

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: B050117-SR 1127(Little Henson Creek Rd) over Henson Creek City/County: City: Spear Co.: Avery Sampling Date: 12/19/2016
 Applicant/Owner: North Carolina Department of Transportation State: NC Sampling Point: WA/WB Upl
 Investigator(s): Mason, J. Barrett, B. Section, Township, Range: ---
 Landform (hillslope, terrace, etc.): Yard Edge Local relief (concave, convex, none): None Slope (%): 0-2
 Subregion (LRR or MLRA): N Lat: 36.02926 Long: -82.03477 Datum: NAD83
 Soil Map Unit Name: Dellwood cobbly sandy loam, 1 to 5 percent slopes, occasionally flooded (DeB) NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ 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: Taken next to WA at edge of residential yard.					

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):	
Water Table Present?	Yes ☐ No ☒	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes ☐ No ☒	Depth (inches):	
		Wetland Hydrology Present? Yes ☐ No ☒	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Water table and Saturation >12in.			

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

Sampling Point: WA/WB Upl

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer rubrum</u>	<u>10.0</u>	<u>Y</u>	<u>FAC</u>
2. <u>Ilex opaca</u>	<u>7.5</u>	<u>Y</u>	<u>FACU</u>
3. <u>Juglans nigra</u>	<u>5.0</u>	<u>Y</u>	<u>FACU</u>
4. _____	_____	_____	Select
5. _____	_____	_____	Select
6. _____	_____	_____	Select
<u>22.5</u> = Total Cover			
50% of total cover: <u>11.25</u> 20% of total cover: <u>4.50</u>			
Sapling Stratum (Plot size: _____)			
1. <u>See Shrub Stratum</u>	_____	_____	Select
2. _____	_____	_____	Select
3. _____	_____	_____	Select
4. _____	_____	_____	Select
5. _____	_____	_____	Select
6. _____	_____	_____	Select
<u>0.0</u> = Total Cover			
50% of total cover: <u>0.00</u> 20% of total cover: <u>0.00</u>			
Shrub Stratum (Plot size: <u>30 ft</u>)			
1. <u>Juglans nigra</u>	<u>5.0</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	Select
3. _____	_____	_____	Select
4. _____	_____	_____	Select
5. _____	_____	_____	Select
6. _____	_____	_____	Select
<u>5.0</u> = Total Cover			
50% of total cover: <u>2.50</u> 20% of total cover: <u>1.00</u>			
Herb Stratum (Plot size: <u>30 ft</u>)			
1. <u>Festuca spp.</u>	<u>50.0</u>	<u>Y</u>	<u>UPL</u>
2. <u>Polygonum cuspidatum</u>	<u>20.0</u>	<u>Y</u>	<u>FACU</u>
3. <u>Erigeron sp.</u>	<u>7.5</u>	<u>N</u>	<u>TBD</u>
4. <u>Allium vineale</u>	<u>2.5</u>	<u>N</u>	<u>FACU</u>
5. _____	_____	_____	Select
6. _____	_____	_____	Select
7. _____	_____	_____	Select
8. _____	_____	_____	Select
9. _____	_____	_____	Select
10. _____	_____	_____	Select
11. _____	_____	_____	Select
<u>80.0</u> = Total Cover			
50% of total cover: <u>40.00</u> 20% of total cover: <u>16.00</u>			
Woody Vine Stratum (Plot size: <u>30 ft</u>)			
1. <u>Smilax rotundifolia</u>	<u>5.0</u>	<u>Y</u>	<u>FAC</u>
2. _____	_____	_____	Select
3. _____	_____	_____	Select
4. _____	_____	_____	Select
5. _____	_____	_____	Select
<u>5.0</u> = Total Cover			
50% of total cover: <u>2.50</u> 20% of total cover: <u>1.00</u>			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2.0 (A)Total Number of Dominant Species Across All Strata: 7.0 (B)Percent of Dominant Species That Are OBL, FACW, or FAC: 28.57 (A/B)
(NaN: Not a Number)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = <u>0.00</u>
FACW species _____	x 2 = <u>0.00</u>
FAC species _____	x 3 = <u>0.00</u>
FACU species _____	x 4 = <u>0.00</u>
UPL species _____	x 5 = <u>0.00</u>
Column Totals: <u>0.00</u> (A)	<u>0.00</u> (B)
Prevalence Index = B/A = <u>NaN</u> (NaN: Not a Number)	

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is $\leq 3.0^1$
- ☐ 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.)

Hydric Soil Present? Yes ☐ No ☒

Eastern Mountains and Piedmont – Version 2.0