

# **Wetland Data Report**

## **Claiborne Plantation Site**

Iberville Parish, Louisiana  
**Baton Rouge Area Chamber**  
564 Laurel Street  
Baton Rouge, Louisiana 70801

February 2016

Prepared by:



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CK Project Number: 12667-1

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## 1.0 INTRODUCTION

The following report summarizes a wetland delineation conducted by CK Associates (CK) on an approximate 1,039.4-acre property (project area) adjacent to the Mississippi River near White Castle, Louisiana. The purpose of this report is to identify areas that contain potential wetlands and other potential "Waters of the United States" (US) as defined in 33 C.F.R. § 328.3. The project area is located on Highway 405 in Iberville Parish, specifically at latitude 30°11'34.88"N and longitude 91°4'33.36"W within Sections 15, 16, 17, 18, 65, 66, 67, and 68 of Township 10 South and Range 14 East.

Waters of the US are aquatic areas that are either navigable or have a significant nexus to a navigable water. These areas are regulated by the US Army Corps of Engineers (USACE). Navigable waters are defined as "those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce" (33 C.F.R. § 329.4 [1986]). Any area below the ordinary high water mark, as defined in 33 C.F.R. § 328.3 (1993), may fall under Federal jurisdiction as a navigable water (33 C.F.R. § 329.11 [1986]).

Waters of the US, regardless of navigability, can generally be categorized as either: 1) deepwater aquatic habitats, 2) special aquatic sites, or 3) other waters of the US. Deepwater aquatic habitats are "areas that are permanently inundated at mean annual water depths greater than 6.6 feet or permanently inundated areas, less than or equal to 6.6 feet in depth that do not support rooted-emergent or woody plant species". Special aquatic sites include 1) sanctuaries and refuges, 2) wetlands, 3) mudflats, 4) vegetated shallows, 5) coral reefs, and 6) riffle and pool complexes. Other waters of the US include, but are not limited to 1) isolated wetlands and lakes, 2) intermittent streams, 3) prairie potholes, and 4) other waters that are not part of a tributary system to interstate waters or navigable waters of the US (USACE 1987).

Wetlands are classified as a special aquatic site and are defined as "areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (USACE 1987). These areas are referred to as "wetlands" throughout this report whereas deepwater aquatic habitats, special aquatic sites, streams, and other waters of the US are referred to as "other waters" in this report.

Three mandatory technical criteria for determining the presence of a wetland are, with exceptions, 1) prevalence of hydrophytic vegetation, 2) wetland hydrology, and 3) hydric soils (USACE 1987). Hydrophytic vegetation is defined as "the sum total of macrophytic plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content" (USACE 1987). The term wetland hydrology encompasses "the sum total of wetness characteristics in areas that are inundated or have saturated soils for a sufficient duration to support hydrophytic vegetation" (USACE 1987). A hydric soil is defined as "a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part" (USDA 2010).

## **2.0 PHYSIOGRAPHY, CLIMATE, AND SITE DESCRIPTION**

The project area is located within Land Resource Region (LRR) O – Mississippi Delta Cotton and Feed Grains Region, in Major Land Resource Area (MLRA) 131A – Southern Mississippi River Alluvium. The topography of MLRA 131A is characterized by level or depressional to very undulating alluvial plains, backswamps, oxbows, natural levees, and terraces. Average elevations start at sea level in the southern part of the area and gradually rise to about 330 feet in the northwestern part. The lower Mississippi River and its tributaries drain nearly all of MLRA 131A, but the Atchafalaya River drains the extreme southwest part (USDA 2006).

The annual precipitation in MLRA 131A is 46 to 60 inches. The average annual temperature ranges from 56 to 69 degrees Fahrenheit (F), increasing from north to south. The freeze-free period averages 285 days and ranges from 210 to 355 days (USDA 2006).

The project area is characterized by active agricultural habitat, wetland and non-wet fallow agriculture fields, wetland and non-wet active pastureland, and wetland and non-wet bottomland hardwood forest (BLH) habitats.

## **3.0 METHODS**

CK visited the project area January 18-20, 2016 to determine the extent of potential wetlands and other waters of the US. The wetland delineation followed routine onsite field procedures as outlined by the USACE (1987 and 2010). Soil references include the NRCS (2015, 2016a, and 2016c) and USDA (2010). Plant nomenclature and wetland indicator status is taken from The National Wetland Plant List (Lichvar et al. 2014). Plant nomenclature not listed in The National Wetland Plant List is taken from the NRCS PLANTS Database (2016b).

Prior to conducting the field investigation, CK reviewed available aerial photography, soil survey data, topographic maps, and National Wetland Inventory (NWI) data. Data points were established within the dominant plant communities of the project area. Observations of soils, vegetation, and hydrology were documented at each data point location (Attachment A). Potential wetlands and waters of the US, and data point locations were mapped utilizing Trimble® GeoXT® Differential Global Positioning System (DGPS) with real-time corrections. Acreage was obtained by exporting the data from the DGPS unit into ESRI® ArcMap Version 10.3. Digital photographs were taken of the soil profile and surrounding vegetation at each data point (Attachment A).

Wetland hydrology was based on the observation of wetland hydrology indicators, as described by USACE (2010). Wetland hydrology criteria were met if one primary indicator was observed or a minimum of two secondary indicators were observed.

All vegetative species present within each data point plot were documented for all vegetation strata, including the tree stratum, sapling/shrub stratum, herbaceous stratum, and woody vines stratum. Percent absolute cover for each species was determined by

ocular estimation. Plant communities met hydrophytic vegetation criteria if all dominant species across all strata are classified as obligatory and/or facultative-wet, or if greater than 50% of all dominant species from all strata were classified as obligatory, facultative-wet, and/or facultative species, or if the prevalence index is 3.0 or less (USACE 2010). Dominant species were selected using the “50/20 rule” described by the USACE (2010).

Soil profiles were obtained by excavating an approximate 12- to 16-inch soil pit. Soil color was recorded by matching soil samples throughout the profile to color chips contained in a Munsell soil color chart. The presence or absence of hydric soils was determined utilizing the methods and procedures outlined by the USACE (2010), including, but not limited to, the observation of the hydric soil indicators described by the USACE (2010).

## 4.0 RESULTS

Thirteen data points (DP) were collected during the field investigation. DP1, DP3, DP6-DP8, DP11, and DP12 were located within wetlands. DP2, DP4, DP5, DP9, DP10, and DP13 were located within non-wetlands.

### 4.1 Hydrology

Primary wetland hydrology indicators (surface water, high water table, saturation, water marks, sediment deposits, drift deposits, algal mat or crust, water-stained leaves, and/or oxidized rhizospheres on living roots) and/or secondary hydrology indicators (crawfish burrows, saturation visible on aerial imagery, geomorphic position, and/or FAC-Neutral test) were observed at DP1, DP3, DP5, DP6, DP7, DP8, DP11, and DP12. No primary or only one secondary wetland hydrology indicators were observed at DP2, DP4, DP9, DP10, and DP13.

### 4.2 Vegetation

The non-wet, active agricultural habitat is dominated by sugar-cane (*Saccharum officinarum*).

The wet, fallow agricultural habitat is dominated by peatree (*Sesbania herbacea*) and panicled-leaf tick-trefoil (*Desmodium paniculatum*) in the sapling-shrub stratum. The herbaceous stratum is dominated by large barnyard grass (*Echinochloa crus-galli*), wand panic grass (*Panicum virgatum*), Brazilian vervain (*Verbena incompta*), saw-tooth blackberry (*Rubus argutus*), blunt spike-rush (*Eleocharis obtusa*), marsh primrose-willow (*Ludwigia palustris*), purple flat sedge (*Cyperus rotundus*), curly dock (*Rumex crispus*), climbing dayflower (*Commelina diffusa*), and sacatrapo (*Caperonia palustris*).

The non-wet, fallow agricultural habitat is dominated by Johnson grass (*Sorghum halepense*), spiny-leaf sow-thistle (*Sonchus asper*), purple flat sedge, bahia grass (*Paspalum notatum*), and Bermuda grass (*Cynodon dactylon*).

The wet, active pastureland is dominated by hairy buttercup (*Ranunculus sardous*), torpedo grass (*Panicum repens*), and variable flat sedge (*Cyperus difformis*).

The non-wet, active pastureland is dominated by perennial rye grass (*Lolium perenne*).

The wet, BLH forested habitat is dominated by sugar-berry (*Celtis laevigata*), water oak (*Quercus nigra*), and red maple (*Acer rubrum*) in the tree stratum. Sugar-berry and dwarf palmetto (*Sabal minor*) dominate the sapling shrub stratum. The herbaceous stratum is dominated by maiden-cane (*Panicum hemitomon*). The woody vine stratum is dominated by eastern poison-ivy (*Toxicodendron radicans*) and American buckwheatvine (*Brunnichia ovata*).

The non-wet, BLH habitat is dominated by sugar-berry and red maple in the tree stratum. The sapling shrub stratum is dominated by water oak and black elder (*Sambucus nigra*). The herbaceous stratum is dominated by black elder, southern dewberry (*Rubus trivialis*), and hooded blue violet (*Viola sororia*).

#### 4.3 Soils

The project area is underlain by the following soils (Figure 4):

- Ca: Cancienne silt loam, 0 to 1 percent slopes;
- Cb: Cancienne silty clay loam, 0 to 1 percent slopes;
- Gr: Gramercy silty clay loam, 0 to 1 percent slopes; and
- Sb: Schriever clay, 0 to 1 percent slopes.

All of the above soils are designated as hydric according to the National Hydric Soils List (NRCS 2015). The depleted matrix hydric soil indicator was observed at DP3, DP5, DP6, DP7, DP8, DP9, DP10, and DP12. No soil profile was taken at DP1 and DP11. Soils were presumed hydric at DP1 and DP11 due to the presence of wetland hydrology indicators and a prevalence of hydrophytic vegetation. No hydric soil indicators were observed at DP2, DP4, or DP13.

#### 4.4 Questions Pertaining to Regulatory Authority

CK has also addressed the items below, as requested in the request for proposal:

1. Identify any bodies of water on or abutting the site and identify the authority with jurisdiction over them.
  - The Mississippi River is outside of the survey property boundary and north of the site. This feature is under the jurisdiction of the USACE by authority of Section 10 of the Rivers and Harbors Act.
2. Do wetlands and/or other waterways exist on or near the site?

- There are 24 acres of Section 404 Wetlands present on the site. These features are under the jurisdiction of the USACE under the authority of Section 404 of the Clean Water Act.
  - There are 16.4 acres of Section 404 Other Waters of the US present on the site. These features are under the jurisdiction of the USACE by authority of Section 404 of the Clean Water Act.
3. If wetlands are present has a Section 404 permit application been submitted to USACE? If yes, provide a copy.
    - No previous permit applications were associated with the project area per the USACE New Orleans District.
  4. If wetlands are present, has the Section 404 permit been received from the USACE?
    - See above.
  5. If wetlands are present, have all wetlands on site been mitigated?
    - To the best of CK's knowledge, no mitigation has been conducted for wetlands on site.

## 5.0 CONCLUSIONS

Based on the aforementioned data and field observations, the 1,039.4-acre project area contains (Figure 2 and Figure 3):

- 16.4 acres of Section 404 Other Waters of the US
- 24 acres of Section 404 Wetlands

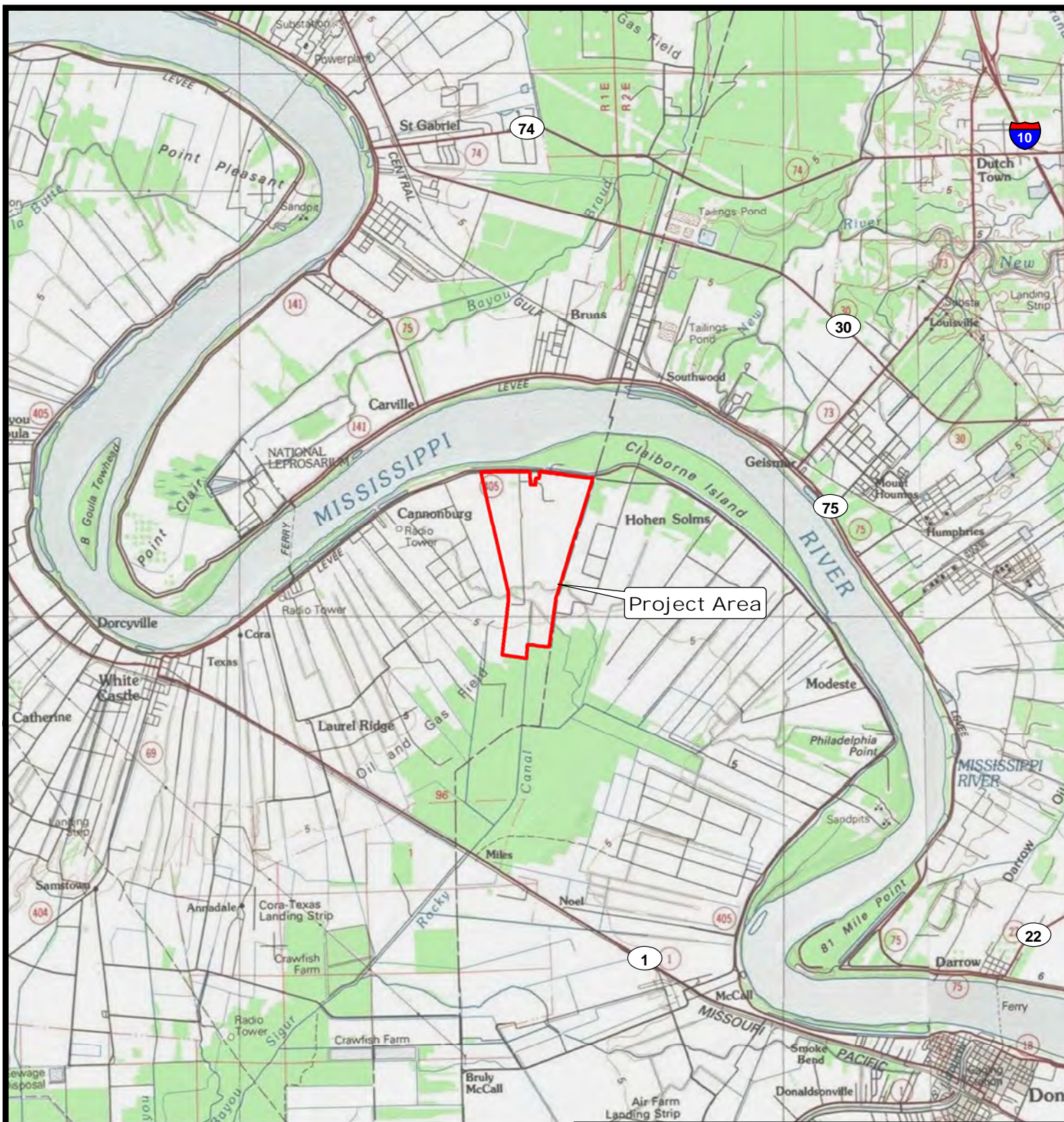
This acreage is influenced by the accuracy of the DGPS unit utilizing real-time corrections and ESRI® ArcMap Version 10.3 drafting software.

**The USACE under the authority of the Clean Water Act, Section 404 and the Rivers and Harbor Act, Section 10 has the responsibility to make the final determination of the location and extent of jurisdictional wetlands, other waters of the US and navigable waters on this property, respectively. This report represents the opinion of the investigators and should be considered preliminary until final concurrence is obtained from the New Orleans District Army Corps of Engineers office.**

## 6.0 LITERATURE CITED

- Lichvar, R.W., M. Butterwick, N.C. Melvin, W.N. Kirchner. 2014. The National Wetland Plant List. 2014 ratings. *Phytoneuron* 2014 – 41: 1-42.
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- US Army Corps of Engineers [USACE]. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0), ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-10-20. Vicksburg, MS: US Army Engineer Research and Development Center.
- US Department of Agriculture [USDA]. Natural Resource Conservation Service. 2006. Land Resource Regions and Major Land Resource Areas of the United States, the Caribbean, and the Pacific Basin. US Department of Agriculture Handbook 296.
- US Department of Agriculture [USDA]. Natural Resources Conservation Service. 2010. Field Indicators of Hydric Soils in the United States, Version 7.0. ed. L.M. Vasilas, G.W. Hart, and C.V. Noble. USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

## FIGURES



Iberville Parish



0 1 2  
Miles

#### Reference

U.S.G.S. 100K SERIES QUAD MAP, BATON ROUGE, LA.



## Baton Rouge Area Chamber

Baton Rouge, Louisiana

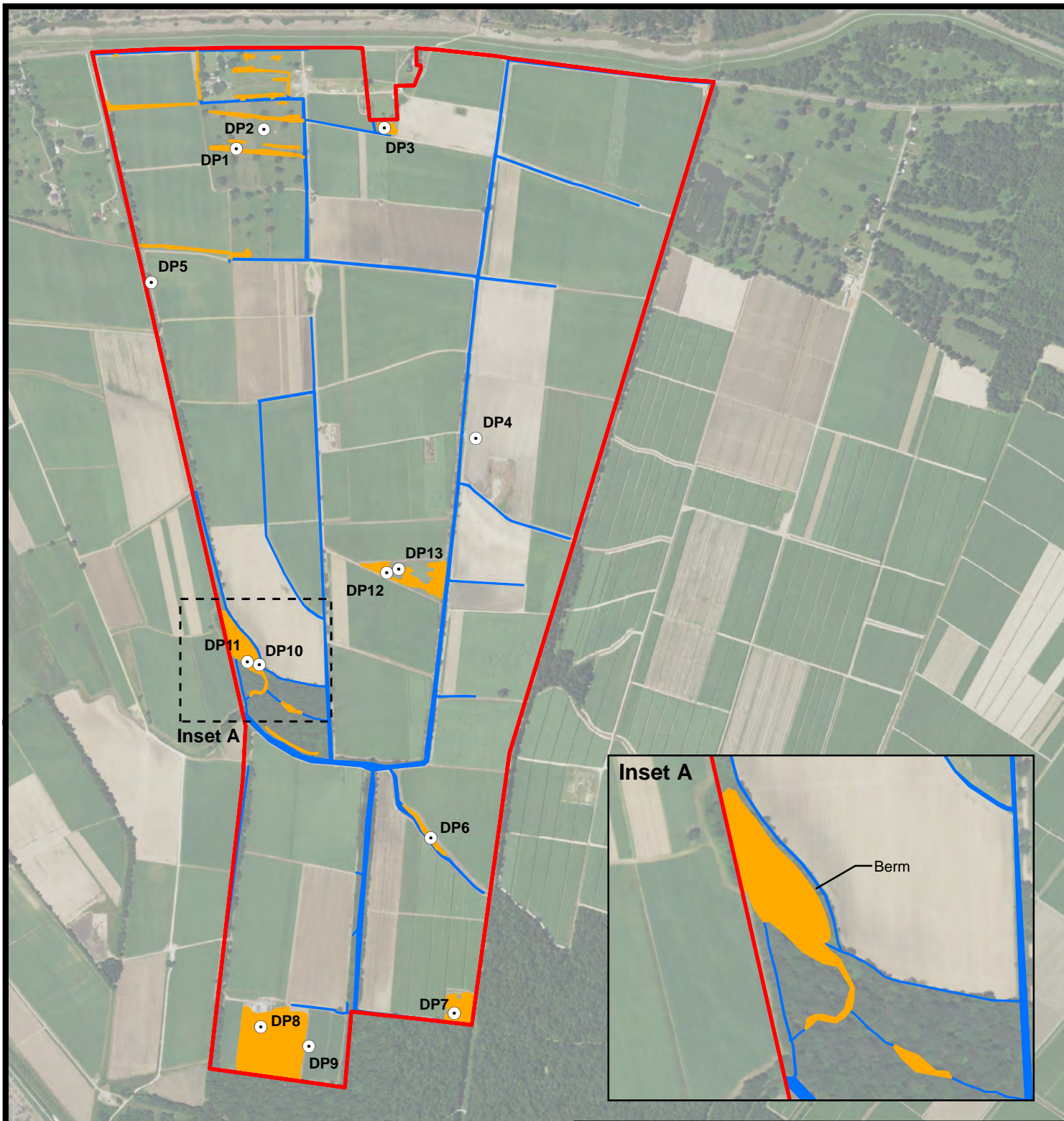
Claiborne Plantation Site

## Vicinity Map

Iberville Parish

Drawn:	CPL/AM10.3
Checked:	CP
Approved:	TEW
Date:	01/21/2016
Dwg. No.:	A12667-01

## Figure 1



- Data Point
- Project Area (1,039.4 acres)
- Wetlands (24 acres)
- Other Waters of the US (16.4 acres)



0 1,500 3,000  
Feet

#### Reference

IMAGERY: NAIP 2015, IBERVILLE PARISH, LOUISIANA MOSAIC.



## Baton Rouge Area Chamber

Baton Rouge, Louisiana

Claiborne Plantation Site

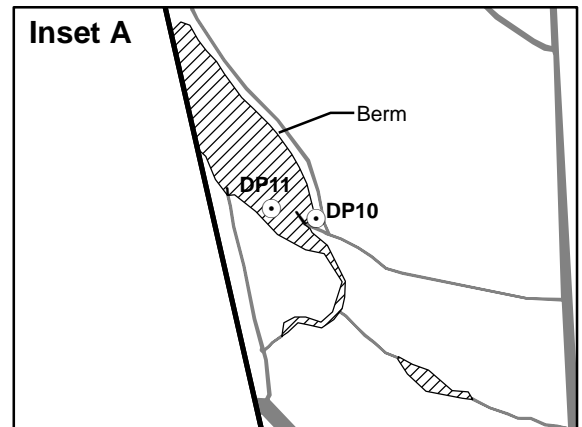
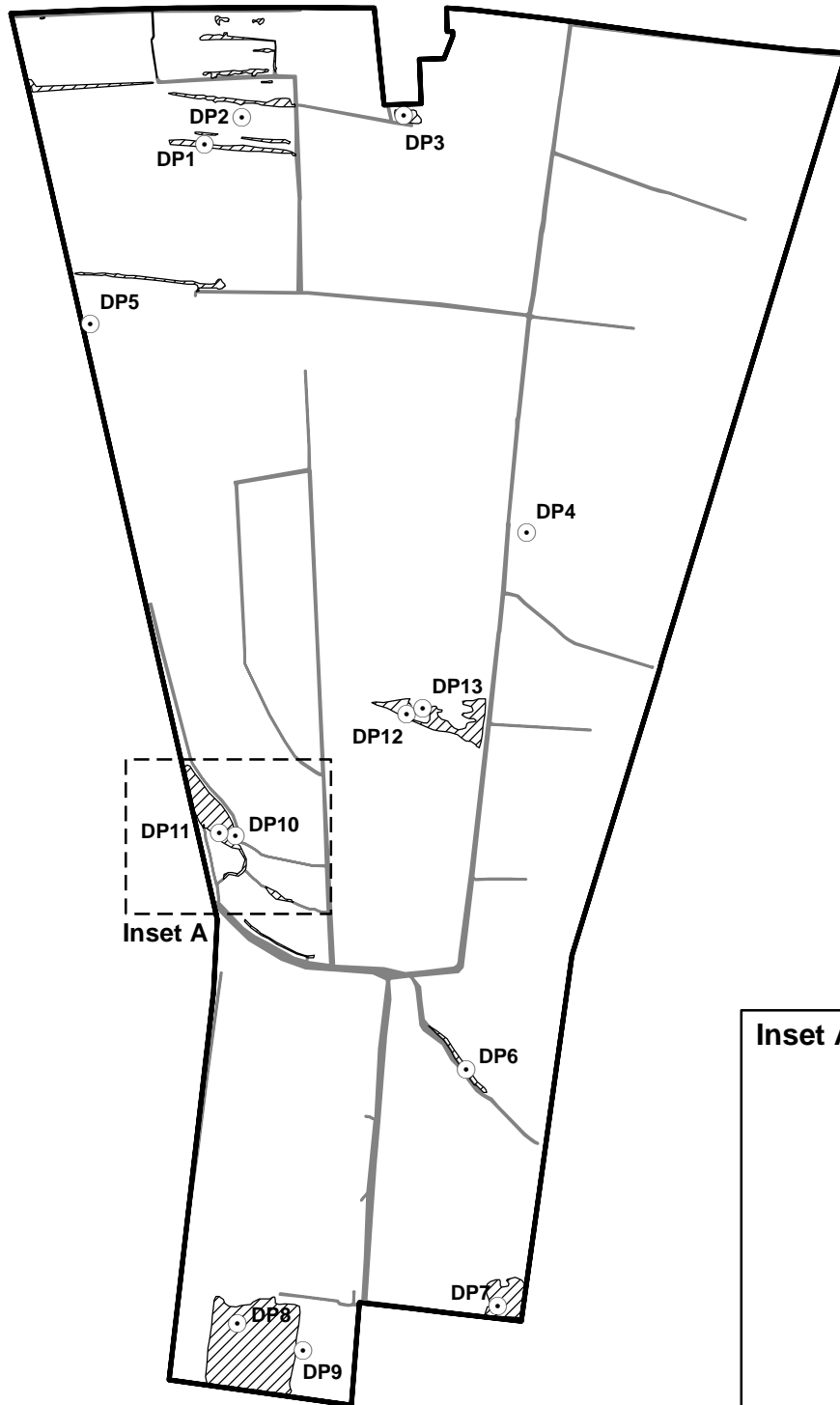
## Wetlands Map (Aerial Imagery Background)

Iberville Parish



Drawn:	CPL/AM10.3
Checked:	CP
Approved:	TEW
Date:	01/22/2016
Dwg. No.:	A12667-02

## Figure 2



○ Data Point

□ Project Area (1,039.4 acres)

▨ Wetlands (24 acres)

■ Other Waters of the US (16.4 acres)



0 1,500 3,000  
Feet



## Baton Rouge Area Chamber

Baton Rouge, Louisiana

Claiborne Plantation Site

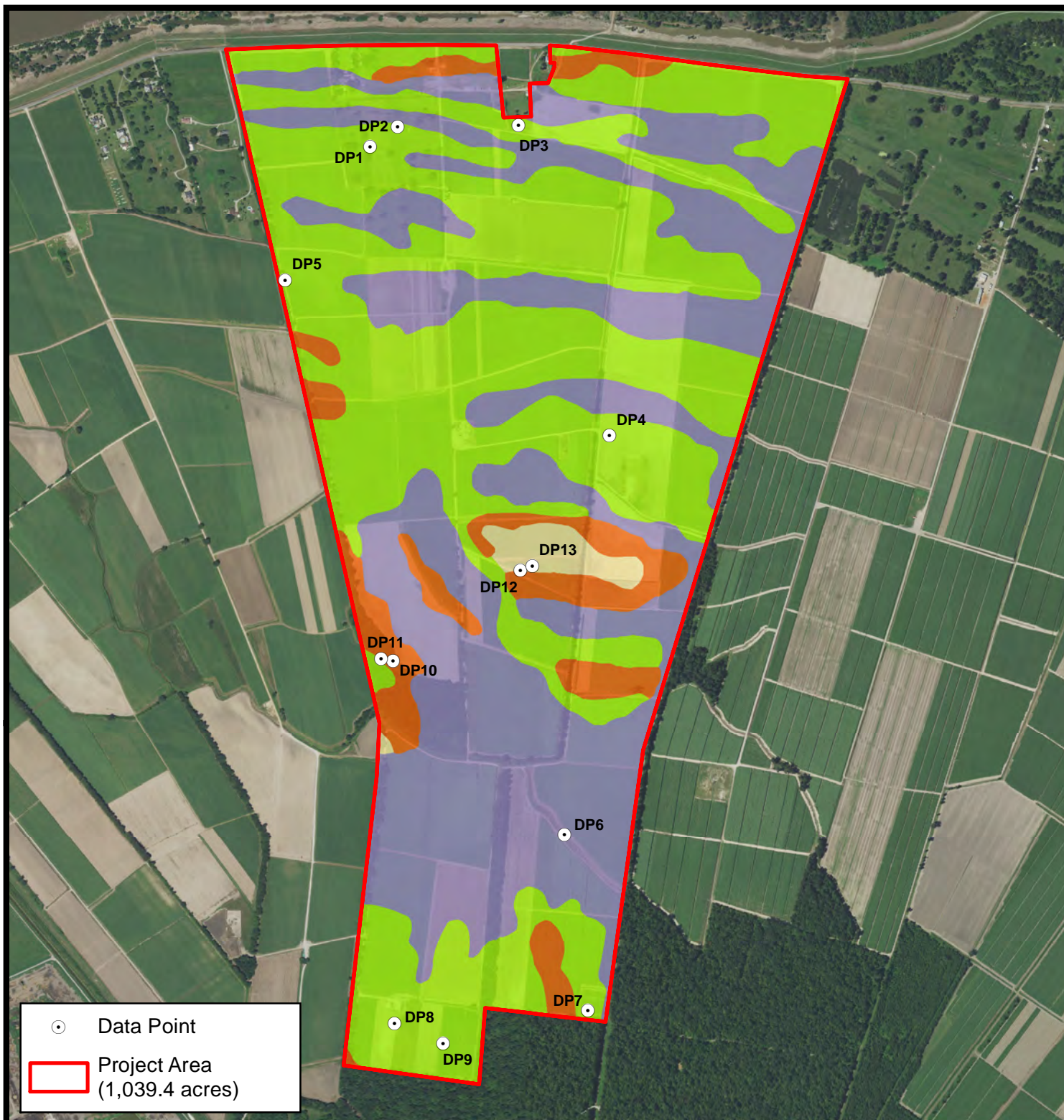
## Wetlands Map

Iberville Parish



Drawn:	CPL/AM10.3
Checked:	CP
Approved:	TEW
Date:	01/22/2016
Dwg. No.:	A12667-03

**Figure 3**



### Soils Data

- Ca- Cancienne silt loam, 0 to 1 percent slopes
- Cb- Cancienne silty clay loam, 0 to 1 percent slopes
- Gr- Gramercy silty clay loam, 0 to 1 percent slopes
- Sb- Schriever clay, 0 to 1 percent slopes

0 1,500 3,000  
Feet



### Reference

- 1) IMAGERY: NAIP 2015, IVERVILLE PARISH, LOUISIANA MOSAIC.
- 2) SOIL DATA FROM THE USDA NRCS SOIL SURVEY GEOGRAPHIC(SSURGO) DATABASE FOR IBERVILLE PARISH.
- 3) HYDRIC SOIL DATA FROM THE USDA NRCS 2015 NATIONAL HYDRIC SOILS LIST.



## Baton Rouge Area Chamber

Baton Rouge, Louisiana

Claiborne Plantation Site

## Published Soils Map

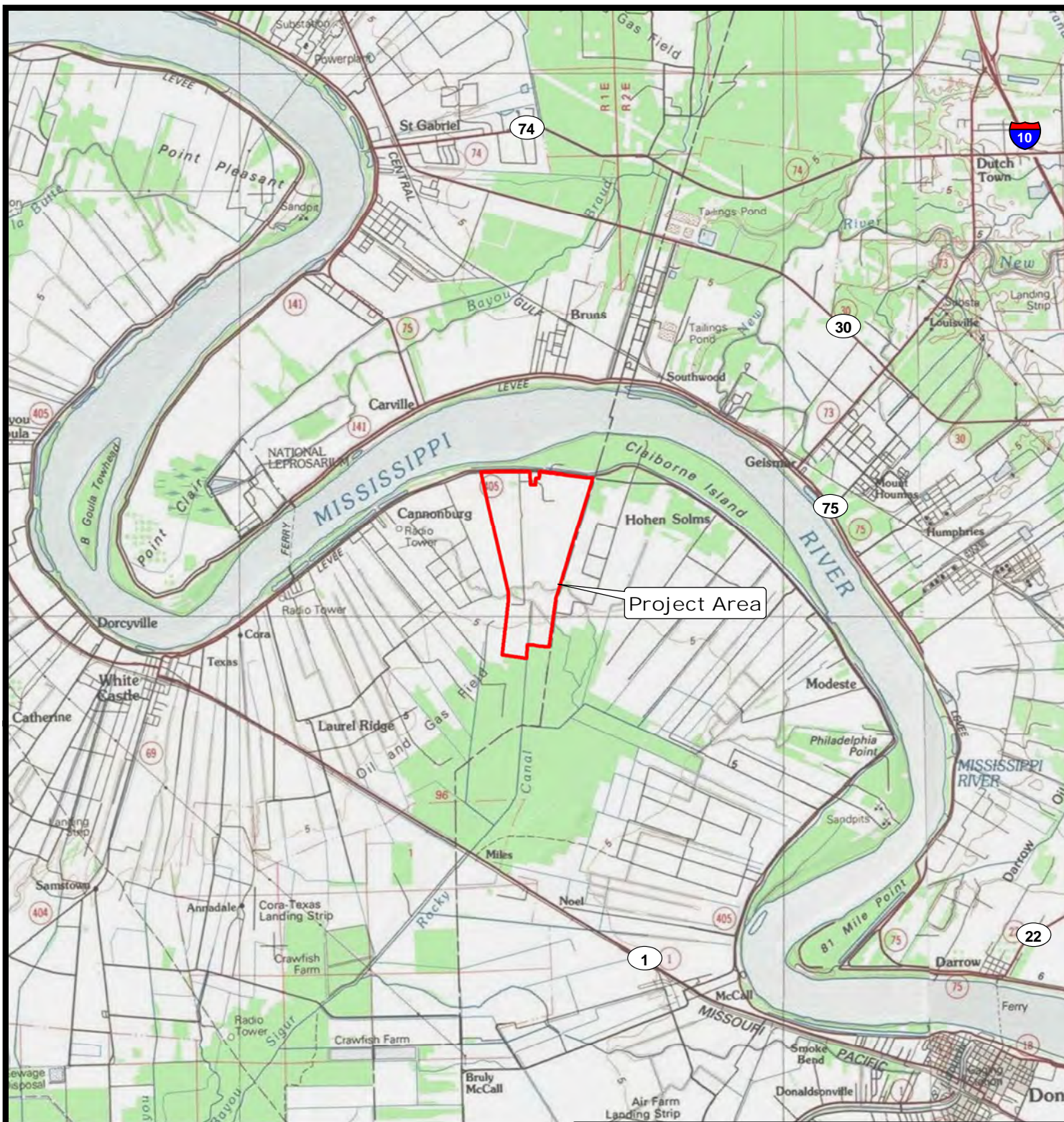
Iberville Parish



Drawn:	CPL/AM10.3
Checked:	CP
Approved:	TEW
Date:	01/22/2016
Dwg. No.:	A12667-04

## Figure 4

## **ATTACHMENT A**



Iberville Parish



0 1 2  
Miles

#### Reference

U.S.G.S. 100K SERIES QUAD MAP, BATON ROUGE, LA.



## Baton Rouge Area Chamber

Baton Rouge, Louisiana

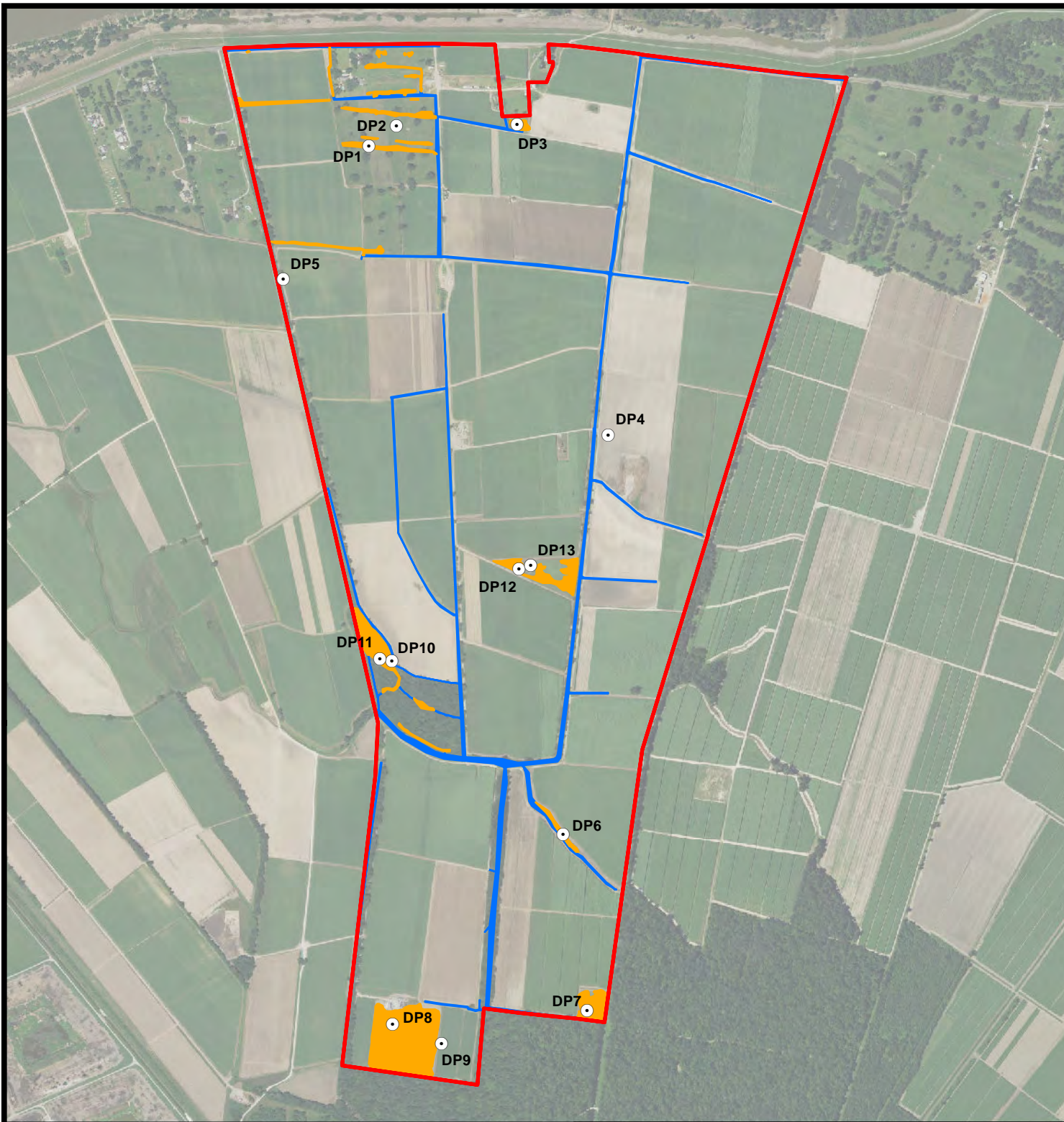
Claiborne Plantation Site

## Vicinity Map

Iberville Parish

Drawn:	CPL/AM10.3
Checked:	CP
Approved:	TEW
Date:	01/21/2016
Dwg. No.:	A12667-01

**Figure 1**



Data Point



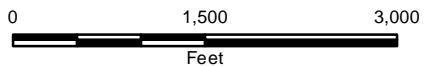
Project Area (1,039.4 acres)



Wetlands (24 acres)



Other Waters of the US (16.4 acres)



#### Reference

IMAGERY: NAIP 2015, IBERVILLE PARISH, LOUISIANA MOSAIC.



## Baton Rouge Area Chamber

Baton Rouge, Louisiana

Claiborne Plantation Site

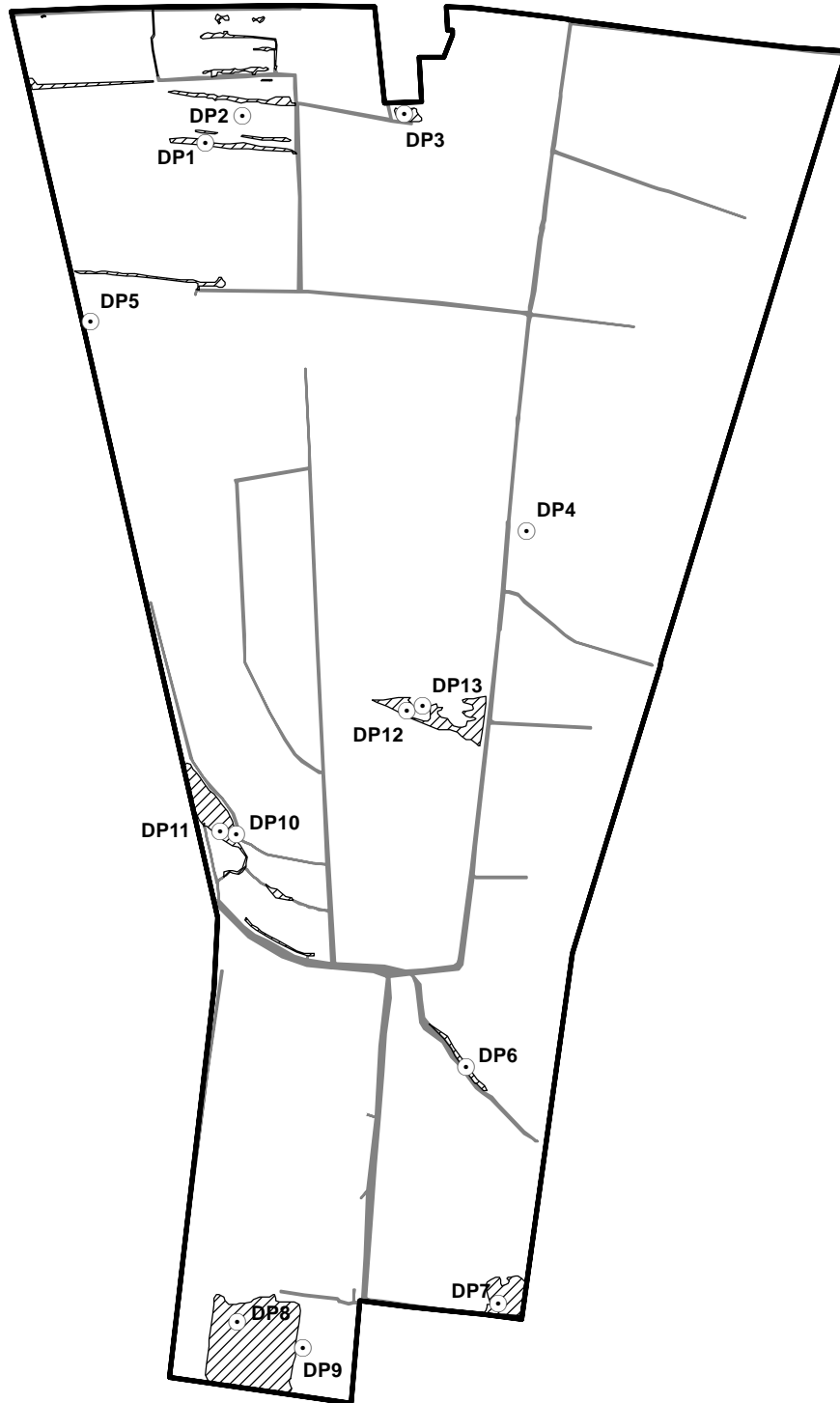
## Wetlands Map

Iberville Parish



Drawn:	CPL/AM10.3
Checked:	CP
Approved:	TEW
Date:	01/22/2016
Dwg. No.:	A12667-02

**Figure 2**



- Data Point
- Project Area (1,039.4 acres)
- ▨ Wetlands (24 acres)
- Other Waters of the US (16.4 acres)

0 1,500 3,000  
Feet



## Baton Rouge Area Chamber

Baton Rouge, Louisiana

Claiborne Plantation Site

## Wetlands Map

Iberville Parish



Drawn:	CPL/AM10.3
Checked:	CP
Approved:	TEW
Date:	01/22/2016
Dwg. No.:	A12667-03

**Figure 3**

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/18/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP1  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): concave Slope (%): 0  
Subregion (LRR or MLRA): LRR O Lat: 30°12'1.00"N Long: 91°4'44.94"W Datum: NAD83  
Soil Map Unit Name Cb: Cancienne silty clay loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>Yes</u>	<b>Is the Sampled Area within a Wetland? Yes</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>Yes</u>	
Remarks:	

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) <b>(LRR U)</b>	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" 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 on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Moss Trim Lines (B16)
<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 checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input checked="" 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 checked="" type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) <b>(LRR T, U)</b>

**Field Observations:**

Surface water present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>5-10</u>
Water table present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>
Saturation present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>

**Wetland  
Hydrology  
Present? Yes**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

FAC-Neutral Test: 2:0

**VEGETATION -- Use scientific names of plants.**

Sampling Point: DP1

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1	<i>Ranunculus sardous</i>	35	Y	FAC	
2	<i>Cyperus difformis</i>	25	Y	OBL	
3	<i>Panicum repens</i>	20	Y	FACW	
4					
5					
6					
7					
8					
9					
10					
11					
12					
		80	= Total Cover		
50% of total cover: 40		20% of total cover: 16			

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1					
2					
3					
4					
5					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	0
FAC species	x 3 =	0
FACU species	x 4 =	0
UPL species	x 5 =	0
Column totals	(A)	0 (B)

Prevalence Index = B/A =         

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☐ Prevalence index is ≤3.0\*

☐ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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**

Remarks: (If observed, list morphological adaptations below).

SOIL							Sampling Point: DP1	
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*	Loc**		
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.      **Location: PL = Pore Lining, M = Matrix								
Hydric Soil Indicators:					Indicators for Problematic Hydric Soils:			
<input type="checkbox"/> Histisol (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)			
<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 Mucky 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"/> Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)			
<input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)								
Restrictive Layer (if observed):								
Type: _____					Hydric Soil Present? <b>Yes</b>			
Depth (inches): _____								
Remarks:								
No soil profile taken due to inundation. Hydric soils were assumed due to observance of primary wetland hydrology indicators and prevalence of hydrophytic vegetation.								



**DP1 facing north taken 1/18/2016**



**DP1 facing east taken 1/18/2016**



**DP1 facing south taken 1/18/2016**



**DP1 facing west taken 1/18/2016**

## WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/18/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP2  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): convex Slope (%): 0  
Subregion (LRR or MLRA): LRR O Lat: 30°12'3.01"N Long: 91°4'41.38"W Datum: NAD83  
Soil Map Unit Name Cb: Cancienne silty clay loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>No</u>	<b>Is the Sampled Area within a Wetland? No</b>
Hydric soil present? <u>No</u>	
Indicators of wetland hydrology present? <u>No</u>	

Remarks:

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<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) ( <b>LRR U</b> )	<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 on Living	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) ( <b>LRR T, U</b> )

#### 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? No**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION -- Use scientific names of plants.**

Sampling Point: DP2

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1	<i>Lolium perenne</i>	95	Y	FACU	
2	<i>Sporobolus indicus</i>	10	N	FACU	
3	<i>Ranunculus sardous</i>	2	N	FAC	
4					
5					
6					
7					
8					
9					
10					
11					
12					
		107	= Total Cover		
50% of total cover: 53.5		20% of total cover: 21.4			

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species x 1 = 0

FACW species x 2 = 0

FAC species x 3 = 0

FACU species x 4 = 0

UPL species x 5 = 0

Column totals (A) 0 (B)

Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation

☐ Dominance test is >50%

☐ Prevalence index is ≤3.0\*

☐ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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?** **No**

Remarks: (If observed, list morphological adaptations below).

SOIL							Sampling Point: DP2	
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*	Loc**		
0-10	10YR 4/2	80					silty clay	
	10YR 5/3	20					silty clay	
10-16	10YR 5/2	60	10YR 5/8	1	C	M	clay	
	10YR 5/3	39					clay	
<div>*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.      **Location: PL = Pore Lining, M = Matrix</div>								
<div><div><div>Hydric Soil Indicators:</div><div><div><div><div><div><div></div></div><div>Histisol (A1)</div></div><div><div><div></div></div><div>Histic Epipedon (A2)</div></div><div><div><div></div></div><div>Black Histic (A3)</div></div><div><div><div></div></div><div>Hydrogen Sulfide (A4)</div></div><div><div><div></div></div><div>Stratified Layers (A5)</div></div><div><div><div></div></div><div>Organic Bodies (A6) (LRR P, T, U)</div></div><div><div><div></div></div><div>5 cm Mucky Mineral (A7) (LRR P, T, U)</div></div><div><div><div></div></div><div>Muck Presence (A8) (LRR U)</div></div><div><div><div></div></div><div>1 cm Muck (A9) (LRR P, T)</div></div><div><div><div></div></div><div>Depleted Below Dark Surface (A11)</div></div><div><div><div></div></div><div>Thick Dark Surface (A12)</div></div><div><div><div></div></div><div>Coast Prairie Redox (A16) (MLRA 150A)</div></div><div><div><div></div></div><div>Sandy Mucky Mineral (S1) (LRR O, S)</div></div><div><div><div></div></div><div>Sandy Gleyed Matrix (S4)</div></div><div><div><div></div></div><div>Sandy Redox (S5)</div></div><div><div><div></div></div><div>Stripped Matrix (S6)</div></div><div><div><div></div></div><div>Dark Surface (S7) (LRR P, S, T, U)</div></div></div><div><div><div></div></div><div>Polyvalue Below Surface (S8) (LRR S, T, U)</div></div><div><div><div></div></div><div>Thin Dark Surface (S9) (LRR S, T, U)</div></div><div><div><div></div></div><div>Loamy Mucky Mineral (F1)</div></div><div><div><div></div></div><div>Loamy Gleyed Matrix (F2)</div></div><div><div><div></div></div><div>Depleted Matrix (F3)</div></div><div><div><div></div></div><div>Redox Dark Surface (F6)</div></div><div><div><div></div></div><div>Depleted Dark Surface (F7)</div></div><div><div><div></div></div><div>Redox Depressions (F8)</div></div><div><div><div></div></div><div>Marl (F10) (LRR U)</div></div><div><div><div></div></div><div>Depleted Ochric (F11) (MLRA 151)</div></div><div><div><div></div></div><div>Iron-Manganese Masses (F12) (LRR O, P, T)</div></div><div><div><div></div></div><div>Umbric Surface (F13) (LRR P, T, U)</div></div><div><div><div></div></div><div>Delta Ochric (F17) (MLRA 151)</div></div><div><div><div></div></div><div>Reduced Vertic (F18) (MLRA 150A, 150B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (MLRA 149A)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div></div><div><div>Indicators for Problematic Hydric Soils:</div><div><div><div></div></div><div>1 cm Muck (A9) (LRR O)</div></div><div><div><div></div></div><div>2 cm Muck (A10) (LRR S)</div></div><div><div><div></div></div><div>Reduced Vertic(F18) (outside MLRA 150A,B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (LRR P, S, T)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 153B)</div></div><div><div><div></div></div><div>Red Parent Material (TF2)</div></div><div><div><div></div></div><div>Very Shallow Dark Surface (TF12)</div></div><div><div><div></div></div><div>Other (explain in remarks)</div></div></div><div><div>*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</div></div></div></div>								
<div>Restrictive Layer (if observed):</div> <div>Type: <div></div></div> <div>Depth (inches): <div></div></div>					<div>Hydric Soil Present?</div> <div>No</div>			
<div>Remarks:</div> <div></div>								



**DP2 facing north taken 1/18/2016**



**DP2 facing east taken 1/18/2016**



**DP2 facing south taken 1/18/2016**



**DP2 facing west taken 1/18/2016**



Soil profile at DP2 taken 1/18/2016

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/19/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP3  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): none Slope (%): 0  
Subregion (LRR or MLRA): LRR O Lat: 30°12'3.00"N Long: 91°4'26.49"W Datum: NAD83  
Soil Map Unit Name Cb: Cancienne silty clay loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>Yes</u>	<b>Is the Sampled Area within a Wetland? Yes</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>Yes</u>	

Remarks:

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<input checked="" 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) ( <b>LRR U</b> )	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Moss Trim Lines (B16)
<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) ( <b>LRR T, U</b> )

**Field Observations:**

Surface water present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>2-5</u>
Water table present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>

**Wetland  
Hydrology  
Present? Yes**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION -- Use scientific names of plants.**

Sampling Point: DP3

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1	<i>Echinochloa crus-galli</i>	50	Y	FACW	
2	<i>Panicum virgatum</i>	50	Y	FAC	
3	<i>Ranunculus sardous</i>	10	N	FAC	
4	<i>Persicaria pensylvanica</i>	5	N	FACW	
5	<i>Rumex crispus</i>	5	N	FAC	
6	<i>Setaria parviflora</i>	2	N	FACW	
7	<i>Cyperionia palustris</i>	1	N	FACW	
8					
9					
10					
11					
12					
		123	= Total Cover		
50% of total cover: 61.5		20% of total cover: 24.6			

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	0
FAC species	x 3 =	0
FACU species	x 4 =	0
UPL species	x 5 =	0
Column totals	(A)	0 (B)

Prevalence Index = B/A =         

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☐ Prevalence index is ≤3.0\*

☐ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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**

Remarks: (If observed, list morphological adaptations below).

SOIL							Sampling Point: DP3	
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*	Loc**		
0-4	7.5YR 4/1	100					silty clay	
4-16	7.5YR 4/1	80	7.5YR 4/4	15	C	M	clay	
			7.5YR 5/6	5	C	PL	clay	
<div>*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.      **Location: PL = Pore Lining, M = Matrix</div>								
<div><div><div>Hydric Soil Indicators:</div><div><div><div><div><div><div></div></div><div>Histisol (A1)</div></div><div><div><div></div></div><div>Histic Epipedon (A2)</div></div><div><div><div></div></div><div>Black Histic (A3)</div></div><div><div><div></div></div><div>Hydrogen Sulfide (A4)</div></div><div><div><div></div></div><div>Stratified Layers (A5)</div></div><div><div><div></div></div><div>Organic Bodies (A6) (LRR P, T, U)</div></div><div><div><div></div></div><div>5 cm Mucky Mineral (A7) (LRR P, T, U)</div></div><div><div><div></div></div><div>Muck Presence (A8) (LRR U)</div></div><div><div><div></div></div><div>1 cm Muck (A9) (LRR P, T)</div></div><div><div><div></div></div><div>Depleted Below Dark Surface (A11)</div></div><div><div><div></div></div><div>Thick Dark Surface (A12)</div></div><div><div><div></div></div><div>Coast Prairie Redox (A16) (MLRA 150A)</div></div><div><div><div></div></div><div>Sandy Mucky Mineral (S1) (LRR O, S)</div></div><div><div><div></div></div><div>Sandy Gleyed Matrix (S4)</div></div><div><div><div></div></div><div>Sandy Redox (S5)</div></div><div><div><div></div></div><div>Stripped Matrix (S6)</div></div><div><div><div></div></div><div>Dark Surface (S7) (LRR P, S, T, U)</div></div></div><div><div><div></div></div><div>Polyvalue Below Surface (S8) (LRR S, T, U)</div></div><div><div><div></div></div><div>Thin Dark Surface (S9) (LRR S, T, U)</div></div><div><div><div></div></div><div>Loamy Mucky Mineral (F1)</div></div><div><div><div></div></div><div>Loamy Gleyed Matrix (F2)</div></div><div><div><div></div></div><div>X Depleted Matrix (F3)</div></div><div><div><div></div></div><div>Redox Dark Surface (F6)</div></div><div><div><div></div></div><div>Depleted Dark Surface (F7)</div></div><div><div><div></div></div><div>Redox Depressions (F8)</div></div><div><div><div></div></div><div>Marl (F10) (LRR U)</div></div><div><div><div></div></div><div>Depleted Ochric (F11) (MLRA 151)</div></div><div><div><div></div></div><div>Iron-Manganese Masses (F12) (LRR O, P, T)</div></div><div><div><div></div></div><div>Umbric Surface (F13) (LRR P, T, U)</div></div><div><div><div></div></div><div>Delta Ochric (F17) (MLRA 151)</div></div><div><div><div></div></div><div>Reduced Vertic (F18) (MLRA 150A, 150B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (MLRA 149A)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div></div><div><div>Indicators for Problematic Hydric Soils:</div><div><div><div></div></div><div>1 cm Muck (A9) (LRR O)</div></div><div><div><div></div></div><div>2 cm Muck (A10) (LRR S)</div></div><div><div><div></div></div><div>Reduced Vertic(F18) (outside MLRA 150A,B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (LRR P, S, T)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 153B)</div></div><div><div><div></div></div><div>Red Parent Material (TF2)</div></div><div><div><div></div></div><div>Very Shallow Dark Surface (TF12)</div></div><div><div><div></div></div><div>Other (explain in remarks)</div></div></div><div><div>*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</div></div></div></div>								
<div>Restrictive Layer (if observed):</div> <div>Type: <div></div></div> <div>Depth (inches): <div></div></div>						<div>Hydric Soil Present?</div> <div>Yes</div>		
<div>Remarks:</div> <div></div>								



**DP3 facing north taken 1/19/2016**



**DP3 facing east taken 1/19/2016**



**DP3 facing south taken 1/19/2016**



**DP3 facing west taken 1/19/2016**



Soil profile at DP3 taken 1/19/2016

## WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/20/2016  
 Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP4  
 Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
 Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR or MLRA): LRR O Lat: 30°11'29.42"N Long: 91°4'15.81"W Datum: NAD83  
 Soil Map Unit Name Cb: Cancienne silty clay loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>No</u> Hydric soil present? <u>No</u> Indicators of wetland hydrology present? <u>No</u>	<b>Is the Sampled Area within a Wetland?    No</b>
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Remarks:

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <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) <input type="checkbox"/> Marl Deposits (B15) ( <b>LRR U</b> ) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Moss Trim Lines (B16) <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 type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) ( <b>LRR T, U</b> )
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#### 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? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): _____

**Wetland  
Hydrology  
Present?    No**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION** -- Use scientific names of plants.

Sampling Point: DP4

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	<b>Dominance Test Worksheet</b>	
1					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)	
2					Total Number of Dominant Species Across all Strata: 1 (B)	
3					Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)	
4						
5						
6						
7						
8						
		0 = Total Cover				
50% of total cover: 0		20% of total cover: 0				
<b>Sapling/Shrub Stratum</b> (Plot size: 30 feet)					<b>Prevalence Index Worksheet</b>	
1					Total % Cover of:	
2					OBL species x 1 = 0	
3					FACW species x 2 = 0	
4					FAC species x 3 = 0	
5					FACU species x 4 = 0	
6					UPL species x 5 = 0	
7					Column totals (A) 0 (B)	
8					Prevalence Index = B/A =	
		0 = Total Cover				
50% of total cover: 0		20% of total cover: 0				
<b>Herb stratum</b> (Plot size: 30 feet)					<b>Hydrophytic Vegetation Indicators:</b>	
1	<i>Saccharum officinarum</i>	65	Y	FACU	Rapid test for hydrophytic vegetation	
2	<i>Cyperus odoratus</i>	5	N	FACW	Dominance test is >50%	
3					Prevalence index is ≤3.0*	
4					Problematic hydrophytic vegetation* (explain)	
5					*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
6					<b>Definitions of Four Vegetation Strata</b>	
7					<b>Tree-</b> Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) DBH.	
8					<b>Sapling/Shrub -</b> Woody plants, excluding vines, less than 3 in. DBH and greater than 3.26 ft (1m) tall	
9					<b>Herb -</b> 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.	
10					<b>Woody vine -</b> All woody vines, regardless of height.	
11						
12						
		70 = Total Cover				
50% of total cover: 35		20% of total cover: 14				
<b>Woody vine stratum</b> (Plot size: 30 feet)					<b>Hydrophytic Vegetation Present? No</b>	
1						
2						
3						
4						
5						
		0 = Total Cover				
50% of total cover: 0		20% of total cover: 0				

Remarks: (If observed, list morphological adaptations below).

DP4 located in active agriculture field.

SOIL			Sampling Point: DP4					
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*	Loc**		
0-8	10YR 4/2	100					silty clay	
8-16	10YR 4/2	60					clay	
	10YR 4/1	40					clay	
<div>*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.      **Location: PL = Pore Lining, M = Matrix</div>								
<div><div><div>Hydric Soil Indicators:</div><div><div><div><div><div><div></div></div><div>Histisol (A1)</div></div><div><div><div></div></div><div>Histic Epipedon (A2)</div></div><div><div><div></div></div><div>Black Histic (A3)</div></div><div><div><div></div></div><div>Hydrogen Sulfide (A4)</div></div><div><div><div></div></div><div>Stratified Layers (A5)</div></div><div><div><div></div></div><div>Organic Bodies (A6) (LRR P, T, U)</div></div><div><div><div></div></div><div>5 cm Mucky Mineral (A7) (LRR P, T, U)</div></div><div><div><div></div></div><div>Muck Presence (A8) (LRR U)</div></div><div><div><div></div></div><div>1 cm Muck (A9) (LRR P, T)</div></div><div><div><div></div></div><div>Depleted Below Dark Surface (A11)</div></div><div><div><div></div></div><div>Thick Dark Surface (A12)</div></div><div><div><div></div></div><div>Coast Prairie Redox (A16) (MLRA 150A)</div></div><div><div><div></div></div><div>Sandy Mucky Mineral (S1) (LRR O, S)</div></div><div><div><div></div></div><div>Sandy Gleyed Matrix (S4)</div></div><div><div><div></div></div><div>Sandy Redox (S5)</div></div><div><div><div></div></div><div>Stripped Matrix (S6)</div></div><div><div><div></div></div><div>Dark Surface (S7) (LRR P, S, T, U)</div></div></div><div><div><div></div></div><div>Polyvalue Below Surface (S8) (LRR S, T, U)</div></div><div><div><div></div></div><div>Thin Dark Surface (S9) (LRR S, T, U)</div></div><div><div><div></div></div><div>Loamy Mucky Mineral (F1)</div></div><div><div><div></div></div><div>Loamy Gleyed Matrix (F2)</div></div><div><div><div></div></div><div>Depleted Matrix (F3)</div></div><div><div><div></div></div><div>Redox Dark Surface (F6)</div></div><div><div><div></div></div><div>Depleted Dark Surface (F7)</div></div><div><div><div></div></div><div>Redox Depressions (F8)</div></div><div><div><div></div></div><div>Marl (F10) (LRR U)</div></div><div><div><div></div></div><div>Depleted Ochric (F11) (MLRA 151)</div></div><div><div><div></div></div><div>Iron-Manganese Masses (F12) (LRR O, P, T)</div></div><div><div><div></div></div><div>Umbric Surface (F13) (LRR P, T, U)</div></div><div><div><div></div></div><div>Delta Ochric (F17) (MLRA 151)</div></div><div><div><div></div></div><div>Reduced Vertic (F18) (MLRA 150A, 150B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (MLRA 149A)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div></div><div><div>Indicators for Problematic Hydric Soils:</div><div><div><div></div></div><div>1 cm Muck (A9) (LRR O)</div></div><div><div><div></div></div><div>2 cm Muck (A10) (LRR S)</div></div><div><div><div></div></div><div>Reduced Vertic(F18) (outside MLRA 150A,B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (LRR P, S, T)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 153B)</div></div><div><div><div></div></div><div>Red Parent Material (TF2)</div></div><div><div><div></div></div><div>Very Shallow Dark Surface (TF12)</div></div><div><div><div></div></div><div>Other (explain in remarks)</div></div></div><div><div>*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</div></div></div></div>								
<div>Restrictive Layer (if observed):</div> <div>Type: <div></div></div> <div>Depth (inches): <div></div></div>					<div>Hydric Soil Present?</div> <div>No</div>			
<div>Remarks:</div> <div></div>								



**DP4 facing north taken 1/20/2016**



**DP4 facing east taken 1/20/2016**



**DP4 facing south taken 1/20/2016**



**DP4 facing west taken 1/20/2016**



Soil profile at DP4 taken 1/20/2016

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/20/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP5  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): none Slope (%): 0  
Subregion (LRR or MLRA): LRR O Lat: 30°11'46.76"N Long: 91°4'55.70"W Datum: NAD83  
Soil Map Unit Name Cb: Cancienne silty clay loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>No</u>	<b>Is the Sampled Area within a Wetland? No</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>Yes</u>	

Remarks:

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<input checked="" 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) ( <b>LRR U</b> )	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" 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 on Living	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) ( <b>LRR T, U</b> )

**Field Observations:**

Surface water present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>1-3</u>
Water table present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>

(includes capillary fringe)

**Wetland  
Hydrology  
Present? Yes**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION -- Use scientific names of plants.**

Sampling Point: DP5

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1	<i>Cyperus rotundus</i>	15	Y	FAC	
2	<i>Sonchus asper</i>	15	Y	FACU	
3	<i>Ranunculus sardous</i>	5	N	FAC	
4	<i>Cardamine hirsuta</i>	5	N	FACU	
5	<i>Amaranthus viridis</i>	5	N	FAC	
6	<i>Trifolium repens</i>	5	N	FACU	
7	<i>Ipomoea cordatotriloba</i>	2	N	FACU	
8	<i>Equisetum hyemale</i>	2	N	FACW	
9	<i>Geranium carolinianum</i>	2	N	UPL	
10					
11					
12					
		56	= Total Cover		
50% of total cover: 28		20% of total cover: 11.2			

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across all Strata: 2 (B)  
 Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:  
 OBL species 0 x 1 = 0  
 FACW species 2 x 2 = 4  
 FAC species 25 x 3 = 75  
 FACU species 22 x 4 = 88  
 UPL species 2 x 5 = 10  
 Column totals 51 (A) 177 (B)  
 Prevalence Index = B/A = 3.47

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation  
☐ Dominance test is >50%  
☐ Prevalence index is ≤3.0\*  
☐ Problematic hydrophytic vegetation\* (explain)  
 \*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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? **No**

Remarks: (If observed, list morphological adaptations below).

<b>SOIL</b>	Sampling Point: DP5
-------------	---------------------

Sampling Point: DP5

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

[illegible]

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

\*\*Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils:
<ul style="list-style-type: none"> <li>1. Soil Color: Mottled or gleyed colors (e.g., 10YR 5/1, 10YR 4/1) indicating waterlogging.</li> <li>2. Soil Structure: Poor structure, often with platy or massive profiles.</li> <li>3. Soil Moisture: Persistent saturation or high water table.</li> <li>4. Soil pH: Often acidic or neutral, but can vary.</li> <li>5. Soil Temperature: Often cooler than surrounding soils.</li> <li>6. Soil Odor: Sulfur or other odors indicating anaerobic conditions.</li> <li>7. Soil Profile: Often shows distinct horizons (e.g., A, B, C) with specific characteristics.</li> <li>8. Soil Texture: Often silty or clayey.</li> <li>9. Soil Depth: Often shallow, with a high water table.</li> <li>10. Soil Use: Often used for agriculture or forestry.</li> </ul>	<ul style="list-style-type: none"> <li>1. Soil Color: Darker colors (e.g., 10YR 2/1, 10YR 3/1) indicating waterlogging.</li> <li>2. Soil Structure: Poor structure, often with platy or massive profiles.</li> <li>3. Soil Moisture: Persistent saturation or high water table.</li> <li>4. Soil pH: Often acidic or neutral, but can vary.</li> <li>5. Soil Temperature: Often cooler than surrounding soils.</li> <li>6. Soil Odor: Sulfur or other odors indicating anaerobic conditions.</li> <li>7. Soil Profile: Often shows distinct horizons (e.g., A, B, C) with specific characteristics.</li> <li>8. Soil Texture: Often silty or clayey.</li> <li>9. Soil Depth: Often shallow, with a high water table.</li> <li>10. Soil Use: Often used for agriculture or forestry.</li> </ul>

### Indicators for Problematic Hydric Soils:

<input type="checkbox"/> Histisol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) <b>(LRR S, T, U)</b>	<input type="checkbox"/> 1 cm Muck (A9) <b>(LRR O)</b>
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) <b>(LRR S, T, U)</b>	<input type="checkbox"/> 2 cm Muck (A10) <b>(LRR S)</b>
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic(F18) <b>(outside MLRA 150A,B)</b>
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(LRR P, S, T)</b>
<input type="checkbox"/> Stratified Layers (A5)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Anomolous Bright Loamy Soils (F20) <b>(MLRA 153B)</b>
<input type="checkbox"/> Organic Bodies (A6) <b>(LRR P, T, U)</b>	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> 5 cm Mucky Mineral (A7) <b>(LRR P, T, U)</b>	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Muck Presence (A8) <b>(LRR U)</b>	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Other (explain in remarks)
<input type="checkbox"/> 1 cm Muck (A9) <b>(LRR P, T)</b>	<input type="checkbox"/> Marl (F10) <b>(LRR U)</b>	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Ochric (F11) <b>(MLRA 151)</b>	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Iron-Manganese Masses (F12) <b>(LRR O, P, T)</b>	
<input type="checkbox"/> Coast Prairie Redox (A16) <b>(MLRA 150A)</b>	<input type="checkbox"/> Umbric Surface (F13) <b>(LRR P, T, U)</b>	
<input type="checkbox"/> Sandy Mucky Mineral (S1) <b>(LRR O, S)</b>	<input type="checkbox"/> Delta Ochric (F17) <b>(MLRA 151)</b>	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Reduced Vertic (F18) <b>(MLRA 150A, 150B)</b>	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(MLRA 149A)</b>	
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Anomolous Bright Loamy Soils (F20) <b>(MLRA 149A, 153C, 153D)</b>	
<input type="checkbox"/> Dark Surface (S7) <b>(LRR P, S, T, U)</b>		

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):	
----------------------------------	--

Type: _____	Hydric Soil Present?	Yes
Depth (inches): _____		

Hydric Soil Present?	Yes
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Remarks:



**DP5 facing north taken 1/20/2016**



**DP5 facing east taken 1/20/2016**



**DP5 facing south taken 1/20/2016**



**DP5 facing west taken 1/20/2016**



Soil profile at DP5 taken 1/20/2016

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/19/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP6  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 67, Township 10 S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): concave Slope (%): 2  
Subregion (LRR or MLRA): LRR O Lat: 30°10'46.425"N Long: 91°4'22.089"W Datum: NAD83  
Soil Map Unit Name Ca: Cancienne silt loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>Yes</u>	<b>Is the Sampled Area within a Wetland? Yes</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>Yes</u>	
Remarks:	

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

<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) <b>(LRR U)</b>	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" 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 on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Moss Trim Lines (B16)
<input checked="" 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 checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) <b>(LRR T, U)</b>

**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? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>

**Wetland  
Hydrology  
Present? Yes**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

FAC-Neutral Test: 1:0

**VEGETATION -- Use scientific names of plants.**

Sampling Point: DP6

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1	<i>Verbena incompta</i>	10	Y	FACW	
2	<i>Rubus argutus</i>	10	Y	FAC	
3	<i>Sorghum halepense</i>	5	N	FACU	
4	<i>Rumex crispus</i>	5	N	FAC	
5					
6					
7					
8					
9					
10					
11					
12					
		30	= Total Cover		
50% of total cover: 15		20% of total cover: 6			

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across all Strata: 2 (B)  
 Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:  
 OBL species        x 1 = 0  
 FACW species        x 2 = 0  
 FAC species        x 3 = 0  
 FACU species        x 4 = 0  
 UPL species        x 5 = 0  
 Column totals        (A) 0 (B)  
 Prevalence Index = B/A =       

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation  
☒ Dominance test is >50%  
☐ Prevalence index is ≤3.0\*  
☐ Problematic hydrophytic vegetation\* (explain)  
 \*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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**

Remarks: (If observed, list morphological adaptations below).

SOIL							Sampling Point: DP6	
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*	Loc**		
0-6	10YR 4/2	100					Clay	
6-10	10YR 4/1	90	10YR 3/6	10	C	M	Clay	
10-16	7.5YR 4/1	75	7.5YR 4/6	25	C	M	Clay	
<div>*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.      **Location: PL = Pore Lining, M = Matrix</div>								
<div><div><div>Hydric Soil Indicators:</div><div><div><div><div><div><div></div></div><div>Histisol (A1)</div></div><div><div><div></div></div><div>Histic Epipedon (A2)</div></div><div><div><div></div></div><div>Black Histic (A3)</div></div><div><div><div></div></div><div>Hydrogen Sulfide (A4)</div></div><div><div><div></div></div><div>Stratified Layers (A5)</div></div><div><div><div></div></div><div>Organic Bodies (A6) (LRR P, T, U)</div></div><div><div><div></div></div><div>5 cm Mucky Mineral (A7) (LRR P, T, U)</div></div><div><div><div></div></div><div>Muck Presence (A8) (LRR U)</div></div><div><div><div></div></div><div>1 cm Muck (A9) (LRR P, T)</div></div><div><div><div></div></div><div>Depleted Below Dark Surface (A11)</div></div><div><div><div></div></div><div>Thick Dark Surface (A12)</div></div><div><div><div></div></div><div>Coast Prairie Redox (A16) (MLRA 150A)</div></div><div><div><div></div></div><div>Sandy Mucky Mineral (S1) (LRR O, S)</div></div><div><div><div></div></div><div>Sandy Gleyed Matrix (S4)</div></div><div><div><div></div></div><div>Sandy Redox (S5)</div></div><div><div><div></div></div><div>Stripped Matrix (S6)</div></div><div><div><div></div></div><div>Dark Surface (S7) (LRR P, S, T, U)</div></div></div><div><div><div></div></div><div>Polyvalue Below Surface (S8) (LRR S, T, U)</div></div><div><div><div></div></div><div>Thin Dark Surface (S9) (LRR S, T, U)</div></div><div><div><div></div></div><div>Loamy Mucky Mineral (F1)</div></div><div><div><div></div></div><div>Loamy Gleyed Matrix (F2)</div></div><div><div><div></div></div><div>X Depleted Matrix (F3)</div></div><div><div><div></div></div><div>Redox Dark Surface (F6)</div></div><div><div><div></div></div><div>Depleted Dark Surface (F7)</div></div><div><div><div></div></div><div>Redox Depressions (F8)</div></div><div><div><div></div></div><div>Marl (F10) (LRR U)</div></div><div><div><div></div></div><div>Depleted Ochric (F11) (MLRA 151)</div></div><div><div><div></div></div><div>Iron-Manganese Masses (F12) (LRR O, P, T)</div></div><div><div><div></div></div><div>Umbric Surface (F13) (LRR P, T, U)</div></div><div><div><div></div></div><div>Delta Ochric (F17) (MLRA 151)</div></div><div><div><div></div></div><div>Reduced Vertic (F18) (MLRA 150A, 150B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (MLRA 149A)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div></div><div><div>Indicators for Problematic Hydric Soils:</div><div><div><div></div></div><div>1 cm Muck (A9) (LRR O)</div></div><div><div><div></div></div><div>2 cm Muck (A10) (LRR S)</div></div><div><div><div></div></div><div>Reduced Vertic(F18) (outside MLRA 150A,B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (LRR P, S, T)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 153B)</div></div><div><div><div></div></div><div>Red Parent Material (TF2)</div></div><div><div><div></div></div><div>Very Shallow Dark Surface (TF12)</div></div><div><div><div></div></div><div>Other (explain in remarks)</div></div></div><div><div>*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</div></div></div></div>								
<div>Restrictive Layer (if observed):</div> <div>Type: <div></div></div> <div>Depth (inches): <div></div></div>						<div>Hydric Soil Present?</div> <div>Yes</div>		
<div>Remarks:</div> <div></div>								



**DP6 facing north taken 1/19/2016**



**DP6 facing east taken 1/19/2016**



**DP6 facing south taken 1/19/2016**



**DP6 facing west taken 1/19/2016**



Soil profile at DP6 taken 1/19/2016

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/19/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP7  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 65, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): none Slope (%): 0  
Subregion (LRR or MLRA): LRR O Lat: 30°10'27.509"N Long: 91°4'19.757"W Datum: NAD83  
Soil Map Unit Name Cb: Cancienne silty clay loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>Yes</u>	<b>Is the Sampled Area within a Wetland? Yes</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>Yes</u>	

Remarks:

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) <b>(LRR U)</b>	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Moss Trim Lines (B16)
<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 checked="" type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) <b>(LRR T, U)</b>

**Field Observations:**

Surface water present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>1-2</u>
Water table present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>8</u>
Saturation present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>

**Wetland  
Hydrology  
Present? Yes**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

FAC-Neutral Test: 3:0

**VEGETATION -- Use scientific names of plants.**

Sampling Point: DP7

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1	<i>Sesbania herbacea</i>	5	Y	FACW	
2					
3					
4					
5					
6					
7					
8					
		5	= Total Cover		
50% of total cover: 2.5		20% of total cover: 1			

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1	<i>Ludwigia palustris</i>	40	Y	OBL	
2	<i>Eleocharis obtusa</i>	15	Y	OBL	
3	<i>Rumex crispus</i>	10	N	FAC	
4	<i>Ranunculus sardous</i>	10	N	FAC	
5	<i>Acmella repens</i>	5	N	FACW	
6	<i>Cyperus odoratus</i>	2	N	FACW	
7	<i>Juncus effusus</i>	2	N	OBL	
8					
9					
10					
11					
12					
		84	= Total Cover		
50% of total cover: 42		20% of total cover: 16.8			

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1					
2					
3					
4					
5					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	x 1 =	<u>0</u>
FACW species	x 2 =	<u>0</u>
FAC species	x 3 =	<u>0</u>
FACU species	x 4 =	<u>0</u>
UPL species	x 5 =	<u>0</u>
Column totals	(A)	<u>0</u> (B)

Prevalence Index = B/A =         

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☐ Prevalence index is ≤3.0\*

☐ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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**

Remarks: (If observed, list morphological adaptations below).

SOIL			Sampling Point: DP7																																			
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*	Loc**																																
0-16	10YR 5/1	85	10YR 4/6	15	C	M	Clay																															
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.			**Location: PL = Pore Lining, M = Matrix																																			
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils:																																			
<div><div><div><div><div></div><div>Histisol (A1)</div></div><div><div></div><div>Histic Epipedon (A2)</div></div><div><div></div><div>Black Histic (A3)</div></div><div><div></div><div>Hydrogen Sulfide (A4)</div></div><div><div></div><div>Stratified Layers (A5)</div></div><div><div></div><div>Organic Bodies (A6) (LRR P, T, U)</div></div><div><div></div><div>5 cm Mucky Mineral (A7) (LRR P, T, U)</div></div><div><div></div><div>Muck Presence (A8) (LRR U)</div></div><div><div></div><div>1 cm Muck (A9) (LRR P, T)</div></div><div><div></div><div>Depleted Below Dark Surface (A11)</div></div><div><div></div><div>Thick Dark Surface (A12)</div></div><div><div></div><div>Coast Prairie Redox (A16) (MLRA 150A)</div></div><div><div></div><div>Sandy Mucky Mineral (S1) (LRR O, S)</div></div><div><div></div><div>Sandy Gleyed Matrix (S4)</div></div><div><div></div><div>Sandy Redox (S5)</div></div><div><div></div><div>Stripped Matrix (S6)</div></div><div><div></div><div>Dark Surface (S7) (LRR P, S, T, U)</div></div></div><div><div><div></div><div>Polyvalue Below Surface (S8) (LRR S, T, U)</div></div><div><div></div><div>Thin Dark Surface (S9) (LRR S, T, U)</div></div><div><div></div><div>Loamy Mucky Mineral (F1)</div></div><div><div></div><div>Loamy Gleyed Matrix (F2)</div></div><div><div>X</div><div>Depleted Matrix (F3)</div></div><div><div></div><div>Redox Dark Surface (F6)</div></div><div><div></div><div>Depleted Dark Surface (F7)</div></div><div><div></div><div>Redox Depressions (F8)</div></div><div><div></div><div>Marl (F10) (LRR U)</div></div><div><div></div><div>Depleted Ochric (F11) (MLRA 151)</div></div><div><div></div><div>Iron-Manganese Masses (F12) (LRR O, P, T)</div></div><div><div></div><div>Umbric Surface (F13) (LRR P, T, U)</div></div><div><div></div><div>Delta Ochric (F17) (MLRA 151)</div></div><div><div></div><div>Reduced Vertic (F18) (MLRA 150A, 150B)</div></div><div><div></div><div>Piedmont Floodplain Soils (F19) (MLRA 149A)</div></div><div><div></div><div>Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div></div><div><div><div></div><div>1 cm Muck (A9) (LRR O)</div></div><div><div></div><div>2 cm Muck (A10) (LRR S)</div></div><div><div></div><div>Reduced Vertic(F18) (outside MLRA 150A,B)</div></div><div><div></div><div>Piedmont Floodplain Soils (F19) (LRR P, S, T)</div></div><div><div></div><div>Anomalous Bright Loamy Soils (F20) (MLRA 153B)</div></div><div><div></div><div>Red Parent Material (TF2)</div></div><div><div></div><div>Very Shallow Dark Surface (TF12)</div></div><div><div></div><div>Other (explain in remarks)</div></div></div><div><div><div></div><div>*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</div></div></div></div> <tr><td colspan="3">Restrictive Layer (if observed):</td><td colspan="6">Hydric Soil Present? Yes</td></tr> <tr><td colspan="3">Type: _____ Depth (inches): _____</td><td colspan="6"></td></tr> <tr><td colspan="9">Remarks:</td></tr> <tr><td colspan="9"></td></tr>			Restrictive Layer (if observed):			Hydric Soil Present? Yes						Type: _____ Depth (inches): _____									Remarks:																	
Restrictive Layer (if observed):			Hydric Soil Present? Yes																																			
Type: _____ Depth (inches): _____																																						
Remarks:																																						



**DP7 facing north taken 1/19/2016**



**DP7 facing east taken 1/19/2016**



**DP7 facing south taken 1/19/2016**



**DP7 facing west taken 1/19/2016**



Soil profile DP7 taken 1/19/2016

## WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/19/2016  
 Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP8  
 Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 68, Township 10S, Range 14E  
 Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR or MLRA): LRR O Lat: 30°10'26.501"N Long: 91°4'43.562"W Datum: NAD83  
 Soil Map Unit Name Cb: Cancienne silty clay loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>Yes</u> Hydric soil present? <u>Yes</u> Indicators of wetland hydrology present? <u>Yes</u>	<b>Is the Sampled Area within a Wetland?    Yes</b>
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Remarks:

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <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) <input type="checkbox"/> Marl Deposits (B15) <b>(LRR U)</b> <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Moss Trim Lines (B16) <input checked="" 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) <b>(LRR T, U)</b>
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#### Field Observations:

Surface water present?	Yes	<u>X</u>	No		Depth (inches):	<u>1</u>
Water table present?	Yes	<u>X</u>	No		Depth (inches):	<u>8</u>
Saturation present? (includes capillary fringe)	Yes	<u>X</u>	No		Depth (inches):	<u>0</u>

**Wetland  
Hydrology  
Present?    Yes**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

FAC-Neutral Test: 1:0

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1	<i>Echinochloa crus-galli</i>	35	Y	FACW	
2	<i>Cyperus rotundus</i>	15	Y	FAC	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
		50	= Total Cover		
50% of total cover: 25		20% of total cover: 10			

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	
1					
2					
3					
4					
5					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	0
FAC species	x 3 =	0
FACU species	x 4 =	0
UPL species	x 5 =	0
Column totals	(A)	0 (B)

Prevalence Index = B/A =         

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☐ Prevalence index is ≤3.0\*

☐ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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**

Remarks: (If observed, list morphological adaptations below).

<b>SOIL</b>	Sampling Point: DP8
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Sampling Point: DP8

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

[illegible]

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

\*\*Location: PL = Pore Lining, M = Matrix

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils:
<ul style="list-style-type: none"> <li>1. Soil Color: Mottled or gleyed colors (e.g., 10YR 5/1, 10YR 4/1) indicating waterlogging.</li> <li>2. Soil Structure: Poor structure, often with platy or massive profiles.</li> <li>3. Soil Moisture: Persistent saturation or high water table.</li> <li>4. Soil pH: Often acidic or neutral, but can vary.</li> <li>5. Soil Temperature: Often cooler than surrounding soils.</li> <li>6. Soil Odor: Sulfur or hydrogen sulfide (H<sub>2</sub>S) odor, indicating anaerobic conditions.</li> <li>7. Soil Hardness: Often soft or spongy when wet.</li> <li>8. Soil Drainage: Poor drainage, leading to waterlogging.</li> <li>9. Soil Depth: Hydric conditions often persist to significant depths.</li> <li>10. Soil Profile: Often shows distinct horizons (e.g., A, B, C) with specific characteristics.</li> </ul>	<ul style="list-style-type: none"> <li>1. Soil Color: Darker colors (e.g., 10YR 2/1, 10YR 3/1) indicating organic matter accumulation.</li> <li>2. Soil Structure: Poor structure, often with platy or massive profiles.</li> <li>3. Soil Moisture: Persistent saturation or high water table.</li> <li>4. Soil pH: Often acidic or neutral, but can vary.</li> <li>5. Soil Temperature: Often cooler than surrounding soils.</li> <li>6. Soil Odor: Sulfur or hydrogen sulfide (H<sub>2</sub>S) odor, indicating anaerobic conditions.</li> <li>7. Soil Hardness: Often soft or spongy when wet.</li> <li>8. Soil Drainage: Poor drainage, leading to waterlogging.</li> <li>9. Soil Depth: Hydric conditions often persist to significant depths.</li> <li>10. Soil Profile: Often shows distinct horizons (e.g., A, B, C) with specific characteristics.</li> </ul>

### Indicators for Problematic Hydric Soils:

- ☐ Histisol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Organic Bodies (A6) **(LRR P, T, U)**
- ☐ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ☐ Muck Presence (A8) **(LRR U)**
- ☐ 1 cm Muck (A9) **(LRR P, T)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16) **(MLRA 150A)**
- ☐ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) **(LRR P, S, T, U)**

___	Polyvalue Below Surface (S8) ( <b>LRR S, T, U</b> )	___
___	Thin Dark Surface (S9) ( <b>LRR S, T, U</b> )	___
___	Loamy Mucky Mineral (F1)	___
___	Loamy Gleyed Matrix (F2)	___
X	Depleted Matrix (F3)	___
___	Redox Dark Surface (F6)	___
___	Depleted Dark Surface (F7)	___
___	Redox Depressions (F8)	___
___	Marl (F10) ( <b>LRR U</b> )	___
___	Depleted Ochric (F11) ( <b>MLRA 151</b> )	___
___	Iron-Manganese Masses (F12) ( <b>LRR O, P, T</b> )	___
A)	Umbric Surface (F13) ( <b>LRR P, T, U</b> )	___
___	Delta Ochric (F17) ( <b>MLRA 151</b> )	___
___	Reduced Vertic (F18) ( <b>MLRA 150A, 150B</b> )	___
___	Piedmont Floodplain Soils (F19) ( <b>MLRA 149A</b> )	___
___	Anomalous Bright Loamy Soils (F20) ( <b>MLRA</b>	___

☐ 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)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):	
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Type: _____	Hydric Soil Present?	Yes
Depth (inches): _____		

Hydric Soil Present?	Yes
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Remarks:



**DP8 facing north taken 1/19/2016**



**DP8 facing east taken 1/19/2016**



**DP8 facing south taken 1/19/2016**



**DP8 facing west taken 1/19/2016**



Soil profile at DP8 taken 1/19/2016

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/19/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP9  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 68, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): none Slope (%): 0  
Subregion (LRR or MLRA): LRR O Lat: 30°10'24.401"N Long: 91°4'37.635"W Datum: NAD83  
Soil Map Unit Name Cb: Cancienne silty clay loam, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>No</u>	<b>Is the Sampled Area within a Wetland? No</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>No</u>	

Remarks:

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<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) ( <b>LRR U</b> )	<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 on Living	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) ( <b>LRR T, U</b> )

**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? No**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION** -- Use scientific names of plants.

Sampling Point: DP9

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Sapling/Shrub Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1					
2					
3					
4					
5					
6					
7					
8					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

Herb stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1	<i>Saccharum officinarum</i>	15	Y	FACU	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
		15	= Total Cover		
50% of total cover: 7.5		20% of total cover: 3			

Woody vine stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Status	
1					
2					
3					
4					
5					
		0	= Total Cover		
50% of total cover: 0		20% of total cover: 0			

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species x 1 = 0

FACW species x 2 = 0

FAC species x 3 = 0

FACU species x 4 = 0

UPL species x 5 = 0

Column totals (A) 0 (B)

Prevalence Index = B/A =

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation

☐ Dominance test is >50%

☐ Prevalence index is ≤3.0\*

☐ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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?** **No**

Remarks: (If observed, list morphological adaptations below).

SOIL			Sampling Point: DP9					
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*	Loc**		
0-8	10YR 4/2	100					Silt loam	
8-16	10YR 4/2	95	10YR 5/6	5	C	M	Clay	
<div>*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.      **Location: PL = Pore Lining, M = Matrix</div>								
<div><div><div>Hydric Soil Indicators:</div><div><div><div><div><div><div></div></div><div>Histisol (A1)</div></div><div><div><div></div></div><div>Histic Epipedon (A2)</div></div><div><div><div></div></div><div>Black Histic (A3)</div></div><div><div><div></div></div><div>Hydrogen Sulfide (A4)</div></div><div><div><div></div></div><div>Stratified Layers (A5)</div></div><div><div><div></div></div><div>Organic Bodies (A6) (LRR P, T, U)</div></div><div><div><div></div></div><div>5 cm Mucky Mineral (A7) (LRR P, T, U)</div></div><div><div><div></div></div><div>Muck Presence (A8) (LRR U)</div></div><div><div><div></div></div><div>1 cm Muck (A9) (LRR P, T)</div></div><div><div><div></div></div><div>Depleted Below Dark Surface (A11)</div></div><div><div><div></div></div><div>Thick Dark Surface (A12)</div></div><div><div><div></div></div><div>Coast Prairie Redox (A16) (MLRA 150A)</div></div><div><div><div></div></div><div>Sandy Mucky Mineral (S1) (LRR O, S)</div></div><div><div><div></div></div><div>Sandy Gleyed Matrix (S4)</div></div><div><div><div></div></div><div>Sandy Redox (S5)</div></div><div><div><div></div></div><div>Stripped Matrix (S6)</div></div><div><div><div></div></div><div>Dark Surface (S7) (LRR P, S, T, U)</div></div></div><div><div><div></div></div><div>Polyvalue Below Surface (S8) (LRR S, T, U)</div></div><div><div><div></div></div><div>Thin Dark Surface (S9) (LRR S, T, U)</div></div><div><div><div></div></div><div>Loamy Mucky Mineral (F1)</div></div><div><div><div></div></div><div>Loamy Gleyed Matrix (F2)</div></div><div><div><div></div></div><div>X Depleted Matrix (F3)</div></div><div><div><div></div></div><div>Redox Dark Surface (F6)</div></div><div><div><div></div></div><div>Depleted Dark Surface (F7)</div></div><div><div><div></div></div><div>Redox Depressions (F8)</div></div><div><div><div></div></div><div>Marl (F10) (LRR U)</div></div><div><div><div></div></div><div>Depleted Ochric (F11) (MLRA 151)</div></div><div><div><div></div></div><div>Iron-Manganese Masses (F12) (LRR O, P, T)</div></div><div><div><div></div></div><div>Umbric Surface (F13) (LRR P, T, U)</div></div><div><div><div></div></div><div>Delta Ochric (F17) (MLRA 151)</div></div><div><div><div></div></div><div>Reduced Vertic (F18) (MLRA 150A, 150B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (MLRA 149A)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div></div><div><div>Indicators for Problematic Hydric Soils:</div><div><div><div></div></div><div>1 cm Muck (A9) (LRR O)</div></div><div><div><div></div></div><div>2 cm Muck (A10) (LRR S)</div></div><div><div><div></div></div><div>Reduced Vertic(F18) (outside MLRA 150A,B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (LRR P, S, T)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 153B)</div></div><div><div><div></div></div><div>Red Parent Material (TF2)</div></div><div><div><div></div></div><div>Very Shallow Dark Surface (TF12)</div></div><div><div><div></div></div><div>Other (explain in remarks)</div></div></div><div><div>*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</div></div></div></div>								
<div>Restrictive Layer (if observed):</div> <div>Type: <div></div></div> <div>Depth (inches): <div></div></div>						<div>Hydric Soil Present?</div> <div>Yes</div>		
<div>Remarks:</div> <div></div>								



**DP9 facing north taken 1/19/2016**



**DP9 facing east taken 1/19/2016**



**DP9 facing south taken 1/19/2016**



**DP9 facing west taken 1/19/2016**



Soil profile at DP9 taken 1/19/2016

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/19/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP10  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): concave Slope (%): 20  
Subregion (LRR or MLRA): LRR O Lat: 30°11'5.458"N Long: 91°4'42.882"W Datum: NAD83  
Soil Map Unit Name Gr: Gramercy silty clay loam, 0 to 1 percent slopes NWI Classification: PFO1A

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>Yes</u>	<b>Is the Sampled Area within a Wetland? No</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>No</u>	

Remarks:

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<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) <b>(LRR U)</b>	<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 on Living	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) <b>(LRR T, U)</b>

**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? No**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

FAC Neutral Test=3:1

Tree Stratum (Plot size: 30 feet )				Absolute % Cover	Dominant Species	Indicator Staus
1	Celtis laevigata			45	Y	FACW
2	Acer rubrum			15	Y	FAC
3						
4						
5						
6						
7						
8						
				60	= Total Cover	
50% of total cover: 30				20% of total cover: 12		

Sapling/Shrub Stratum (Plot size: 30 feet )				Absolute % Cover	Dominant Species	Indicator Staus
1	Sambucus nigra			15	Y	FACW
2	Quercus nigra			10	Y	FAC
3	Ulmus americana			5	N	FAC
4	Cornus drummondii			5	N	FAC
5						
6						
7						
8						
				35	= Total Cover	
50% of total cover: 17.5				20% of total cover: 7		

Herb stratum (Plot size: 30 feet )				Absolute % Cover	Dominant Species	Indicator Staus
1	Rubus trivialis			15	Y	FACU
2	Sambucus nigra			10	Y	FACW
3	Viola sororia			10	Y	FAC
4	Sabal minor			5	N	FACW
5	Toxicodendron radicans			5	N	FAC
6	Quercus nigra			2	N	FAC
7						
8						
9						
10						
11						
12						
				47	= Total Cover	
50% of total cover: 23.5				20% of total cover: 9.4		

Woody vine stratum (Plot size: 30 feet )				Absolute % Cover	Dominant Species	Indicator Staus
1						
2						
3						
4						
5						
				0	= Total Cover	
50% of total cover: 0				20% of total cover: 0		

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across all Strata: 7 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 85.71% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	0
FAC species	x 3 =	0
FACU species	x 4 =	0
UPL species	x 5 =	0
Column totals	(A)	0 (B)

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

☐ Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☐ Prevalence index is ≤3.0\*

☐ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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**

Remarks: (If observed, list morphological adaptations below).

SOIL			Sampling Point: DP10																																			
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*	Loc**																																
0-12	10YR 4/1	80	10YR 5/6	20	C	M	Clay																															
*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.			**Location: PL = Pore Lining, M = Matrix																																			
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils:																																			
<div><div><div><div><div></div><div>Histisol (A1)</div></div><div><div></div><div>Histic Epipedon (A2)</div></div><div><div></div><div>Black Histic (A3)</div></div><div><div></div><div>Hydrogen Sulfide (A4)</div></div><div><div></div><div>Stratified Layers (A5)</div></div><div><div></div><div>Organic Bodies (A6) (LRR P, T, U)</div></div><div><div></div><div>5 cm Mucky Mineral (A7) (LRR P, T, U)</div></div><div><div></div><div>Muck Presence (A8) (LRR U)</div></div><div><div></div><div>1 cm Muck (A9) (LRR P, T)</div></div><div><div></div><div>Depleted Below Dark Surface (A11)</div></div><div><div></div><div>Thick Dark Surface (A12)</div></div><div><div></div><div>Coast Prairie Redox (A16) (MLRA 150A)</div></div><div><div></div><div>Sandy Mucky Mineral (S1) (LRR O, S)</div></div><div><div></div><div>Sandy Gleyed Matrix (S4)</div></div><div><div></div><div>Sandy Redox (S5)</div></div><div><div></div><div>Stripped Matrix (S6)</div></div><div><div></div><div>Dark Surface (S7) (LRR P, S, T, U)</div></div></div><div><div><div></div><div>Polyvalue Below Surface (S8) (LRR S, T, U)</div></div><div><div></div><div>Thin Dark Surface (S9) (LRR S, T, U)</div></div><div><div></div><div>Loamy Mucky Mineral (F1)</div></div><div><div></div><div>Loamy Gleyed Matrix (F2)</div></div><div><div>X</div><div>Depleted Matrix (F3)</div></div><div><div></div><div>Redox Dark Surface (F6)</div></div><div><div></div><div>Depleted Dark Surface (F7)</div></div><div><div></div><div>Redox Depressions (F8)</div></div><div><div></div><div>Marl (F10) (LRR U)</div></div><div><div></div><div>Depleted Ochric (F11) (MLRA 151)</div></div><div><div></div><div>Iron-Manganese Masses (F12) (LRR O, P, T)</div></div><div><div></div><div>Umbric Surface (F13) (LRR P, T, U)</div></div><div><div></div><div>Delta Ochric (F17) (MLRA 151)</div></div><div><div></div><div>Reduced Vertic (F18) (MLRA 150A, 150B)</div></div><div><div></div><div>Piedmont Floodplain Soils (F19) (MLRA 149A)</div></div><div><div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div></div><div><div><div></div><div>1 cm Muck (A9) (LRR O)</div></div><div><div></div><div>2 cm Muck (A10) (LRR S)</div></div><div><div></div><div>Reduced Vertic(F18) (outside MLRA 150A,B)</div></div><div><div></div><div>Piedmont Floodplain Soils (F19) (LRR P, S, T)</div></div><div><div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 153B)</div></div><div><div></div><div>Red Parent Material (TF2)</div></div><div><div></div><div>Very Shallow Dark Surface (TF12)</div></div><div><div></div><div>Other (explain in remarks)</div></div></div><div><div><div></div><div>*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</div></div></div></div> <tr><td colspan="3">Restrictive Layer (if observed):</td><td colspan="6">Hydric Soil Present? Yes</td></tr> <tr><td colspan="3">Type: _____ Depth (inches): _____</td><td colspan="6"></td></tr> <tr><td colspan="9">Remarks:</td></tr> <tr><td colspan="9"></td></tr>			Restrictive Layer (if observed):			Hydric Soil Present? Yes						Type: _____ Depth (inches): _____									Remarks:																	
Restrictive Layer (if observed):			Hydric Soil Present? Yes																																			
Type: _____ Depth (inches): _____																																						
Remarks:																																						



**DP10 facing north taken 1/19/2016**



**DP10 facing east taken 1/19/2016**



**DP10 facing south taken 1/19/2016**



**DP10 facing west taken 1/19/2016**



Soil profile at DP10 taken 1/19/2016

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/19/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP11  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): none Slope (%): 0  
Subregion (LRR or MLRA): LRR O Lat: 30°11'5.962"N Long: 91°4'44.534"W Datum: NAD83  
Soil Map Unit Name Gr: Gramercy silty clay loam, 0 to 1 percent slopes NWI Classification: PFO1A

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>Yes</u>	<b>Is the Sampled Area within a Wetland? Yes</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>Yes</u>	

Remarks:

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) ( <b>LRR U</b> )	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) ( <b>LRR T, U</b> )

**Field Observations:**

Surface water present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>4</u>
Water table present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>
Saturation present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>

(includes capillary fringe)

**Wetland  
Hydrology  
Present? Yes**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

FAC-Neutral Test: 4:0

Tree Stratum (Plot size: 30 feet )				Absolute % Cover	Dominant Species	Indicator Staus
1	<i>Celtis laevigata</i>	30	Y	FACW		
2	<i>Acer rubrum</i>	20	Y	FAC		
3	<i>Quercus nigra</i>	15	Y	FAC		
4	<i>Fraxinus pennsylvanica</i>	5	N	FACW		
5						
6						
7						
8						
		70	= Total Cover			
50% of total cover: 35		20% of total cover: 14				

Sapling/Shrub Stratum (Plot size: 30 feet )				
1	<i>Sabal minor</i>	20	Y	FACW
2	<i>Celtis laevigata</i>	10	Y	FACW
3	<i>Ulmus americana</i>	5	N	FAC
4	<i>Diospyros virginiana</i>	5	N	FAC
5				
6				
7				
8				
		40	= Total Cover	
50% of total cover: 20		20% of total cover: 8		

Herb stratum (Plot size: 30 feet )				
1	<i>Panicum hemitomom</i>	35	Y	OBL
2	<i>Brunnichia ovata</i>	5	N	FACW
3	<i>Cocculus carolinus</i>	5	N	FAC
4				
5				
6				
7				
8				
9				
10				
11				
12				
		45	= Total Cover	
50% of total cover: 22.5		20% of total cover: 9		

Woody vine stratum (Plot size: 30 feet )				
1	<i>Toxicodendron radicans</i>	15	Y	FAC
2	<i>Brunnichia ovata</i>	10	Y	FACW
3				
4				
5				
		25	= Total Cover	
50% of total cover: 12.5		20% of total cover: 5		

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across all Strata: 8 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	x 1 =	<u>0</u>
FACW species	x 2 =	<u>0</u>
FAC species	x 3 =	<u>0</u>
FACU species	x 4 =	<u>0</u>
UPL species	x 5 =	<u>0</u>
Column totals	(A)	<u>0</u> (B)

Prevalence Index = B/A =         

**Hydrophytic Vegetation Indicators:**

         Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

         Prevalence index is ≤3.0\*

         Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

**Definitions of Four Vegetation Strata**

**Tree-** Woody plants, excluding woody vines, approximately 20 ft (6m) 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 3.26 ft (1m) tall

**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**

Remarks: (If observed, list morphological adaptations below).

SOIL							Sampling Point: DP11	
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*	Loc**		
<div>*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.      **Location: PL = Pore Lining, M = Matrix</div>								
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils:</b>			
<div><div><div><input type="checkbox"/> Histisol (A1)</div><div><input type="checkbox"/> Histic Epipedon (A2)</div><div><input type="checkbox"/> Black Histic (A3)</div><div><input type="checkbox"/> Hydrogen Sulfide (A4)</div><div><input type="checkbox"/> Stratified Layers (A5)</div><div><input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)</div><div><input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)</div><div><input type="checkbox"/> Muck Presence (A8) (LRR U)</div><div><input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)</div><div><input type="checkbox"/> Depleted Below Dark Surface (A11)</div><div><input type="checkbox"/> Thick Dark Surface (A12)</div><div><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)</div><div><input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)</div><div><input type="checkbox"/> Sandy Gleyed Matrix (S4)</div><div><input type="checkbox"/> Sandy Redox (S5)</div><div><input type="checkbox"/> Stripped Matrix (S6)</div><div><input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)</div></div><div><div><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)</div><div><input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)</div><div><input type="checkbox"/> Loamy Mucky Mineral (F1)</div><div><input type="checkbox"/> Loamy Gleyed Matrix (F2)</div><div><input type="checkbox"/> Depleted Matrix (F3)</div><div><input type="checkbox"/> Redox Dark Surface (F6)</div><div><input type="checkbox"/> Depleted Dark Surface (F7)</div><div><input type="checkbox"/> Redox Depressions (F8)</div><div><input type="checkbox"/> Marl (F10) (LRR U)</div><div><input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)</div><div><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)</div><div><input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)</div><div><input type="checkbox"/> Delta Ochric (F17) (MLRA 151)</div><div><input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)</div><div><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)</div><div><input type="checkbox"/> Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div>								

☐ 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)

☐ Anomolous Bright Loamy Soils (F20) (MLRA 153B)

☐ Red Parent Material (TF2)

☐ Very Shallow Dark Surface (TF12)

☒ Other (explain in remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

**Restrictive Layer (if observed):**					**Hydric Soil Present?**			
Type: \_\_\_\_\_					**Yes**			
Depth (inches): \_\_\_\_\_								
Remarks:								
No soil profile was taken due to inundation. The soils are presumed hydric due to the presence of wetland hydrology indicators and the dominance of hydrophytic vegetation.								



**DP11 facing north taken 1/19/2016**



**DP11 facing east taken 1/19/2016**



**DP11 facing south taken 1/19/2016**



**DP11 facing west taken 1/19/2016**

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/20/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP12  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): non Slope (%): 0  
Subregion (LRR or MLRA): LRR O Lat: 30°11'15.201"N Long: 91°4'27.238"W Datum: NAD83  
Soil Map Unit Name Sb: Schriever clay, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>Yes</u>	<b>Is the Sampled Area within a Wetland? Yes</b>
Hydric soil present? <u>Yes</u>	
Indicators of wetland hydrology present? <u>Yes</u>	

Remarks:

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<input checked="" 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) <b>(LRR U)</b>	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)
<input checked="" 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 on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" 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 checked="" type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) <b>(LRR T, U)</b>

**Field Observations:**

Surface water present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>1</u>
Water table present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>

**Wetland  
Hydrology  
Present? Yes**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

FAC-Neutral Test: 2:0

Tree Stratum	(Plot size: 30 feet)	Absolute % Cover	Dominant Species	Indicator Staus	Dominance Test Worksheet	
1					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)	
2					Total Number of Dominant Species Across all Strata: 4 (B)	
3					Percent of Dominant Species that are OBL, FACW, or FAC: 75.00% (A/B)	
4						
5						
6						
7						
8						
		0	= Total Cover			
50% of total cover: 0		20% of total cover: 0				
Sapling/Shrub Stratum (Plot size: 30 feet)					Prevalence Index Worksheet	
1	<i>Desmodium paniculatum</i>	45	Y	FACU	Total % Cover of:	
2					OBL species x 1 = 0	
3					FACW species x 2 = 0	
4					FAC species x 3 = 0	
5					FACU species x 4 = 0	
6					UPL species x 5 = 0	
7					Column totals (A) 0 (B)	
8					Prevalence Index = B/A =	
		45	= Total Cover			
50% of total cover: 22.5		20% of total cover: 9				
Herb stratum (Plot size: 30 feet)					Hydrophytic Vegetation Indicators:	
1	<i>Commelina diffusa</i>	20	Y	FACW	Rapid test for hydrophytic vegetation	
2	<i>Rumex crispus</i>	10	Y	FAC	X Dominance test is >50%	
3	<i>Caperonia palustris</i>	10	Y	FACW	Prevalence index is ≤3.0*	
4	<i>Cyperus rotundus</i>	5	N	FAC	Problematic hydrophytic vegetation* (explain)	
5					*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
6					Definitions of Four Vegetation Strata	
7					<b>Tree-</b> Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) DBH.	
8					<b>Sapling/Shrub -</b> Woody plants, excluding vines, less than 3 in. DBH and greater than 3.26 ft (1m) tall	
9					<b>Herb -</b> 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.	
10					<b>Woody vine -</b> All woody vines, regardless of height.	
11						
12						
		45	= Total Cover			
50% of total cover: 22.5		20% of total cover: 9				
Woody vine stratum (Plot size: 30 feet)					Hydrophytic Vegetation Present? <b>Yes</b>	
1						
2						
3						
4						
5						
		0	= Total Cover			
50% of total cover: 0		20% of total cover: 0				

Remarks: (If observed, list morphological adaptations below).

<b>SOIL</b>	Sampling Point: DP12
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Sampling Point: DP12

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

[illegible]

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

\*\*Location: PL = Pore Lining, M = Matrix

**Hydric Soil Indicators:**

- ☐ Histisol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Organic Bodies (A6) **(LRR P, T, U)**
- ☐ 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- ☐ Muck Presence (A8) **(LRR U)**
- ☐ 1 cm Muck (A9) **(LRR P, T)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16) **(MLRA 150A)**
- ☐ Sandy Mucky Mineral (S1) **(LRR O, S)**
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) **(LRR P, S, T, U)**

### Indicators for Problematic Hydric Soils:

- ☐ Polyvalue Below Surface (S8) **(LRR S, T, U)**
- ☐ Thin Dark Surface (S9) **(LRR S, T, U)**
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Marl (F10) **(LRR U)**
- ☐ Depleted Ochric (F11) **(MLRA 151)**
- ☐ Iron-Manganese Masses (F12) **(LRR O, P)**
- ☒ Umbric Surface (F13) **(LRR P, T, U)**
- ☐ Delta Ochric (F17) **(MLRA 151)**
- ☐ Reduced Vertic (F18) **(MLRA 150A, 150B)**
- ☐ Piedmont Floodplain Soils (F19) **(MLRA 151)**
- ☐ Anomalous Bright Loamy Soils (F20) **(MLRA 151)**

☐ 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)**  
☐ Anomolous Bright Loamy Soils (F20) **(MLRA 153B)**  
☐ Red Parent Material (TF2)  
☐ Very Shallow Dark Surface (TF12)  
☐ Other (explain in remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

## Restrictive Layer (if observed):

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present?	Yes
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Remarks:



**DP12 facing north taken 1/20/2016**



**DP12 facing east taken 1/20/2016**



**DP12 facing south taken 1/20/2016**



**DP12 facing west taken 1/20/2016**



Soil profile at DP12 taken 1/20/2016

**WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region**

Project/Site Claiborne Plantation Site City/County: White Castle/Iberville Sampling Date: 1/20/2016  
Applicant/Owner: Baton Rouge Area Chamber (BRAC) State: Louisiana Sampling Point: DP13  
Investigator(s): Christina Perez, Kale Wetekamm Section, Township, Range: Section 15, Township 10S, Range 14E  
Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): convex Slope (%): 5  
Subregion (LRR or MLRA): LRR O Lat: 30°11'15.537"N Long: 91°4'25.587"W Datum: NAD83  
Soil Map Unit Name Sb: Schriever clay, 0 to 1 percent slopes NWI Classification: none

Are climatic/hydrologic conditions of the site typical for this time of the year? **Yes** (If no, explain in remarks)

Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal circumstances" present? **Yes**

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? <u>No</u>	<b>Is the Sampled Area within a Wetland? No</b>
Hydric soil present? <u>No</u>	
Indicators of wetland hydrology present? <u>No</u>	

Remarks:

**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that ap

Secondary Indicators (minimum of two required)

<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) ( <b>LRR U</b> )	<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 on Living	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
		<input type="checkbox"/> Sphagnum moss (D8) ( <b>LRR T, U</b> )

**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? No**

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Tree Stratum	(Plot size: 30 feet )	Absolute % Cover	Dominant Species	Indicator Staus	Dominance Test Worksheet	
1					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)	
2					Total Number of Dominant Species Across all Strata: 3 (B)	
3					Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)	
4						
5						
6						
7						
8						
		0 = Total Cover				
50% of total cover: 0		20% of total cover: 0				
Sapling/Shrub Stratum (Plot size: 30 feet )					Prevalence Index Worksheet	
1					Total % Cover of:	
2					OBL species 0 x 1 = 0	
3					FACW species 10 x 2 = 20	
4					FAC species 0 x 3 = 0	
5					FACU species 97 x 4 = 388	
6					UPL species 0 x 5 = 0	
7					Column totals 107 (A) 408 (B)	
8					Prevalence Index = B/A = 3.81	
		0 = Total Cover				
50% of total cover: 0		20% of total cover: 0				
Herb stratum (Plot size: 30 feet )					Hydrophytic Vegetation Indicators:	
1	<i>Sorghum halepense</i>	30	Y	FACU	Rapid test for hydrophytic vegetation	
2	<i>Paspalum notatum</i>	30	Y	FACU	Dominance test is >50%	
3	<i>Cynodon dactylon</i>	30	Y	FACU	Prevalence index is ≤3.0*	
4	<i>Verbena incompta</i>	10	N	FACW	Problematic hydrophytic vegetation* (explain)	
5	<i>Trifolium repens</i>	5	N	FACU	*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
6	<i>Ambrosia artemisiifolia</i>	2	N	FACU	Definitions of Four Vegetation Strata	
7					<b>Tree-</b> Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and less than 3 in. (7.6 cm) DBH.	
8					<b>Sapling/Shrub -</b> Woody plants, excluding vines, less than 3 in. DBH and greater than 3.26 ft (1m) tall	
9					<b>Herb -</b> 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.	
10					<b>Woody vine -</b> All woody vines, regardless of height.	
11						
12						
		107 = Total Cover				
50% of total cover: 53.5		20% of total cover: 21.4				
Woody vine stratum (Plot size: 30 feet )					<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <b>Hydrophytic Vegetation Present?</b> </div> <div style="font-size: 2em; font-weight: bold;">No</div> </div>	
1						
2						
3						
4						
5						
		0 = Total Cover				
50% of total cover: 0		20% of total cover: 0				

Remarks: (If observed, list morphological adaptations below).

SOIL			Sampling Point: DP13					
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*	Loc**		
0-1	10YR 4/1	100					Silt	Mostly gravel with some soil
<div>*Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.      **Location: PL = Pore Lining, M = Matrix</div>								
<div><div><div>Hydric Soil Indicators:</div><div><div><div><div><div><div></div></div><div>Histisol (A1)</div></div><div><div><div></div></div><div>Histic Epipedon (A2)</div></div><div><div><div></div></div><div>Black Histic (A3)</div></div><div><div><div></div></div><div>Hydrogen Sulfide (A4)</div></div><div><div><div></div></div><div>Stratified Layers (A5)</div></div><div><div><div></div></div><div>Organic Bodies (A6) (LRR P, T, U)</div></div><div><div><div></div></div><div>5 cm Mucky Mineral (A7) (LRR P, T, U)</div></div><div><div><div></div></div><div>Muck Presence (A8) (LRR U)</div></div><div><div><div></div></div><div>1 cm Muck (A9) (LRR P, T)</div></div><div><div><div></div></div><div>Depleted Below Dark Surface (A11)</div></div><div><div><div></div></div><div>Thick Dark Surface (A12)</div></div><div><div><div></div></div><div>Coast Prairie Redox (A16) (MLRA 150A)</div></div><div><div><div></div></div><div>Sandy Mucky Mineral (S1) (LRR O, S)</div></div><div><div><div></div></div><div>Sandy Gleyed Matrix (S4)</div></div><div><div><div></div></div><div>Sandy Redox (S5)</div></div><div><div><div></div></div><div>Stripped Matrix (S6)</div></div><div><div><div></div></div><div>Dark Surface (S7) (LRR P, S, T, U)</div></div></div><div><div><div></div></div><div>Polyvalue Below Surface (S8) (LRR S, T, U)</div></div><div><div><div></div></div><div>Thin Dark Surface (S9) (LRR S, T, U)</div></div><div><div><div></div></div><div>Loamy Mucky Mineral (F1)</div></div><div><div><div></div></div><div>Loamy Gleyed Matrix (F2)</div></div><div><div><div></div></div><div>Depleted Matrix (F3)</div></div><div><div><div></div></div><div>Redox Dark Surface (F6)</div></div><div><div><div></div></div><div>Depleted Dark Surface (F7)</div></div><div><div><div></div></div><div>Redox Depressions (F8)</div></div><div><div><div></div></div><div>Marl (F10) (LRR U)</div></div><div><div><div></div></div><div>Depleted Ochric (F11) (MLRA 151)</div></div><div><div><div></div></div><div>Iron-Manganese Masses (F12) (LRR O, P, T)</div></div><div><div><div></div></div><div>Umbric Surface (F13) (LRR P, T, U)</div></div><div><div><div></div></div><div>Delta Ochric (F17) (MLRA 151)</div></div><div><div><div></div></div><div>Reduced Vertic (F18) (MLRA 150A, 150B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (MLRA 149A)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)</div></div></div></div><div><div>Indicators for Problematic Hydric Soils:</div><div><div><div></div></div><div>1 cm Muck (A9) (LRR O)</div></div><div><div><div></div></div><div>2 cm Muck (A10) (LRR S)</div></div><div><div><div></div></div><div>Reduced Vertic(F18) (outside MLRA 150A,B)</div></div><div><div><div></div></div><div>Piedmont Floodplain Soils (F19) (LRR P, S, T)</div></div><div><div><div></div></div><div>Anomolous Bright Loamy Soils (F20) (MLRA 153B)</div></div><div><div><div></div></div><div>Red Parent Material (TF2)</div></div><div><div><div></div></div><div>Very Shallow Dark Surface (TF12)</div></div><div><div><div></div></div><div>Other (explain in remarks)</div></div></div><div><div>*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic</div></div></div></div>								
<div>Restrictive Layer (if observed):</div> <div>Type: <div></div></div> <div>Depth (inches): <div></div></div>					<div>Hydric Soil Present?</div> <div>No</div>			
<div>Remarks:</div> <div>Area</div>								



**DP13 facing north taken 1/20/2016**



**DP13 facing east taken 1/20/2016**



**DP13 facing south taken 1/20/2016**



**DP13 facing west taken 1/20/2016**