

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: Bridge 125 City/County: Alamance Sampling Date: 3/22/12
 Applicant/Owner: NC DOT State: NC Sampling Point: 1p 2
 Investigator(s): Pete Stafford Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Hill slope Local relief (concave, convex, none): Slow rolling hills Slope (%): 10%
 Subregion (LRR or MLRA): MLFA 136 Lat: 35.967691 Long: -79.414588 Datum: NAD 83
 Soil Map Unit Name: VcC 2 Vance Sandy loam 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 for Wetland 1 & 2, No indicators of hydric soil or wetland hydrology exist at this location.</u>			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
☐ Surface Water (A1)	☐ True Aquatic Plants (B14)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Hydrogen Sulfide Odor (C1)	☐ Sparsely Vegetated Concave Surface (B8)	
☐ Saturation (A3)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Drainage Patterns (B10)	
☐ Water Marks (B1)	☐ Presence of Reduced Iron (C4)	☐ Moss Trim Lines (B16)	
☐ Sediment Deposits (B2)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Dry-Season Water Table (C2)	
☐ Drift Deposits (B3)	☐ Thin Muck Surface (C7)	☐ Crayfish Burrows (C8)	
☐ Algal Mat or Crust (B4)	☐ Other (Explain in Remarks)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Iron Deposits (B5)		☐ Stunted or Stressed Plants (D1)	
☐ Inundation Visible on Aerial Imagery (B7)		☐ Geomorphic Position (D2)	
☐ Water-Stained Leaves (B9)		☐ Shallow Aquitard (D3)	
☐ Aquatic Fauna (B13)		☐ 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. No wetland hydrology indicators</u>			

Bridge 125
Upland

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

Sampling Point: _____

Tree Stratum (Plot size: <u>1/18</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____		Total % Cover of: _____ Multiply by: _____
6. _____	_____	_____	_____		OBL species _____ x 1 = _____
7. _____	_____	_____	_____		FACW species _____ x 2 = _____
Sapling Stratum (Plot size: <u>10m²</u>) _____ = Total Cover				FAC species _____ x 3 = _____	
1. <u>Loblolly pine (Pinus taeda)</u>	<u>5</u>	<u>✓</u>	<u>Fac</u>	FACU species _____ x 4 = _____	
2. <u>Sweet gum (Liquidambar styraciflua)</u>	<u>5</u>	<u>✓</u>	<u>Fac</u>	UPL species _____ x 5 = _____	
3. <u>red maple (acer rubrum)</u>	<u>5</u>	<u>✓</u>	<u>Fac</u>	Column Totals: _____ (A) _____ (B)	
4. _____	_____	_____	_____	Prevalence Index = B/A = _____	
5. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
6. _____	_____	_____	_____		1 - Rapid Test for Hydrophytic Vegetation
7. _____	_____	_____	_____		<u>2</u> - Dominance Test is >50%
	_____	_____	_____		3 - Prevalence Index is ≤3.0 ¹
Shrub Stratum (Plot size: <u>N/A</u>) _____ = Total Cover				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1. _____	_____	_____	_____	Problematic Hydrophytic Vegetation ¹ (Explain)	
2. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
3. _____	_____	_____	_____		Definitions of Five Vegetation Strata:
4. _____	_____	_____	_____		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).
5. _____	_____	_____	_____		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
6. _____	_____	_____	_____	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
7. _____	_____	_____	_____	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.	
Herb Stratum (Plot size: <u>N/A</u>) _____ = Total Cover				Woody vine – All woody vines, regardless of height.	
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>✓</u> No _____	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
Woody Vine Stratum (Plot size: <u>N/A</u>) _____ = Total Cover					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover					

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

Sampling point in cut over. Trees have been removed

Sampling Point:

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

Indicators for Problematic Hydric Soils³:

- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (MLRA 147, 148)
- ___ Thin Dark Surface (S9) (MLRA 147, 148)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) (LRR N,
MLRA 136)
- ___ Umbritic Surface (F13) (MLRA 136, 122)
- ___ Piedmont Floodplain Soils (F19) (MLRA 148)

- ☐ 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.

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No ☒

Typical upland soils for this area. Indicators of hydric soils are not present at this location.