

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

wet

Project/Site: Bridge 248 City/County: Alamance Sampling Date: 3/21/12
 Applicant/Owner: NC DOT State: NC Sampling Point: W1
 Investigator(s): Pete Stafford Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): riparian, floodplain Local relief (concave, convex, none): FLAT Slope (%): <1%
 Subregion (LRR or MLRA): MLFA 136 Lat: 35.87025736 Long: -79.40096195 Datum: NAD83
 Soil Map Unit Name: Mc (Mixed alluvial) NWI classification: PG1D

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation YES, 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>Wetland 1 is located on the north side of SR 2354. Hydrology is derived from the road side ditch and overbank flooding which flows into a mowed/maintained flat prior to entering Reedy branch. Festuca sp. and Taraxacum officinale are the only species of plant identifiable due to frequent maintenance. Indicators of hydric soils and wetland hydrology are present 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>	Wetland Hydrology Present? Yes ☒ No ☐
Water Table Present? Yes ☒ No ☐	Depth (inches): <u>1.0</u>	
Saturation Present? Yes ☒ No ☐ (includes capillary fringe)	Depth (inches): <u>SURFACE</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		

Remarks: - Indicators of wetland hydrology are present at this location and meet the criteria for a wetland.
- Hydrology comes from roadside ditch runoff as well as overbank flooding.

Sampling Point: W1

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																					
1.	N/A				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)																					
2.					Total Number of Dominant Species Across All Strata: 2 (B)																					
3.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)																					
4.					Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Prevalence Index = B/A = _____</td> <td colspan="2"></td> </tr> </table>		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 = _____			
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 = _____																								
5.																										
6.																										
7.																										
Sapling Stratum (Plot size: _____)		N/A = Total Cover			Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☒ Problematic Hydrophytic Vegetation ¹ (Explain)																					
1.	N/A																									
2.																										
3.																										
4.					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																					
5.																										
6.																										
7.																										
Shrub Stratum (Plot size: _____)		N/A = Total Cover			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.																					
1.	N/A																									
2.																										
3.																										
4.					Hydrophytic Vegetation Present? Yes _____ No ☒																					
5.																										
6.																										
7.																										
Herb Stratum (Plot size: 2827 ft ²)		N/A = Total Cover																								
1.	Taraxacum officinale	10	/	FACU																						
2.	Festuca rubra	50	/	FACU																						
3.																										
4.																										
5.																										
6.																										
7.																										
Woody Vine Stratum (Plot size: _____)		60 = Total Cover																								
1.	N/A																									
2.																										
3.																										
4.																										
5.																										
6.																										
7.																										
		N/A = Total Cover																								

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

- Identifiable vegetation does not meet wetland criteria, however the location is constantly maintained by mowing.

wet

Sampling Point: W1

[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.

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks: Indicators of hydric soils are present at this location
- Flat located at outfall of roadside ditch.