

U.S. Army Corps of Engineers – Charleston District - Regulatory Division
JURISDICTIONAL DETERMINATION REQUEST
For Identifying Waters of the U.S., Including Wetlands and Tributaries

Project Name: Clinton Adair Tract Date: November 10, 2011

County: Laurens County

Total Acreage of Tract: approx. 787 acres

Property Owner : <u>Pacolet Milliken Enterprises</u>
Address: <u>Mr. John Montgomery</u>
Address: <u>105 Corporate Drive, Suite A</u>
Phone: <u>Spartanburg, SC 29303</u>
Email: _____

Agent: <u>Palmetto Environmental Consulting, Inc.</u>
Address: <u>955 East Main Street, Suite E #52</u>
Address: <u>Lexington, SC 29072</u>
Phone: <u>(803) 791-1033 (Robert Bunch)</u>
Email: <u>robert.bunch@palmettoenv.com</u>

Information Required to Accompany Request - Check the items submitted - forward as much information as is available. At a minimum, the first two items must be forwarded:

- X Accurate Location Maps (from County Map, USGS Quad Sheet, etc.)
- X Survey Plat or Tax Map of the Property in Question
- X Soil Survey Sheet (from USDA-NRCS) or Aerial Photo (from County Assessor's Office or other source).
Property boundaries should be shown on the soil survey / photo.
 - Topographic Survey
 - Conceptual Site Plan for the Overall Development
 - Description of the proposed use of the property (residential, commercial, industrial, silvicultural, agricultural, etc.)
 - Status of the project (on-going site work for development, development in planning stages, no plans at this time, etc.)

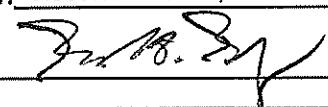
Type of Determination Requested - Choose one:

X Preliminary – Preliminary determinations will identify whether wetlands or other waters are present on the site and will presume that they are jurisdictional. This type of determination is likely to be made more quickly and require less information be submitted.

Approved – Approved determinations will identify whether wetlands or other waters are present on the site and will include a determination of their jurisdictional status. This type of determination is likely to take longer and require more detailed information be submitted.

IMPORTANT NOTE: Legible printed name and signature required. The person signing this form must be the present property owner or have the specific authority of the property owner to authorize Corps of Engineers employees or their agents to enter onto the property for on-site investigations if such is deemed necessary. Do not sign this form unless you are the owner, or have the specific authority of the property owner.

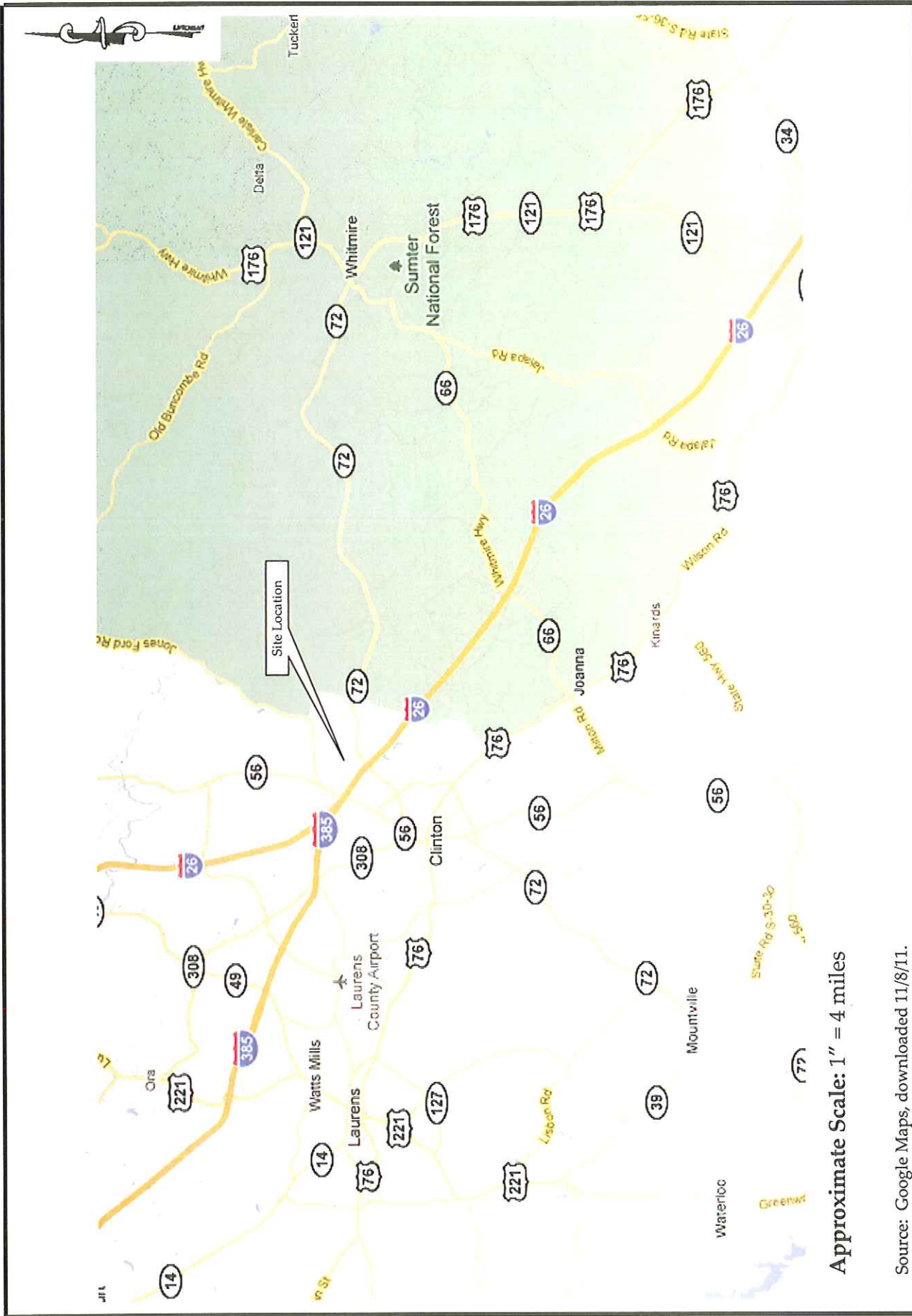
PRINTED NAME of person signing this form, below: Robert H. Bunch, Jr.

Signature of Property Owner or Authorized Agent: 

HQ and South Branch
69-A Hagood Avenue
Charleston, SC 29403
843-329-8044

Northeast Branch
1949 Industrial Park Rd, Room 140
Conway, SC 29526
843-365-4239

Northwest Branch
1835 Assembly St., Room 865-B1
Columbia, SC 29201
803-253-3444



Approximate Scale: 1" = 4 miles

Source: Google Maps, downloaded 11/8/11.

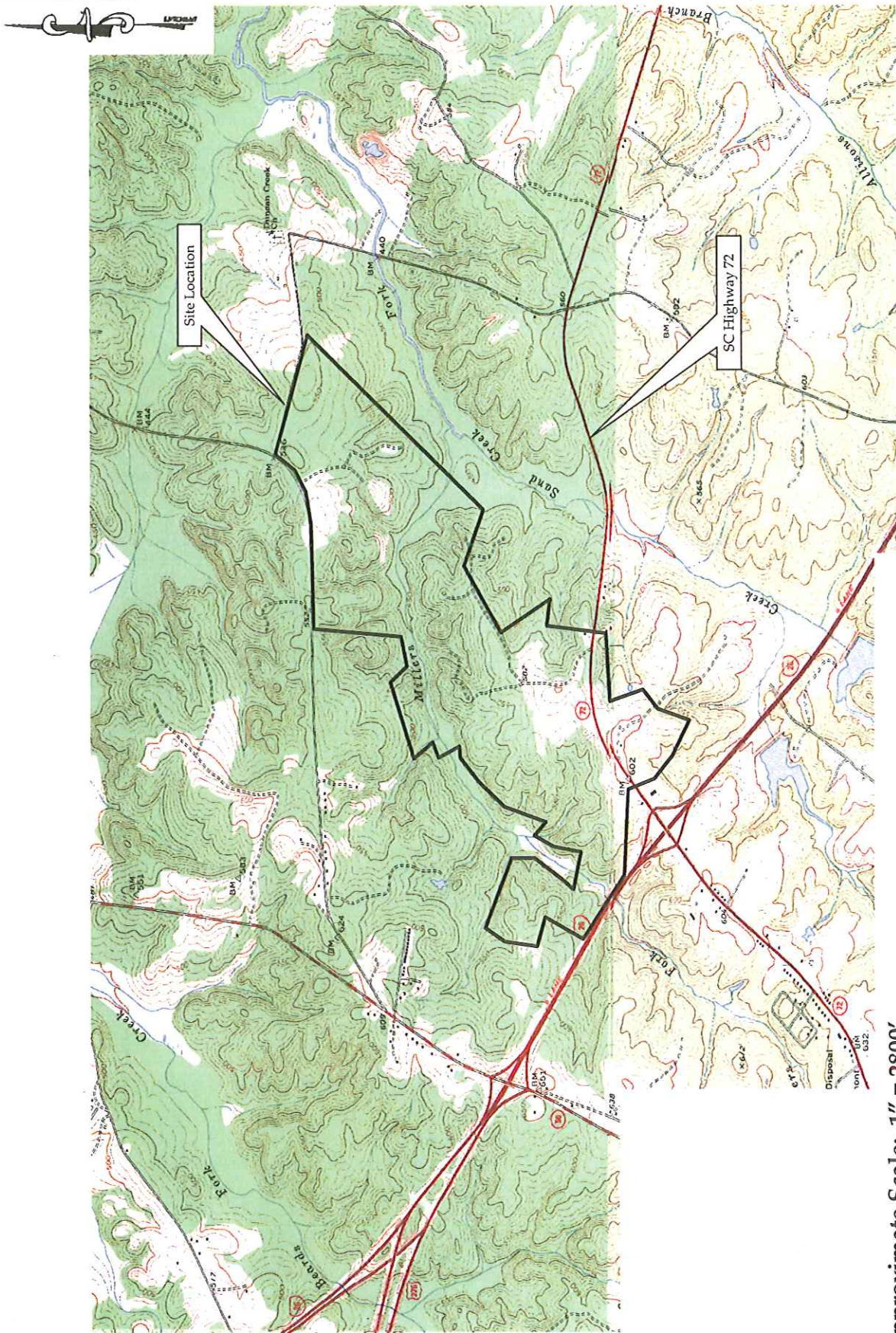
Figure 1: Site Location Map
 Clinton Adair Tract
 Laurens County, South Carolina
 PEC Job No. 11-0396

Sheet ___ of ___
 File # _____

November 10, 2011



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Approximate Scale: 1" = 2800'

Source: SCDNR GIS Clearinghouse, USGS Topo of Philson Crossroads, 1969, and Joanna, 1971.

Figure 2: Topographic Map

Clinton Adair Tract
 Laurens County, South Carolina
 PEC Job No. 11-0396

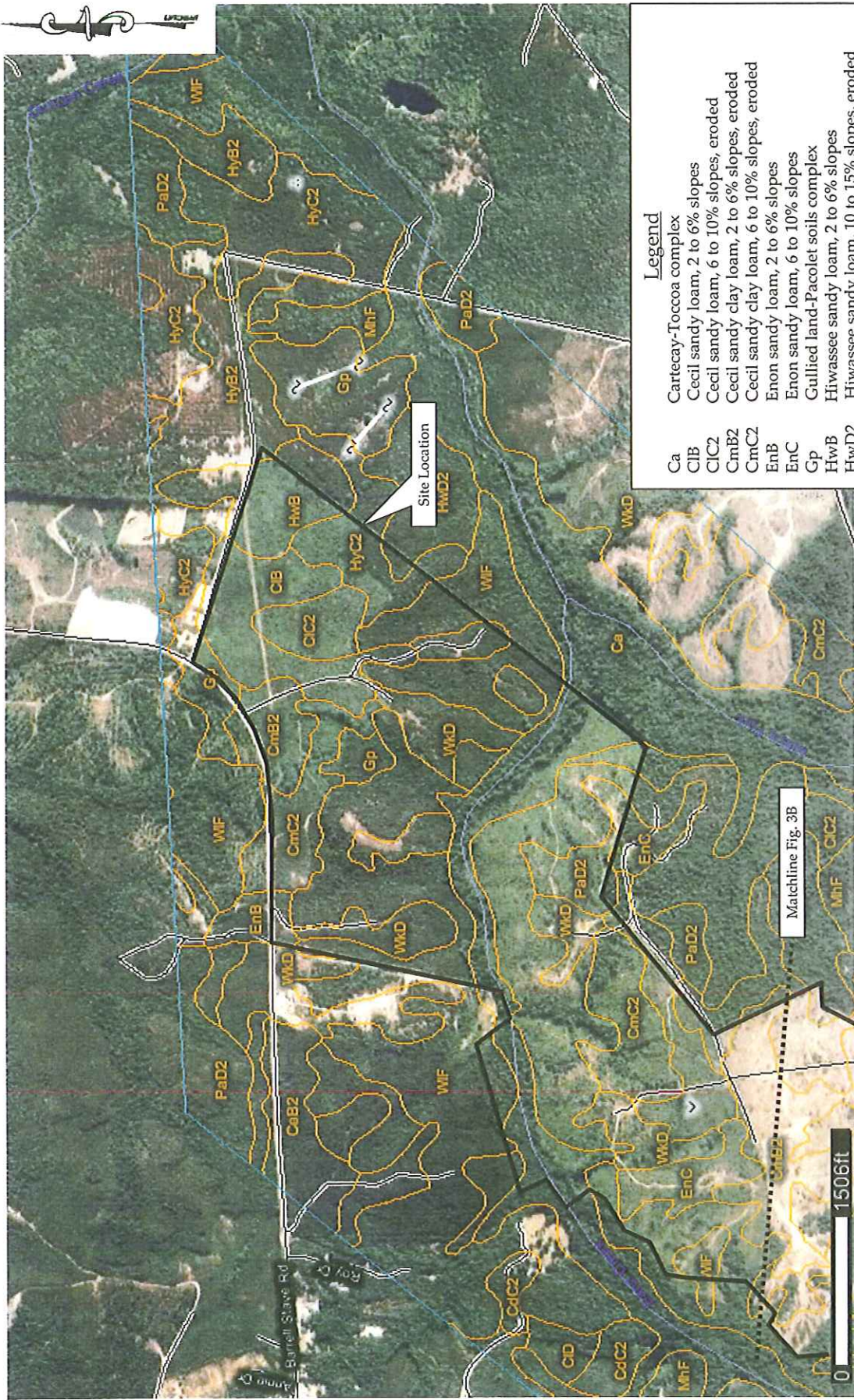
Sheet ___ of ___
 File # _____

November 10, 2011



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 Environmental
 Consulting, Inc

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Legend

- Ca Cartecay-Toccoa complex
- CIB Cecil sandy loam, 2 to 6% slopes
- CIC2 Cecil sandy loam, 6 to 10% slopes, eroded
- CmB2 Cecil sandy clay loam, 2 to 6% slopes, eroded
- CmC2 Cecil sandy clay loam, 6 to 10% slopes, eroded
- EnB Enon sandy loam, 2 to 6% slopes
- EnC Enon sandy loam, 6 to 10% slopes
- Gp Gullied land-Pacolet soils complex
- HwB Hiwassee sandy loam, 2 to 6% slopes
- HwD2 Hiwassee sandy loam, 10 to 15% slopes, eroded
- HyB2 Hiwassee sandy clay loam, 2 to 6% slopes, eroded
- HyC2 Hiwassee sandy clay loam, 6 to 10% slopes, eroded
- PaD2 Pacolet sandy clay loam, 10 to 15% slopes, eroded
- WkD Wilkes sandy loam, 6 to 15% slopes
- WIF Wilkes soils, 15 to 40% slopes

Figure 3A: Soils Map

Clinton Adair Tract
 Laurens County, South Carolina
 PEC Job No. 11-0396

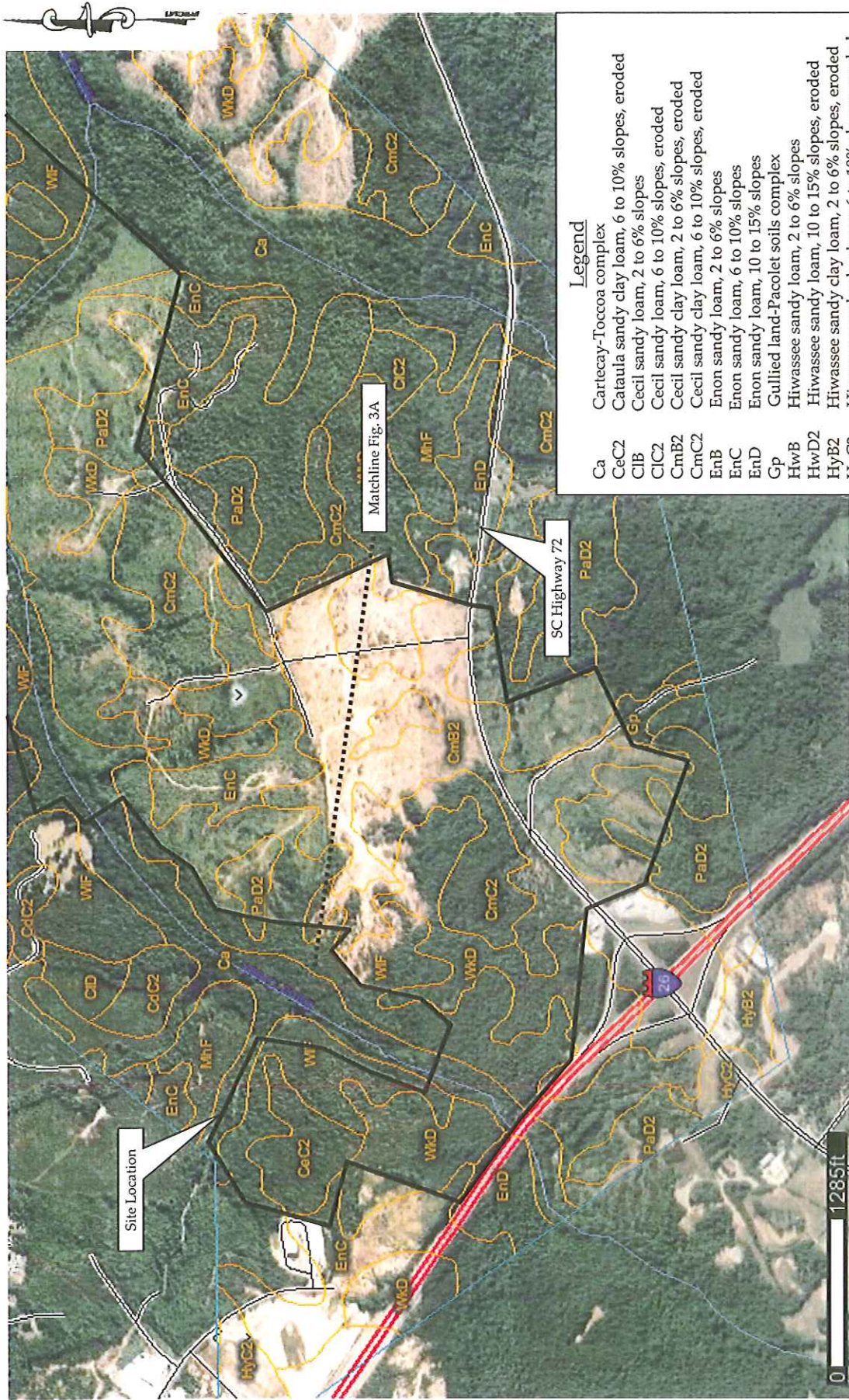
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Sheet ___ of ___

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Legend

- Ca Cartecay-Toccoa complex
- CeC2 Cataula sandy clay loam, 6 to 10% slopes, eroded
- CIB Cecil sandy loam, 2 to 6% slopes
- C1C2 Cecil sandy loam, 6 to 10% slopes, eroded
- CmB2 Cecil sandy clay loam, 2 to 6% slopes, eroded
- CmC2 Cecil sandy clay loam, 6 to 10% slopes, eroded
- EnB Enon sandy loam, 2 to 6% slopes
- EnC Enon sandy loam, 6 to 10% slopes
- EnD Enon sandy loam, 10 to 15% slopes
- Gp Gullied land-Pacolet soils complex
- HwB Hiwassee sandy loam, 2 to 6% slopes
- HwD2 Hiwassee sandy loam, 10 to 15% slopes, eroded
- HyB2 Hiwassee sandy clay loam, 2 to 6% slopes, eroded
- HyC2 Hiwassee sandy clay loam, 6 to 10% slopes, eroded
- PaD2 Pacolet sandy clay loam, 10 to 15% slopes, eroded
- WkD Wilkes sandy loam, 6 to 15% slopes
- WIF Wilkes soils, 15 to 40% slopes

Figure 3B: Soils Map

Clinton Adair Tract
 Laurens County, South Carolina
 PEC Job No. 11-0396

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Sheet ___ of ___

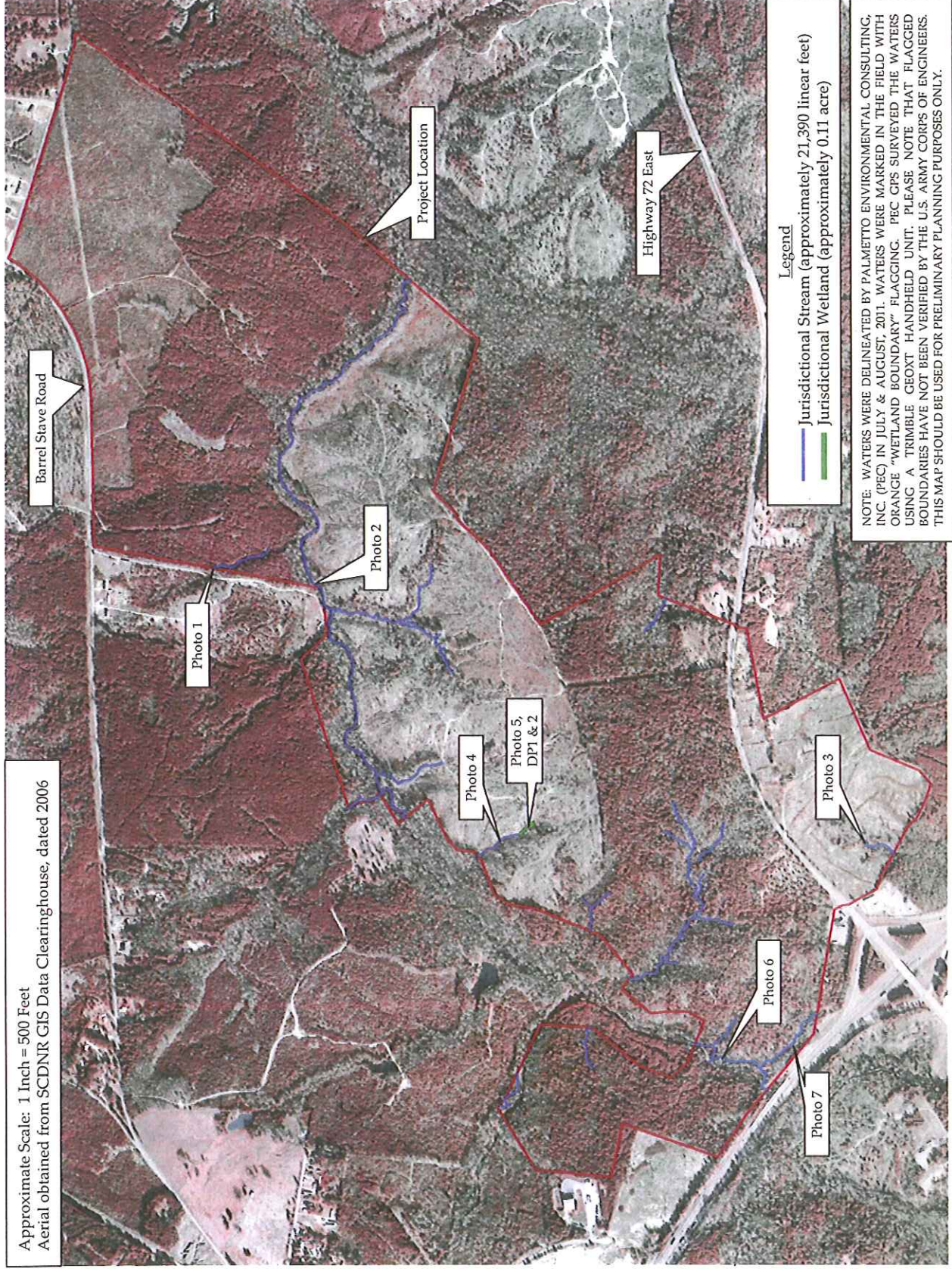
File # _____



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Approximate Scale: 1 Inch = 500 Feet
 Aerial obtained from SCDNR GIS Data Clearinghouse, dated 2006



Legend
 — Jurisdictional Stream (approximately 21,390 linear feet)
 — Jurisdictional Wetland (approximately 0.11 acre)

NOTE: WATERS WERE DELINEATED BY PALMETTO ENVIRONMENTAL CONSULTING, INC. (PEC) IN JULY & AUGUST, 2011. WATERS WERE MARKED IN THE FIELD WITH ORANGE "WETLAND BOUNDARY" FLAGGING. PEC GPS SURVEYED THE WATERS USING A TRIMBLE GEOXT HANDHELD UNIT. PLEASE NOTE THAT FLAGGED BOUNDARIES HAVE NOT BEEN VERIFIED BY THE U.S. ARMY CORPS OF ENGINEERS. THIS MAP SHOULD BE USED FOR PRELIMINARY PLANNING PURPOSES ONLY.

Figure 4: Aerial Photo/Approximate Waters Map

Clinton Adair Tract
 Laurens County, South Carolina
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Sheet ___ of ___
 File # _____



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Photograph 1: View of stream taken facing south in the northern portion of the site.



Photograph 2: View of stream taken facing east in the central portion of the site.



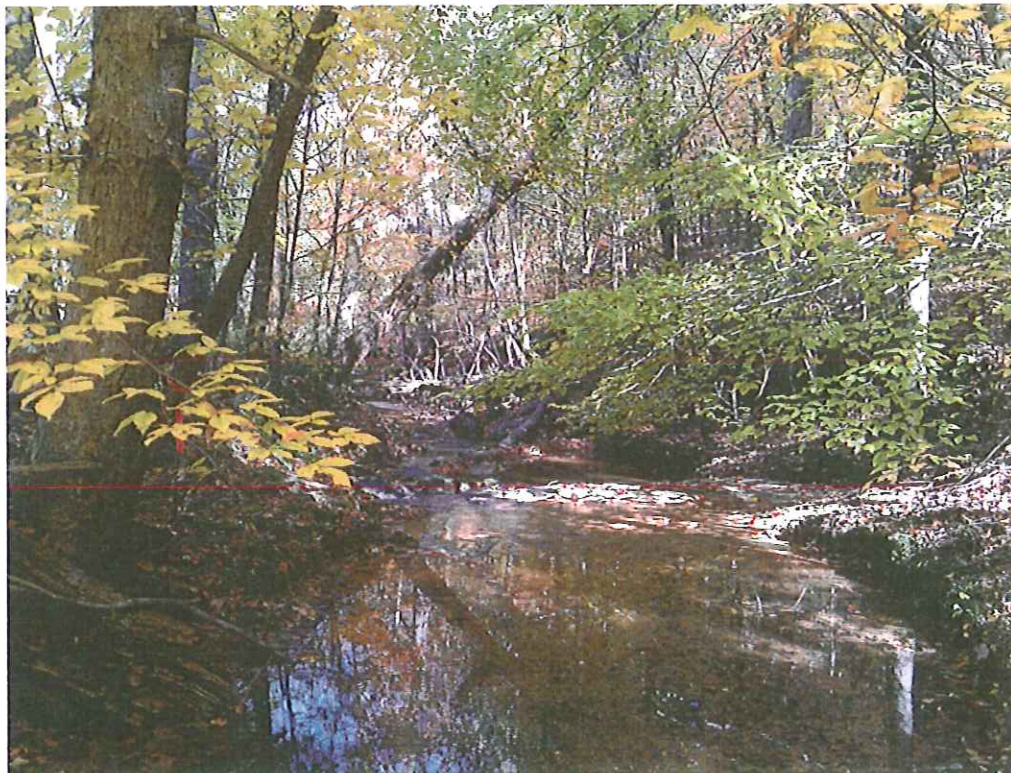
Photograph 3: View of stream taken facing south in the southern portion of the site.



Photograph 4: View of stream taken facing north in the central portion of the site.



Photograph 5: Data Point 1 (Wetland U, left side of photo) and Data Point 2 (upland, right side of photo). Photo taken facing south, along the flagged boundary.



Photograph 6: View of stream taken facing north in the southwestern portion of the site.



Photograph 7: View of stream taken facing east in the southwestern portion of the site.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: Clinton Adair Tract City/County: Laurens County Sampling Date: 11-7-11
 Applicant/Owner: Pacolet Milliken Enterprises State: SC Sampling Point: DP1 wet
 Investigator(s): Robert Bunch Section, Township, Range: Saluda
 Landform (hillslope, terrace, etc.): seep Local relief (concave, convex, none): CONVEX Slope (%): 2%
 Subregion (LRR or MLRA): MLRA 136 Lat: 34.5072 Long: -81.8399 Datum: _____
 Soil Map Unit Name: WIF - Wilkes soils 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 , 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="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: This data point appears to be located within a wetland.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input checked="" 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"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>10</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>3</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: The soils at this data point appear to be indicative of a wetland area.	

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

Sampling Point: DP1 wet

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<u>Dominance Test worksheet:</u>																
1. _____	_____	-	-	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)																
2. _____	_____	-	-	Total Number of Dominant Species Across All Strata: <u>4</u> (B)																
3. _____	_____	-	-	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
4. _____	_____	-	-	<u>Prevalence Index worksheet:</u> <table style="width:100%; border:none;"> <tr> <td style="width:50%;"><u>Total % Cover of:</u></td> <td style="width:50%;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>90</u></td> <td>x 3 = <u>270</u></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: <u>110</u> (A)</td> <td><u>300</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>2.7</u></td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>90</u>	x 3 = <u>270</u>	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: <u>110</u> (A)	<u>300</u> (B)	Prevalence Index = B/A = <u>2.7</u>	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>90</u>	x 3 = <u>270</u>																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: <u>110</u> (A)	<u>300</u> (B)																			
Prevalence Index = B/A = <u>2.7</u>																				
5. _____	_____	-	-																	
6. _____	_____	-	-																	
7. _____	_____	-	-																	
8. _____	_____	-	-																	
_____ = Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)																				
1. _____	_____	-	-	<u>Hydrophytic Vegetation Indicators:</u> <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"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)																
2. _____	_____	-	-																	
3. _____	_____	-	-																	
4. _____	_____	-	-																	
5. _____	_____	-	-																	
6. _____	_____	-	-																	
7. _____	_____	-	-																	
8. _____	_____	-	-																	
9. _____	_____	-	-																	
10. _____	_____	-	-																	
_____ = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>30' radius</u>)																				
1. <u>Rubus argutus</u>	<u>75</u>	<u>YES</u>	<u>FAC</u>	<u>Definitions of Four Vegetation Strata:</u> Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.																
2. <u>Juncus effusus</u>	<u>10</u>	<u>YES</u>	<u>FACW</u>																	
3. <u>Scirpus cyperinus</u>	<u>10</u>	<u>YES</u>	<u>OBL</u>																	
4. <u>Carex sp.*</u>	<u>5</u>	<u>NO</u>	<u>-</u>																	
5. _____	_____	-	-																	
6. _____	_____	-	-																	
7. _____	_____	-	-																	
8. _____	_____	-	-																	
9. _____	_____	-	-																	
10. _____	_____	-	-																	
11. _____	_____	-	-																	
12. _____	_____	-	-																	
_____ = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30' radius</u>)																				
1. <u>Lonicera japonica</u>	<u>15</u>	<u>YES</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
2. _____	_____	-	-																	
3. _____	_____	-	-																	
4. _____	_____	-	-																	
5. _____	_____	-	-																	
6. _____	_____	-	-																	
_____ = Total Cover																				

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

This data point appears to contain hydrophytic vegetation. *Because this was not identified by species, it was excluded from all calculations.

SOIL

Sampling Point: DP1 wet

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/2	70	10YR 4/4	30	C	M	fine sandy loam	
6-20	Gley 1 6/N	100					fine sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) (LRR N)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

- 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)
- Umbric Surface (F13) (MLRA 136, 122)
- Piedmont Floodplain Soils (F19) (MLRA 148)

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.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: This data point appears to contain hydric soil indicators.

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: Clinton Adair Tract City/County: Laurens County Sampling Date: 11-7-11
 Applicant/Owner: Pacolet Milliken Enterprises State: SC Sampling Point: DP2 up
 Investigator(s): Robert Bunch Section, Township, Range: Clinton
 Landform (hillslope, terrace, etc.): seep Local relief (concave, convex, none): level Slope (%): 5%
 Subregion (LRR or MLRA): MLRA 136 Lat: 34.5072 Long: -81.8399 Datum: _____
 Soil Map Unit Name: WIF - Wilkes soils 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 , 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="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: This data point appears to be located within an upland area.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	Secondary Indicators (minimum of two 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"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 This data point does not appear to contain wetland hydrology.

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

Sampling Point: DP2 up

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	-	-	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</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>66</u> (A/B)
4. _____	_____	-	-	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>90</u> x 3 = <u>270</u> FACU species <u>15</u> x 4 = <u>60</u> UPL species <u>35</u> x 5 = <u>175</u> Column Totals: <u>140</u> (A) <u>505</u> (B) Prevalence Index = B/A = <u>3.6</u>
5. _____	_____	-	-	
6. _____	_____	-	-	
7. _____	_____	-	-	
8. _____	_____	-	-	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>30'</u> radius)				
1. <u>Rhus copallinum</u>	<u>25</u>	<u>YES</u>	<u>NI</u>	
2. <u>Pinus taeda</u>	<u>15</u>	<u>YES</u>	<u>FAC</u>	
3. _____	_____	-	-	
4. _____	_____	-	-	
5. _____	_____	-	-	
6. _____	_____	-	-	
7. _____	_____	-	-	
8. _____	_____	-	-	
9. _____	_____	-	-	
10. _____	_____	-	-	
<u>40</u> = Total Cover				
Herb Stratum (Plot size: <u>30'</u> radius)				
1. <u>Rubus argutus</u>	<u>75</u>	<u>YES</u>	<u>FAC</u>	
2. <u>Rhus copallinum</u>	<u>10</u>	<u>NO</u>	<u>NI</u>	
3. <u>Eupatorium capillifolium</u>	<u>10</u>	<u>NO</u>	<u>FACU</u>	
4. <u>Juniperus virginiana</u>	<u>5</u>	<u>NO</u>	<u>FACU</u>	
5. _____	_____	-	-	
6. _____	_____	-	-	
7. _____	_____	-	-	
8. _____	_____	-	-	
9. _____	_____	-	-	
10. _____	_____	-	-	
11. _____	_____	-	-	
12. _____	_____	-	-	
<u>100</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	-	-	
2. _____	_____	-	-	
3. _____	_____	-	-	
4. _____	_____	-	-	
5. _____	_____	-	-	
6. _____	_____	-	-	
_____ = Total Cover				

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 Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)
 This data point appears to contain marginally hydrophytic vegetation.

SOIL

Sampling Point: DP2 up

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	5YR 4/2	80	5YR 5/1	20	C	M	fine sandy loam	
8-20	5YR 5/6	100					sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Dark Surface (S7)	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> 2 cm Muck (A10) (LRR N)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)	
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)	

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: This data point does not appear to contain hydric soils.