

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: 3-lot subdivisoin/59 English Hill Road City/County: Underhill/Chittenden Co. Sampling Date: 25 May 2018  
 Applicant/Owner: Peter Bingham State: VT Sampling Point: Upland A  
 Investigator(s): Patricia Greene-Swift Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex - none Slope (%): 2 - 5%  
 Subregion (LRR or MLRA): LRR R Lat: 44.52364 Long: 72.91355 Datum: DD  
 Soil Map Unit Name: Marlow fine sandy loam, 12 to 20 percent slopes NWI classification: Non-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>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>No</u> If yes, optional Wetland Site ID: <u>Wetland A</u>
Remarks: (Explain alternative procedures here or in a separate report.) Failed tile drains are not present in the upland sampled plot.	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <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)	<u>Secondary Indicators (minimum of two required)</u> <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)
<b>Field Observations:</b> 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): _____ <small>(includes capillary fringe)</small>	<b>Wetland Hydrology Present?</b> Yes _____ No <u>No</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

**VEGETATION** – Use scientific names of plants.

Sampling Point: Upland A

Tree Stratum (Plot size: <u>30' Radius</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Sapling/Shrub Stratum (Plot size: <u>15' Radius</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Spiraea alba var. latifolia</u>	<u>4%</u>	<u>Yes</u>	<u>FACW</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

Herb Stratum (Plot size: <u>5' Radius</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Potentilla simplex</u>	<u>20%</u>	<u>Yes</u>	<u>UPL</u>
2. <u>Onoclea sensibilis</u>	<u>20%</u>	<u>Yes</u>	<u>FACW</u>
3. <u>Aster cordifolia</u>	<u>15%</u>	<u>Yes</u>	<u>UPL</u>
4. <u>Dactylis glomerata</u>	<u>10%</u>	_____	<u>UPL</u>
5. <u>Fragaria virginiana</u>	<u>10%</u>	_____	<u>FACU</u>
6. <u>Solidago altissima</u>	<u>10%</u>	_____	<u>FACU</u>
7. <u>Anthoxanthum odoratum</u>	<u>5%</u>	_____	<u>UPL</u>
8. <u>Poa pratensis</u>	<u>5%</u>	_____	<u>FACU</u>
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

Woody Vine Stratum (Plot size: <u>15' Radius</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Clematis virginiana</u>	<u>3%</u>	<u>Yes</u>	<u>FAC</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

\_\_\_\_\_ = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A)

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>24</u>	x 2 = <u>48</u>
FAC species <u>3</u>	x 3 = <u>9</u>
FACU species <u>25</u>	x 4 = <u>100</u>
UPL species <u>55</u>	x 5 = <u>275</u>
Column Totals: <u>107</u> (A)	<u>432</u> (B)

Prevalence Index = B/A = 0.24

- Hydrophytic Vegetation Indicators:**
- \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation
  - \_\_\_ 2 - Dominance Test is >50%
  - X 3 - Prevalence Index is  $\leq 3.0^1$
  - \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>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.

**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.

<b>Hydrophytic Vegetation Present?</b>	Yes _____	No <u>No</u>
--	-----------	--------------

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

Prevalence worksheet was used due to the low numbers in the dominant percent categories of FAC and FACW species under shrub stratum, woody vine stratum, and herb stratum categories.

While a small percent of hydrophytic vegetation was present, the dominant cover type is upland vegetation.

