

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: B020142- SR 1319 (Piney Post Office Rd) over Potato Creek City/County: City: Piney Creek Co.: Alleghany Sampling Date: 01/05/2017
 Applicant/Owner: North Carolina Department of Transportation State: NC Sampling Point: (MM/DD/YYYY) WA, WB, WC Wet
 Investigator(s): Mason, J. Barrett, B. Dilday, J. Section, Township, Range: ---
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): N Lat: 36.55043 Long: -81.26395 Datum: NAD83
 Soil Map Unit Name: Codorus complex (Arkaqua) (Cx) NWI classification: PEM/PSS/PFO

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 ☐	Hydic Soil Present? Yes ☒ No ☐	Wetland Hydrology Present? Yes ☒ No ☐	Is the Sampled Area within a Wetland? Yes ☒ No ☐
Remarks: Taken in Wetland WA. WA is mostly PEM, with some PSS. WB and WC mostly PFO, but part of same wetland/stream complex as WA, which is why one form was completed.			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ☒ 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)		<u>Secondary Indicators (minimum of two required)</u> ☐ 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): 0.5 Water Table Present? Yes ☒ No ☐ Depth (inches): 0.0 Saturation Present? Yes ☒ No ☐ Depth (inches): 0.0 (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No ☐	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

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

Sampling Point: WA, WB, WC Wet

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. None			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>	

Sapling Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. See Shrub Stratum			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>)	Absolute % Cover	Dominant Species?	Indicator Status
1. None			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>	

Herb Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Scirpus cyperinus</i>	<u>50.0</u>	<u>Y</u>	<u>FACW</u>
2. <i>Polygonum sagittatum</i>	<u>30.0</u>	<u>Y</u>	<u>OBL</u>
3. <i>Juncus effusus</i>	<u>25.0</u>	<u>Y</u>	<u>FACW</u>
4. <i>Mimulus ringens</i>	<u>2.5</u>	<u>N</u>	<u>OBL</u>
5.			Select
6.			Select
7.			Select
8.			Select
9.			Select
10.			Select
11.			Select
		<u>107.5</u> = Total Cover	
50% of total cover: <u>53.75</u>		20% of total cover: <u>21.50</u>	

Woody Vine Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. None			Select
2.			Select
3.			Select
4.			Select
5.			Select
		<u>0.0</u> = Total Cover	
50% of total cover: <u>0.00</u>		20% of total cover: <u>0.00</u>	

Dominance Test worksheet:Number of Dominant Species That Are OBL, FACW, or FAC: 3.0 (A)Total Number of Dominant Species Across All Strata: 3.0 (B)Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (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.)

SOIL

Sampling Point: WA, WB, WC Wet

[illegible]