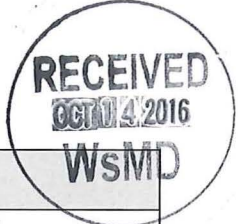


Vermont Wetlands Program
General Permit Qualification Form
 Under Sections 9
 of the Vermont Wetland Rules



VERMONT DEPARTMENT OF
 ENVIRONMENTAL CONSERVATION
WATERSHED
 MANAGEMENT DIVISION
 WETLANDS PROGRAM



1. General Permit Eligibility Checklist:
If you cannot verify all of the following, stop and proceed to the Individual Permit Application.

- The activity does not qualify as an Allowed Use under [Section 6](#) of the Vermont Wetland Rules.
- The activity does not need additional conditions to protect functions and values.
- All impacts have been avoided and minimized to the greatest extent possible.
- The wetland complex is not significant for Function 5.5 Exemplary Wetland Natural Community or 5.6 Rare, Threatened and Endangered Species Habitat, or applicant has received a waiver letter from VT Fish and Wildlife. (attach waiver)
- The activity is not located in or adjacent to a [vernal pool, fen, or bog](#).
- The wetland is not at or above 2,500' in elevation (headwaters wetland).
- The project is not located in a Class I wetland or associated buffer zone.
- The activity is not an as-built project that constitutes a violation of the Vermont Wetland Rules.
- The activity is not associated with an activity which received a Wetland Permit.

2. Project Type (as described in the General Permit)

Non-Linear Project

3. Wetland Type Proposed for Impact

Managed Area _ Managed Area

4. 50ft Wetland Buffer Proposed for Impact

Managed Area Managed Area

5. Activity Threshold based on the selections above, select the appropriate threshold. *If the activity is greater than the thresholds below, stop and proceed to the Individual Permit Application.* eg: Project type is non-linear, wetland and buffer type is managed and natural, and total impacts are 700 sqft → choose option (d) below.

- (a) The total activity impacts proposed are <3,000 square feet of managed wetland or buffer **and** will not exceed 999 square feet of natural wetland or buffer **and** will not exceed 149 square feet of surface water margins.
- (b) The activity is associated with a linear project **and** total activity impacts proposed are <5,000 square feet of managed wetland or buffer **and** will not exceed 2,999 square feet of natural wetland or buffer **and** will not exceed 149 square feet of surface water margins.

6. Section 8B Specific Activity Best Management Practices *All permittees covered under the VT Wetland General Permit must implement best management practices (BMP) under section V. of the permit. Here, identify if the proposed activity must implement special BMPs in accordance with Section 8B*

- 8B(a) Placement, relocation, removal, or upgrade of overhead utility lines
- 8B(b) Installation of underground facilities including utilities, dry hydrants, foundation drains, and wells
- 8B(c) Activities in surface water body margins
- None Apply

The Secretary may require a person applying for an authorization under a general permit to apply for an individual permit. VWR §9.8. Contact your District Ecologist to verify eligibility before submittal.

Vermont Wetlands Program Permit Application Database Form

Under Sections 8 and 9
of the Vermont Wetland Rules



Application Submittal Instructions

- If submitting via US post, include a check in the correct fee amount made payable to the "State of Vermont," and a CD for applications that contain large files (1 MB or greater).
Mail to: Vermont Wetlands Program
 Watershed Management Division
 One National Life Drive, Main 2
 Montpelier, VT 05620-3522
- Applications can also be submitted via email to the following address: anr.wsmdwetlands@vermont.gov
 - If submitting via email, please mail a check in the correct fee amount, made payable to the "State of Vermont," and a copy of the Vermont Wetlands Program Application Database Form (this page) to the address provided above. **It is not necessary to mail in a copy of the complete application.**

Applicant Name: John Paul Golino		Application Preparer Name: Patricia Greene-Swift	
Town where project is located: Wilmington		County: Windham	
Span#:		Vermont Wetlands Project (VWP)# if Known: 2016-311	
Project Location Description: Higley Hill Road, parcel at the very end of Cliff's Hollow Drive <i>911 street address or direction from nearest intersection</i>			
Brief Project Summary: To construct an upgrade to an existing driveway in the location of the current driveway's footprint. This driveway was formerly used as an access drive for agricultural.			
Application Type: <input type="checkbox"/> Individual Permit (multiple wetlands) <input type="checkbox"/> After the Fact Permit <input type="checkbox"/> Wetland Determination <input type="checkbox"/> Individual Permit (single wetland) <input checked="" type="checkbox"/> General Permit Coverage Authorization <input type="checkbox"/> Permit Amendment: WVP Project # _____			
Existing Land Use Type(s): <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Residential (single family) <input type="checkbox"/> Residential (subdivision) <input checked="" type="checkbox"/> Undeveloped <input checked="" type="checkbox"/> Agriculture <input type="checkbox"/> Transportation <input type="checkbox"/> Forestry <input type="checkbox"/> Parks/Rec/Trail <input type="checkbox"/> Institutional <input type="checkbox"/> Industrial/Commercial			
Proposed Land Use Type(s): <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Residential (single family) <input type="checkbox"/> Residential (subdivision) <input checked="" type="checkbox"/> Undeveloped <input type="checkbox"/> Agriculture <input type="checkbox"/> Transportation <input type="checkbox"/> Forestry <input type="checkbox"/> Parks/Rec/Trail <input type="checkbox"/> Institutional <input type="checkbox"/> Industrial/Commercial			
Proposed Impact Type(s): <i>(Check all that apply)</i> <input type="checkbox"/> Buildings <input type="checkbox"/> Utilities <input type="checkbox"/> Parking <input type="checkbox"/> Septic/Well <input type="checkbox"/> Stormwater <input checked="" type="checkbox"/> Driveway <input type="checkbox"/> Park/Path <input type="checkbox"/> Agriculture <input type="checkbox"/> Pond <input type="checkbox"/> Lawn <input type="checkbox"/> Dry Hydrant <input type="checkbox"/> Beaver Dam Alteration <input type="checkbox"/> Silviculture <input type="checkbox"/> Road <input type="checkbox"/> Aesthetics <input type="checkbox"/> No Impact <input type="checkbox"/> Other: _____			
Wetland and Buffer Impact Type: <i>(Check all that apply)</i> <input type="checkbox"/> Dredge <input type="checkbox"/> Drain <input type="checkbox"/> Cut Vegetation <input type="checkbox"/> Stormwater <input checked="" type="checkbox"/> Trench/Fill <input type="checkbox"/> Other: _____			
Wetland Delineation Date(s): 2 June 2016			

Wetland Improvements	Buffer Zone Improvements	Reason for Improvements
Restoration: s.f.	Restoration: s.f.	<input type="checkbox"/> Correction of Violation
Creation: s.f.	Creation: s.f.	<input type="checkbox"/> To offset permit impacts
Enhancement: s.f.	Enhancement: s.f.	<input type="checkbox"/> Voluntary
Conservation: s.f.	Conservation: s.f.	

Wetland Impact Fee Calculations: <i>Round to the nearest square foot. Fees will auto-calculate.</i>			
Total Wetland Impact (minus linear clear, including ATF)	410 square feet (s.f.)	Wetland Impact Fee: (\$0.75/sf)	\$ 307.50
Total Wetland Clearing (qualified linear projects only)	0 square feet (s.f.)	Wetland Clearing Fee: (\$0.25/sf)	\$ 0.00
After The Fact Wetland Impact (to correct a violation)	square feet (s.f.)	After the Fact Wetland Fee: (0.75/sf) <i>(Required for after the fact permit applications)</i>	\$ 0.00

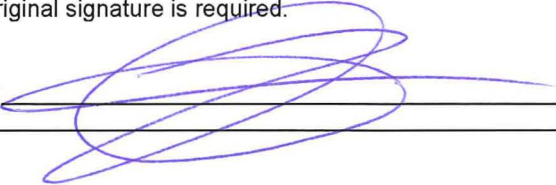
Total Buffer Zone Impacts and Calculations: <i>Round to the nearest square foot</i>			
Total Buffer Zone Impact	853 square feet (s.f.)	Buffer Impact Fee: (\$0.25/sf)	\$ 213.25

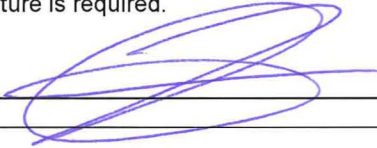
Additional Fees			
	Agricultural Crop Conversion <i>Check here:</i> <input type="checkbox"/>		\$ 0.00 <i>(Flat fee of \$200.00)</i>
	Minimum Application Fee: (\$50.00) <i>Required when total impact fee is less than \$50.00</i>		\$ 0.00
	Administrative Fee:		\$ 240.00

Make Checks Payable to: State of Vermont	Total Check Amount:	\$ 760.75
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**Application for Authorization Under
the Vermont General Wetland Permit
and Determination Petition**
Under Sections 8 and 9
of the Vermont Wetland Rules



Applicant Information: <i>If the applicant is someone other than the landowner, the landowner information must be included below</i>			
Applicant Name: John Paul Golino			
Address: 156 Stockingmill Road	City/Town: Wethersfield	State: CT	Zip: 06109
Phone Number: 860-882-8812	Email Address: jpnolimit@gmail.com		
Applicant Certification: By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Applicant Signature: 			Date: 8-3-16

Landowner Information: <i>Landowner must sign the application. If landowner is different from the applicant this section must be filled out</i>			
<input checked="" type="checkbox"/> Check this box if landowner is the same as the applicant			
Landowner Name: John Paul Golino			
Address: 156 Stockingmill Road	City/Town: Wethersfield	State: CT	Zip: 06109
Phone Number: 860-882-8812	Email Address: jpnolimit@gmail.com		
Landowner Easement: <i>Attach copies of any easements, agreements, or other documents conveying permission, and agreement with the landowner stating who will be responsible for meeting the terms and conditions of the permit. List the attachment for this information in this section. Describe the nature of the agreement or easement in the space provided below:</i>			
Landowner Certification: By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Landowner Signature: 			Date: 8-3-16

Application Preparer Information: <i>Consultant, engineer, or other representative that is responsible for filling out the application, if other than the applicant or landowner.</i>			
Application Preparer Name: Patricia Greene-Swift			
Address: 1 Conti Circle	City/Town: Barre	State: VT	Zip: 05641
Phone Number: 802-479-7480	Email Address: gbenvironmental@earthlink.net		
Application Preparer Certification: By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Application Preparer Signature: Patricia E. Greene-Swift		Digitally signed by Patricia E. Greene-Swift Date: 2016.08.01 10:18:43 -05'00' Date: _____	

Handwritten signatures are also accepted.

1. Location of wetland and project: (Individual Permit Application [IPA] Section 1)
 Location description should include the road the wetland is located on, the compass direction of the wetland in relation to the road, 911 street address if available, and any other distinguishing features.

From Wilmington, travel Higley Hill Road to Cliffs Hollow Road, drive to the end of Cliffs Hollow Road past the last driveway, where there is a camp with no E11 address., and the wetland will be directly to the south.

2. Program Contact: (IPA Section 2)
 Indicate here if you have been in contact with the Wetlands Program before the application submittal.

2.1 Date of Interaction with State Wetland Ecologist	2.2. State Wetland Ecologist Name
June 23rd, 2016	Rebecca Chalmers

3. Wetland Classification: (IPA Section 3)

3.1. The wetland is a class II wetland because: (IPA Section 3.1)

The wetland is mapped on the VSWI

3.2. Section 4.6 Presumption (IPA Section 3.2)
 If the wetland meets the Section 4.6 Presumption, it does so because:

- a. Wetland is of the same type and threshold size as those mapped on VSWI maps; or greater than 0.5 acres.
- c. The wetland contains dense, persistent, non-woody vegetation and is adjacent to a stream, river, or open body of water.
- b. The wetland contains woody vegetation and is adjacent to a stream, river, or open body of water.

4. Description of Entire Wetland: (IPA Section 4)
 Answer the following questions regarding the entire wetland, which includes all wetland areas connected to the wetland area proposed for impact. Answers may be estimates based on desktop review when wetland extends past the investigation area (parcel boundary). Specific questions about the wetland in the project area will follow.

4.1. Size of Complex in Acres: (IPA Section 4.1)
 The size of the complex can be obtained from the Wetland Inventory Map for mapped wetlands, or best estimation based on review of aerial photography or site visit. This is not the size of the of the delineated wetland on the subject property unless the entirety of the wetland is represented in the delineation.

44 Acre wetland complex

4.2. Vegetation Cover Types Present: (IPA Section 4.2)
 List all wetland types in the entire wetland and their percent cover.
For example: 50 acres of softwood forested swamp; or 30% scrub swamp, 70% emergent wetland

Emergent wetland 65%, Shrub swamp 20%, Forested swamp 15%

4.3. Pre-project Cumulative Impacts to the Wetland: (IPA Section 4.7)
 Identify any cumulative ongoing impacts outside of the proposed project that may influence the wetland.
Examples include but are not limited to: Wetland encroachments on and off the subject property, land use management in or surrounding the wetland, or development that influences hydrology or water quality. List any past Vermont Wetland Permits or CUD's related to this property.

Agricultural use in the wetland and buffer, primarily pasturing animals and haying.

5. Context of Subject Wetland: (IPA Section 5.1)
 Describe where the subject wetland is in the context of the larger wetland or wetland complex described above.
For example: Upslope/downslope, narrow eastern "finger", 400 ft. from open water portion.

The subject wetland is at the northeast edge of the wetland complex, where it intergrades between wetland and upland.

6. Subject Wetland Vegetation: (IPA Section 5.3)
 List dominant wetland vegetation cover type and associated dominant plant species. For example: emergent marsh with cattails; forested swamp dominated by red maple and yellow birch; shrub swamp dominated by speckled alder and peat moss; wet meadow dominated by reed canary grass.

In the subject wetland, Abies balsamea was dominant in the forested portion of the wetland, and the emergent portion of the wetland was dominated by Sphagnum girghensonii, Sphagnum angustifolium, Dryopteris intermedia, Acer Rubrum, Osmundastrum cinnamomea, Picea rubens, and Cinna latifolia.

7. Buffer Zone: (IPA Section 5.6)
 Describe the buffer zone of the subject wetland

7.1 Buffer Land Use: (IP Section 5.6.1)
For example: Mowed shoulder, forested, old field, paved road, and residential lawns, etc.
 Describe any previous and ongoing disturbance in the buffer zone.

Cliff's Hollow Drive (dirt road), Old field, dirt access road from logging.

8. Wetland Function Summary: (IPA Section 6)
 Check which functions are present in the wetland complex

<input checked="" type="checkbox"/> Flood/Storm Storage	<input type="checkbox"/> RTE Species
<input checked="" type="checkbox"/> Surface & Groundwater Protection	<input type="checkbox"/> Education & Research
<input checked="" type="checkbox"/> Fish Habitat	<input type="checkbox"/> Recreation/Economic
<input checked="" type="checkbox"/> Wildlife Habitat	<input type="checkbox"/> Open Space/Aesthetics
<input type="checkbox"/> Exemplary Natural Community	<input checked="" type="checkbox"/> Erosion Control

9. Overall Project Description: (IPA Section 17)

9.1. Overall Project Purpose: (IPA Section 17.1)
 Description of the basic project.
For example: six-lot residential subdivision; expansion of an existing commercial building, building a single family residence.

To construct a year-round driveway on the footprint of the current dirt access road, and construct a single family home and necessary infrastructure outside the wetland and its buffer.

10. Project Details: (IPA Section 18)
 Provide details regarding specific impacts to the wetland and buffer zone.

10.1. Specific Impacts to Wetland and Buffer Zone Dimensions: (IPA Section 18.1)
 List portions of the project that will specifically impact the wetland or buffer zone and their dimensions.
For example: driveway crossing with 16' wide fill, installation of buried sewer force main with 5' trench including fill footprint.

The proposed driveway will be 12 feet wide x 34 feet long through the wetland, following the current footprint of the logging/access road, requiring 410 square feet of impact to the subject wetland.

10.2. Bridges and Culverts: (IPA Section 18.2)
 Culvert circumference, length, placement and shapes, or bridge details. List any stream alteration permits that are required or obtained where perennial streams or rivers are involved.

There are no bridges or culverts to be placed in the wetland or wetland buffer. A single culvert is planned for an area outside the wetland and its buffer, in the location where drainage ditching along the old logging road facilitates water movement to its lowest point.

11. Wetland and Buffer Zone Impacts: (IPA Section 19)

11.1. Wetland Impacts: (IPA Section 19.1)

Summarize the square footage of impact in the appropriate category. Round to nearest square foot

Permanent Wetland Fill	410	s.f.
Temporary Wetland Impact		s.f.
Other Permanent Wetland Impact <i>(this number includes clearing of woody vegetation, dredging, and does not include fill)</i>		s.f.
Total Wetland Impact:	410	s.f.

Describe in detail the proposed impact to wetlands

For example: Fill for road crossing, temporary impacts for trench and fill related to utility installation.

Fill for the construction of the driveway, that will stabilize the road bed for vehicles traveling to and from the proposed residence. (Currently rutting occurs where the old access road is located.)

11.2. Buffer Zone Impacts: (IPA Section 19.2)

Summarize the square footage of impact in the appropriate category.

Temporary Buffer Impact		s.f.
Permanent Buffer Impact	853	s.f.
Total Buffer Impact:	853	s.f.

Describe in detail the proposed impact to buffer zones

For example: Addition of fill along roadway embankment extending into buffer zone.

Addition of fill for the construction of the driveway where it is planned to cross the wetland buffer, immediately adjacent to the wetland crossing.

11.3. Cumulative Impacts: (IPA Section 19.3)

List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland.

For example: Increased noise from parking lot, vegetation management, inputs from stormwater pond outlet, reduction in flood storage volume from the addition of fill from the project.

There are no expected impacts to the protected wetland functions, which include, flood and stormwater storage, surface and groundwater protection, fish habitat, wildlife habitat, and erosion control. This is due in large part to construction of the driveway being planned in the already disturbed area of the logging/access driveway, which has a footprint that tracks upslope and out of the wetland in the immediate vicinity of the wetland and its buffer.

<p>12. Mitigation Sequence: (IPA Section 20) <i>Please refer to Section 9.5b of the rules on Mitigation Sequencing for this section.</i></p>	
<p>12.1. Avoidance of Wetland Impacts: (IPA Section 20.1)</p>	
<p>12.1.1. Can the activity be located on another site owned or controlled by the applicant, or reasonably available to satisfy the basic project purpose? If not, indicate why. Cite any alternative sites and explain why they were not chosen.</p>	<input type="checkbox"/>
<p>The applicant does not own or control another property for his family to construct a home in Vermont.</p>	
<p>12.1.2. Can the proposed activity be practicably located outside the wetland/buffer zone? If not, indicate why. Explain the alternatives you have explored for avoiding the wetland and buffer onsite, And why they are not feasible.</p>	<input type="checkbox"/>
<p>The area where the wetland and buffer crossing are proposed to be located, is the area where the planned crossing will have the least impact to the wetland and its buffer. This is largely due to the odd shape of the lot (lot #4).</p>	
<p>12.2. Avoidance to the Impact to Functions and Values: (IPA Section 20.2)</p>	
<p>12.2.1. If the proposed activity cannot be practicably located outside the wetland/buffer zone, have all practicable measures been taken to avoid adverse impacts on protected functions?</p>	<input type="checkbox"/>
<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>12.2.2. What design alternatives were examined to avoid impacts to wetland function? For example: Use of matting, relocation of footprint, etc.</p>	<input type="checkbox"/>
<p>The footprint of the driveway had two potential locations, one logging/access drive veered into the wetland and joined the primary access road above the wetland, the second logging/access drive crossed the wetland and its buffer going upslope and crossed them in a much shorter distance. Therefore the second logging/access drive was chosen - which has less overall environmental impacts.</p>	
<p>12.2.3. What steps have been taken to minimize the size and scope of the project to avoid impacts to wetland functions and values? Include information on project size reduction and relocation.</p>	<input type="checkbox"/>
<p>The footprint of the logging/access drive which crosses the wetland and its buffer going upslope, and does so in the shortest distance possible was chosen. Also, the driveway is planned to be constructed 12 feet wide, instead of a wider choice of 16 feet wide.</p>	
<p>12.2.4. Explain how the proposed project represents the least impact alternative design. Explain why other alternatives, which you described above, were not chosen.</p>	<input type="checkbox"/>
<p>Constructing the new driveway in the footprint of the upper access drive, will have fewer square footage of wetland and buffer impacts and avoid the floodplain. Constructing the new driveway in the footprint of the lower logging/access drive would have meant more square footage of impacts to the wetland and wetland buffer, and the low area has the potential to flood in a 500 year flood event. Given that this alternative was not a reasonable choice, the decision was made to design a crossing through the wetland and its buffer in the shortest distance possible utilizing the upper access drive.</p>	

13. Wetland Determination: (IP Section 21)

If the application involves a wetland determination please answer the following.

- Wetland is mapped or contiguous to the Vermont Significant Wetland Inventory Map
- Wetland is not mapped on or contiguous to the Vermont Significant Wetland Inventory Map

13.1. Reason for Petition: (IP Section 21.1)

Please choose one from the dropdown menu.

13.3. Determination Narrative: (IP Section 21.2)

Please provide any narrative to support the petition for a wetland determination here, including previous decisions by the Secretary or Water Board. Determinations are made based on an evaluation of the functions and values present. Here add narrative description on the functions listed in section 8 of this application and described in section 5 of the Vermont Wetland Rules. **For example:** Wetland provides water storage and surface water protection because it is large in size, concave, and naturally vegetated.

14. Supporting Materials: (IP Section 22)

****ADDITIONAL MATERIALS REQUIRED TO CALL APPLICATION COMPLETE**

14.1. **Location Map: (IP Section 22.1)

Provide a location map that is 8 1/2" x 11" and separate from any site plans. The Vermont Natural Resources Atlas is appropriate using USGS topography map base layer, roads, and VSWI wetlands.

Date	Title

14.2. **Site Plan(s): (IP Section 22.2)

Please list by date, date of last revision, author, and title. Plans must include wetland delineation and buffer zones, limits of disturbance, erosion controls, building envelopes, and any permanent memorialization.

Title	Author	Date	Last Revision Date

14.3. Other Supporting Documents: (IP Section 22.5)

Provide any other documentation that supports the application. **Examples include but are not limited to:** Photographs, easements, agreements, restoration/plan, GIS shapefiles, additional ACOE forms.

Date	Last Revision	Author	Title

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Higley Hill Road/Cliffs Hollow City/County: Wilmington Sampling Date: 2 June 2016
 Applicant/Owner: John Paul Golino State: VT Sampling Point: Upland A
 Investigator(s): Patricia Greene-Swift Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Terrace on hillslope Local relief (concave, convex, none): None Slope (%): 3%
 Subregion (LRR or MLRA): LRR R Lat: 42.89508 Long: -72.81105 Datum: DD
 Soil Map Unit Name: Markey Muck NWI classification: Hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes Yes No _____ (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes Yes No _____
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>No</u> Hydric Soil Present? Yes _____ No <u>No</u> Wetland Hydrology Present? Yes _____ No <u>No</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>No</u> If yes, optional Wetland Site ID: <u>Upland near flag number 6</u>
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>No</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>No</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>No</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>No</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 	
Remarks: Upland had no evidence of wetland hydrology.	

VEGETATION – Use scientific names of plants.

Sampling Point: Upland A

<u>Tree Stratum</u> (Plot size: <u>30' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Picea rubens</u>	<u>35%</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>30%</u> (A/B)
2. <u>Acer rubrum</u>	<u>10%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Betula papyrifera</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>	
4. <u>Abies balsamea</u>	<u>10%</u>		<u>FAC</u>	
5. <u>Prunus serotina</u>	<u>5%</u>		<u>FACU</u>	
6. _____				
7. _____				
<u>70%</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>70%</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15' Radius</u>)				
1. <u>Picea rubens</u>	<u>5%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Abies balsamea</u>	<u>5%</u>	<u>Yes</u>	<u>FAC</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>10%</u> = Total Cover				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
<u>10%</u> = Total Cover				
Herb Stratum (Plot size: <u>5' Radius</u>)				
1. <u>Dannstaedtia punctilobula</u>	<u>15%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Pteridium aquilinum</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Thelypteris noveboracensis</u>	<u>10%</u>	<u>Yes</u>	<u>FAC</u>	
4. <u>Poa sp.</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>	
5. <u>Rubus ideaus</u>	<u>5%</u>	<u>Yes</u>	<u>FACU</u>	
6. <u>Rubus allegheniensis</u>	<u>5%</u>		<u>FACU</u>	
7. <u>Solidago rugosa</u>	<u>5%</u>		<u>FAC</u>	
8. <u>Chamaepericlymenum canadense</u>	<u>2%</u>		<u>FACU</u>	
9. <u>Brachyelytrum aristosum</u>	<u>2%</u>		<u>FACU</u>	
10. <u>Osmunda claytonia</u>	<u>2%</u>		<u>FAC</u>	
11. <u>Maianthemum canadense</u>	<u>1%</u>		<u>FAC</u>	
12. _____				
<u>67%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>15' Radius</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
<u>0%</u> = Total Cover				
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. 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.				
Hydrophytic Vegetation Present? Yes _____ No <u>No</u>				
Remarks: (Include photo numbers here or on a separate sheet.) Areas of the wetland and upland show evidence of logging many years ago, and a number of old logging roads are evident throughout the property.				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Higley Hill Road/Cliffs Hollow City/County: Wilmington Sampling Date: 2 June 2016
 Applicant/Owner: John Paul Golino State: VT Sampling Point: Wetland A
 Investigator(s): Patricia Greene-Swift Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Wetland basin Local relief (concave, convex, none): None Slope (%): 0%
 Subregion (LRR or MLRA): LRR R Lat: 42.89508 Long: -72.81105 Datum: DD
 Soil Map Unit Name: Markey Muck NWI classification: Hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes Yes No _____ (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes Yes No _____
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>Yes</u> No _____ Hydric Soil Present? Yes <u>Yes</u> No _____ Wetland Hydrology Present? Yes <u>Yes</u> No _____	Is the Sampled Area within a Wetland? Yes <u>Yes</u> No _____ If yes, optional Wetland Site ID: <u>Upland on slope below flag #6</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) <input checked="" type="checkbox"/> Iron Deposits (B5) _____ Thin Muck Surface (C7) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) _____ Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>Yes</u> No _____ Depth (inches): <u>4"</u> Water Table Present? Yes <u>Yes</u> No _____ Depth (inches): <u>2"</u> Saturation Present? Yes <u>Yes</u> No _____ Depth (inches): <u>To surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>Yes</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Many indicators of wetland hydrology were evident for this wetland, the wetland is large and many indicators were included in the checklist above.	

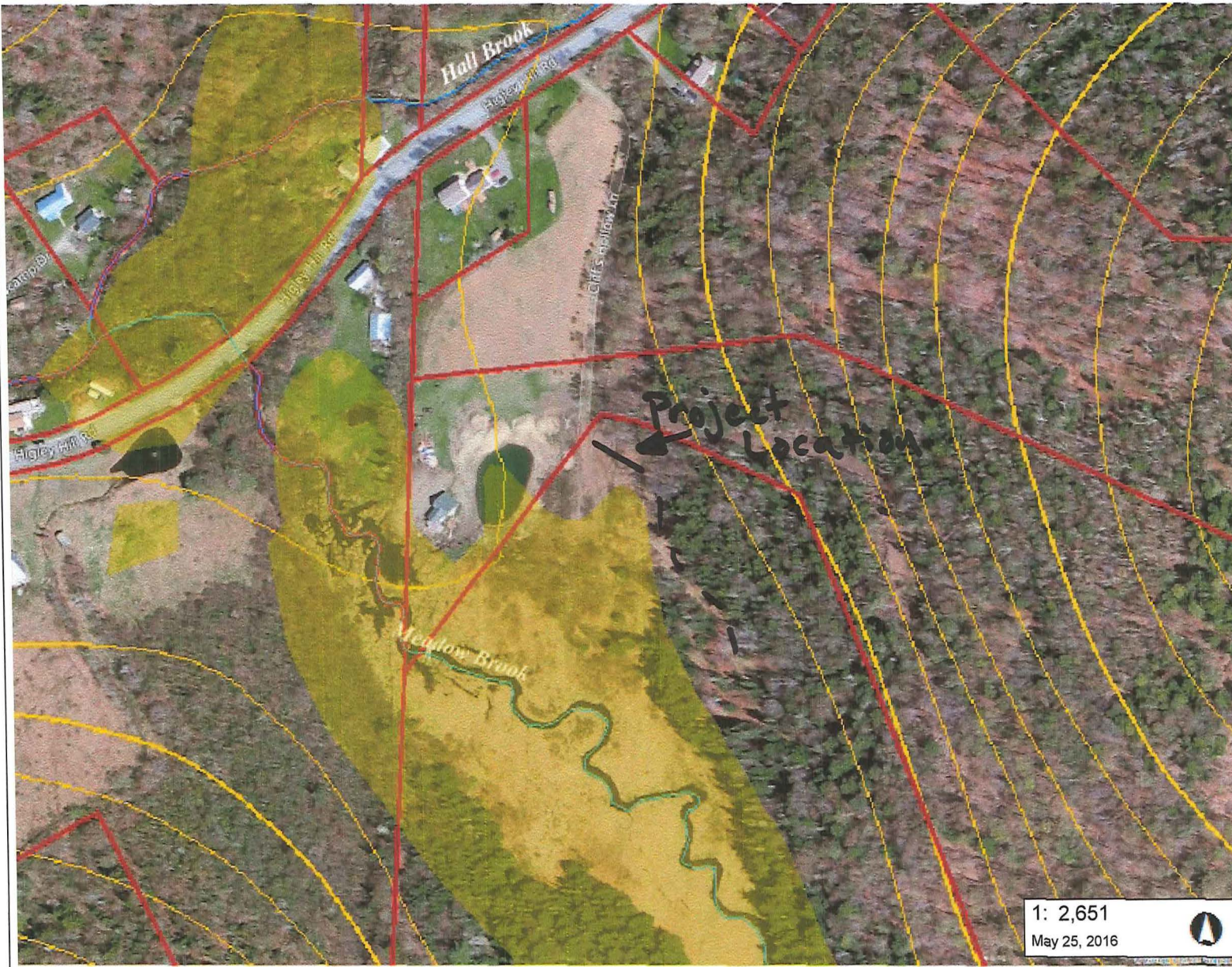
VEGETATION – Use scientific names of plants.

Sampling Point: Wetland A

<u>Tree Stratum</u> (Plot size: <u>30' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Abies balsamea</u>	<u>60%</u>	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)	
2. <u>Picea rubens</u>	<u>3%</u>		FAC		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
<u>63%</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Picea rubens</u>	<u>3%</u>	Yes	FACU		Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Abies balsamea</u>	<u>3%</u>	Yes	FAC		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
<u>6%</u> = Total Cover				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. 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.	
<u>Herb Stratum</u> (Plot size: <u>5' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Sphagnum girgensohnii</u>	<u>50%</u>	Yes	OBL		Hydrophytic Vegetation Present? Yes <u>Yes</u> No _____
2. <u>Sphagnum angustifolium</u>	<u>25%</u>		OBL		
3. <u>Osmunda cinnamomea</u>	<u>5%</u>		FACW		
4. <u>Osmunda regalis</u>	<u>5%</u>		OBL		
5. <u>Dryopteris intermedia</u>	<u>5%</u>		FAC		
6. <u>Cinna latifolia</u>	<u>3%</u>		FACW		
7. <u>Rubus pubescens</u>	<u>1%</u>		FACW		
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
<u>94%</u> = Total Cover					
<u>Woody Vine Stratum</u> (Plot size: <u>15' Radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____				Hydrophytic Vegetation Present? Yes <u>Yes</u> No _____	
2. _____					
3. _____					
4. _____					
<u>0%</u> = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)

Areas of the wetland and upland show evidence of logging many years ago, and a number of old logging roads are evident throughout the property.



LEGEND

- Vernal Pools Confirmed – AEA
- Vernal Pools Unconfirmed – AI
- Wetland Projects
- Wetlands - VSWI
 - Class 1 Wetland
 - Class 2 Wetland
- Wetlands Advisory Layer
- Soils - Hydric
- Hiking Trail
- Rare Threatened Endangered
 - Threatened or Endangered
 - Rare
- Significant Natural Community
 - Animal
 - Plant
 - Natural Community
- Stream
- Parcels (where available)
- Town Boundary

1: 2,651
May 25, 2016



WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 221 Ft. 1cm = 27 Meters
 © Vermont Agency of Natural Resources THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

NOTES

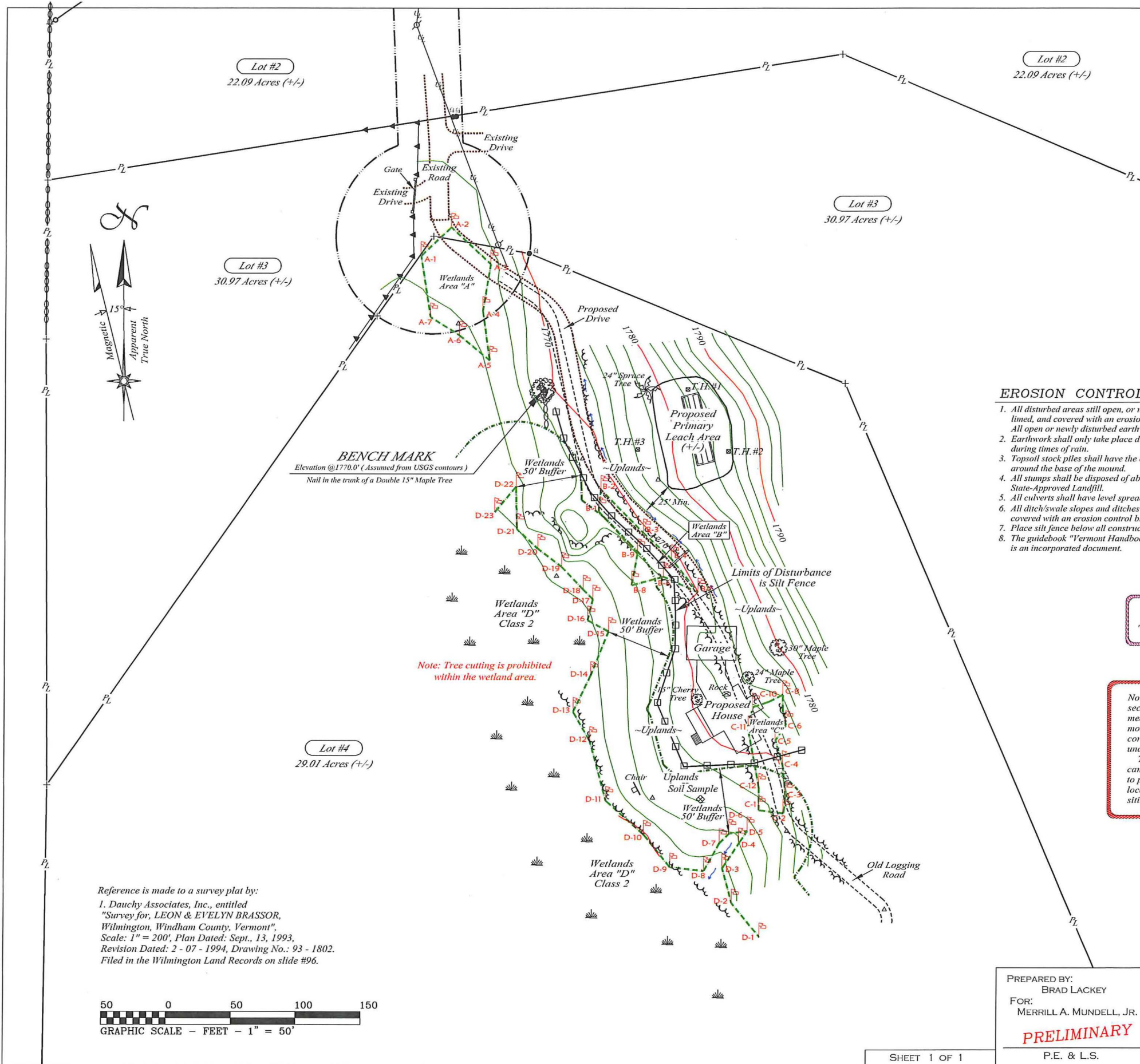
Map created using ANR's Natural Resources Atlas by PEGS

WETLAND



UPLAND





LEGEND

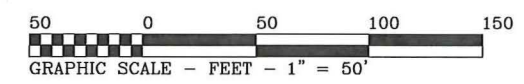
+	Point of Intersection
○	Iron pipe corner found
△	Traverse reference point
●	Rebar pin corner found
⊙	Iron pin corner found
⊕	Utility pole
—	Utility lines
—	Highway Right-Of-Way line (+/-)
—	Property line (+/-)
—	Easement line (+/-)
—	Edge of gravel drive or road
—	Edge of old logging road
—	Split Rail Fence
—	Stonewall
—	Runoff Ditch
—	Proposed Silt Fence
—	Edge of Woods (+/-)
—	Flagged Wetlands Line
—	Wetlands 50 ft. Buffer Line
—	10 ft. Contour line
—	2 ft. Contour line
⊙	Soil Test Hole
⊙	Percolation Test Hole
—	Well Shield Isolation line
—	Leach Area Isolation line
—	Proposed Water line

- EROSION CONTROL MEASURES:**
- All disturbed areas still open, or newly disturbed after October 1st shall be seeded, fertilized, limed, and covered with an erosion control blanket (Geotextile fabric, jute matting, or straw/hay). All open or newly disturbed earthwork shall be mulched at the end of each day.
 - Earthwork shall only take place during suitable conditions; i.e. there shall be NO earthwork during times of rain.
 - Topsoil stock piles shall have the exposed soil completely mulched and shall have siltation checks around the base of the mound.
 - All stumps shall be disposed of above the seasonal high water table on site, or at a State-Approved Landfill.
 - All culverts shall have level spreaders at outlet end and concrete or stone headers at both ends.
 - All ditch/swale slopes and ditches less than 6% shall be seeded, fertilized, limed, and covered with an erosion control blanket (Geotextile fabric, jute matting, or straw/hay).
 - Place silt fence below all construction areas before any earth disturbance and remove after one year.
 - The guidebook "Vermont Handbook for Soil Erosion and Sediment Control on Construction Sites" is an incorporated document.

handheld GPS Coordinate Readings - NAD 83
 "center" of Entire Parcel N42° 53' 34.4" W72° 48' 36.7"

Note: This is NOT A SURVEY as defined under 26 V.S.A. section 2544. This plan was derived using limited field measurements, topography of some physical features, monumentation found, deeds, and plans. It is subject to corrections and refinement resulting from a survey as defined under the above statute.
 This plan is NOT to be used for conveying of property and can not be filed in the land records. The purpose of this plan is to provide sewage treatment system, water supply, and wetland locations, along with other important features and overall siting in relation to the lot configurations.

Reference is made to a survey plat by:
 1. Dauchy Associates, Inc., entitled "Survey for LEON & EVELYN BRASSOR, Wilmington, Windham County, Vermont". Scale: 1" = 200'. Plan Dated: Sept., 13, 1993. Revision Dated: 2 - 07 - 1994, Drawing No.: 93 - 1802. Filed in the Wilmington Land Records on slide #96.



Overall Plot Plan
 FOR: **JOHN PAUL GOLINO**
 LOTS #4 ON CLIFF'S HOLLOW LANE
 OFF HIGLEY HILL ROAD
 WILMINGTON, VERMONT
 SCALE: 1" = 50'; PLAN DATE: JUNE 14, 2016
 BY: **Merrill A. Mundell, Jr., P.E.**
 P.O. Box 866/20 Gallip Pitch Road
 Wilmington, Vermont 05363-0866
 Tele. 802/464-2042 ~ email: mundsam@sover.net

PREPARED BY:
 BRAD LACKEY
 FOR:
 MERRILL A. MUNDELL, JR.
PRELIMINARY
 P.E. & L.S.