

Bridge 248
Upland

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: Bridge 248 City/County: Alamance Sampling Date: 3/21/12
 Applicant/Owner: NC DOT State: NC Sampling Point: Upland
 Investigator(s): Pete Stafford Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Creek Terrace Local relief (concave, convex, none): Slope Slope (%): 5%
 Subregion (LRR or MLRA): MLRA 136 Lat: 35.870258 Long: -79.400962 Datum: NAD 83
 Soil Map Unit Name: H6E (Herndon) NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? 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 ☐	Is the Sampled Area within a Wetland? Yes ☐ No ☒
Hydric Soil Present?	Yes ☐ No ☒	
Wetland Hydrology Present?	Yes ☐ No ☒	
Remarks: <u>Upland form. No wetland features on this sampling point.</u>		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ True Aquatic Plants (B14) ☐ High Water Table (A2) ☐ Hydrogen Sulfide Odor (C1) ☐ Saturation (A3) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Water Marks (B1) ☐ Presence of Reduced Iron (C4) ☐ Sediment Deposits (B2) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Drift Deposits (B3) ☐ Thin Muck Surface (C7) ☐ Algal Mat or Crust (B4) ☐ Other (Explain in Remarks) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13)		Secondary Indicators (minimum of two required) ☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☐ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): <u>None</u> Water Table Present? Yes ☐ No ☒ Depth (inches): <u>None</u> Saturation Present? Yes ☐ No ☒ Depth (inches): <u>None</u> (includes capillary fringe)		Wetland Hydrology Present? Yes ☐ No ☒
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: <u>Wetland hydrology not present.</u>		

Bridge 246
Upland

VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: _____

Tree Stratum (Plot size: <u>10 m²</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Tulip Poplar</u>	<u>20</u>	☒	<u>FAC</u>
2. <u>Loblolly Pine</u>	<u>10</u>		<u>FAC</u>
3. <u>Red maple</u>	<u>20</u>	☒	<u>FAC</u>
4. <u>Northern Red Oak</u>	<u>20</u>	☒	<u>FACU</u>
5. _____	_____		
6. _____	_____		
7. _____	_____		
<u>70</u> = Total Cover			
Sapling Stratum (Plot size: <u>N/A</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____		
2. _____	_____		
3. _____	_____		
4. _____	_____		
5. _____	_____		
6. _____	_____		
7. _____	_____		
_____ = Total Cover			
Shrub Stratum (Plot size: <u>N/A</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____		
2. _____	_____		
3. _____	_____		
4. _____	_____		
5. _____	_____		
6. _____	_____		
7. _____	_____		
_____ = Total Cover			
Herb Stratum (Plot size: <u>N/A</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____		
2. _____	_____		
3. _____	_____		
4. _____	_____		
5. _____	_____		
6. _____	_____		
7. _____	_____		
_____ = Total Cover			
Woody Vine Stratum (Plot size: <u>N/A</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____		
2. _____	_____		
3. _____	_____		
4. _____	_____		
5. _____	_____		
_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66% (A/B)

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 = _____

Hydrophytic Vegetation Indicators:

☒ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is >50%

☐ 3 - Prevalence Index is ≤3.0¹

☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Five Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ☒ No _____

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

Hydrophytic vegetation exist at this location

Sampling Point:

[illegible]²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) **(MLRA 147)**
☐ Coast Prairie Redox (A16)
(MLRA 147, 148)
☐ Piedmont Floodplain Soils (F19)
(MLRA 136, 147)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes _____ No ✓

Hydric soils are not present at this location.