	ıst be present	, unless distu	rbed or problematic.		
Restrictive Layer (in Type: na	•						
					Hydric Soil Present	Yes	NoX
Remarks:					<u> </u>	<u> </u>	
	from Northcentral and	d Northeast Regional	Supplement \	Version 2.0 to	reflect the NRCS Field Ir	ndicators of Hydri	c Soils version
Data form is revised			Supplement \	Version 2.0 to	reflect the NRCS Field In	ndicators of Hydri	c Soils versi
Data form is revised	from Northcentral and ata. (http://soils.usda.g		Supplement \	Version 2.0 to	reflect the NRCS Field In	ndicators of Hydri	c Soils vers

% Cover 30 15 10 10 65	Species? Yes Yes No No Total Cover	FACU FACU FACU FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species
15 10 10	Yes No No	FACU FAC	That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species
10	No No	FAC	Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species
10	No		Species Across All Strata: 5 (B) Percent of Dominant Species
			Percent of Dominant Species
65	Tatel Occurs		
65	Total Occur		That Are OBL, FACW, or FAC: 0.0% (A/B
65	Total Occurr		Prevalence Index worksheet:
	= LOTAL COVER		Total % Cover of: Multiply by:
	-10tal 00101		OBL species 0 x 1 = 0
5	No	FACII	FACW species 0 x 2 = 0
			FAC species 16 x 3 = 48
			FACU species 107 x 4 = 428
			UPL species 1 x 5 = 5
			Column Totals: 124 (A) 481 (B
			Prevalence Index = $B/A = 3.88$
			Hydrophytic Vegetation Indicators:
<u></u>	-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
	- rotal Gover		2 - Dominance Test is >50%
1	No	FAC	3 - Prevalence Index is ≤3.0¹
			4 - Morphological Adaptations ¹ (Provide supporting
			data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
8	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft in height.
			- G
			Hydrophytic
			Vegetation Yes No X
	=Total Cover		
			<u> </u>
irate sneet.)			
	1 1 1 5	20 Yes	20

Project/Site: Mountain Tract	City/County: De	over	Sampling Date: 9/18/14
Applicant/Owner: Hermitage/Haystack		State:	VT Sampling Point: 1
Investigator(s): DB	Section, Towns	hip, Range:	
Landform (hillside, terrace, etc.): terrace		ave, convex, none): none	Slope (%): 1
Subregion (LRR or MLRA): LRR R La	nt: 42.923140	Long: -72.891399	Datum: Wetland
Soil Map Unit Name: Hougtonville-Rawsonville		NWI classi	
Are climatic / hydrologic conditions on the site typical	for this time of year? Voc		
Are Vegetation, Soil, or Hydrology	•	x No (If no, explair Are "Normal Circumstances" pr	n in Remarks.) resent? Yes x No
Are Vegetation , Soil , or Hydrology		(If needed, explain any answers	
SUMMARY OF FINDINGS – Attach site m			,
Hydrophytic Vegetation Present? Yes x	No Is the Sam	nled Area	
Hydric Soil Present? Yes x			No
Wetland Hydrology Present? Yes x		onal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in Seep	a soparato roporti,		
HYDROLOGY			
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; che	••••		oil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	x Drainage P	
High Water Table (A2)	Aquatic Fauna (B13)		Lines (B16)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)		n Water Table (C2) urrows (C8)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sumde Odor (C1) Coxidized Rhizospheres on Livir		Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled		ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · — ·	quitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutr	
Field Observations:			
Surface Water Present? Yes No x	Depth (inches):		
Water Table Present? Yes No x	Depth (inches): Depth (inches):		
Saturation Present? Yes No x	Depth (inches):	Wetland Hydrology Presen	t? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring NA	well, aerial photos, previous insp	ections), if available:	
Remarks:			
nemarks.			

Profile De	scription: (Describ	e to the de	epth needed to doc	ument th	e indicate	or or cor	nfirm the absence of ir	idicators.)
Depth	Matrix		Redo	ox Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10yr 3/1	96	7.5yr 4/6	4	<u> </u>	pl	loamy/clayey	moist
						<u> </u>		
		<u> </u>			<u> </u>	<u> </u>		
		<u> </u>				<u> </u>		
		_			_			
Type: C=	Concentration, D=De	epletion, RN	M=Reduced Matrix, (CS=Cove	red or Coa	ated San	d Grains. ² Locatio	n: PL=Pore Lining, M=Matrix.
Histos Histic Black Hydrog Stratifi Deplet Thick Sandy Sandy Strippe Dark S	il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) ied Below Dark Surfa Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) of hydrophytic veget	ation and v	Polyvalue Below MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky N Loamy Gleyed Depleted Matrix X Redox Dark Su Depleted Dark Su Redox Depress Marl (F10) (LRI	ace (S9) (ands (S1) Mineral (F2) (F3) rface (F6) Surface (F8) R K, L)	LRR R, M 1) (LRR K 1) (LRR K 2)) F7)	ILRA 148 (, L) (, L)	2 cm Muck (/ Coast Prairie 5 cm Mucky Polyvalue Be Thin Dark Su Iron-Mangan Piedmont Flo Mesic Spodio Red Parent N Very Shallow Other (Explain	oblematic Hydric Soils ³ : A10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) low Surface (S8) (LRR K, L) rface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) codplain Soils (F19) (MLRA 145, 149 Material (F21) Dark Surface (TF12) n in Remarks)
Restrictive Type: <u>til</u>	e Layer (if observed):						
Depth (ir	nches):	8					Hydric Soil Presen	t? Yes X No
	is revised from North 2013 Errata. (http://s			l Supplen	nent Versi	on 2.0 to	reflect the NRCS Field	Indicators of Hydric Soils versi

Sampling Point: 1		
nance Test worksheet:		
and Developed Operator		
per of Dominant Species Are OBL, FACW, or FAC:3 (A)		
Number of Dominant		
es Across All Strata: 3 (B)		
ent of Dominant Species		
Are OBL, FACW, or FAC: 100.0% (A/B)		
lence Index worksheet:		
Total % Cover of: Multiply by:		
species 5 x 1 = 5		
V species 90 x 2 = 180		
species 45 x 3 = 135		
U species 0 x 4 = 0		
species 0 x 5 = 0		
nn Totals: 140 (A) 320 (B)		
Prevalence Index = B/A = 2.29		
phytic Vegetation Indicators:		
- Rapid Test for Hydrophytic Vegetation		
- Dominance Test is >50%		
- Prevalence Index is ≤3.0¹		
 - Prevalence index is ≤3.0 - Morphological Adaptations¹ (Provide supporting 		
data in Remarks or on a separate sheet)		
roblematic Hydrophytic Vegetation ¹ (Explain)		
ators of hydric soil and wetland hydrology must esent, unless disturbed or problematic.		
itions of Vegetation Strata:		
-		
- Woody plants 3 in. (7.6 cm) or more in eter at breast height (DBH), regardless of height.		
ng/shrub – Woody plants less than 3 in. DBH		
reater than or equal to 3.28 ft (1 m) tall.		
 All herbaceous (non-woody) plants, regardless 		
e, and woody plants less than 3.28 ft tall.		
All woods vince greater than 2.00 ft in		
dy vines – All woody vines greater than 3.28 ft in t.		
pphytic		
tation ent? Yes X No		
<u> </u>		
t		

Project/Site: Mountain Tract	City/County: Do	ver	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State:	VT Sampling Point: 2
Investigator(s): DB	Section, Townsh	nip, Range:	<u> </u>
Landform (hillside, terrace, etc.): Hillslope		ve, convex, none): none	Slope (%): 3
, , ,	at: 42.926651	Long: 42.891525	Datum: Upland
	-at. <u>+2.320031</u>		
Soil Map Unit Name: Mundal	16 11: 11: 15 0 34	NWI classi	-
Are climatic / hydrologic conditions on the site typical Are Vegetation, Soil, or Hydrology	-	<u>x </u>	n in Remarks.) resent? Yes x No
Are Vegetation, Soil, or Hydrology	· ———	If needed, explain any answers	
SUMMARY OF FINDINGS – Attach site			,
Hydrophytic Vegetation Present? Yes	No X Is the Samı	alad Araa	
Hydric Soil Present? Yes			NoX
Wetland Hydrology Present? Yes		nal Wetland Site ID:	<u> </u>
Remarks: (Explain alternative procedures here or i NH Forest w/Red Spruce/Hemlock	in a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	cators (minimum of two required)
Primary Indicators (minimum of one is required; che			oil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15)		Lines (B16) n Water Table (C2)
Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living		Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled		ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		quitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopog	raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutr	al Test (D5)
Field Observations:			
Surface Water Present? Yes Nox	Depth (inches):		
Water Table Present? Yes Nox	Depth (inches): Depth (inches):		
Saturation Present? Yes Nox	Depth (inches):	Wetland Hydrology Presen	t? Yes No _X_
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring NA	g well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
nemarks.			

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) % Color (moist) Loc² % Type¹ Texture Remarks 0-7 10yr 2/2 100 loamy/clayey loose ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: bedrock Depth (inches): **Hydric Soil Present?** Yes No Remarks: Shallow soils/hummocky

VEGETATION – Use scientific names of pla	ariis.			Sampling Pol	nt: 2	
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Prunus serotina	10	No	FACU	Number of Dominant Species		
2. Picea rubens	30	Yes	FACU	That Are OBL, FACW, or FAC:	1	(A)
3. Acer rubrum	20	Yes	FAC	Total Number of Dominant		_
4. Tsuga canadensis	10	No	FACU	Species Across All Strata:	3	(B)
5.				Develop of Development Consider		
6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	33.3%	(A/B)
7				Prevalence Index worksheet:		
	70	=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 0 x 1	1 =0	
1. Picea rubens	60	Yes	FACU	FACW species 0 x 2	2 = 0	
2. Amelanchier	1	No		FAC species 20 x 3	3 = 60	
3.				FACU species 110 x 4	1 = 440	
4.					5 = 0	
5.) 500	— (B)
				Prevalence Index = B/A =		`
7.				Hydrophytic Vegetation Indicate		
	61	=Total Cover		1 - Rapid Test for Hydrophytic		
Herb Stratum (Plot size: 5' radius)		- Total Gover		2 - Dominance Test is >50%	3 Vogotation	
1. Not present				3 - Prevalence Index is ≤3.0 ¹		
2.				4 - Morphological Adaptations	s ¹ (Provide sur	norting
3.				data in Remarks or on a se		porting
4				Problematic Hydrophytic Veg	etation ¹ (Expla	ain)
5				¹ Indicators of hydric soil and wetla		must
6.				be present, unless disturbed or pr		
7				Definitions of Vegetation Strata	:	
8				Tree – Woody plants 3 in. (7.6 cm		
9				diameter at breast height (DBH), r	egardless of h	ieight.
10.				Sapling/shrub – Woody plants le)BH
11.				and greater than or equal to 3.28	It (1 m) tall.	
12				Herb – All herbaceous (non-wood		ardless
		=Total Cover		of size, and woody plants less that	n 3.28 ft tall.	
Woody Vine Stratum (Plot size: 30 x 30)				Woody vines – All woody vines g	reater than 3.2	28 ft in
1. Not present				height.		
2				Hydrophytic		
3.				Vegetation		
4.				Present? Yes	No X	
		=Total Cover				
Remarks: (Include photo numbers here or on a sepa	rate sheet.)					
						ļ

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State: VT Sampling Point: 1
Investigator(s): DB	Section, Township, Range	
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, conve	
· · · · · · · · · · · · · · · · · · ·		-72.891750 Datum: Wetland
Soil Map Unit Name: Mundal		NWI classification: 2
Are climatic / hydrologic conditions on the site typical for	or this time of year? Yes x No	
Are Vegetation , Soil , or Hydrology		al Circumstances" present? Yes x No
Are Vegetation , Soil , or Hydrology		, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma		
Hydrophytic Vegetation Present? Yes x	No Is the Sampled Area	
Hydric Soil Present? Yes x	No within a Wetland?	Yes x No
Wetland Hydrology Present? Yes x	No If yes, optional Wetlan	
Remarks: (Explain alternative procedures here or in a Seep	a separate report.)	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check	र all that apply)	Surface Soil Cracks (B6)
x Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
x High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
x Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (0	C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	
Iron Deposits (B5)	_Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes x No	Depth (inches): 1	
Water Table Present? Yes x No		
Saturation Present? Yes x No	Depth (inches): 0 Wetland	d Hydrology Present? Yes X No No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w	vell aerial photos previous inspections) if	available:
NA	ion, derial prioree, provided inspections, in	available.
Remarks:		

SOIL							Sampling Point:	1
Profile D	escription: (Descril	be to the de	epth needed to docun	nent the indicate	or or conf	firm the absence of in	dicators.)	
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks	
0-10	10yr 3/1	100				muck	saturated	
		epletion, RI	M=Reduced Matrix, CS	=Covered or Coa	ated Sand		n: PL=Pore Lining, M=I	_
Hydric So	oil Indicators:						oblematic Hydric Soils	
1 Histo	osol (A1)		Polyvalue Below	Surface (S8) (LR	RR,	2 cm Muck (A	(10) (LRR K, L, MLRA	149B)
Histic	c Epipedon (A2)		MLRA 149B)			Coast Prairie	Redox (A16) (LRR K, L	., R)
Black	k Histic (A3)		Thin Dark Surface	e (S9) (LRR R, M	ILRA 1491	B)5 cm Mucky F	Peat or Peat (S3) (LRR	K, L, R)
Hydro	ogen Sulfide (A4)		High Chroma Sar	nds (S11) (LRR H	(, L)	Polyvalue Be	low Surface (S8) (LRR	K, L)
Strati	ified Layers (A5)		Loamy Mucky Mir	neral (F1) (LRR I	(, L)	Thin Dark Su	rface (S9) (LRR K, L)	
	eted Below Dark Surf	ace (A11)	Loamy Gleyed Ma		, ,		ese Masses (F12) (LRR	K, L, R)
	Dark Surface (A12)	,	Depleted Matrix (odplain Soils (F19) (ML	
	ly Mucky Mineral (S1	١	Redox Dark Surfa				(TA6) (MLRA 144A, 1 4	
	ly Gleyed Matrix (S4)	•	Depleted Dark Su			Red Parent M		.0,02,
	ly Redox (S5)		Redox Depression	` '			Dark Surface (TF12)	
	ped Matrix (S6)		Marl (F10) (LRR I	, ,			n in Remarks)	
	Surface (S7)		Wan (i 10) (ERR i	(X, L)		Other (Explain	ii iii neiliaiks)	
³ Indicator	e of hydrophytic yogo	station and	wetland hydrology mus	t ha procent unle	oce dicturk	had ar problematic		
	ve Layer (if observe		welland hydrology mus	t be present, unit	Jos distait	bed of problematic.		
Type: <u>l</u>	bedrock							
Depth ((inches):	10				Hydric Soil Presen	t? Yes <u>x</u>	No
Remarks:	:							

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. Not present				Number of Dominant Species
2.		· 		That Are OBL, FACW, or FAC:3 (A)
3				Total Number of Dominant
4				Species Across All Strata: 3 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC:100.0% (A/B)
7		. <u></u>		Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15' radius)				OBL species10 x 1 =10
1. Picea rubens	1	No	FACU	FACW species 60 x 2 = 120
2.				FAC species 20 x 3 = 60
3.				FACU species 6 x 4 = 24
				UPL species 0 x 5 = 0
<u> </u>				Column Totals: 96 (A) 214 (B)
				Prevalence Index = $B/A = 2.23$
7		Total Causer		Hydrophytic Vegetation Indicators:
	1	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)			5.4.0 144	X 2 - Dominance Test is >50%
Osmundastrum cinnamomeum	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0¹
2. Maianthemum canadense	5	No	FACU	4 - Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)
3. Onoclea sensibilis	10	No	FACW	
4. Glyceria striata	10	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Parathelypteris noveboracensis	20	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
6. Impatiens capensis	20	Yes	FACW	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.		<u> </u>		Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Have All bank account (rear woods) whente was well account
	95	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 x 30)				
1. Not present				Woody vines – All woody vines greater than 3.28 ft in height.
				Tio.gra.
2				Hydrophytic
				Vegetation Present? Yes X No
4				Present? Yes X No No
		=Total Cover		

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State: VT Sampling Point: 2
Investigator(s): DB	Section, Township, Range:	
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, convex,	
` ' ' <u> </u>		72.886350 Datum: Upland
Soil Map Unit Name: Houghtonville-Rawsonville	251.9.	NWI classification: 2
	ol for this time of year? Yes y No	
Are climatic / hydrologic conditions on the site typical		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		I Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed,	explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling point locati	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
Hydric Soil Present? Yes		Yes X No
Wetland Hydrology Present?		d Site ID: Wetland 415_416_417
Remarks: (Explain alternative procedures here or		
NH Forest	,	
LIVERGIAGOV		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; ch		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	_	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No:	Depth (inches): Depth (inches):	
Water Table Present? Yes No:	Depth (inches):	
Saturation Present? Yes No	C Depth (inches): Wetland	Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitorin NA	g well, aerial photos, previous inspections), if a	vailable:
IVA		
Remarks:		
Obvious Topo Break		

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) % Color (moist) Loc² % Type¹ Texture Remarks 0-2 10yr 3/1 100 loamy/clayey loose/dry 2-5 7.5yr 4/3 100 loose/dry sandy ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock Depth (inches): **Hydric Soil Present?** Yes No Remarks:

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Betula alleghaniensis	10	Yes	FAC	
Prunus serotina	1	No	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3. Acer saccharum	20	Yes	FACU	
4. Fraxinus americana	10	Yes	FACU	Total Number of Dominant Species Across All Strata: 6 (B)
5.				Beyond of Deminant Creation
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/I
7.				Prevalence Index worksheet:
	41	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 0 x 1 = 0
1. Acer saccharum	45	Yes	FACU	FACW species 1 x 2 = 2
2. Abies balsamea	5	No	FAC	FAC species 75 x 3 = 225
3. Picea rubens	1	No	FACU	FACU species 80 x 4 = 320
4. Fagus grandifolia	1	No	FACU	UPL species 0 x 5 = 0
5. Fraxinus americana	1	No	FACU	Column Totals: 156 (A) 547 (I
6. Betula alleghaniensis	10	No	FAC	Prevalence Index = B/A = 3.51
7.				Hydrophytic Vegetation Indicators:
	63	=Total Cover		Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)				2 - Dominance Test is >50%
1. Parathelypteris noveboracensis	20	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
2. Maianthemum canadense	1	No	FACU	4 - Morphological Adaptations ¹ (Provide support
3. Carex grayi	1	No	FACW	data in Remarks or on a separate sheet)
4. Dryopteris intermedia	30	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of heigh
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardles
	52	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30x30)				Woody vines – All woody vines greater than 3.28 ft
1. Not present				height.
2				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State: VT Sampling Point: 1
Investigator(s): DB	Section, Township, Range:	
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, convex,	
	·	72.886397 Datum: Wetland
Soil Map Unit Name: Houghtonville-Rawsonville		NWI classification: 2
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes x No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	 -	Circumstances" present? Yes x No
		explain any answers in Remarks.)
Are Vegetation, Soil, or Hydrology		
SUMMARY OF FINDINGS – Attach site map	showing sampling point locati	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No Is the Sampled Area	
Hydric Soil Present? Yes x	No within a Wetland?	Yes x No
Wetland Hydrology Present? Yes x	No If yes, optional Wetland	Site ID: Wetland 415_416_417
Remarks: (Explain alternative procedures here or in a s	separate report.)	
Seep		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check a	all that apply)	Surface Soil Cracks (B6)
	Vater-Stained Leaves (B9)	x Drainage Patterns (B10)
l 	quatic Fauna (B13)	Moss Trim Lines (B16)
	Marl Deposits (B15)	Dry-Season Water Table (C2)
	lydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	hin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)
Field Observations:		
	Depth (inches): 10 bgs	
	Depth (inches):	
	Depth (inches): gs Wetland	Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring we	Il aerial photos previous inspections) if a	vailable.
NA	ii, acriai priotos, previous irispections), ii a	valiable.
Remarks:		

SOIL							Sampling	Point: _	1
Profile Desc	ription: (Describ	e to the de	epth needed to docu	ment the ind	icator or con	firm the absence of	indicators.)		
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	% Туј	pe ¹ Loc ²	Texture	I	Remarks	
0-10	10yr 3/1	100				muck	5	saturated	
		·							
		· 							
		· ——							
		·							
		· 							
		· —							
		epletion, RI	M=Reduced Matrix, C	S=Covered or	Coated Sand		ion: PL=Pore		•
Hydric Soil I						Indicators for F		-	
x Histosol			Polyvalue Belov	v Surface (S8)	(LRR R,		(A10) (LRR K		
	ipedon (A2)		MLRA 149B) Thin Dark Surfa	oo (CO) (LDD	D MI DA 140		ie Redox (A16 , Peat or Peat		
Black His	n Sulfide (A4)		High Chroma S			· ·	Below Surface		
	Layers (A5)		Loamy Mucky M				Surface (S9) (I		
	Below Dark Surfa	ace (A11)	Loamy Gleyed N		, –,		nese Masses		
	rk Surface (A12)	` ,	Depleted Matrix				loodplain Soil		
Sandy M	ucky Mineral (S1)		Redox Dark Sur	face (F6)		Mesic Spoo	lic (TA6) (MLF	RA 144A,	145, 149B)
	leyed Matrix (S4)		Depleted Dark S	Surface (F7)			Material (F21		
	edox (S5)		Redox Depressi				w Dark Surfac		
	Matrix (S6)		Marl (F10) (LRF	R K, L)		Other (Expl	ain in Remark	s)	
Dark Sur	face (S7)								
³ Indicators of	hvdrophytic veae	tation and v	wetland hydrology mu	ust be present.	unless distur	bed or problematic.			
	ayer (if observed		,			The second secon			
Type: Bed	rock								
Depth (inch	nes):	10				Hydric Soil Prese	ent? Ye	s_X_	No
Remarks:	<u> </u>					1			
				Supplement \	ersion 2.0 to	reflect the NRCS Field	d Indicators of	i Hydric S	Soils version
7.0 March 20	13 Errata. (http://s	soils.usda.g	gov/use/hydric)						

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
			Number of Dominant Species
			That Are OBL, FACW, or FAC: 2 (A)
			Total Number of Dominant
			Species Across All Strata: 2 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC:(A/I
			Prevalence Index worksheet:
=	=Total Cover		Total % Cover of: Multiply by:
			OBL species 20 x 1 = 20
			FACW species 35 x 2 = 70
			FAC species 0 x 3 = 0
			FACU species 0 x 4 = 0
			UPL species 0 x 5 = 0
			Column Totals: 55 (A) 90 (I
			Prevalence Index = B/A = 1.64
			Hydrophytic Vegetation Indicators:
	-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
	-10101 00101		X 2 - Dominance Test is >50%
30	Voc	EACW	X 3 - Prevalence Index is ≤3.0 ¹
			4 - Morphological Adaptations ¹ (Provide support
			data in Remarks or on a separate sheet)
	No	FACW	
			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
			diameter at breast height (DBH), regardless of heigh
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardles
55 =	=Total Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft
			height.
			height. Hydrophytic
	<u> </u>		height.
	30 20 5	=Total Cover 30 Yes 20 Yes 5 No	=Total Cover =Total Cover =Total Cover 30 Yes FACW 20 Yes OBL 5 No FACW

Project/Site: Mountain Tract		Ci	ity/County: Do	over		Sampl	ling Date:	9/18/14	ļ
Applicant/Owner: Hermitage/Haysta	ack				State:	VT	Sampling	Point:	1
Investigator(s): DB		Se	ection, Townsl	hip, Range:				_	
Landform (hillside, terrace, etc.): hi	llslope			ive, convex, nor	ne): none		Slo	pe (%):	6
Subregion (LRR or MLRA): LRR R	•	42.925386	,	Long: -72.8				n: Uplar	
Soil Map Unit Name: Mundal		12.02000			NWI classi	fication:		п. орга	
·	n the cite typical fo	er this time of year	2 Voc	y No		-			
Are climatic / hydrologic conditions o		_	-		(If no, explair			NI.	_
Are Vegetation, Soil					cumstances" pr			x No	·—
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic?	(If needed, expl	ain any answers	s in Rema	arks.)		
SUMMARY OF FINDINGS -	Attach site ma	p showing sa	mpling po	int locations	s, transects	, impor	rtant fea	tures,	etc.
Hydrophytic Vegetation Present?	Yes	No X	Is the Sam	nlad Araa					
Hydric Soil Present?	Yes		within a W	=	Yes	No	X		
Wetland Hydrology Present?	Yes	No X			te ID: Wetland				
Remarks: (Explain alternative proce									
		, ,							
HYDROLOGY									
Wetland Hydrology Indicators:					Secondary Indi	cators (m	ninimum of	two requ	uired)
Primary Indicators (minimum of one	is required; check	all that apply)			Surface Sc	il Cracks	; (B6)		
Surface Water (A1)		Water-Stained Le	aves (B9)	-	Drainage F	'atterns (l	B10)		
High Water Table (A2)		Aquatic Fauna (B		-	Moss Trim				
Saturation (A3)		Marl Deposits (B1		-	Dry-Season				
Water Marks (B1)		Hydrogen Sulfide		- · · · · · · · -	Crayfish Bu			, ,	201
Sediment Deposits (B2)		Oxidized Rhizosp		-	Saturation			• • •	;9)
Drift Deposits (B3)		Presence of Redu Recent Iron Redu		-	Stunted or Geomorphi			1)	
Algal Mat or Crust (B4) Iron Deposits (B5)		Thin Muck Surfac		30115 (06)	Shallow Ac		. ,		
Inundation Visible on Aerial Ima		Other (Explain in		-	Microtopog				
Sparsely Vegetated Concave S		Other (Explain in	icinario)	-	FAC-Neutr	-			
Field Observations:	1411400 (20)		1	-	1710 11041	<u></u>			
	No x	Depth (inches):							
Water Table Present? Yes	No x No x	Depth (inches):							
Saturation Present? Yes	No x	Depth (inches):		Wetland Hyd	Irology Presen	t? '	Yes	No	Х
(includes capillary fringe)				-					
Describe Recorded Data (stream ga	auge, monitoring w	ell, aerial photos, ¡	previous inspe	ections), if availa	able:				
NA									
Remarks:									

Hydric Soil Indicators: Histosol (A1) Histosol (A2) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Depleted Dark Surface (S7) Marl (F10) (LRR K, L) Stripped Matrix (S6) Dark Surface (S7) Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Foundative Mineral (S9) (LRR K, L, R) Foundative Mineral (S1) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F) Piedmont Floodplain Soils (F19) (MLRA 149 Mesic Spodic (TA6) (MLRA 144A, 145, 149 Mesic Spodic (TA6) (5	ampling Point	: <u> </u>
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Setroor Coated Sand Grains. Type: Setroor Cased Sand Gr	Profile Desc	cription: (Describ	e to the de	pth needed to document the indic	ator or conf	firm the absence of indica	itors.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **ILocation: PL=Pore Lining, M=Matrix.** Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Hjdh Chroma Sands (S11) (LRR K, L) Coast Praife Redox (A16) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Mineral (S1) Redox Dark Surface (F7) Red Parent Material (F2) Sandy Redox (S5) Redox Dark Surface (F7) Red Parent Material (F2) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators for Problematic **Location: PL=Pore Lining, M=Matrix.* Indicators for Problematic Hydric Soils* **Location: PL=Pore Lining, M=Matrix.* Indicators for Problematic Hydric Soils* Coast Praife Redox (A10) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface	Depth	Matrix		Redox Features				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Fraire Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L, L) Thin Cark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149 LA7 149 LA	inches)	Color (moist)	%	Color (moist) % Type	Loc ²	Texture	Remar	ks
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Mindicators for Problematic Hydric Soils ³ : 1	0-9	10yr 3/2	100			loamy/clayey	loose/c	lry
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Mindicators for Problematic Hydric Soils ³ : 1								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Polyvalue Below Surface (A12) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Can Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock								
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Mindicators for Problematic Hydric Soils ³ : 1								
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Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Mari (F10) (LRR K, L) Dark Surface (S7) Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Foundative Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock								
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, F) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 1491 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: Bedrock	Type: C=C	oncentration, D=De	epletion, RN	M=Reduced Matrix, CS=Covered or C	oated Sand	Grains. ² Location: P	L=Pore Lining	, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Type: Bedrock Mesic Spodic (Tobserved): Type: Bedrock	lydric Soil	Indicators:				Indicators for Proble	matic Hydric	Soils ³ :
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Bedox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: Bedrock Thin Dark Surface of Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L, L) Polyvalue Below Surface (S8) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin D	Histosol	I (A1)		Polyvalue Below Surface (S8) (I	.RR R,	2 cm Muck (A10)	(LRR K, L, M	LRA 149B)
Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock	Histic E	pipedon (A2)		MLRA 149B)		Coast Prairie Red	lox (A16) (LRF	R K, L, R)
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, F1) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock	Black Hi	istic (A3)	_	Thin Dark Surface (S9) (LRR R,	MLRA 149	B) 5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, F Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock	Hydroge	en Sulfide (A4)	•	High Chroma Sands (S11) (LRF	≀ K, L)	Polyvalue Below S	Surface (S8) (I	LRR K, L)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Dark Surface (S7) Piedmont Floodplain Soils (F19) (MLRA 149, 149, 149, 149, 149, 149, 149, 149,	Stratified	d Layers (A5)	•	Loamy Mucky Mineral (F1) (LRF	₹ K, L)	Thin Dark Surface	e (S9) (LRR K	, L)
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Stripped Matrix (S6) Dark Surface (S7) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock Mesic Spodic (TA6) (MLRA 144A, 145, 149i Mesic Spodic (TA6) (MLRA 144A, 145, 149i Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)	Depleted	d Below Dark Surfa	ace (A11)	Loamy Gleyed Matrix (F2)		Iron-Manganese I	Masses (F12)	(LRR K, L, R)
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) And (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock	Thick Da	ark Surface (A12)	•	Depleted Matrix (F3)		Piedmont Floodpl	ain Soils (F19) (MLRA 149B)
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock	Sandy N	Mucky Mineral (S1)	•	Redox Dark Surface (F6)		Mesic Spodic (TA	6) (MLRA 144	A, 145, 149B)
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock	Sandy G	Gleyed Matrix (S4)	•	Depleted Dark Surface (F7)		Red Parent Mater	ial (F21)	
Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock	Sandy F	Redox (S5)	•			Very Shallow Dar	k Surface (TF	12)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock	Stripped	d Matrix (S6)	•	Marl (F10) (LRR K, L)		Other (Explain in	Remarks)	
Restrictive Layer (if observed): Type: Bedrock	Dark Su	ırface (S7)	•					
Restrictive Layer (if observed): Type: Bedrock								
Type: Bedrock				vetland hydrology must be present, u	nless disturb	ped or problematic.		
		-	.,.					
			9			Hydric Soil Present?	Yes	No X
Remarks:	Remarks:							
Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://soils.usda.gov/use/hydric)		revised from North	aantral and					

	nts.			Sampling Point:1
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fagus grandifolia	25	Yes	FACU	Number of Deminent Species
2. Acer saccharum	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant
4				Species Across All Strata: 7 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 14.3% (A/B)
7	35	=Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' radius)	33	= rotal Cover		Total % Cover of: Multiply by: OBL species 0 x 1 = 0
1. Viburnum lantana	20	Yes	UPL	FACW species $0 \times 2 = 0$
Fagus grandifolia	35	Yes	FACU	FAC species 21 x 3 = 63
3. Picea rubens		No		FACU species 112 x 4 = 448
Acer pensylvanicum	1 15	Yes	FACU FACU	UPL species 21 x 5 = 105
5.	13	165	1 400	Column Totals: 154 (A) 616 (B)
				Prevalence Index = $B/A = 4.00$
7.				Hydrophytic Vegetation Indicators:
<i>'</i>	71	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)		- Total Gover		2 - Dominance Test is >50%
Parathelypteris noveboracensis	20	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹
Fagus grandifolia	20	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
Picea rubens	1	No	FACU	data in Remarks or on a separate sheet)
Viburnum lantana	1	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Dryopteris intermedia	1	No	FAC	
6. Aralia nudicaulis	5	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.			17100	Definitions of Vegetation Strata:
8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Senting/abrub Woody plants loss than 2 in DBH
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	48	=Total Cover		of size, and woody plants less than 3.28 ft tall.
				Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 x 30)				
Woody Vine Stratum (Plot size: 30 x 30) 1. Not present				height.
				height.
Not present				height. Hydrophytic
1. Not present 2.				height.

Project/Site: Mountain Tract	City/Cou	nty: Dover	Sampling Date: 9/18/14
Applicant/Owner: Hermitage/Haystack		State:	VT Sampling Point: 1
Investigator(s): DB	Section,	 Гownship, Range:	
Landform (hillside, terrace, etc.): hillslope		(concave, convex, none): none	Slope (%): 3
Subregion (LRR or MLRA): LRR R	Lat: 42.925317	Long: -72.891631	Datum: Wetland
Soil Map Unit Name: Mundal			sification: 2
Are climatic / hydrologic conditions on the s	to typical for this time of year?		ain in Remarks.)
Are Vegetation, Soil, or Hy			
Are Vegetation, Soil, or Hy	·		
SUMMARY OF FINDINGS – Attac	·		s, important features, etc.
Hydric Soil Present?	Yes x No with	e Sampled Area in a Wetland? So optional Wetland Site ID: Wetlan	
Remarks: (Explain alternative procedures Seep	here or in a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Inc	dicators (minimum of two required)
Primary Indicators (minimum of one is requ			Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (E		Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		m Lines (B16)
x Saturation (A3)	Marl Deposits (B15)		on Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres of		n Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iro		or Stressed Plants (D1) whic Position (D2)
Algal Mat or Crust (B4)	Recent Iron Reduction in	• • • • • • • • • • • • • • • • • • • •	` '
Iron Deposits (B5)	Thin Muck Surface (C7)		Aquitard (D3)
Inundation Visible on Aerial Imagery (Inundation Visible on Aeria) (Inundation Visible on Aerial Imagery (In	· · · · · · · · · · · · · · · · · · ·	· — ·	ographic Relief (D4) stral Test (D5)
Field Observations:	(00)	I AC-Neu	tiai rest (D3)
	No. v. Donth (inches)		
Water Table Present? Yes	No x Depth (inches): No x Depth (inches):		
Saturation Present? Yes x	No Depth (inches): 0	Wetland Hydrology Prese	unt? Voc V No
(includes capillary fringe)	Deptif (inches).	Wettaild Hydrology Frese	ent? Yes X No
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previou	s inspections), if available:	
Remarks:			-

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks	Color (moist) % Color (moist) % Type¹ Loo² Texture Remarks 10yr 3/1 100 muck muck/wet 8-11 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 98 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 99 8 7.5yr 4/6 2 c pl sandy Prominent redox concentration 10yr 5/1 99 8 7.5yr 4/6 2 c pl sandy Grains 10dicators for Problematic Hydric Soils* 2 cm Muck (A10) (LRR K, L, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 14	rofile Des	scription: (Describ	e to the de				or or conf	irm the absence	of indicate	ors.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thought surface (S8) (LRR R, CART Sand Grains. Thought Surface (S8) (LRR R, CART Sand Grains. This coated Type: Cart Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Cart Sandy Reduced Cart Sand Grains. Type: Till Typ	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type:	ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, Matrix, LM=Reduced Matrix, CP=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, Matrix, LM=Reduced Matrix, LM	-						. 2				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thirdicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 1498) 5 cm Muck (A10) (LRR K, L, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Thirdicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Thirdicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L, Depleted Below Bark Surface (S6) (LRR K, L) Thirdicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L, Depleted Below Bark Surface (F1) (LRR K, L) Thirdicators for Problematic Hydric Soils (RR K, L) Thirdicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR K, L, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L, Depleted Matrix (F2) Thirdicators for Problematic Hydric Soils (RR K, L) Thirdicators for Problematic Hydric Soil RR K, L) Thirdicators for Problematic Hydric Soil RR K, L) Thirdicators for Problematic Hydric Soil RR K, L) Thirdicators for Problematic Hydric Soils (RR K, L) Thirdicators for Problematic Hydric Soil RR K, L) Thirdicators for Problematic Hydric Soil RR K, L) Thirdicators for Problematic Hydric Soils (RR K, L) Thirdicators for	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type:	ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, GS=Coated Sand Grains. ype: C=Coated Sand Grains. ype: C=Concentration, D=Depletion, RM=Reduced Matrix, GS=Coated Sand Grains. ype: C=Coated Sand Grains. ype: C=Coa	inches)	Color (moist)	<u> %</u>	Color (moist)	<u> %</u>	Type	Loc	Texture		Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Variable Variabl	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2 Location: PL=Pore Lining, M=Matrix (Pdric Soil Indicators: Histosol (A1) Histo Epipedon (A2) MLRA 1498) 3 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 1498) MERA 1498) Thin Dark Surface (S9) (LRR R, MLRA 1498) MIRA 1498) Thin Dark Surface (S9) (LRR R, MLRA 1498) Som Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No Remarks:	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix, ydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosoil (A1) **Histosoil (A1) **Histosoil (A2) **MLRA 149B) **Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) **Stratified Layers (A5) **Location: PL=Pore Lining, M=Matrix, Discoil Problematic Hydric Soils*: Polyvalue Below Surface (S8) (LRR R, L) **Coast Prairie Redox (A16) (LRR K, L, Polyvalue Below Surface (S9) (LRR K, L) **Polyvalue Below Surface (A10) (LRR K, L) **Depleted Below Dark Surface (A11) **Locamy Mucky Mineral (F1) (LRR K, L) **Depleted Below Dark Surface (A11) **Locamy Mucky Mineral (F1) (LRR K, L) **Depleted Matrix (F3) **Sandy Mucky Mineral (S1) **Pelemont Floodplain Soils (F19) Mulkan 144A, 145, 149 **Mesic Sool (TA8) (MLRA 144A, 145, 149 **Mesic Soil (TA8) (MLRA 144A, 145, 1	0-8	10yr 3/1	100					muck		muck/wet	
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Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Dark Surface (F7) Mesic Spodic (TA6) (MLRA 144A, 145, 146) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Dark Surface (S7) Addicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Estrictive Layer (if observed): Type: Till Depth (inches): 8 Hydric Soil Present? Yes X No	Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Setrictive Layer (if observed): Type: Till Depth (inches): 8 Hydric Soil Present? Yes X No	Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Setrictive Layer (if observed): Type: Till Depth (inches): 8 Hydric Soil Present? Yes X No Demarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version.			ace (ATT)			.)			-		
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: Till Depth (inches): 8 Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Hydric Soil Present? Yes X No	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pestrictive Layer (if observed): Type: Till Depth (inches): 8 Hydric Soil Present? Yes X No Permarks:	Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pestrictive Layer (if observed): Type: Till Depth (inches): B Hydric Soil Present? Yes X No Pemarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version.			-								
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Estrictive Layer (if observed): Type: _Till	Estrictive Layer (if observed): Type:	estrictive Layer (if observed): Type:Till Depth (inches): 8		` '	-	Marl (F10) (LRI	R K, L)			Other (E	xplain in R	emarks)	
Type: Till Depth (inches): 8 Hydric Soil Present? Yes X No	Type:	Type: Till Depth (inches): 8 Hydric Soil Present? Yes X No emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version.				etland hydrology m	ust be pre	sent, unle	ess disturb	ed or problemation	: .		
Depth (inches): 8 Hydric Soil Present? Yes X No	Depth (inches): 8 Hydric Soil Present? Yes X No emarks:	Depth (inches): 8 Hydric Soil Present? Yes X No emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version.		-	4).								
	emarks:	emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils versi			0					Uvduia Cail Du	nt2	Voc. V	Na
		ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils versi			-					Tiyane 30h Fi	esent:	163 <u>X</u>	
	ata form lo forticoa mom Mortificanti ana Mortificact Regional Cappionion. Volcion 2.0 to fortico Michael Michael And Mortificact Regional Cappionion			s revised from North	ncentral and	Northeast Regiona	l Supplem	ent Versi	on 2 0 to r	eflect the NRCS I	Field Indica	tors of Hydric So	ils versio
							. сарр.с		o <u>-</u>				

Indicator Status Dominance Test worksheet:
Number of Dominant Species
ES FACU That Are OBL, FACW, or FAC: 4 (A Total Number of Dominant Species Across All Strata: 6 (B Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 25 x 1 = 25 es FACU FACW species 40 x 2 = 80 es FACU FAC species 35 x 3 = 105 No FACU FACU species 46 x 4 = 184 UPL species 0 x 5 = 0 Column Totals: 146 (A) 394
Species Across All Strata: 6 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A
That Are OBL, FACW, or FAC: 66.7% (A Prevalence Index worksheet:
Prevalence Index worksheet: Total % Cover of: Multiply by:
Cover Total % Cover of: Multiply by: OBL species 25 x 1 = 25 es FAC FACW species 40 x 2 = 80 es FACU FAC species 35 x 3 = 105 FACU species 46 x 4 = 184 UPL species 0 x 5 = 0 Column Totals: 146 (A) 394
OBL species 25
es FAC FACW species 40 x 2 = 80 es FACU FAC species 35 x 3 = 105 lo FACU FACU species 46 x 4 = 184 UPL species 0 x 5 = 0 Column Totals: 146 (A) 394
ES FACU FAC species 35 x 3 = 105 No FACU FACU species 46 x 4 = 184 UPL species 0 x 5 = 0 Column Totals: 146 (A) 394
FACU FACU species 46
UPL species 0 x 5 = 0 Column Totals: 146 (A) 394
Column Totals: 146 (A) 394
Prevalence Index = B/A = 2.70 Hydrophytic Vegetation Indicators:
 ````
<u> </u>
X 2 - Dominance Test is >50%
es FACW X 3 - Prevalence Index is ≤3.0¹
es OBL 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation ¹ (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in
diameter at breast height (DBH), regardless of heig
Sapling/shrub – Woody plants less than 3 in. DBH
and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardle
Cover of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 f
height.
Hydrophytic
Vegetation
Vegetation Present? Yes X No
-

Project/Site: Mountain Tract	City/County: D	over	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State:	VT Sampling Point: 2
Investigator(s): DB	Section, Towns	ship, Range:	
Landform (hillside, terrace, etc.): Hillslope		ave, convex, none): none	Slope (%): 3
Subregion (LRR or MLRA): LRR R Lat	: 42.919945	Long: -72.885567	Datum: Upland
Soil Map Unit Name: Sheepscot		NWI classit	· · · · · · · · · · · · · · · · · · ·
Are climatic / hydrologic conditions on the site typical i	for this time of year? Ves		in Remarks.)
Are Vegetation, Soil, or Hydrology _	· ·	Are "Normal Circumstances" pr	,
Are Vegetation, Soil, or Hydrology _		(If needed, explain any answers	
SUMMARY OF FINDINGS – Attach site m			
Hydrophytic Vegetation Present? Yes	No x Is the San	npled Area	
Hydric Soil Present? Yes			No X
Wetland Hydrology Present? Yes		onal Wetland Site ID: Wetland	
Remarks: (Explain alternative procedures here or in Seep	a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)		il Cracks (B6)
Surface Water (A1)	_Water-Stained Leaves (B9)		Patterns (B10)
High Water Table (A2)	_Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Bu	
Sediment Deposits (B2)	Oxidized Rhizospheres on Livi	· /	Visible on Aerial Imagery (C9) Stressed Plants (D1)
Drift Deposits (B3)	Presence of Reduced Iron (C4	<u>—</u>	(
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Tilled Thin Muck Surface (C7)	Shallow Aq	ic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Hemains)		al Test (D5)
Field Observations:			2. 1001 (20)
	Depth (inches):		
Water Table Present? Yes No x	Depth (inches):		
Saturation Present? Yes No x	Depth (inches):	Wetland Hydrology Present	t? Yes No X
(includes capillary fringe)			<u>.</u> <u>.</u>
Describe Recorded Data (stream gauge, monitoring v	well, aerial photos, previous insp	ections), if available:	
Remarks:			

	cription: (Describ	e to the de	pth needed to doc	ument the	indicato	or or confi	rm the absence	of indicat	ors.)	
epth _	Matrix			ox Features		. 2	.		5	
nches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	-	Remai	'KS
0-11	10yr 5/3	100		·			sandy		loose/d	dry
1-13	10yr 5/2	98	10yr 4/6	2	<u> </u>	pl	sandy	Prom	inent redox o	concentration
		· —— -								
		· —— ·								
		. <u>—</u> .								
 -		· _					2.			
		epletion, RN	M=Reduced Matrix, (CS=Covere	ed or Coa	ited Sand			_=Pore Lining	_
	Indicators:		Daharahia Bala	Curfoso	(CO) /I D	D D	Indicators fo		-	
Histoso		-	Polyvalue Belo MLRA 149B		(S6) (LR	n n,			LRR K, L, M	
_	pipedon (A2)		·			I DA 140B			ox (A16) (LRI	
	listic (A3)	•	Thin Dark Surfa					-		(LRR K, L, R
	en Sulfide (A4)	-	High Chroma S						urface (S8) (
	ed Layers (A5)		Loamy Mucky I			(, L)			(S9) (LRR K	
	ed Below Dark Surfa	ace (A11)	Loamy Gleyed)			-		(LRR K, L, F
Thick D	ark Surface (A12)		Depleted Matrix	k (F3)			Piedmon	t Floodpla	in Soils (F19) (MLRA 149
Sandy I	Mucky Mineral (S1)		Redox Dark Su	rface (F6)			Mesic Sp	odic (TA6	6) (MLRA 144	1A, 145, 149E
Sandy (Gleyed Matrix (S4)	_	Depleted Dark	Surface (F	7)		Red Pare	ent Materia	al (F21)	
Sandy I	Redox (S5)	•	Redox Depress	ions (F8)			Very Sha	allow Dark	Surface (TF	12)
Strippe	d Matrix (S6)	•	Marl (F10) (LR	RK, L)			Other (E	xplain in R	Remarks)	
	urface (S7)	•		, ,					,	
			vetland hydrology m	ust be pres	sent, unle	ess disturb	ed or problematic	•		
	Layer (if observed	1):								
Type: Ro									.,	
Depth (inc	nes):	13					Hydric Soil Pre	esent?	Yes	No _X
emarks:	raviand from North	acentral and	Northeast Regiona	Leunnlama	ant Vorei	on 2 0 to r	ofloat the NDCC F	iold Indio	ators of Hudr	io Coilo voroi

	Absolute	Dominant	Indicator	<u> </u>
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. Not present				Number of Dominant Species
2				That Are OBL, FACW, or FAC:1 (A)
3				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 0 x 1 = 0
Betula populifolia	20	Yes	FAC	FACW species 0 x 2 = 0
2. Populus tremuloides	10	Yes	FACU	FAC species 20 x 3 = 60
3. Acer saccharum	10	Yes	FACU	FACU species 110 x 4 = 440
4.				UPL species 0 x 5 = 0
5.				Column Totals: 130 (A) 500 (B)
6.				Prevalence Index = B/A = 3.85
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)				2 - Dominance Test is >50%
Solidago canadensis	60	Yes	FACU	3 - Prevalence Index is ≤3.0¹
Potentilla simplex	15	No	FACU	4 - Morphological Adaptations ¹ (Provide supportin
'		No		data in Remarks or on a separate sheet)
4	15	INO	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
4				Problematic Hydrophytic Vegetation (Explain)
5.				¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30x30)				Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30x30) 1. Not present				Woody vines – All woody vines greater than 3.28 ft in height.
				height.
1. Not present				height. Hydrophytic
1. Not present 2.				height. Hydrophytic Vegetation
1. Not present 2. 3.		=Total Cover		height. Hydrophytic Vegetation

Project/Site: Mountain Tract	City/County: Dov	er	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State:	VT Sampling Point: 1
Investigator(s): DB	Section, Townshi	o, Range:	<u> </u>
Landform (hillside, terrace, etc.): Terrace		e, convex, none): none	Slope (%): 1
	t: 42.919460	Long: -72.885414	Datum: Wetland
Soil Map Unit Name: Sheepscot		NWI classific	<u> </u>
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes		-
Are Vegetation, Soil, or Hydrology _		re "Normal Circumstances" pres	
Are Vegetation , Soil , or Hydrology		needed, explain any answers i	n Remarks.)
SUMMARY OF FINDINGS – Attach site m		nt locations, transects, i	mportant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes x Yes x Wetland Hydrology Present? Yes x	No within a Wet		No
Remarks: (Explain alternative procedures here or in		ai Welland Site ID. Welland St	30/337
Seep			
HYDROLOGY			_
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	tors (minimum of two required)
Primary Indicators (minimum of one is required; chec	••••	Surface Soil	, ,
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Pat	
High Water Table (A2)	_ Aquatic Fauna (B13)	Moss Trim Li	
x Saturation (A3)	Marl Deposits (B15)		Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burr	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living		sible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S		tressed Plants (D1) Position (D2)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Shallow Aqui	, ,
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		phic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in hemaiks)	X FAC-Neutral	
Field Observations:		A TAO Neutral	1031 (03)
	Donth (inches):		
Water Table Present? Yes No x	Depth (inches): Depth (inches):		
Saturation Present? Yes x No	Depth (inches): 0	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)		Welland Hydrology Frescht:	163 <u>X</u> 110
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspec	tions), if available:	
Na Na			
Remarks:			

rofile Des	scription: (Describ	e to the de	epth needed to doc			or or cor	nfirm the absence o	f indicat	ors.)	
epth	Matrix			x Featur			_			
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-3	10yr 3/1	100					loamy/clayey		wet	
3-9	10yr 5/1	97	7.5yr 4/6	3	<u> </u>	pl	loamy/clayey	Promi	inent redox concentra	ations
					_	_				
						_				
·						<u> </u>				
<u> </u>						<u> </u>				
						<u> </u>				
	Concentration, D=De	epletion, RI	M=Reduced Matrix, C	CS=Cove	red or Coa	ated Sand			=Pore Lining, M=Marnatic Hydric Soils ³ :	
Black I Hydrog Stratific Deplete Thick I Sandy Sandy Sandy Strippe Dark S	Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) ed Below Dark Surfa Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) surface (S7)		Polyvalue Below MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky M Loamy Gleyed X Depleted Matrix Redox Dark Su Depleted Dark Su Depleted Dark Su Redox Depress Marl (F10) (LRI	ace (S9) (sands (S1) Mineral (F2) Matrix (F3) rface (F6) Surface (F8) R K, L)	(LRR R, M 1) (LRR F 1) (LRR F 2)) F7)	ILRA 149 (, L) (, L)	Coast Pra 5 cm Muc Polyvalue Thin Dark Iron-Mang Piedmont Mesic Sp Red Pare Very Shal Other (Ex	airie Redo ky Peat o Below Si Surface ganese M Floodpla odic (TA6 nt Materia low Dark	Surface (TF12)	R) L, R) L) , L, R A 149
	e Layer (if observed		wetland hydrology mi	ust be pre	esent, unio	ess distur	rbed or problematic.			
Type: Ro	ock	9					Hydric Soil Pre	sent?	Yes X No)
	s revised from North 2013 Errata. (http://s		d Northeast Regional gov/use/hydric)	l Supplen	nent Versi	on 2.0 to	reflect the NRCS Fi	eld Indica	ttors of Hydric Soils v	versio

	ants.			Sampling Point:1	
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Not present				Number of Dominant Species	
2				That Are OBL, FACW, or FAC: 7	(A)
3				Total Number of Dominant	
4.				Species Across All Strata: 7	(B)
5.				Develop of Development Consider	
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0%	(A/B)
7.				Prevalence Index worksheet:	_ `
· -		=Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15' radius)		-10tai 0010i		OBL species 56 x 1 = 56	
	10	Voo	EACW		
1. Salix bebbiana	10	Yes	FACW	FACW species 80 x 2 = 160	
2. Salix discolor	10	Yes	FACW	FAC species 1 x 3 = 3	_
3. Salix eriocephala	10	Yes	FACW	FACU species 0 x 4 = 0	_
4. Spiraea alba	10	Yes	FACW	UPL species 0 x 5 = 0	
5				Column Totals: 137 (A) 219	(B)
6				Prevalence Index = B/A = 1.60	
7				Hydrophytic Vegetation Indicators:	
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5' radius)				X 2 - Dominance Test is >50%	
1. Carex crinita	20	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹	
2. Onoclea sensibilis	40	Yes	FACW	4 - Morphological Adaptations ¹ (Provide sup	porting
3. Juncus effusus	10	No	OBL	data in Remarks or on a separate sheet)	
Equisetum arvense	1	No	FAC	Problematic Hydrophytic Vegetation ¹ (Expla	ain)
5. Juncus canadensis	25	Yes	OBL		
6. Symphyotrichum puniceum	1	No	OBL	¹ Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	must
7.		110	OBL	Definitions of Vegetation Strata:	
8.					
· -				Tree – Woody plants 3 in. (7.6 cm) or more in	المارد : د
9.				diameter at breast height (DBH), regardless of h	ieigni.
10.				Sapling/shrub – Woody plants less than 3 in. D	BH
11				and greater than or equal to 3.28 ft (1 m) tall.	
12				Herb - All herbaceous (non-woody) plants, rega	ırdless
	97	=Total Cover		of size, and woody plants less than 3.28 ft tall.	
Woody Vine Stratum (Plot size: 30x30)				Woody vines – All woody vines greater than 3.2	28 ft in
1. Not present				height.	
2				Hydrophytic Vegetation	
2. 3.				i vedetation	
				Present? Yes X No	

Project/Site: Mountain Tract		С	ity/County: Do	over		Sam	pling Date:	9/18/14	4
Applicant/Owner: Hermitage/Haystac	k				State:	VT	Sampling	Point:	2
Investigator(s): DB		S	ection, Towns	hip, Range:				_	
Landform (hillside, terrace, etc.): hills	slope			ave, convex, noi	ne): none		Slc	pe (%):	20
Subregion (LRR or MLRA): LRR R	•	: 42.922722	`	Long: -72.8	· -			m: Upla	
Soil Map Unit Name: Rawsonville-Hog					NWI classi	fication		п. ора	110
· — —		for this time of year	·2 Voo	y No					
Are climatic / hydrologic conditions on		-	-		(If no, explair			NI.	. .,
Are Vegetation, Soil,					rcumstances" pi		_	IN	0 <u>X</u>
Are Vegetation, Soil,				, , ,	ain any answer		,		
SUMMARY OF FINDINGS – A	ttach site m	ap showing sa	ımpling po	int location	s, transects	, impo	ortant fea	ıtures,	etc.
Hydrophytic Vegetation Present?	Yes	No_X	Is the Sam	nled Area					
Hydric Soil Present?	Yes		within a W	=	Yes	No	o <u>X</u>		
Wetland Hydrology Present?	Yes	No X			te ID: Wetland				
Remarks: (Explain alternative proced	lures here or in a	a separate report.)							
NH forest at edge of mowed ski slope		,							
HYDROLOGY									
Wetland Hydrology Indicators:					Secondary Indi			f two req	<u>uired)</u>
Primary Indicators (minimum of one is	s required; chec		(Da)		Surface Sc		. ,		
Surface Water (A1)		_Water-Stained Le		-	Drainage F				
High Water Table (A2)		_Aquatic Fauna (B		-	Moss Trim				
Saturation (A3)		Marl Deposits (B1		-			r Table (C2)	1	
Water Marks (B1)		Hydrogen Sulfide		a Booto (C2)	Crayfish B				20)
Sediment Deposits (B2)		Oxidized Rhizosp Presence of Redu		-			on Aerial Im	• • •	J 9)
Drift Deposits (B3) Algal Mat or Crust (B4)		Recent Iron Redu	` '		Geomorph		ed Plants (D	,1)	
Iron Deposits (B5)		Thin Muck Surfac		30115 (06)	Shallow Ac				
Inundation Visible on Aerial Imag		Other (Explain in		-	Microtopog				
Sparsely Vegetated Concave Su		_Other (Explain in	nemarks)	-	FAC-Neutr	-			
Field Observations:	nace (Do)				T AO-Neuti	ai i est	(D3)		
	No. v	Depth (inches):							
Water Table Present? Yes	Nox	Depth (inches): Depth (inches):							
Saturation Present? Yes	No x	Depth (inches):		Wetland Hyd	Irology Presen	t?	Yes	No	Х
(includes capillary fringe)	110 <u>x</u>			Trottunia riyo	o.ogy i roco	••			
Describe Recorded Data (stream gau	ge, monitoring v	vell, aerial photos,	previous inspe	ections), if avail	able:				
NA									
Remarks:									

Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Matrix (S6) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, L, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, MLRA 149B) 5 cm Mucky Peat or Peat (S4) (LRR K, L, MLRA 149B) 6 cm Mucky Peat or Peat (S4) (LRR K, L, MLRA 149B) 7 cm Mucky Peat or Peat (S4) (LRR K, L, MLRA 149B) 8 cm Mucky Peat or Peat (S4) (LRR K, L, MLRA 149B) 9 cm Mucky Peat or Peat (S4) (LRR K, L, MLRA 149B) 9 cm Mucky Peat or Peat (S4) (LRR K, L, MLRA 149B) 9 cm Mucky Peat or Peat (S4) (LRR K, L, MLRA 149B) 9 cm Mucky	OIL					•	Sampling Point	: <u>2</u>
Color (moist)	Profile Description: (De	scribe to the de	pth needed to docu	ment the indicat	or or con	firm the absence of indic	ators.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Location: PL=Pore Lining, M=MM								
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deplete Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deplete Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deplete Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Deplete Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depleted Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depleted Matrix, CS=Covered or Coated Sand Grains. Total Calcasins PL=Pore Lining, M=Meximals Plants	inches) Color (moi	st) %	Color (moist)	% Type ¹	Loc ²	Texture	Remar	ks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2 Location: PL=Pore Lining, M=Mr. 1 Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Care Muck (A10) (LRR K, L, MLRA 14 Histic Epipedon (A2) MLRA 149B) Diack Histic (A3) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Matrix (S6) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S6) Sandy Gleyed Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	0-4 10yr 4/6	100				loamy/clayey		
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR R, K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Coast Prairie Redox (A10) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L, L) Polyvalue Below Surface (S9) (LRR K, L, L, L) Polyvalue Below Surface (S9) (LRR K, L, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR K, L) P	4-9 10yr 3/3	100				loamy/clayey	loose)
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		<u> </u>						
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Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, L) Polyvalue Below (A16) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, LR) Mesic Spodic (TA6) (MLRA 144A, 145, LR) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, L) Polyvalue Below (A16) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, LR) Mesic Spodic (TA6) (MLRA 144A, 145, LR) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR R, K, L) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Stripped Matrix (S6) Marl (F10) (LRR K, L) Marl (F10) (LRR K, L) Coast Prairie Redox (A10) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L, L) Polyvalue Below Surface (S9) (LRR K, L, L, L) Polyvalue Below Surface (S9) (LRR K, L, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L, L) Thin Dark Surface (S9) (LRR K, L, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Surface (S9) (LRR K, L) P								
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Other (Explain in Remarks) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):								
Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Other (Explain in Remarks) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	Type: C=Concentration	D=Depletion RN	——————————————————————————————————————	S=Covered or Co	ated Sand	Grains ² l ocation:	PI =Pore I ining	M=Matrix
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A10) (LRR K, L, MLRA 14 Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Redox (S5) Redox Dark Surface (F7) Red Parent Material (F21) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below (A10) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLR M, L) Mesic Spodic (TA6) (MLRA 144A, 145, L) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	• • • • • • • • • • • • • • • • • • • •	B-Bopiotion, Titl	N=110dd00d Matilx, C		atou ourid			
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K Piedmont Floodplain Soils (F19) (MLR Mesic Spodic (TA6) (MLRA 144A, 145) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Depleted Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Other (Explain in Remarks) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Other (Explain in Remarks)	•		Polyvalue Belov	v Surface (S8) (LF	RR R.		-	
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Redox Dark K, L) Marl (F10) (LRR K, L) Other (Explain in Remarks) Polyvalue Below Peat or Peat (S3) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K P) Piedmont Floodplain Soils (F19) (MLR A 144A, 145) Mesic Spodic (TA6) (MLRA 144A, 145) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):		•			,			
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLR Mesic Spodic (TA6) (MLRA 144A, 145) Mesic Spodic (TA6) (MLRA 144A, 145) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dark Surface (S7) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)			•		/II BA 1/10			
Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.						· · · · · · · · · · · · · · · · · · ·		
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLR Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):		· ·						
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Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Med Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):								
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dark Surface (S7) Clindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):			Depleted Matrix	(F3)				
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):						Mesic Spodic (T	46) (MLRA 14 4	IA, 145, 149
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Bindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	Sandy Gleyed Matrix	(S4)	Depleted Dark S	Surface (F7)		Red Parent Mate	erial (F21)	
Dark Surface (S7) Bindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	Sandy Redox (S5)		Redox Depress	ions (F8)		Very Shallow Da	rk Surface (TF	12)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	Stripped Matrix (S6)		Marl (F10) (LRF	₹ K, L)		Other (Explain in	Remarks)	
Restrictive Layer (if observed):	Dark Surface (S7)							
		_	vetland hydrology mu	ust be present, unl	ess disturl	oed or problematic.		
		ervea):						
Type: bedrock								
Depth (inches): 9 Hydric Soil Present? Yes No	Depth (inches):	9				Hydric Soil Present?	Yes	No
Remarks:	Remarks:							
Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils	Data form is revised from 7.0 March 2013 Errata. (f			Supplement Vers	ion 2.0 to	reflect the NRCS Field Indi	cators of Hydri	c Soils versi

VEGETATION – Use scientific names of pla	ınts.			Sampling Point: 2	
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Fagus grandifolia	45	Yes	FACU	Number of Dominant Species	
2. Acer saccharum	1	No	FACU	That Are OBL, FACW, or FAC: 0	(A)
3. Acer rubrum	1	No	FAC	Total Number of Dominant	_
4.				Species Across All Strata: 4	(B)
5.				Percent of Dominant Species	_
6.				That Are OBL, FACW, or FAC: 0.0%	(A/B)
7.				Prevalence Index worksheet:	_
	47	=Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 0 $x 1 = 0$	
Acer pensylvanicum	30	Yes	FACU	FACW species 0 x 2 = 0	
2. Fagus grandifolia	1	No	FACU	FAC species 2 x 3 = 6	
3.				FACU species 128 x 4 = 512	
4.				UPL species 0 x 5 = 0	
5.				Column Totals: 130 (A) 518	— (B)
6.				Prevalence Index = B/A = 3.98	` ′
7.				Hydrophytic Vegetation Indicators:	_
	31	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5' radius)				2 - Dominance Test is >50%	
Parathelypteris noveboracensis	1	No	FAC	3 - Prevalence Index is ≤3.0 ¹	
Fragaria virginiana	1	No	FACU	4 - Morphological Adaptations ¹ (Provide sup	porting
3. Acer saccharum	20	Yes	FACU	data in Remarks or on a separate sheet)	
Dryopteris marginalis	30	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Expla	in)
5. Polygonum	1	No	17.00	<u> </u>	
6. Polygonatum	1	No		¹ Indicators of hydric soil and wetland hydrology r be present, unless disturbed or problematic.	nust
7.		110		Definitions of Vegetation Strata:	
8.				_	
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of h	oiaht
<u> </u>				diameter at breast neight (DBH), regardless of h	eigiit.
				Sapling/shrub – Woody plants less than 3 in. D and greater than or equal to 3.28 ft (1 m) tall.	ВН
11.				and greater than or equal to 3.26 it (1 iii) tail.	
12	54	=Total Cover		Herb – All herbaceous (non-woody) plants, rega	rdless
Waadu Vira Chrahim (Dat sins 90,00	34	= rotal Cover		of size, and woody plants less than 3.28 ft tall.	
Woody Vine Stratum (Plot size: 30x30)				Woody vines – All woody vines greater than 3.2	28 ft in
1. Not present				height.	
2.				Hydrophytic	
3.				Vegetation	
4				Present?	
		=Total Cover			
Remarks: (Include photo numbers here or on a separate	rate sheet.)				

Project/Site: Mountain Tract		City/County: Dover	s	ampling Date: 9/18/14
Applicant/Owner: Hermitage/Haystac	k		State: V	T Sampling Point: 1
Investigator(s): DB	(Section, Township, Range:		<u> </u>
Landform (hillside, terrace, etc.): hills		cal relief (concave, convex, no		Slope (%): 20
Subregion (LRR or MLRA): LRR R		Long: -72	•	Datum: Wetland
Soil Map Unit Name: Rawsonville-Hogl		0 V N	NWI classificat	
Are climatic / hydrologic conditions on			(If no, explain in I	
Are Vegetation, Soil,			Gircumstances" prese	nt? Yes No x
Are Vegetation, Soil,	or Hydrologynaturally pro	oblematic? (If needed, exp	plain any answers in	Remarks.)
SUMMARY OF FINDINGS – A	ttach site map showing s	ampling point location	ns, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes x No	Is the Sampled Area		
Hydric Soil Present?	Yes x No	within a Wetland?	Yes X	No
Wetland Hydrology Present?	Yes x No	If yes, optional Wetland S		<u></u>
HYDROLOGY				
Wetland Hydrology Indicators:			-	ors (minimum of two required)
Primary Indicators (minimum of one is			Surface Soil C	
Surface Water (A1)	Water-Stained L		Drainage Patte	
High Water Table (A2) Saturation (A3)	Aquatic Fauna (Marl Deposits (E		Moss Trim Line	ater Table (C2)
Water Marks (B1)	Hydrogen Sulfid		Crayfish Burro	
Sediment Deposits (B2)		pheres on Living Roots (C3)		ble on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Rec			essed Plants (D1)
Algal Mat or Crust (B4)		luction in Tilled Soils (C6)	Geomorphic Po	, ,
Iron Deposits (B5)	Thin Muck Surfa	ce (C7)	Shallow Aquita	ırd (D3)
Inundation Visible on Aerial Imag	ery (B7) Other (Explain in	ı Remarks)	Microtopograpl	nic Relief (D4)
Sparsely Vegetated Concave Sur	face (B8)		X FAC-Neutral T	est (D5)
Field Observations:				
Surface Water Present? Yes	No x Depth (inches)			
Water Table Present? Yes				
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches)	: Wetland Hy	drology Present?	Yes X No
Describe Recorded Data (stream gaus NA Remarks:	ge, monitoring well, aerial photos	previous inspections), if avai	ilable:	

· · ·	rofile De	scription: (Describ	e to the de	pth needed to doc	ument th	e indicato	or or conf	irm the absence	of indicat	ors.)	
Color (moist)	Depth	Matrix		Redo	x Feature	es					
ype: C=Concentration, D=Depletion, RIM=Reduced Matrix, CS=Covered or Coated Sand Grains. ydric Soil Indicators: Histosol (A1) Histosol (A2) Histosol (A2) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) Histosol (A2) Histosol (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Some of Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Peledmont Floodplain Soils (F19) (MLRA 149 Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Dark Surface (S7) Midicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Stripped Matrix (S6)** Bedrock Hydric Soil Present? Yes X No **Surface (S7) **Surface (S	nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
Indicators for Problematic Hydric Soils*: Histosol (A1)	0-5	10yr 5/2	95	7.5yr 4/6	5	С	pl	sandy	Prom	inent redox con	centrations
Indicators for Problematic Hydric Soils*: Histosol (A1)											
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Indicators for Problematic Hydric Soils*: Histosol (A1)											
Histosol (A1)	Гуре: С=	Concentration, D=De	epletion, RN	M=Reduced Matrix, C	CS=Cove	red or Coa	ated Sand	Grains. ² Lo	ocation: PL	=Pore Lining, N	Л=Matrix.
Histic Epipedon (A2) MIRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Stripped Matrix (S6) Dark Surface (S7) MERA 149B) Thin Dark Surface (S9) (LRR K, L) Depleted Dark Surface (F7) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Mari (F10) (LRR K, L) Depleted Dark Surface (F7) Mari (F10) (LRR K, L) Other (Explain in Remarks) Mari (F10) (LRR K, L) Depleted Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Mari (F10) (LRR K, L) Depleted Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Mari (F10) (LRR K, L) Depleted Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Mari (F10) (LRR K, L) Depleted Dark Surface (TF12) Stripped Matrix (S6) Depleted Dark Surface (TF12) Stripped Matrix (S6) Dark Surface (S7) Mari (F10) (LRR K, L) Depleted Dark Surface (TF12) Depleted Dark Surface (TF12) Stripped Matrix (S6) Depleted Dark Surface (TF12) Depl										•	
Black Histic (A3)			-			e (S8) (LR	RR,	2 cm M	uck (A10) (LRR K, L, MLR	A 149B)
Hydrogen Sulfide (A4)	Histic	Epipedon (A2)		,					rairie Redo	x (A16) (LRR K	K, L, R)
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Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, F Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 148 Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. In the set of the s	Hydro	gen Sulfide (A4)	_	High Chroma S	ands (S1	1) (LRR K	(, L)	Polyvalı	ue Below S	urface (S8) (LR	RK, L)
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Thick Dark Surface (A12)			ace (A11)				, ,				
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Sandy Redox (S5)		• , ,							-		145, 149B
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estrictive Layer (if observed): Type: bedrock Depth (inches): 5 Hydric Soil Present? Yes X No emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Dark 3	Surface (S7)									
Type: bedrock Depth (inches): 5				vetland hydrology mu	ust be pre	esent, unle	ess disturb	ed or problemati	C.		
Depth (inches): 5 Hydric Soil Present? Yes X No emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version.			l):								
emarks: ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version			5					Hydric Soil Pi	resent?	V es X	No
ata form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version			<u> </u>					Tiyane oon Ti	CSCIII.	103 <u>X</u>	
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					Ouppicii	ICIIL VCISI	011 2.0 (0 1	chect the 141100	i icia iriaice	tions of Flydric C	JOHS VCISIO
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	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1. Not present				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 2 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
5.				Develop of Develop to Consider
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 46 x 1 = 46
				FACW species 51 x 2 = 102
		· ——		
_				FAC species 1 x 3 = 3
3.		· ——		FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals: 98 (A) 151 (B)
6.				Prevalence Index = B/A =1.54
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)				X 2 - Dominance Test is >50%
Onoclea sensibilis	50	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Carex crinita	45	Yes	OBL	4 - Morphological Adaptations (Provide supporting
3. Eutrochium maculatum	1	No	OBL	data in Remarks or on a separate sheet)
4. Doellingeria umbellata	1	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Parathelypteris noveboracensis	1	No	FAC	¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.				and greater than or equal to 3.20 it (1 iii) tail.
12		T-1-1 0		Herb – All herbaceous (non-woody) plants, regardless
	98	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30x30)				Woody vines – All woody vines greater than 3.28 ft in
1. Not present		·		height.
2.				Hydrophytic
3		·		Vegetation
4.				Present? Yes X No
··· ———		=Total Cover		

Project/Site: Mountain Tract	City/County: D	over	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State:	VT Sampling Point: 2
Investigator(s): DB	Section, Towns	ship, Range:	
Landform (hillside, terrace, etc.): terrace		ave, convex, none): none	Slope (%): 2
Subregion (LRR or MLRA): LRR R Lat	: 42.926691	Long: -72.888481	Datum: Upland
Soil Map Unit Name: Mundal		NWI class	fication: 2
Are climatic / hydrologic conditions on the site typical f	for this time of year? Yes		n in Remarks.)
Are Vegetation, Soil, or Hydrology _	·	Are "Normal Circumstances" p	,
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showing sampling po	oint locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No X Is the San	npled Area	
Hydric Soil Present? Yes		-	No X
Wetland Hydrology Present? Yes	No X If yes, opti	onal Wetland Site ID: Wetland	
NH Forest			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface So	oil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		Patterns (B10)
High Water Table (A2)	_Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)	Marl Deposits (B15)		n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres on Livi Presence of Reduced Iron (C4)	· · · —	Visible on Aerial Imagery (C9) Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled	· —	ic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · — ·	quitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		graphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	(ral Test (D5)
Field Observations:			. ,
Surface Water Present? Yes No x	Depth (inches):		
Water Table Present? Yes No x	Depth (inches):		
Saturation Present? Yes No x	Depth (inches): Depth (inches):	Wetland Hydrology Presen	t? Yes <u>No X</u>
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring v NA	well, aerial photos, previous insp	ections), if available:	
Remarks:			

Depth Matrix Color (moist) Scolor (m	Depth				ument tn	e indicat	or or con	firm the absence of i	naicato	Jrs.)		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Loamy/clayey Loose/dry	· —	Matrix		=						,		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ThinGates Grains. Total Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ThidCates Sufface (S1) LRR K, L, Polyvalue Below Surface (S1) LRR K, L, Polyvalue Below Matria Coated Frain Patrix Surface (S8) (LRR K, L, Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRR Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRR A144A, 145, Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)			%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	S	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Floration: PL=Pore Lining, M=Matydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149 Histic Epipedon (A2) MLRA 1498) Coast Prairie Redox (A16) (LRR K, L, Mth. RA 149 Histic Epipedon (A2) Phin Dark Surface (S9) (LRR R, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)	0-9	10yr 4/4	100					loamy/clayey		loose/dr	у	
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Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All RA 149B) Tocast Prairie Redox (A16) (LRR K, L, F) Coast Prairie Redox (A16) (LRR K, L, F) For Mucky Peat or Peat (S3) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks)			·									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) All RA 149B) Tocast Prairie Redox (A16) (LRR K, L, F) Coast Prairie Redox (A16) (LRR K, L, F) For Mucky Peat or Peat (S3) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S4) Dark Surface (S7) Marl (F10) (LRR K, L) Other (Explain in Remarks)												
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, MLRA 148 Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Polyvalue Below Cast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, F) For Mucky Peat or Peat (S3) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Priedmont Floodplain Soils (F19) (MLRA 144A, 145, Mesic Spodic (TA6) (MLRA 144A, 145, Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Dark Surface (S7)			epletion, RM	/I=Reduced Matrix, C	S=Cover	ed or Co	ated Sand				•	Χ.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, L) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7)	-									-		
Black Histic (A3) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Thin Dark Surface (S9) (LRR K, L) Depleted Sandy MLRA 144A, 145, Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Sendy Gleyed Matrix (S4) Stripped Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7)			-			(S8) (LR	RR,)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) High Chroma Sands (S11) (LRR K, L) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1) Mesic Spodic (TA6) (MLRA 144A, 145, Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)				,								
Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)			-									, R)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Depleted Dark Surface (F6) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Depleted Matrix (F2) Iron-Manganese Masses (F12) (LRR K, E) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Mesic Spodic (TA6) (MLRA 144A, 145, Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)	Hydrogen S	Sulfide (A4)	_	High Chroma S	ands (S1	1) (LRR F	(, L)	Polyvalue B	elow Su	ırface (S8) (L	RR K, L)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)	Stratified L	ayers (A5)	_	Loamy Mucky N	∕lineral (F	1) (LRR I	〈, L)	Thin Dark S	urface ((S9) (LRR K ,	L)	
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Dark Surface (S7) Redox Dark Surface (F6) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)	Depleted B	Below Dark Surfa	ace (A11)	Loamy Gleyed	Matrix (F2	2)		Iron-Mangai	nese Ma	asses (F12) (LRR K, L	, R)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Dark Surface (S7)	Thick Dark	Surface (A12)	_	Depleted Matrix	(F3)			Piedmont F	oodplai	n Soils (F19)	(MLRA 1	49B)
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7)	Sandy Muc	cky Mineral (S1)	_	Redox Dark Su	rface (F6))		Mesic Spod	ic (TA6)	(MLRA 144)	4 , 145, 14	19B)
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7)	Sandy Gle	yed Matrix (S4)	_	Depleted Dark S	Surface (I	F7)						
	Sandy Red	dox (S5)	_	Redox Depress	ions (F8)			Very Shallo	w Dark S	Surface (TF1	2)	
	Stripped M	latrix (S6)	_	Marl (F10) (LRF	R K, L)			Other (Expla	ain in Re	emarks)		
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Dark Surfa	ace (S7)						, 				
				vetland hydrology mu	ust be pre	esent, unl	ess distur	bed or problematic.				
Restrictive Layer (if observed): Type: na	•	•	•									
· · · · · · · · · · · · · · · · · · ·								Hydric Soil Prese	nt?	Yes	No	Χ
	Remarks:							L		<u> </u>		
Remarks:		vised from Nortl 3 Errata. (http://s			Supplem	nent Versi	on 2.0 to	reflect the NRCS Field	d Indicat	tors of Hydric	Soils ver	rsion
Romarke:	Data form is rev				Supplem	nent Versi	on 2.0 to	reflect the NRCS Field	d Indicat	tors of Hydric	Soils ver	rsio

VEGETATION – Use scientific names of pla	ants.			Sampling Point: 2	
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Pinus strobus	50	Yes	FACU	Number of Dominant Species	
2. Betula papyrifera	10	No	FACU	· ·	(A)
3. Acer saccharum	40	Yes	FACU	Total Number of Dominant	
4. Picea rubens	1	No	FACU		(B)
5.				Percent of Dominant Species	
6.				·	(A/B)
7.				Prevalence Index worksheet:	
	101	=Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 0 x 1 = 0	_
1. Abies balsamea	10	Yes	FAC	FACW species 0 x 2 = 0	_
2. Picea rubens	1	No	FACU	FAC species 40 x 3 = 120	_
3.				FACU species 112 x 4 = 448	_
4.				UPL species 0 x 5 = 0	-
5.				Column Totals: 152 (A) 568	(B)
6.				Prevalence Index = B/A = 3.74	-` ′
7				Hydrophytic Vegetation Indicators:	
/· —	11	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	ļ
Herb Stratum (Plot size: 5' radius)		-10161 00101		2 - Dominance Test is >50%	ļ
Dryopteris intermedia	30	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹	
Acer saccharum	10	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supp	ortine
	10	162	FACO	data in Remarks or on a separate sheet)	UI til iş
3				Problematic Hydrophytic Vegetation ¹ (Explain	-1
4				Problematic hydrophytic vegetation (Explain	1)
5 6				¹ Indicators of hydric soil and wetland hydrology me be present, unless disturbed or problematic.	ust
7				Definitions of Vegetation Strata:	
8				Tree – Woody plants 3 in. (7.6 cm) or more in	
9.				diameter at breast height (DBH), regardless of hei	ight.
10.				Sapling/shrub – Woody plants less than 3 in. DB	≀H
11.		<u> </u>		and greater than or equal to 3.28 ft (1 m) tall.	11
12.		<u> </u>		Herb – All herbaceous (non-woody) plants, regard	طاموو
	40	=Total Cover		of size, and woody plants less than 3.28 ft tall.	IICSS
Woody Vine Stratum (Plot size: 30x30)					4 in
1. Not present				Woody vines – All woody vines greater than 3.28 height.	ΠIII
				- 3	
				Hydrophytic	
4.				Vegetation Present? Yes No X	
4	-	=Total Cover		Flesciit: 165 No A	
D. Control of the state property of the state of the stat				<u> </u>	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)				

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State: VT Sampling Point: 1
Investigator(s): DB	Section, Township, Range:	
Landform (hillside, terrace, etc.): terrace	Local relief (concave, convex,	
Subregion (LRR or MLRA): LRR R		72.888658 Datum: Wetland
		NWI classification: 2
Soil Map Unit Name: Mundal	is all families times of course	
Are climatic / hydrologic conditions on the site typ		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	· · · · · · · · · · · · · · · · · · ·	Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrolog	gynaturally problematic? (If needed, e	xplain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	X No Is the Sampled Area	
Hydric Soil Present? Yes		Yes X No
Wetland Hydrology Present? Yes	X No If yes, optional Wetland	
Remarks: (Explain alternative procedures here		
Red Spruce Hardwood Swamp		
LIVEROLOGY		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	x Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
x Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	x Depth (inches):	
Water Table Present? Yes No	x Depth (inches):	
Saturation Present? Yes x No	Depth (inches): gs Wetland F	lydrology Present? Yes X No
(includes capillary fringe)		
, , , , , , , , , , , , , , , , , , , ,	ring well, aerial photos, previous inspections), if av	ailable:
NA		
Remarks:		
Tiomano.		
T .		

lanth	-	Se to the ue	-			onfirm the absence o	indicators.,
Depth Inches)	Matrix Color (moist)	%	Color (moist)	x Features % Ty	pe ¹ Loc ²	Texture	Remarks
			Odioi (moist)		pe Loc	·	
0-10	10yr 3/1	100				muck	saturated
0-12	10yr 5/1	100				sandy	saturated
		- — · - — ·					
						·	
		- — - - — -				·	
						· —— -	
						·	
	Concentration, D=E	Depletion, RM	1=Reduced Matrix, C	S=Covered o	r Coated Sa		ation: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histoso Histic E Black H Hydrog Stratific Deplete Thick E Sandy Sandy Strippe Dark S dicators	ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) ed Below Dark Sur Dark Surface (A12) Mucky Mineral (S1 Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7)) - - - etation and w	Polyvalue Belov MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky N Loamy Gleyed I Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depress Marl (F10) (LRF	ce (S9) (LRR ands (S11) (L dineral (F1) (L Matrix (F2) (F3) face (F6) Surface (F7) ions (F8)	R, MLRA 14 RR K, L) RR K, L)	2 cm Muc Coast Pra 5 cm Muc Polyvalue Thin Dark Iron-Mang Piedmont Mesic Spo Red Parei Very Shal	ck (A10) (LRR K, L, MLRA 149B) hirie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, F) Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, Floodplain Soils (F19) (MLRA 14 bodic (TA6) (MLRA 144A, 145, 149 nt Material (F21) low Dark Surface (TF12) plain in Remarks)
	Layer (if observe	ed):					
Type: be							
Depth (in emarks:	s revised from Nor	12				Hydric Soil Pres	sent?

VEGETATION – Use scientific names of pla	ants.			Sampling Point:1
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Betula populifolia	10	Yes	FAC	Number of Dominant Species
2. Abies balsamea	10	Yes	FAC	That Are OBL, FACW, or FAC: 7 (A)
3				Total Number of Dominant
4				Species Across All Strata: 7 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
	20	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species 60 x 1 = 60
1. Salix sp.	30	Yes	FAC	FACW species 61 x 2 = 122
2. Spiraea alba	20	Yes	FACW	FAC species 55 x 3 = 165
3.				FACU species 0 x 4 = 0
4				UPL species0 x 5 =0
5.				Column Totals: 176 (A) 347 (B)
6.				Prevalence Index = B/A = 1.97
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)		_		X 2 - Dominance Test is >50%
1. Eutrochium maculatum	30	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Solidago gigantea	20	No	FACW	4 - Morphological Adaptations ¹ (Provide supporting
3. Carex crinita	30	Yes	OBL	data in Remarks or on a separate sheet)
Doellingeria umbellata	1	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Phalaris arundinacea	20	No	FACW	
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.		·		Definitions of Vegetation Strata:
8.				Tree Weeds plants 2 in (7.5 cm) or mare in
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	101	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30x30)				Woody vines – All woody vines greater than 3.28 ft in
1. Clematis virginiana	5	Yes	FAC	height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes X No
	5	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)	-		

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack		State: VT Sampling Point: 2
Investigator(s): DB	Section, Township, Ran	ige:
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, conv	
Subregion (LRR or MLRA): LRR R	·	g: -72.891889 Datum: Upland
Soil Map Unit Name: Mundal		NWI classification: 2
· · · · · · · · · · · · · · · · · · ·	ical for this time of year? Yes y	
Are Climatic / hydrologic conditions on the site type Are Vegetation, Soil, or Hydrologic		No (If no, explain in Remarks.) rmal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrolog		ed, explain any answers in Remarks.)
		cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	X No Is the Sampled Are	ea
	No X within a Wetland?	
Wetland Hydrology Present? Yes		tland Site ID: Wetland A23
Remarks: (Explain alternative procedures here of NH Forest w/Spruce	л III а зерагате тероп.)	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required;		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	x Depth (inches):	
Water Table Present? Yes No _	x Depth (inches): x Depth (inches):	
Saturation Present? Yes No _	x Depth (inches): Wetla	and Hydrology Present? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ring well, porial photos, provious inspections	if available:
NA	ing well, aerial photos, previous inspections),	ii avaliable.
Remarks: Bouldery Slope		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of Depth Matrix Redox Features [inches) Color (moist) % Color (moist) % Type¹ Loc² Texture 0-8 10yr 2/1 100 loamy/clayey 8-11 7.5yr 4/6 100 loamy/clayey	Remarks loose moist/bright
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture 0-8 10yr 2/1 100 loamy/clayey	loose
8-11 7.5yr 4/6 100 loamy/clayey	moist/bright
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locat	tion: PL=Pore Lining, M=Matrix.
	Problematic Hydric Soils ³ :
	(A10) (LRR K, L, MLRA 149B)
	rie Redox (A16) (LRR K, L, R)
	y Peat or Peat (S3) (LRR K, L, R)
-	Below Surface (S8) (LRR K, L)
	Surface (S9) (LRR K, L)
	anese Masses (F12) (LRR K, L, R)
	Floodplain Soils (F19) (MLRA 149B)
	dic (TA6) (MLRA 144A, 145, 149B)
_ · · · · · · · · _ · · · · · · _ · · · · · · · · · · · · _ · · · · · · · · · · · · · · · · · ·	t Material (F21)
	ow Dark Surface (TF12)
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Exp Dark Surface (S7)	lain in Remarks)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):	
Type: na	
Depth (inches): Hydric Soil Prese	ent? Yes <u>No X</u>
Remarks:	
Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Fie 7.0 March 2013 Errata. (http://soils.usda.gov/use/hydric)	ld Indicators of Hydric Soils version

VEGETATION – Use scientific names of pla	ants.			Sampling Point: 2		
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Abies balsamea	15	Yes	FAC	Number of Dominant Species		
2. Acer rubrum	25	Yes	FAC	That Are OBL, FACW, or FAC:3 (A)		
3. Picea rubens	30	Yes	FACU	Total Number of Dominant		
4				Species Across All Strata: 5 (B)		
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:60.0%(A/B		
7				Prevalence Index worksheet:		
	70	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15' radius)				OBL species0 x 1 =0		
1. Picea rubens	30	Yes	FACU	FACW species 0 x 2 = 0		
2. Abies balsamea	10	Yes	FAC	FAC species51 x 3 =153		
3.				FACU species 61 x 4 = 244		
4.				UPL species 0 x 5 = 0		
5.				Column Totals: 112 (A) 397 (B		
6.				Prevalence Index = B/A = 3.54		
7.	-			Hydrophytic Vegetation Indicators:		
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' radius)		•		X 2 - Dominance Test is >50%		
1. Picea rubens	1	No	FACU	3 - Prevalence Index is ≤3.0 ¹		
2. Dryopteris intermedia	1	No	FAC	4 - Morphological Adaptations ¹ (Provide supporting		
3.				data in Remarks or on a separate sheet)		
4.	'			Problematic Hydrophytic Vegetation ¹ (Explain)		
5 6				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7				Definitions of Vegetation Strata:		
8 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
10.				Sapling/shrub – Woody plants less than 3 in. DBH		
11.				and greater than or equal to 3.28 ft (1 m) tall.		
12.				Herb – All herbaceous (non-woody) plants, regardless		
	2	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size: 30x30) 1. Not present				Woody vines – All woody vines greater than 3.28 ft in height.		
2.						
3.				Hydrophytic Vegetation		
4.				Present? Yes X No		
		=Total Cover				
Remarks: (Include photo numbers here or on a sepa				<u>'</u>		
Tremains. (include prioto numbers here of on a sepa	irate srieet.)					

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/19/14			
Applicant/Owner: Hermitage/Haystack		State: VT Sampling Point: 1			
Investigator(s): DB	Section, Township, Range:				
Landform (hillside, terrace, etc.): terrace	Local relief (concave, convex, no				
Subregion (LRR or MLRA): LRR R L	at: 42.928226 Long: -72.	· · · · · · · · · · · · · · · · · · ·			
Soil Map Unit Name: Mundal		NWI classification: 2			
Are climatic / hydrologic conditions on the site typica	al for this time of year? Yes x No	(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology		ircumstances" present? Yes x No			
Are Vegetation , Soil , or Hydrology	· · · · · · · · · · · · · · · · · · ·	plain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site		,			
Hydrophytic Vegetation Present? Hydric Soil Present? Yes X Yes X Wetland Hydrology Present? Yes x	No within a Wetland?	Yes X No ite ID: Wetland A23			
Remarks: (Explain alternative procedures here or is Seep	n a separate report.)				
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; che	• • • •	Surface Soil Cracks (B6)			
x Surface Water (A1) x High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Drainage Patterns (B10) Moss Trim Lines (B16)			
x Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes x No	Depth (inches): 2				
Water Table Present? Yes x No					
Saturation Present? Yes x No	Depth (inches): gs Wetland Hyd	drology Present? Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring NA	y well, aerial photos, previous inspections), if avail	ladie:			
Remarks:					
Hemans.					

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, M=Matrix, LN=Reduced Matrix, LN=Reduced Matrix	OIL		Sa	mpling Point: 1
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Location: PL=Pore Lining, M=Matrix, Ngdric Soil Indicators: Indicators for Problematic Hydric Soils*: Soil Indicators: Indicators for Problematic Hydric Soils*: Indicators of Pydroped Mydric Hydric Soils*: Indicators of Pydroped Mydric Hydric Soils*: Indicators of Pydroped Mydric Hydric Hydric Soils*: Indicators of Hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of Hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of Hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of Hydric Soils Present? Indicators of Hydric Soils version Hydric Soils Present? Indicators of Hydric Soils Present? Indicators of Hydric Soils Version Of Hydric Soils Present? Indicators of Hydric Soils Version Of	Profile Description: (Describe to the	depth needed to document the indicator or conf	irm the absence of indicat	ors.)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, L=Polyaciue Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, L=Polyaciue Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, L=Polyaciue Grains. Thype: C=Concentration, D=Depletion, RM=Reduced Matrix, L=Polyaciue Grains. Thype: M=Reduced Matrix, L=Polyaciue Grains. Thick Dark Surface (A1) Loamy Mucky Mineral (F1) (LRR K, L) Thick Dark Surface (A11) Loamy Gleyed Matrix, (F3) Thick Dark Surface (A11) Loamy Gleyed Matrix, (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Redox Parent Material (F21) Type: Matrix, (F6) Dark Surface (F7) Redox Dark Surface (F7) Red	Depth Matrix	Redox Features		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1-ydric Soil Indicators: Histosol (A1)	(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture	Remarks
Hydric Soil Indicators: x Histosol (A1)	0-12 10yr 3/1 100	- <u></u>	muck	saturated
Hydric Soil Indicators: x Histosol (A1)				
Nydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)		·		
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)		·		
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)				
Hydric Soil Indicators: x Histosol (A1)				
x Histosol (A1)	Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL	.=Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) High Chroma Sands (S11) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR R, L) Thin Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: till Depth (inches): 12 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Hydric Soil Indicators:		Indicators for Problem	natic Hydric Soils ³ :
Black Histic (A3)	x Histosol (A1)		2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Plandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: till Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version		,		
Stratified Layers (A5)				
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Planticators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: till Depth (inches): 12 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version				
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (F7) Dark Surface (F7) Stripped Matrix (S6) Dark Surface (S7) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: till Depth (inches): 12 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version				
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21) Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: till Depth (inches): 12 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version				
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) Bindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: till Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)				
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: till Depth (inches): 12 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version				
Stripped Matrix (S6)				` '
Dark Surface (S7) Restrictive Layer (if observed): Type: till Depth (inches): 12 Hydric Soil Present? Yes X No Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version				
Plndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: till Depth (inches): 12		Mari (F10) (LRR K, L)	Other (Explain in H	emarks)
Restrictive Layer (if observed): Type: till Depth (inches): 12	Dark Surface (57)			
Restrictive Layer (if observed): Type: till Depth (inches): 12	Indicators of hydrophytic vegetation ar	nd wetland hydrology must be present, unless disturb	ed or problematic.	
Depth (inches): 12 Hydric Soil Present? Yes X No		, , ,	•	
Remarks: Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Type: till			
Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	Depth (inches): 12		Hydric Soil Present?	Yes X No
Data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version	 Remarks:			
7.0 March 2013 Errata. (http://soils.usda.gov/use/hydric)		and Northeast Regional Supplement Version 2.0 to r	eflect the NRCS Field Indica	ators of Hydric Soils version
				,,

Project/Site: Mountain Tract	City/County: Dover	Sampling Date: 9/19/14
Applicant/Owner: Hermitage/Haystack	· · · · · · · · · · · · · · · · · · ·	State: VT Sampling Point: 1
Investigator(s): DB	Section, Township, Range:	
Landform (hillside, terrace, etc.): terrace	Local relief (concave, convex, none	e): none Slope (%): 2
	at: 42.928226 Long: -72.89	
Soil Map Unit Name: Mundal		NWI classification: 2
Are climatic / hydrologic conditions on the site typica	I for this time of year? Yes x No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		umstances" present? Yes x No
Are Vegetation , Soil , or Hydrology		in any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site r		
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area	
Hydric Soil Present? Yes x		Yes X No
Wetland Hydrology Present? Yes x	- 	
Remarks: (Explain alternative procedures here or in Seep	a separate report.)	
HYDROLOGY		
Wetland Hydrology Indicators:		econdary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che		Surface Soil Cracks (B6)
x Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
x High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
x Saturation (A3)	Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes x No	Depth (inches): 2	
Water Table Present? Yes x No		
Saturation Present? Yes x No		ology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if availab	ole:
NA		
Remarks:		
h		
1		