

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: B-770149 **City/County:** Robeson **Sampling Date:** 02-May-17
Applicant/Owner: NCDOT **State:** NC **Sampling Point:** WD UP
Investigator(s): E. Black, J. Mathis **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): Floodplain **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR P **Lat.:** 34.604225 **Long.:** -79.318574 **Datum:** NAD83
Soil Map Unit Name: BB - Bibb soils **NWI classification:** PFO1

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 <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: Sample point not within wetland.	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)	
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations:		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): _____		
Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): _____		
Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology does not meet wetland criteria.			

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Tree Stratum (Plot size: _____)				Dominant Species?	Indicator Status	Sampling Point: <u>WD UP</u>
	Absolute % Cover	Rel.Strat. Cover				
1. _____	0	<input type="checkbox"/> 0.0%				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
2. _____	0	<input type="checkbox"/> 0.0%				
3. _____	0	<input type="checkbox"/> 0.0%				
4. _____	0	<input type="checkbox"/> 0.0%				
5. _____	0	<input type="checkbox"/> 0.0%				
6. _____	0	<input type="checkbox"/> 0.0%				
7. _____	0	<input type="checkbox"/> 0.0%				
8. _____	0	<input type="checkbox"/> 0.0%				
50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>	0	= Total Cover			Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>80</u> x 3 = <u>240</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0</u> x 5 = <u>0</u> Column Total s: <u>90</u> (A) <u>280</u> (B) Prevalence Index = B/A = <u>3.111</u>
Sapling or Sapling/Shrub Stratum (Plot size: _____)						
1. _____	0	<input type="checkbox"/> 0.0%				
2. _____	0	<input type="checkbox"/> 0.0%				
3. _____	0	<input type="checkbox"/> 0.0%				
4. _____	0	<input type="checkbox"/> 0.0%				
5. _____	0	<input type="checkbox"/> 0.0%				
6. _____	0	<input type="checkbox"/> 0.0%				
7. _____	0	<input type="checkbox"/> 0.0%				
8. _____	0	<input type="checkbox"/> 0.0%				
50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>	0	= Total Cover			
Shrub Stratum (Plot size: _____)						
1. _____	0	<input type="checkbox"/> 0.0%				
2. _____	0	<input type="checkbox"/> 0.0%				
3. _____	0	<input type="checkbox"/> 0.0%				
4. _____	0	<input type="checkbox"/> 0.0%				
5. _____	0	<input type="checkbox"/> 0.0%				
6. _____	0	<input type="checkbox"/> 0.0%				
50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>	0	= Total Cover			
Herb Stratum (Plot size: <u>5'</u> _____)						
1. <u>Festuca arundinacea</u>	80	<input checked="" type="checkbox"/> 100.0%	FAC			
2. _____	0	<input type="checkbox"/> 0.0%				
3. _____	0	<input type="checkbox"/> 0.0%				
4. _____	0	<input type="checkbox"/> 0.0%				
5. _____	0	<input type="checkbox"/> 0.0%				
6. _____	0	<input type="checkbox"/> 0.0%				
7. _____	0	<input type="checkbox"/> 0.0%				
8. _____	0	<input type="checkbox"/> 0.0%				
9. _____	0	<input type="checkbox"/> 0.0%				
10. _____	0	<input type="checkbox"/> 0.0%				
11. _____	0	<input type="checkbox"/> 0.0%				
12. _____	0	<input type="checkbox"/> 0.0%				
50% of Total Cover: <u>40</u>	20% of Total Cover: <u>16</u>	80	= Total Cover			
Woody Vine Stratum (Plot size: <u>15'</u> _____)						
1. <u>Parthenocissus quinquefolia</u>	5	<input checked="" type="checkbox"/> 50.0%	FACU			
2. <u>Ambrosia artemisiifolia</u>	5	<input checked="" type="checkbox"/> 50.0%	FACU			
3. _____	0	<input type="checkbox"/> 0.0%				
4. _____	0	<input type="checkbox"/> 0.0%				
5. _____	0	<input type="checkbox"/> 0.0%				
50% of Total Cover: <u>5</u>	20% of Total Cover: <u>2</u>	10	= Total Cover			

Remarks: (If observed, list morphological adaptations below).
 Vegetation does not meet wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: WD UP

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators:

- | | |
|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Muck Presence (A8) (LRR U) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR P, T) | <input type="checkbox"/> Marl (F10) (LRR U) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Ochric (F11) (MLRA 151) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T) |
| <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A) | <input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U) |
| <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR O, S) | <input type="checkbox"/> Delta Ochric (F17) (MLRA 151) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B) |
| <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A) |
| <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 1 |
| <input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U) | |

Indicators for Problematic Hydric Soils³:

- ☐ 1 cm Muck (A9) (LRR O)
- ☐ 2 cm Muck (A10) (LRR S)
- ☐ Reduced Vertic (F18) (outside MLRA 150A,B)
- ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)
- ☐ Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- ☐ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soil does not meet hydric criteria.

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Investigator(s): E. Black, J. Mathis **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): Floodplain **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR P **Lat.:** 34.604225 **Long.:** -79.318574 **Datum:** NAD83
Soil Map Unit Name: Bb - Bibb loam, 0-2 percent slope, frequently flooded **NWI classification:** PFO1

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 <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Sample point within wetland.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)		Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 0.25 Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 0 Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 0	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Hydrology meets wetland criteria.		

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Tree Stratum (Plot size: _____)				Dominant Species?	Indicator Status	Sampling Point: <u>WD WET</u>	
	Absolute % Cover	Rel.Strat. Cover				Dominance Test worksheet:	
1. _____	0	<input type="checkbox"/> 0.0%				Number of Dominant Species That are OBL, FACW, or FAC: <u>6</u> (A)	
2. _____	0	<input type="checkbox"/> 0.0%				Total Number of Dominant Species Across All Strata: <u>7</u> (B)	
3. _____	0	<input type="checkbox"/> 0.0%				Percent of dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)	
4. _____	0	<input type="checkbox"/> 0.0%				Prevalence Index worksheet: <div style="display: flex; justify-content: space-between;"> Total % Cover of: Multiply by: </div> <div style="display: flex; justify-content: space-between;"> <div>OBL specⁱ es <u>10</u></div> <div>x 1 = <u>10</u></div> </div> <div style="display: flex; justify-content: space-between;"> <div>FACW specⁱ es <u>15</u></div> <div>x 2 = <u>30</u></div> </div> <div style="display: flex; justify-content: space-between;"> <div>FAC specⁱ es <u>20</u></div> <div>x 3 = <u>60</u></div> </div> <div style="display: flex; justify-content: space-between;"> <div>FACU specⁱ es <u>0</u></div> <div>x 4 = <u>0</u></div> </div> <div style="display: flex; justify-content: space-between;"> <div>UPL specⁱ es <u>0</u></div> <div>x 5 = <u>0</u></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Col umn Total s: <u>45</u> (A)</div> <div><u>100</u> (B)</div> </div> <div style="text-align: center; margin-top: 10px;"> Prevalence Index = B/A = <u>2.222</u> </div>	
5. _____	0	<input type="checkbox"/> 0.0%					
6. _____	0	<input type="checkbox"/> 0.0%					
7. _____	0	<input type="checkbox"/> 0.0%					
8. _____	0	<input type="checkbox"/> 0.0%					
50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u> 0 = Total Cover							
Sapling or Sapling/Shrub Stratum (Plot size: <u>30'</u>)						Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <u>Acer rubrum</u>	10	<input checked="" type="checkbox"/> 50.0%	FAC				
2. <u>Alnus serrulata</u>	5	<input checked="" type="checkbox"/> 25.0%	FACW				
3. <u>Taxodium distichum</u>	5	<input checked="" type="checkbox"/> 25.0%	OBL				
4. _____		<input type="checkbox"/> 0.0%					
5. _____	0	<input type="checkbox"/> 0.0%				Definition of 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. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. 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.	
6. _____	0	<input type="checkbox"/> 0.0%					
7. _____	0	<input type="checkbox"/> 0.0%					
8. _____	0	<input type="checkbox"/> 0.0%					
50% of Total Cover: <u>10</u> 20% of Total Cover: <u>4</u> 20 = Total Cover							
Shrub Stratum (Plot size: <u>30'</u>)						Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
1. <u>Sambucus nigra</u>	10	<input checked="" type="checkbox"/> 100.0%	FACW				
2. _____	0	<input type="checkbox"/> 0.0%					
3. _____	0	<input type="checkbox"/> 0.0%					
4. _____	0	<input type="checkbox"/> 0.0%					
5. _____	0	<input type="checkbox"/> 0.0%					
6. _____	0	<input type="checkbox"/> 0.0%					
50% of Total Cover: <u>5</u> 20% of Total Cover: <u>2</u> 10 = Total Cover							
Herb Stratum (Plot size: <u>5'</u>)							
1. <u>Carex spp.</u>	5	<input checked="" type="checkbox"/> 50.0%					
2. <u>Saururus cernuus</u>	5	<input checked="" type="checkbox"/> 50.0%	OBL				
3. _____	0	<input type="checkbox"/> 0.0%					
4. _____	0	<input type="checkbox"/> 0.0%					
5. _____	0	<input type="checkbox"/> 0.0%					
6. _____	0	<input type="checkbox"/> 0.0%					
7. _____	0	<input type="checkbox"/> 0.0%					
8. _____	0	<input type="checkbox"/> 0.0%					
9. _____	0	<input type="checkbox"/> 0.0%					
10. _____	0	<input type="checkbox"/> 0.0%					
11. _____	0	<input type="checkbox"/> 0.0%					
12. _____	0	<input type="checkbox"/> 0.0%					
50% of Total Cover: <u>5</u> 20% of Total Cover: <u>2</u> 10 = Total Cover							
Woody Vine Stratum (Plot size: <u>15'</u>)							
1. <u>Smilax rotundifolia</u>	10	<input checked="" type="checkbox"/> 100.0%	FAC				
2. _____	0	<input type="checkbox"/> 0.0%					
3. _____	0	<input type="checkbox"/> 0.0%					
4. _____	0	<input type="checkbox"/> 0.0%					
5. _____	0	<input type="checkbox"/> 0.0%					
50% of Total Cover: <u>5</u> 20% of Total Cover: <u>2</u> 10 = Total Cover							

Remarks: (If observed, list morphological adaptations below).
Vegetation meets wetland criteria.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: WD WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators:

- | | |
|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Muck Presence (A8) (LRR U) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR P, T) | <input type="checkbox"/> Marl (F10) (LRR U) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Ochric (F11) (MLRA 151) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T) |
| <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A) | <input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U) |
| <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR O, S) | <input type="checkbox"/> Delta Ochric (F17) (MLRA 151) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B) |
| <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A) |
| <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 1 |
| <input checked="" type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U) | |

Indicators for Problematic Hydric Soils³:

- ☐ 1 cm Muck (A9) (LRR O)
- ☐ 2 cm Muck (A10) (LRR S)
- ☐ Reduced Vertic (F18) (outside MLRA 150A,B)
- ☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)
- ☐ Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- ☐ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soil meets hydric criteria.